

Global Passivated Emitter Rear Cell Market By Component (Anti-Reflective Coating, Silicon wafers, Passivation layer, Capping Layer, Others), By Type (Monocrystalline, Polycrystalline, Thin Film), By Application (Residential, Commercial & Industrial, Utilities), By Region, Competition, Forecast and Opportunities , 2017-2027

Market Report | 2022-09-01 | 114 pages | TechSci Research

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Report description:

The global passivated emitter rear cell market is projected to register a significant CAGR during the forecast years, 2023-2027. Increasing demand for better and more efficient energy storage solutions to meet the growing energy requirement worldwide is the primary driver for the global passivated emitter rear cell market. Solar panels with passivated emitter rear cells (PERCs) contain an extra layer covering the typical solar cells' backs, increasing the efficiency and output of electrical energy from solar radiation. The safety of the solar panels can be enhanced by using PERC (passivated emitter rear cell) modules. These modules are able to reduce back recombination and prevent longer-wavelength solar light from turning into heat energy, both of which are detrimental to the device and its performance. Market players are continuously making high-end investments in research and development activities to find new innovative solutions and upgrade the existing infrastructure. Further improvements to the device are being made to lower installation and maintenance costs in addition to improving its efficiency. Modern PERC panels make better use of available space and operate more efficiently even when fewer panels are put in, which reduces installation time and expense.

The global passivated emitter rear cell market segmentation is based on component, type, application, regional distribution, and competitive landscape. Based on type, the market is divided into monocrystalline, polycrystalline, and thin film. The monocrystalline segment is expected to hold the largest market share during the forecast period, 2023-2027. Monocrystalline passivated emitter rear cell is a combination of single-crystal cell, passivated emitter cell, and back cell. The solar panel provides high flexibility and has various placements viability & tilt options without compromising efficiency. Monocrystalline passivated emitter rear cells are also efficient in case of low lighting; thus, regions such as Europe can effectively use these for power generation.

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The major market players operating in the global passivated emitter rear cell market are Targray, Aleo Solar, SunPower Corporation, JinkoSolar, JA Solar, and Trina Solar.

Years considered for this report:

Historical Years: 2017-2020

Base Year: 2021

Estimated Year: 2022

Forecast Period: 2023-2027

Objective of the Study:

- To analyze the historical growth in the market size of the global passivated emitter rear cell market from 2017 to 2021.
- To estimate and forecast the market size of global passivated emitter rear cell market from 2022 to 2027 and growth rate until 2027.
- To classify and forecast the global passivated emitter rear cell market based on component, type, application, region, and company.
- To identify the dominant region or segment in the global passivated emitter rear cell market.
- To identify drivers and challenges for the global passivated emitter rear cell market.
- To examine competitive developments such as expansions, new product launches, mergers & acquisitions, etc., in the global passivated emitter rear cell market.
- To identify and analyze the profiles of leading players operating in the global passivated emitter rear cell market.
- To identify key sustainable strategies adopted by market players in global passivated emitter rear cell market.

TechSci Research performed both primary as well as exhaustive secondary research for this study. Initially, TechSci Research sourced a list of manufacturers across the country. Subsequently, TechSci Research conducted primary research surveys with the identified companies. While interviewing, the respondents were also enquired about their competitors. Through this technique, TechSci Research could include the manufacturers who could not be identified due to the limitations of secondary research. TechSci Research analyzed the manufacturers, distribution channels, and presence of all major players across the country. TechSci Research calculated the market size of the global passivated emitter rear cell market using a top-down approach, wherein data for various end-user segments was recorded and forecast for the future years. TechSci Research sourced these values from the industry experts and company representatives and externally validated through analyzing historical data of these products and applications for getting an appropriate, overall market size. Various secondary sources such as company websites, news articles, press releases, company annual reports, investor presentations, and financial reports were also studied by TechSci Research.

Key Target Audience:

- Market research and consulting firms
- Government bodies such as regulating authorities and policy makers
- Organizations, forums, and alliances

The study is useful in providing answers to several critical questions that are important for the industry stakeholders such as product manufacturers, suppliers and partners, end users, etc., besides allowing them in strategizing investments and capitalizing on market opportunities.

