

Global Solar Cells and Modules 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 Cells and Modules market size was valued at USD 38150 million in 2023 and is forecast to a readjusted size of USD 68870 million by 2030 with a CAGR of 8.8% during review period.

A solar cell or photovoltaic (PV) cell is a semiconductor device that converts light directly into electricity by the photovoltaic effect. The most common material in solar cell production is purified silicon that can be applied in different ways.

A PV module is an assembly of photo-voltaic cells mounted in a framework for installation. Photo-voltaic cells use sunlight as a source of energy and generate direct current electricity. A collection of PV modules is called a PV Panel, and a system of Panels is an Array. Arrays of a photovoltaic system supply solar electricity to electrical equipment.

JinkoSolar, JA Solar, Canadian Solar, Trina Solar and Hanwha Solutions are the top 5 of Solar Cells and Modules, with about 47% market shares. Asia-Pacific has the largest global export quantity and manufacturers in Solar Cells and Modules market, nearly 62%, while Europe is the second sales volume market for Solar Cells and Modules at around 20% in 2019. Si-wafer based PV technology accounted for about 93% of the total sales in 2019. The share of mono-crystalline technology is now about 64% of total sales. Solar cells and modules can be divided into monocrystalline silicon modules, polycrystalline silicon modules, CdTe modules, CIGS modules, and amorphous silicon modules. It can be applied to photovoltaic power stations, commercial advertisements and residential buildings.

The Global Info Research report includes an overview of the development of the Solar Cells and Modules industry chain, the market status of PV Power Station (Mono-Si Modules, Multi-Si Modules), Commercial (Mono-Si Modules, Multi-Si Modules), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Solar Cells and Modules.

Regionally, the report analyzes the Solar Cells and 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 Solar Cells and Modules market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Solar Cells and 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 Solar Cells and 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., Mono-Si Modules, Multi-Si Modules).

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 Cells and Modules market.

Regional Analysis: The report involves examining the Solar Cells and 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 Solar Cells and 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 Solar Cells and Modules:

Company Analysis: Report covers individual Solar Cells and 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 Solar Cells and Modules. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (PV Power Station, Commercial).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Solar Cells and 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

Solar Cells and 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

Mono-Si Modules

Multi-Si Modules

CdTe Modules

CIGS Modules

A-Si Modules

Others

Market segment by Application

PV Power Station

Commercial

Residential

Others

Major players covered

JinkoSolar

LONGi

JA Solar

First Solar

Canadian Solar

Trina Solar

Hanwha Solutions

Risen Energy

Seraphim

SunPower

Chint Electrics

Solargiga

Shunfeng

LG Business Solutions

Jinergy

GCL System

EGing PV

Jolywood

Talesun 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 Solar Cells and Modules product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Solar Cells and 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 Solar Cells and 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 Solar Cells and Modules.

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

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