

Global Solar Cells and Modules Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

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Abstracts

Summary

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.

According to APO Research, The global Solar Cells and Modules market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

North American market for Solar Cells and Modules is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Solar Cells and Modules is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Solar Cells and Modules is estimated to increase from \$ million in

2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Solar Cells and Modules is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Solar Cells and Modules include JinkoSolar, LONGi, JA Solar, First Solar, Canadian Solar, Trina Solar, Hanwha Solutions, Risen Energy and Seraphim, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

This report presents an overview of global market for Solar Cells and Modules, sales, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Solar Cells and Modules, also provides the sales of main regions and countries. Of the upcoming market potential for Solar Cells and Modules, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Solar Cells and Modules sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Solar Cells and Modules market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Solar Cells and Modules sales, projected growth trends, production technology, application and end-user industry.

Solar Cells and Modules segment by Company

JinkoSolar

LONGi

JA Solar

First Solar

Canadian Solar

Trina Solar

Hanwha Solutions

Risen Energy

Seraphim

SunPower

Chint Electric

Solargiga

Shunfeng

LG Business Solutions

Jinergy

GCL System

EGing PV

Jolywood

Talesun Solar

Solar Cells and Modules segment by Type

Global Solar Cells and Modules Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

Mono-Si Modules

Multi-Si Modules

CdTe Modules

CIGS Modules

A-Si Modules

Others

Solar Cells and Modules segment by Application

PV Power Station

Commercial

Residential

Others

Solar Cells and Modules segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global Solar Cells and Modules status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, sales, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions Solar Cells and Modules market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Solar Cells and Modules significant trends, drivers, influence factors in global and regions.
6. To analyze Solar Cells and Modules competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Solar Cells and Modules market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Solar Cells and Modules and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape

section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.

5. This report helps stakeholders to gain insights into which regions to target globally.

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Solar Cells and Modules.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Provides an overview of the Solar Cells and Modules market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Solar Cells and Modules industry.

Chapter 3: Detailed analysis of Solar Cells and Modules manufacturers competitive landscape, price, sales and revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Sales and value of Solar Cells and Modules in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of each country in the world.

Chapter 7: Sales and value of Solar Cells and Modules in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Solar Cells and Modules Sales Value (2019-2030)
 - 1.2.2 Global Solar Cells and Modules Sales Volume (2019-2030)
 - 1.2.3 Global Solar Cells and Modules Sales Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

2 SOLAR CELLS AND MODULES MARKET DYNAMICS

- 2.1 Solar Cells and Modules Industry Trends
- 2.2 Solar Cells and Modules Industry Drivers
- 2.3 Solar Cells and Modules Industry Opportunities and Challenges
- 2.4 Solar Cells and Modules Industry Restraints

3 SOLAR CELLS AND MODULES MARKET BY COMPANY

- 3.1 Global Solar Cells and Modules Company Revenue Ranking in 2023
- 3.2 Global Solar Cells and Modules Revenue by Company (2019-2024)
- 3.3 Global Solar Cells and Modules Sales Volume by Company (2019-2024)
- 3.4 Global Solar Cells and Modules Average Price by Company (2019-2024)
- 3.5 Global Solar Cells and Modules Company Ranking, 2022 VS 2023 VS 2024
- 3.6 Global Solar Cells and Modules Company Manufacturing Base & Headquarters
- 3.7 Global Solar Cells and Modules Company, Product Type & Application
- 3.8 Global Solar Cells and Modules Company Commercialization Time
- 3.9 Market Competitive Analysis
 - 3.9.1 Global Solar Cells and Modules Market CR5 and HHI
 - 3.9.2 Global Top 5 and 10 Company Market Share by Revenue in 2023
 - 3.9.3 2023 Solar Cells and Modules Tier 1, Tier 2, and Tier
- 3.10 Mergers & Acquisitions, Expansion

