

Global Solar Cell (Photovoltaic) Equipment Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Solar Cell (Photovoltaic) Equipment market size was valued at USD 44700 million in 2023 and is forecast to a readjusted size of USD 55570 million by 2030 with a CAGR of 3.2% 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.

Solar Cell (Photovoltaic) Equipment mainly refers to the solar module in photovoltaic industry. Solar module employs light energy (photons) from the sun to generate electricity through the photovoltaic effect. Most of modules use wafer-based crystalline silicon cells or thin-film cells based on cadmium telluride (CdTe) or copper indium gallium selenide (CIGS). 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 solar modules are rigid, but semi-flexible ones are available, based on thin-film cells.

In this report, the statistical product is considered from the solar module, the statistical data is considered from the shipment volume. This report mainly covers the Solar Modules product type (Single Crystal Silicon, Polycrystalline Silicon and Other).

China is the largest Solar Cell (Photovoltaic) Equipment market with about 26% market share. Japan is follower, accounting for about 17% market share.

The key players are Hanwha, First Solar, SunPower, Elkem Solar, Sharp, Kyocera Solar, Solar Frontier, Solarworld, NSP, Trina Solar, Canadian Solar, Jinko Solar, JA Solar, GCL System Integration, Yingli, Shunfeng, ReneSola, Risen, Chint Group, Hareonsolar, Eging PV, CSUN, BYD, HT-SAAE etc. Top 3 companies occupied about 24% market share.

The Global Info Research report includes an overview of the development of the Solar Cell (Photovoltaic) Equipment 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 Solar Cell (Photovoltaic) Equipment.

Regionally, the report analyzes the Solar Cell (Photovoltaic) Equipment 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 Solar Cell (Photovoltaic) Equipment market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Solar Cell (Photovoltaic) Equipment 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 Solar Cell (Photovoltaic) Equipment 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 (K Units), 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 Solar Cell (Photovoltaic) Equipment market.

Regional Analysis: The report involves examining the Solar Cell (Photovoltaic)

Equipment 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 Solar Cell (Photovoltaic) Equipment market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Solar Cell (Photovoltaic) Equipment:

Company Analysis: Report covers individual Solar Cell (Photovoltaic) Equipment 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 Solar Cell (Photovoltaic) Equipment. 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 Solar Cell (Photovoltaic) Equipment. It assesses the current state, advancements, and potential future developments in Solar Cell (Photovoltaic) Equipment areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Solar Cell (Photovoltaic) Equipment 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

Solar Cell (Photovoltaic) Equipment 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 Station

Others

Major players covered

Hanwha

First Solar

SunPower

Elkem Solar

Sharp

Kyocera Solar

Solar Frontier

Solarworld

NSP

Trina Solar

Canadian Solar

Jinko Solar

JA Solar

GCL System Integration

Yingli

Shunfeng

ReneSola

Risen

Chint Group

Hareonsolar

Eging PV

CSUN

BYD

HT-SAAE

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 Solar Cell (Photovoltaic) Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar Cell (Photovoltaic) Equipment, with price, sales, revenue and global market share of Solar Cell (Photovoltaic) Equipment from 2019 to 2024.

Chapter 3, the Solar Cell (Photovoltaic) Equipment competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solar Cell (Photovoltaic) Equipment 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 Solar Cell (Photovoltaic) Equipment 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 Solar Cell (Photovoltaic) Equipment.

Chapter 14 and 15, to describe Solar Cell (Photovoltaic) Equipment sales channel, distributors, customers, research findings and conclusion.

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