Report Scope:

In this report, global passivated emitter rear cell market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

-□ Passivated Emitter Rear Cell Market, By Component:

- o□ Anti-Reflective Coating
- o□ Silicon wafers
- o□ Passivation layer
- o□ Capping Layer
- o□ Others

-□ Passivated Emitter Rear Cell Market, By Type:

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o Monocrystalline

o Polycrystalline

o Thin Film

- Passivated Emitter Rear Cell Market, By Application:

o Residential

o Commercial & Industrial

o Utilities

- Passivated Emitter Rear Cell Market, By Region:

o North America

- United States

- Mexico

- Canada

o Europe

- France

- Germany

- United Kingdom

- Italy

- Spain

- Poland

- Denmark

o Asia-Pacific

- China

- India

- Japan

- South Korea

- Australia

- Malaysia

- Singapore

o Middle East & Africa

- South Africa

- Saudi Arabia

- UAE

- Iraq

- Turkey

o South America

- Brazil

- Argentina

- Colombia

- Peru

- Chile

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in global passivated emitter rear cell market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

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Table of Contents:

1. Product Overview
2. Research Methodology
3. Impact of COVID-19 on Global Passivated Emitter Rear Cell Market
4. Executive Summary
5. Voice of Customers
 - 5.1. Brand Awareness
 - 5.2. Factors Considered while Selecting a Supplier
 - 5.3. Satisfaction Level
 - 5.4. Major Challenges Faced
6. Global Passivated Emitter Rear Cell Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Component (Anti-Reflective Coating, Silicon wafers, Passivation layer, Capping Layer, Others)
 - 6.2.2. By Type (Monocrystalline, Polycrystalline, Thin Film)
 - 6.2.3. By Application (Residential, Commercial & Industrial, Utilities)
 - 6.2.4. By Region
 - 6.2.5. By Company
 - 6.3. Product Market Map
7. North America Passivated Emitter Rear Cell Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Component
 - 7.2.2. By Type
 - 7.2.3. By Application
 - 7.2.4. By Country
 - 7.3. North America: Country Analysis
 - 7.3.1. United States Passivated Emitter Rear Cell Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Component
 - 7.3.1.2.2. By Type
 - 7.3.1.2.3. By Application
 - 7.3.1.3. Major Regulator Policies Supporting Solar Power in the Country
 - 7.3.2. Canada Passivated Emitter Rear Cell Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Component
 - 7.3.2.2.2. By Type
 - 7.3.2.2.3. By Application
 - 7.3.2.3. Major Regulator Policies Supporting Solar Power in the Country
 - 7.3.3. Mexico Passivated Emitter Rear Cell Market Outlook
 - 7.3.3.1. Market Size & Forecast

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- 7.3.3.1.1. By Value
- 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Component
 - 7.3.3.2.2. By Type
 - 7.3.3.2.3. By Application
- 7.3.3.3. Major Regulator Policies Supporting Solar Power in the Country
- 8. Asia-Pacific Passivated Emitter Rear Cell Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Component
 - 8.2.2. By Type
 - 8.2.3. By Application
 - 8.2.4. By Country
 - 8.3. Asia-Pacific: Country Analysis
 - 8.3.1. China Passivated Emitter Rear Cell Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Component
 - 8.3.1.2.2. By Type
 - 8.3.1.2.3. By Application
 - 8.3.1.3. Major Regulator Policies Supporting Solar Power in the Country
 - 8.3.2. India Passivated Emitter Rear Cell Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Component
 - 8.3.2.2.2. By Type
 - 8.3.2.2.3. By Application
 - 8.3.2.3. Major Regulator Policies Supporting Solar Power in the Country
 - 8.3.3. Japan Passivated Emitter Rear Cell Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Component
 - 8.3.3.2.2. By Type
 - 8.3.3.2.3. By Application
 - 8.3.3.3. Major Regulator Policies Supporting Solar Power in the Country
 - 8.3.4. South Korea Passivated Emitter Rear Cell Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Component
 - 8.3.4.2.2. By Type
 - 8.3.4.2.3. By Application
 - 8.3.4.3. Major Regulator Policies Supporting Solar Power in the Country