4 SOLAR CELLS AND MODULES MARKET BY TYPE

- 4.1 Solar Cells and Modules Type Introduction
 - 4.1.1 Mono-Si Modules

- 4.1.2 Multi-Si Modules
- 4.1.3 CdTe Modules
- 4.1.4 CIGS Modules
- 4.1.5 A-Si Modules
- 4.1.6 Others
- 4.2 Global Solar Cells and Modules Sales Volume by Type
 - 4.2.1 Global Solar Cells and Modules Sales Volume by Type (2019 VS 2023 VS 2030)
 - 4.2.2 Global Solar Cells and Modules Sales Volume by Type (2019-2030)
 - 4.2.3 Global Solar Cells and Modules Sales Volume Share by Type (2019-2030)
- 4.3 Global Solar Cells and Modules Sales Value by Type
 - 4.3.1 Global Solar Cells and Modules Sales Value by Type (2019 VS 2023 VS 2030)
 - 4.3.2 Global Solar Cells and Modules Sales Value by Type (2019-2030)
 - 4.3.3 Global Solar Cells and Modules Sales Value Share by Type (2019-2030)

5 SOLAR CELLS AND MODULES MARKET BY APPLICATION

- 5.1 Solar Cells and Modules Application Introduction
 - 5.1.1 PV Power Station
 - 5.1.2 Commercial
 - 5.1.3 Residential
 - 5.1.4 Others
- 5.2 Global Solar Cells and Modules Sales Volume by Application
 - 5.2.1 Global Solar Cells and Modules Sales Volume by Application (2019 VS 2023 VS 2030)
 - 5.2.2 Global Solar Cells and Modules Sales Volume by Application (2019-2030)
 - 5.2.3 Global Solar Cells and Modules Sales Volume Share by Application (2019-2030)
- 5.3 Global Solar Cells and Modules Sales Value by Application
 - 5.3.1 Global Solar Cells and Modules Sales Value by Application (2019 VS 2023 VS 2030)
 - 5.3.2 Global Solar Cells and Modules Sales Value by Application (2019-2030)
 - 5.3.3 Global Solar Cells and Modules Sales Value Share by Application (2019-2030)

6 SOLAR CELLS AND MODULES MARKET BY REGION

- 6.1 Global Solar Cells and Modules Sales by Region: 2019 VS 2023 VS 2030
- 6.2 Global Solar Cells and Modules Sales by Region (2019-2030)
 - 6.2.1 Global Solar Cells and Modules Sales by Region: 2019-2024
 - 6.2.2 Global Solar Cells and Modules Sales by Region (2025-2030)
- 6.3 Global Solar Cells and Modules Sales Value by Region: 2019 VS 2023 VS 2030

- 6.4 Global Solar Cells and Modules Sales Value by Region (2019-2030)
 - 6.4.1 Global Solar Cells and Modules Sales Value by Region: 2019-2024
 - 6.4.2 Global Solar Cells and Modules Sales Value by Region (2025-2030)
- 6.5 Global Solar Cells and Modules Market Price Analysis by Region (2019-2024)
- 6.6 North America
 - 6.6.1 North America Solar Cells and Modules Sales Value (2019-2030)
 - 6.6.2 North America Solar Cells and Modules Sales Value Share by Country, 2023 VS 2030
- 6.7 Europe
 - 6.7.1 Europe Solar Cells and Modules Sales Value (2019-2030)
 - 6.7.2 Europe Solar Cells and Modules Sales Value Share by Country, 2023 VS 2030
- 6.8 Asia-Pacific
 - 6.8.1 Asia-Pacific Solar Cells and Modules Sales Value (2019-2030)
 - 6.8.2 Asia-Pacific Solar Cells and Modules Sales Value Share by Country, 2023 VS 2030
- 6.9 Latin America
 - 6.9.1 Latin America Solar Cells and Modules Sales Value (2019-2030)
 - 6.9.2 Latin America Solar Cells and Modules Sales Value Share by Country, 2023 VS 2030
- 6.10 Middle East & Africa
 - 6.10.1 Middle East & Africa Solar Cells and Modules Sales Value (2019-2030)
 - 6.10.2 Middle East & Africa Solar Cells and Modules Sales Value Share by Country, 2023 VS 2030

7 SOLAR CELLS AND MODULES MARKET BY COUNTRY

- 7.1 Global Solar Cells and Modules Sales by Country: 2019 VS 2023 VS 2030
- 7.2 Global Solar Cells and Modules Sales Value by Country: 2019 VS 2023 VS 2030
- 7.3 Global Solar Cells and Modules Sales by Country (2019-2030)
 - 7.3.1 Global Solar Cells and Modules Sales by Country (2019-2024)
 - 7.3.2 Global Solar Cells and Modules Sales by Country (2025-2030)
- 7.4 Global Solar Cells and Modules Sales Value by Country (2019-2030)
 - 7.4.1 Global Solar Cells and Modules Sales Value by Country (2019-2024)
 - 7.4.2 Global Solar Cells and Modules Sales Value by Country (2025-2030)
- 7.5 USA
 - 7.5.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)
 - 7.5.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030
 - 7.5.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.6 Canada

7.6.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.6.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.6.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.7 Germany

7.7.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.7.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.7.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.8 France

7.8.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.8.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.8.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.9 U.K.

