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Global PERC Photovoltaic Module Market Growth 2025-2031

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Abstracts

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The global PERC Photovoltaic Module market size is predicted to grow from US$ million in 2025 to US$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

PERC stands for “passivated emitter and rear contact” or “rear cell”. PERC solar panels are built with PERC cells, which have an additional layer on the back of the traditional solar cells. This additional layer allows more sunlight to be captured and turned into electricity, making PERC cells more efficient than traditional cells. PERC modules are also able to mitigate rear recombination and prevent longer wavelengths from becoming heat that would impair the cell’s performance.

China has implemented the Renewable Energy Law since 2006, in which Article 4 clearly states that, the State gives first priority to the exploration of renewable energy. Over the years, various departments of the Chinese government have successively issued a large number of policies, covering production, sales, taxation, subsidies and other aspects. After setting the carbon neutrality goal in 2021, from a national perspective, the upgrading of the energy structure is ever imperative, and therefore the optoelectronic industry has great potential. The European Commission released the Net-Zero Industry Act in 2023. This bill aims to stimulate local manufacturing in Europe, reduce import dependence on China, and ensure that at least 40% of the EU's clean energy demand can be met by 2030. The EU targets an installed solar capacity of 600 GW. Overall, the European market still has a lot of room for development. US 2022 release of the Inflation Reduction Act, which includes $369 billion for energy security and climate change investments. For the photovoltaic industry, the bill stimulates its

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development from multiple aspects such as corporate and individual tax credits, production subsidies, and loans throughout the industry chain, and revitalizes the domestic manufacturing industry in the United States. Japanese authorities plan to make solar panels mandatory for new residential buildings in Tokyo from 2025 onwards. It is estimated that by 2030, photovoltaic power generation will account for 14%-16% of Japan's total power generation, and the cumulative installed capacity of photovoltaic systems will be about 117.39 GW.

LP Information, Inc. (LPI) ' newest research report, the “PERC Photovoltaic Module Industry Forecast” looks at past sales and reviews total world PERC Photovoltaic Module sales in 2024, providing a comprehensive analysis by region and market sector of projected PERC Photovoltaic Module sales for 2025 through 2031. With PERC Photovoltaic Module sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world PERC Photovoltaic Module industry.

This Insight Report provides a comprehensive analysis of the global PERC Photovoltaic Module landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PERC Photovoltaic Module portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global PERC Photovoltaic Module market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PERC Photovoltaic Module and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PERC Photovoltaic Module.

This report presents a comprehensive overview, market shares, and growth opportunities of PERC Photovoltaic Module market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Monocrystaline

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Polycrystaline

Segmentation by Application:

Residential

Commercial

Industrial

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

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Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hanwha

Sharp

Bosch

First Solar

Canadian Solar EMEA

Eco Green Energy

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EverExceed Industrial

Maysun SOLAR

Jinko

CSIQ

Talesun

LONGi Solar

Risen Energy

Baoli New Energy Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global PERC Photovoltaic Module market?

What factors are driving PERC Photovoltaic Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do PERC Photovoltaic Module market opportunities vary by end market size?

How does PERC Photovoltaic Module break out by Type, by Application?

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