

Global Photovoltaics Modules Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G710B84A6B5EN.html>

Date: January 2024

Pages: 120

Price: US\$ 3,480.00 (Single User License)

ID: G710B84A6B5EN

Abstracts

According to our (Global Info Research) latest study, the global Photovoltaics Modules market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Solar Cell is a device made from crystalline silicon or thin film that converts sunlight into electricity by a process known as the photovoltaic effect. There are two key indicators for solar cells: one is cell conversion efficiency, and the other is cell thickness.

Photovoltaics Modules use light energy from the sun to generate electricity through the photovoltaic effect. The majority of modules use wafer-based crystalline silicon cells or thin-film cells based on cadmium telluride or silicon. The structural (load carrying) member of a module can either be the top layer or the back layer. Cells must also be protected from mechanical damage and moisture. Most Photovoltaics Modules are rigid, but semi-flexible ones are available, based on thin-film cells.

In Japan, Photovoltaics Modules key players include Sharp, Trina Solar, Yingli, JA Solar, Canadian Solar, etc. The top five manufacturers hold a share over 40%.

In terms of product, Single Crystal Silicon is the largest segment, with a share over 45%. And in terms of application, the largest application is Ground Mount, followed by Residential, Commercial, etc.

The Global Info Research report includes an overview of the development of the Photovoltaics Modules industry chain, the market status of Residential (Single Crystal Silicon, Polycrystalline Silicon), Commercial (Single Crystal Silicon, Polycrystalline

Silicon), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Photovoltaics Modules.

Regionally, the report analyzes the Photovoltaics Modules markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Photovoltaics Modules market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Photovoltaics Modules market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Photovoltaics Modules industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (MW), revenue generated, and market share of different by Type (e.g., Single Crystal Silicon, Polycrystalline Silicon).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Photovoltaics Modules market.

Regional Analysis: The report involves examining the Photovoltaics Modules market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Photovoltaics Modules market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Photovoltaics Modules:

Company Analysis: Report covers individual Photovoltaics Modules manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Photovoltaics Modules. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Residential, Commercial).

Technology Analysis: Report covers specific technologies relevant to Photovoltaics Modules. It assesses the current state, advancements, and potential future developments in Photovoltaics Modules areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Photovoltaics Modules market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Photovoltaics Modules market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Single Crystal Silicon

Polycrystalline Silicon

Others

Market segment by Application

Residential

Commercial

Ground Mount

Others

Major players covered

Sharp

JA Solar

Yingli

Trina Solar

Canadian Solar

Kyocera Solar

Solar Frontier

SFCE

ReneSola

Hanwha Solar

REC Group

First Solar

SunPower

Jinko Solar

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Photovoltaics Modules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Photovoltaics Modules, with price, sales, revenue and global market share of Photovoltaics Modules from 2019 to 2024.

Chapter 3, the Photovoltaics Modules competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Photovoltaics Modules breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Photovoltaics Modules market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces

analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Photovoltaics Modules.

Chapter 14 and 15, to describe Photovoltaics Modules sales channel, distributors, customers, research findings and conclusion.

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