7.9.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.9.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.9.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.10 Italy

7.10.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.10.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.10.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.11 Netherlands

7.11.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.11.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.11.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.12 Nordic Countries

7.12.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.12.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.12.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.13 China

7.13.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.13.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.13.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

2030

7.14 Japan

7.14.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.14.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.14.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.15 South Korea

7.15.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.15.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.15.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.16 Southeast Asia

7.16.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.16.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.16.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.17 India

7.17.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.17.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.17.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.18 Australia

7.18.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.18.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.18.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.19 Mexico

7.19.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.19.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.19.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.20 Brazil

7.20.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.20.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.20.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.21 Turkey

7.21.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.21.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.21.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.22 Saudi Arabia

7.22.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.22.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.22.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

7.23 UAE

7.23.1 Global Solar Cells and Modules Sales Value Growth Rate (2019-2030)

7.23.2 Global Solar Cells and Modules Sales Value Share by Type, 2023 VS 2030

7.23.3 Global Solar Cells and Modules Sales Value Share by Application, 2023 VS 2030

8 COMPANY PROFILES

8.1 JinkoSolar

8.1.1 JinkoSolar Company Information

8.1.2 JinkoSolar Business Overview

8.1.3 JinkoSolar Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)

8.1.4 JinkoSolar Solar Cells and Modules Product Portfolio

8.1.5 JinkoSolar Recent Developments

8.2 LONGi

8.2.1 LONGi Company Information

8.2.2 LONGi Business Overview

8.2.3 LONGi Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)

8.2.4 LONGi Solar Cells and Modules Product Portfolio

8.2.5 LONGi Recent Developments

8.3 JA Solar

8.3.1 JA Solar Company Information

8.3.2 JA Solar Business Overview

8.3.3 JA Solar Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)

8.3.4 JA Solar Solar Cells and Modules Product Portfolio

8.3.5 JA Solar Recent Developments

8.4 First Solar

8.4.1 First Solar Company Information

8.4.2 First Solar Business Overview

8.4.3 First Solar Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)

8.4.4 First Solar Solar Cells and Modules Product Portfolio

8.4.5 First Solar Recent Developments

8.5 Canadian Solar

8.5.1 Canadian Solar Company Information

8.5.2 Canadian Solar Business Overview

8.5.3 Canadian Solar Solar Cells and Modules Sales, Value and Gross Margin
(2019-2024)

8.5.4 Canadian Solar Solar Cells and Modules Product Portfolio

8.5.5 Canadian Solar Recent Developments

8.6 Trina Solar

8.6.1 Trina Solar Company Information

8.6.2 Trina Solar Business Overview

8.6.3 Trina Solar Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)

8.6.4 Trina Solar Solar Cells and Modules Product Portfolio

8.6.5 Trina Solar Recent Developments

8.7 Hanwha Solutions

8.7.1 Hanwha Solutions Company Information

8.7.2 Hanwha Solutions Business Overview

8.7.3 Hanwha Solutions Solar Cells and Modules Sales, Value and Gross Margin
(2019-2024)

8.7.4 Hanwha Solutions Solar Cells and Modules Product Portfolio

8.7.5 Hanwha Solutions Recent Developments

8.8 Risen Energy

8.8.1 Risen Energy Company Information

8.8.2 Risen Energy Business Overview

8.8.3 Risen Energy Solar Cells and Modules Sales, Value and Gross Margin
(2019-2024)

8.8.4 Risen Energy Solar Cells and Modules Product Portfolio

8.8.5 Risen Energy Recent Developments

8.9 Seraphim

8.9.1 Seraphim Company Information

8.9.2 Seraphim Business Overview

8.9.3 Seraphim Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)

8.9.4 Seraphim Solar Cells and Modules Product Portfolio

8.9.5 Seraphim Recent Developments

8.10 SunPower

8.10.1 SunPower Company Information

8.10.2 SunPower Business Overview

8.10.3 SunPower Solar Cells and Modules Sales, Value and Gross Margin
(2019-2024)

8.10.4 SunPower Solar Cells and Modules Product Portfolio

- 8.10.5 SunPower Recent Developments
- 8.11 Chint Electrics
 - 8.11.1 Chint Electrics Company Information
 - 8.11.2 Chint Electrics Business Overview
 - 8.11.3 Chint Electrics Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)
 - 8.11.4 Chint Electrics Solar Cells and Modules Product Portfolio
 - 8.11.5 Chint Electrics Recent Developments
- 8.12 Solargiga
 - 8.12.1 Solargiga Company Information
 - 8.12.2 Solargiga Business Overview
 - 8.12.3 Solargiga Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)
 - 8.12.4 Solargiga Solar Cells and Modules Product Portfolio
 - 8.12.5 Solargiga Recent Developments
- 8.13 Shunfeng
 - 8.13.1 Shunfeng Company Information
 - 8.13.2 Shunfeng Business Overview
 - 8.13.3 Shunfeng Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)
 - 8.13.4 Shunfeng Solar Cells and Modules Product Portfolio
 - 8.13.5 Shunfeng Recent Developments
- 8.14 LG Business Solutions
 - 8.14.1 LG Business Solutions Company Information
 - 8.14.2 LG Business Solutions Business Overview
 - 8.14.3 LG Business Solutions Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)
 - 8.14.4 LG Business Solutions Solar Cells and Modules Product Portfolio
 - 8.14.5 LG Business Solutions Recent Developments
- 8.15 Jineryg
 - 8.15.1 Jineryg Company Information
 - 8.15.2 Jineryg Business Overview
 - 8.15.3 Jineryg Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)
 - 8.15.4 Jineryg Solar Cells and Modules Product Portfolio
 - 8.15.5 Jineryg Recent Developments
- 8.16 GCL System
 - 8.16.1 GCL System Company Information
 - 8.16.2 GCL System Business Overview
 - 8.16.3 GCL System Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)
 - 8.16.4 GCL System Solar Cells and Modules Product Portfolio