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- 8.3.5. Australia Passivated Emitter Rear Cell Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Component
 - 8.3.5.2.2. By Type
 - 8.3.5.2.3. By Application
 - 8.3.5.3. Major Regulator Policies Supporting Solar Power in the Country
- 8.3.6. Singapore Passivated Emitter Rear Cell Market Outlook
 - 8.3.6.1. Market Size & Forecast
 - 8.3.6.1.1. By Value
 - 8.3.6.2. Market Share & Forecast
 - 8.3.6.2.1. By Component
 - 8.3.6.2.2. By Type
 - 8.3.6.2.3. By Application
 - 8.3.6.3. Major Regulator Policies Supporting Solar Power in the Country
- 8.3.7. Malaysia Passivated Emitter Rear Cell Market Outlook
 - 8.3.7.1. Market Size & Forecast
 - 8.3.7.1.1. By Value
 - 8.3.7.2. Market Share & Forecast
 - 8.3.7.2.1. By Component
 - 8.3.7.2.2. By Type
 - 8.3.7.2.3. By Application
 - 8.3.7.3. Major Regulator Policies Supporting Solar Power in the Country
- 9. Europe Passivated Emitter Rear Cell Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Component
 - 9.2.2. By Type
 - 9.2.3. By Application
 - 9.2.4. By Country
 - 9.3. Europe: Country Analysis
 - 9.3.1. Germany Passivated Emitter Rear Cell Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Component
 - 9.3.1.2.2. By Type
 - 9.3.1.2.3. By Application
 - 9.3.1.3. Major Regulator Policies Supporting Solar Power in the Country
 - 9.3.2. United Kingdom Passivated Emitter Rear Cell Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Component
 - 9.3.2.2.2. By Type

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- 9.3.2.2.3. By Application
- 9.3.2.3. Major Regulator Policies Supporting Solar Power in the Country
- 9.3.3. France Passivated Emitter Rear Cell Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Component
 - 9.3.3.2.2. By Type
 - 9.3.3.2.3. By Application
 - 9.3.3.3. Major Regulator Policies Supporting Solar Power in the Country
- 9.3.4. Italy Passivated Emitter Rear Cell Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Component
 - 9.3.4.2.2. By Type
 - 9.3.4.2.3. By Application
 - 9.3.4.3. Major Regulator Policies Supporting Solar Power in the Country
- 9.3.5. Spain Passivated Emitter Rear Cell Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Component
 - 9.3.5.2.2. By Type
 - 9.3.5.2.3. By Application
 - 9.3.5.3. Major Regulator Policies Supporting Solar Power in the Country
- 9.3.6. Poland Passivated Emitter Rear Cell Market Outlook
 - 9.3.6.1. Market Size & Forecast
 - 9.3.6.1.1. By Value
 - 9.3.6.2. Market Share & Forecast
 - 9.3.6.2.1. By Component
 - 9.3.6.2.2. By Type
 - 9.3.6.2.3. By Application
 - 9.3.6.3. Major Regulator Policies Supporting Solar Power in the Country
- 9.3.7. Denmark Passivated Emitter Rear Cell Market Outlook
 - 9.3.7.1. Market Size & Forecast
 - 9.3.7.1.1. By Value
 - 9.3.7.2. Market Share & Forecast
 - 9.3.7.2.1. By Component
 - 9.3.7.2.2. By Type
 - 9.3.7.2.3. By Application
 - 9.3.7.3. Major Regulator Policies Supporting Solar Power in the Country
- 10. South America Passivated Emitter Rear Cell Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast
 - 10.2.1. By Component

