

# Global Silicon Thin Film Solar Cell Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G005FB8012BGEN.html>

Date: July 2024

Pages: 110

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

ID: G005FB8012BGEN

## Abstracts

According to our (Global Info Research) latest study, the global Silicon Thin Film Solar Cell 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.

Silicon Thin Film Solar Cell refers to a type of solar cell technology that utilizes a thin film of silicon as the light-absorbing material. Unlike traditional crystalline silicon solar cells, thin film solar cells are made by depositing a thin layer of silicon directly onto a substrate. This thin film can be made using various methods such as chemical vapor deposition or sputtering. Silicon Thin Film Solar Cells offer advantages such as flexibility, lower production costs, and better performance under low-light conditions. They are commonly used in building-integrated photovoltaics and portable solar panels due to their lightweight and versatile nature.

It is expected that global demand for photovoltaic products will remain high in the next few years. According to our PV & Solar Research Center, by the end of 2022, the global cumulative installed photovoltaic power generation capacity is about 1180 GW. According to the data of China Photovoltaic Industry Association, the global newly installed photovoltaic capacity in 2022 is about 230 GW, and this number in 2023 is predicted to be 280-330 GW. According to the data of the Ministry of Industry and Information Technology, the total output value of China's photovoltaic industry exceeded 1.4 trillion yuan in 2022. From the perspective of production value, mainland China is still the global center of the PV industry. According to the International Energy Agency, China market share in all key products of the supply chain have exceeded 80%. Among them, the production capacity of silicon wafers, solar cells, and components accounts for as high as 98%, 85% and 77%, respectively. According to the

data released by the European Photovoltaic Association, 27 EU countries gained a new PV installed capacity of 41.4 GW in 2022. According to the report of the US Solar Energy Industries Association (SEIA), the US held a new PV installed capacity of less than 19 GW in 2022. But it is estimated that from 2023, the average annual growth rate of new photovoltaic installed capacity will exceed 21%. In terms of Japan, based on data from Fitch and the US Energy Information Administration (EIA), in 2022, Japan's newly installed photovoltaic capacity was 3.239 GW.

The Global Info Research report includes an overview of the development of the Silicon Thin Film Solar Cell industry chain, the market status of Industrial (Amorphous Silicon, Microcrystalline Silicon), Commercial (Amorphous Silicon, Microcrystalline Silicon), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Silicon Thin Film Solar Cell.

Regionally, the report analyzes the Silicon Thin Film Solar Cell 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 Silicon Thin Film Solar Cell market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Silicon Thin Film Solar Cell 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 Silicon Thin Film Solar Cell 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 (GWh), revenue generated, and market share of different by Type (e.g., Amorphous Silicon, Microcrystalline 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 Silicon Thin Film Solar Cell market.

**Regional Analysis:** The report involves examining the Silicon Thin Film Solar Cell

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 Silicon Thin Film Solar Cell market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Silicon Thin Film Solar Cell:

**Company Analysis:** Report covers individual Silicon Thin Film Solar Cell 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 Silicon Thin Film Solar Cell. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial, Commercial).

**Technology Analysis:** Report covers specific technologies relevant to Silicon Thin Film Solar Cell. It assesses the current state, advancements, and potential future developments in Silicon Thin Film Solar Cell areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Silicon Thin Film Solar Cell 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

Silicon Thin Film Solar Cell 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

Amorphous Silicon

Microcrystalline Silicon

Others

## Market segment by Application

Industrial

Commercial

Others

## Major players covered

Uni-Solar

Sharp Thin Film

Kaneka Solartech

ENN Solar

Bangkok Solar

Cubico Sustainable

Trony

Solar Frontier

QS Solar

Bosch 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 Silicon Thin Film Solar Cell product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Thin Film Solar Cell, with price, sales, revenue and global market share of Silicon Thin Film Solar Cell from 2019 to 2024.

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

Chapter 4, the Silicon Thin Film Solar Cell 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 Silicon Thin Film Solar Cell 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 Silicon Thin Film Solar Cell.

Chapter 14 and 15, to describe Silicon Thin Film Solar Cell sales channel, distributors, customers, research findings and conclusion.

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