8.16.5 GCL System Recent Developments

8.17 EGing PV

8.17.1 EGing PV Comapny Information

8.17.2 EGing PV Business Overview

8.17.3 EGing PV Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)

8.17.4 EGing PV Solar Cells and Modules Product Portfolio

8.17.5 EGing PV Recent Developments

8.18 Jolywood

8.18.1 Jolywood Comapny Information

8.18.2 Jolywood Business Overview

8.18.3 Jolywood Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)

8.18.4 Jolywood Solar Cells and Modules Product Portfolio

8.18.5 Jolywood Recent Developments

8.19 Talesun Solar

8.19.1 Talesun Solar Comapny Information

8.19.2 Talesun Solar Business Overview

8.19.3 Talesun Solar Solar Cells and Modules Sales, Value and Gross Margin (2019-2024)

8.19.4 Talesun Solar Solar Cells and Modules Product Portfolio

8.19.5 Talesun Solar Recent Developments

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS

9.1 Solar Cells and Modules Value Chain Analysis

9.1.1 Solar Cells and Modules Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Manufacturing Cost Structure

9.1.4 Solar Cells and Modules Sales Mode & Process

9.2 Solar Cells and Modules Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Solar Cells and Modules Distributors

9.2.3 Solar Cells and Modules Customers

10 CONCLUDING INSIGHTS

11 APPENDIX

11.1 Reasons for Doing This Study

11.2 Research Methodology

11.3 Research Process

11.4 Authors List of This Report

11.5 Data Source

11.5.1 Secondary Sources

11.5.2 Primary Sources

List Of Tables

LIST OF TABLES

- Table 1. Solar Cells and Modules Industry Trends
- Table 2. Solar Cells and Modules Industry Drivers
- Table 3. Solar Cells and Modules Industry Opportunities and Challenges
- Table 4. Solar Cells and Modules Industry Restraints
- Table 5. Global Solar Cells and Modules Revenue by Company (US\$ Million) & (2019-2024)
- Table 6. Global Solar Cells and Modules Revenue Share by Company (2019-2024)
- Table 7. Global Solar Cells and Modules Sales Volume by Company (MW) & (2019-2024)
- Table 8. Global Solar Cells and Modules Sales Volume Share by Company (2019-2024)
- Table 9. Global Solar Cells and Modules Average Price (US\$/W) of Company (2019-2024)
- Table 10. Global Solar Cells and Modules Company Ranking, 2022 VS 2023 VS 2024 & (US\$ Million)
- Table 11. Global Solar Cells and Modules Key Company Manufacturing Base & Headquarters
- Table 12. Global Solar Cells and Modules Company, Product Type & Application
- Table 13. Global Solar Cells and Modules Company Commercialization Time
- Table 14. Global Company Market Concentration Ratio (CR5 and HHI)
- Table 15. Global Solar Cells and Modules by Company Type (Tier 1, Tier 2, and Tier 3) & (Based on Revenue of 2023)
- Table 16. Mergers & Acquisitions, Expansion
- Table 17. Major Companies of Mono-Si Modules
- Table 18. Major Companies of Multi-Si Modules
- Table 19. Major Companies of CdTe Modules