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- 10.2.2.□By Type
- 10.2.3.□By Application
- 10.2.4.□By Country
- 10.3.□South America: Country Analysis
 - 10.3.1.□Brazil Passivated Emitter Rear Cell Market Outlook
 - 10.3.1.1.□Market Size & Forecast
 - 10.3.1.1.1.□By Value
 - 10.3.1.2.□Market Share & Forecast
 - 10.3.1.2.1.□By Component
 - 10.3.1.2.2.□By Type
 - 10.3.1.2.3.□By Application
 - 10.3.1.3.□Major Regulator Policies Supporting Solar Power in the Country
 - 10.3.2.□Argentina Passivated Emitter Rear Cell Market Outlook
 - 10.3.2.1.□Market Size & Forecast
 - 10.3.2.1.1.□By Value
 - 10.3.2.2.□Market Share & Forecast
 - 10.3.2.2.1.□By Component
 - 10.3.2.2.2.□By Type
 - 10.3.2.2.3.□By Application
 - 10.3.2.3.□Major Regulator Policies Supporting Solar Power in the Country
 - 10.3.3.□Colombia Passivated Emitter Rear Cell Market Outlook
 - 10.3.3.1.□Market Size & Forecast
 - 10.3.3.1.1.□By Value
 - 10.3.3.2.□Market Share & Forecast
 - 10.3.3.2.1.□By Component
 - 10.3.3.2.2.□By Type
 - 10.3.3.2.3.□By Application
 - 10.3.3.3.□Major Regulator Policies Supporting Solar Power in the Country
 - 10.3.4.□Peru Passivated Emitter Rear Cell Market Outlook
 - 10.3.4.1.□Market Size & Forecast
 - 10.3.4.1.1.□By Value
 - 10.3.4.2.□Market Share & Forecast
 - 10.3.4.2.1.□By Component
 - 10.3.4.2.2.□By Type
 - 10.3.4.2.3.□By Application
 - 10.3.4.3.□Major Regulator Policies Supporting Solar Power in the Country
 - 10.3.5.□Chile Passivated Emitter Rear Cell Market Outlook
 - 10.3.5.1.□Market Size & Forecast
 - 10.3.5.1.1.□By Value
 - 10.3.5.2.□Market Share & Forecast
 - 10.3.5.2.1.□By Component
 - 10.3.5.2.2.□By Type
 - 10.3.5.2.3.□By Application
 - 10.3.5.3.□Major Regulator Policies Supporting Solar Power in the Country
- 11.□Middle East & Africa Passivated Emitter Rear Cell Market Outlook
 - 11.1.□Market Size & Forecast
 - 11.1.1.□By Value

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- 11.2.□Market Share & Forecast
 - 11.2.1.□By Component
 - 11.2.2.□By Type
 - 11.2.3.□By Application
 - 11.2.4.□By Country
- 11.3.□Middle East & Africa: Country Analysis
 - 11.3.1.□Saudi Arabia Passivated Emitter Rear Cell Market Outlook
 - 11.3.1.1.□Market Size & Forecast
 - 11.3.1.1.1.□By Value
 - 11.3.1.2.□Market Share & Forecast
 - 11.3.1.2.1.□By Component
 - 11.3.1.2.2.□By Type
 - 11.3.1.2.3.□By Application
 - 11.3.1.3.□Major Regulator Policies Supporting Solar Power in the Country
 - 11.3.2.□South Africa Passivated Emitter Rear Cell Market Outlook
 - 11.3.2.1.□Market Size & Forecast
 - 11.3.2.1.1.□By Value
 - 11.3.2.2.□Market Share & Forecast
 - 11.3.2.2.1.□By Component
 - 11.3.2.2.2.□By Type
 - 11.3.2.2.3.□By Application
 - 11.3.2.3.□Major Regulator Policies Supporting Solar Power in the Country
 - 11.3.3.□UAE Passivated Emitter Rear Cell Market Outlook
 - 11.3.3.1.□Market Size & Forecast
 - 11.3.3.1.1.□By Value
 - 11.3.3.2.□Market Share & Forecast
 - 11.3.3.2.1.□By Component
 - 11.3.3.2.2.□By Type
 - 11.3.3.2.3.□By Application
 - 11.3.3.3.□Major Regulator Policies Supporting Solar Power in the Country
 - 11.3.4.□Iraq Passivated Emitter Rear Cell Market Outlook
 - 11.3.4.1.□Market Size & Forecast
 - 11.3.4.1.1.□By Value
 - 11.3.4.2.□Market Share & Forecast
 - 11.3.4.2.1.□By Component
 - 11.3.4.2.2.□By Type
 - 11.3.4.2.3.□By Application
 - 11.3.4.3.□Major Regulator Policies Supporting Solar Power in the Country
 - 11.3.5.□Turkey Passivated Emitter Rear Cell Market Outlook
 - 11.3.5.1.□Market Size & Forecast
 - 11.3.5.1.1.□By Value
 - 11.3.5.2.□Market Share & Forecast
 - 11.3.5.2.1.□By Component
 - 11.3.5.2.2.□By Type
 - 11.3.5.2.3.□By Application
 - 11.3.5.3.□Major Regulator Policies Supporting Solar Power in the Country
- 12.□Market Dynamics

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- 12.1. Drivers
- 12.2. Challenges
- 13. Market Trends & Developments
- 14. Company Profiles
 - 14.1. Targray
 - 14.2. Aleo Solar
 - 14.3. SunPower Corporation
 - 14.4. JinkoSolar
 - 14.5. JA Solar
 - 14.6. Trina Solar
- 15. Strategic Recommendations
- 16. About Us & Disclaimer

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