- Table 20. Major Companies of CIGS Modules
- Table 21. Major Companies of A-Si Modules
- Table 22. Major Companies of Others
- Table 23. Global Solar Cells and Modules Sales Volume by Type 2019 VS 2023 VS 2030 (MW)
- Table 24. Global Solar Cells and Modules Sales Volume by Type (2019-2024) & (MW)
- Table 25. Global Solar Cells and Modules Sales Volume by Type (2025-2030) & (MW)
- Table 26. Global Solar Cells and Modules Sales Volume Share by Type (2019-2024)
- Table 27. Global Solar Cells and Modules Sales Volume Share by Type (2025-2030)
- Table 28. Global Solar Cells and Modules Sales Value by Type 2019 VS 2023 VS 2030

(US\$ Million)

Table 29. Global Solar Cells and Modules Sales Value by Type (2019-2024) & (US\$ Million)

Table 30. Global Solar Cells and Modules Sales Value by Type (2025-2030) & (US\$ Million)

Table 31. Global Solar Cells and Modules Sales Value Share by Type (2019-2024)

Table 32. Global Solar Cells and Modules Sales Value Share by Type (2025-2030)

Table 33. Major Companies of PV Power Station

Table 34. Major Companies of Commercial

Table 35. Major Companies of Residential

Table 36. Major Companies of Others

Table 37. Global Solar Cells and Modules Sales Volume by Application 2019 VS 2023 VS 2030 (MW)

Table 38. Global Solar Cells and Modules Sales Volume by Application (2019-2024) & (MW)

Table 39. Global Solar Cells and Modules Sales Volume by Application (2025-2030) & (MW)

Table 40. Global Solar Cells and Modules Sales Volume Share by Application (2019-2024)

Table 41. Global Solar Cells and Modules Sales Volume Share by Application (2025-2030)

Table 42. Global Solar Cells and Modules Sales Value by Application 2019 VS 2023 VS 2030 (US\$ Million)

Table 43. Global Solar Cells and Modules Sales Value by Application (2019-2024) & (US\$ Million)

Table 44. Global Solar Cells and Modules Sales Value by Application (2025-2030) & (US\$ Million)

Table 45. Global Solar Cells and Modules Sales Value Share by Application (2019-2024)

Table 46. Global Solar Cells and Modules Sales Value Share by Application (2025-2030)

Table 47. Global Solar Cells and Modules Sales by Region: 2019 VS 2023 VS 2030 (MW)

Table 48. Global Solar Cells and Modules Sales by Region (2019-2024) & (MW)

Table 49. Global Solar Cells and Modules Sales Market Share by Region (2019-2024)

Table 50. Global Solar Cells and Modules Sales by Region (2025-2030) & (MW)

Table 51. Global Solar Cells and Modules Sales Market Share by Region (2025-2030)

Table 52. Global Solar Cells and Modules Sales Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Table 53. Global Solar Cells and Modules Sales Value by Region (2019-2024) & (US\$ Million)

Table 54. Global Solar Cells and Modules Sales Value Share by Region (2019-2024)

Table 55. Global Solar Cells and Modules Sales Value by Region (2025-2030) & (US\$ Million)

Table 56. Global Solar Cells and Modules Sales Value Share by Region (2025-2030)

Table 57. Global Solar Cells and Modules Market Average Price (US\$/W) by Region (2019-2024)

Table 58. Global Solar Cells and Modules Market Average Price (US\$/W) by Region (2025-2030)

Table 59. Global Solar Cells and Modules Sales by Country: 2019 VS 2023 VS 2030 (MW)

Table 60. Global Solar Cells and Modules Sales Value by Country: 2019 VS 2023 VS 2030 (US\$ Million)

Table 61. Global Solar Cells and Modules Sales by Country (2019-2024) & (MW)

Table 62. Global Solar Cells and Modules Sales Market Share by Country (2019-2024)

Table 63. Global Solar Cells and Modules Sales by Country (2025-2030) & (MW)

Table 64. Global Solar Cells and Modules Sales Market Share by Country (2025-2030)

Table 65. Global Solar Cells and Modules Sales Value by Country (2019-2024) & (US\$ Million)

Table 66. Global Solar Cells and Modules Sales Value Market Share by Country (2019-2024)

Table 67. Global Solar Cells and Modules Sales Value by Country (2025-2030) & (US\$ Million)

Table 68. Global Solar Cells and Modules Sales Value Market Share by Country (2025-2030)

Table 69. JinkoSolar Company Information

Table 70. JinkoSolar Business Overview

Table 71. JinkoSolar Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 72. JinkoSolar Solar Cells and Modules Product Portfolio

Table 73. JinkoSolar Recent Development

Table 74. LONGi Company Information

Table 75. LONGi Business Overview

Table 76. LONGi Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 77. LONGi Solar Cells and Modules Product Portfolio

Table 78. LONGi Recent Development

Table 79. JA Solar Company Information

Table 80. JA Solar Business Overview

Table 81. JA Solar Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 82. JA Solar Solar Cells and Modules Product Portfolio

Table 83. JA Solar Recent Development

Table 84. First Solar Company Information

Table 85. First Solar Business Overview

Table 86. First Solar Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 87. First Solar Solar Cells and Modules Product Portfolio

Table 88. First Solar Recent Development

Table 89. Canadian Solar Company Information

Table 90. Canadian Solar Business Overview

Table 91. Canadian Solar Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 92. Canadian Solar Solar Cells and Modules Product Portfolio

Table 93. Canadian Solar Recent Development

Table 94. Trina Solar Company Information

Table 95. Trina Solar Business Overview

Table 96. Trina Solar Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 97. Trina Solar Solar Cells and Modules Product Portfolio

Table 98. Trina Solar Recent Development

Table 99. Hanwha Solutions Company Information

Table 100. Hanwha Solutions Business Overview

Table 101. Hanwha Solutions Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 102. Hanwha Solutions Solar Cells and Modules Product Portfolio

Table 103. Hanwha Solutions Recent Development

Table 104. Risen Energy Company Information

Table 105. Risen Energy Business Overview

Table 106. Risen Energy Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 107. Risen Energy Solar Cells and Modules Product Portfolio

Table 108. Risen Energy Recent Development

Table 109. Seraphim Company Information

Table 110. Seraphim Business Overview

Table 111. Seraphim Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

- Table 112. Seraphim Solar Cells and Modules Product Portfolio
- Table 113. Seraphim Recent Development
- Table 114. SunPower Company Information
- Table 115. SunPower Business Overview
- Table 116. SunPower Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 117. SunPower Solar Cells and Modules Product Portfolio
- Table 118. SunPower Recent Development
- Table 119. Chint Electrics Company Information
- Table 120. Chint Electrics Business Overview
- Table 121. Chint Electrics Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 122. Chint Electrics Solar Cells and Modules Product Portfolio
- Table 123. Chint Electrics Recent Development
- Table 124. Solargiga Company Information
- Table 125. Solargiga Business Overview
- Table 126. Solargiga Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 127. Solargiga Solar Cells and Modules Product Portfolio
- Table 128. Solargiga Recent Development
- Table 129. Shunfeng Company Information
- Table 130. Shunfeng Business Overview
- Table 131. Shunfeng Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 132. Shunfeng Solar Cells and Modules Product Portfolio
- Table 133. Shunfeng Recent Development
- Table 134. LG Business Solutions Company Information
- Table 135. LG Business Solutions Business Overview
- Table 136. LG Business Solutions Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 137. LG Business Solutions Solar Cells and Modules Product Portfolio
- Table 138. LG Business Solutions Recent Development
- Table 139. Jinery Company Information
- Table 140. Jinery Business Overview
- Table 141. Jinery Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 142. Jinery Solar Cells and Modules Product Portfolio
- Table 143. Jinery Recent Development
- Table 144. GCL System Company Information

Table 145. GCL System Business Overview

Table 146. GCL System Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 147. GCL System Solar Cells and Modules Product Portfolio

Table 148. GCL System Recent Development

Table 149. EGing PV Company Information

Table 150. EGing PV Business Overview

Table 151. EGing PV Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 152. EGing PV Solar Cells and Modules Product Portfolio

Table 153. EGing PV Recent Development

Table 154. Jolywood Company Information

Table 155. Jolywood Business Overview

Table 156. Jolywood Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 157. Jolywood Solar Cells and Modules Product Portfolio

Table 158. Jolywood Recent Development

Table 159. Talesun Solar Company Information

Table 160. Talesun Solar Business Overview

Table 161. Talesun Solar Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 162. Talesun Solar Solar Cells and Modules Product Portfolio

Table 163. Talesun Solar Recent Development

Table 164. Key Raw Materials

Table 165. Raw Materials Key Suppliers

Table 166. Solar Cells and Modules Distributors List

Table 167. Solar Cells and Modules Customers List

Table 168. Research Programs/Design for This Report

Table 169. Authors List of This Report

Table 170. Secondary Sources

Table 171. Primary Sources

List Of Figures

LIST OF FIGURES

- Figure 1. Solar Cells and Modules Product Picture
- Figure 2. Global Solar Cells and Modules Sales Value (US\$ Million), 2019 VS 2023 VS 2030
- Figure 3. Global Solar Cells and Modules Sales Value (2019-2030) & (US\$ Million)
- Figure 4. Global Solar Cells and Modules Sales (2019-2030) & (MW)
- Figure 5. Global Solar Cells and Modules Sales Average Price (US\$/W) & (2019-2030)
- Figure 6. Global Solar Cells and Modules Company Revenue Ranking in 2023 (US\$ Million)
- Figure 7. Global Top 5 and 10 Company Market Share by Revenue in 2023 (US\$ Million)
- Figure 8. Company Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023
- Figure 9. Mono-Si Modules Picture
- Figure 10. Multi-Si Modules Picture
- Figure 11. CdTe Modules Picture
- Figure 12. CIGS Modules Picture
- Figure 13. A-Si Modules Picture
- Figure 14. Others Picture
- Figure 15. Global Solar Cells and Modules Sales Volume by Type (2019 VS 2023 VS 2030) & (MW)
- Figure 16. Global Solar Cells and Modules Sales Volume Share 2019 VS 2023 VS 2030
- Figure 17. Global Solar Cells and Modules Sales Volume Share by Type (2019-2030)
- Figure 18. Global Solar Cells and Modules Sales Value by Type (2019 VS 2023 VS 2030) & (US\$ Million)
- Figure 19. Global Solar Cells and Modules Sales Value Share 2019 VS 2023 VS 2030
- Figure 20. Global Solar Cells and Modules Sales Value Share by Type (2019-2030)
- Figure 21. PV Power Station Picture
- Figure 22. Commercial Picture
- Figure 23. Residential Picture
- Figure 24. Others Picture
- Figure 25. Global Solar Cells and Modules Sales Volume by Application (2019 VS 2023 VS 2030) & (MW)
- Figure 26. Global Solar Cells and Modules Sales Volume Share 2019 VS 2023 VS 2030
- Figure 27. Global Solar Cells and Modules Sales Volume Share by Application (2019-2030)
- Figure 28. Global Solar Cells and Modules Sales Value by Application (2019 VS 2023

VS 2030) & (US\$ Million)

Figure 29. Global Solar Cells and Modules Sales Value Share 2019 VS 2023 VS 2030

Figure 30. Global Solar Cells and Modules Sales Value Share by Application
(2019-2030)

Figure 31. Global Solar Cells and Modules Sales by Region: 2019 VS 2023 VS 2030
(MW)

Figure 32. Global Solar Cells and Modules Sales Market Share by Region: 2019 VS
2023 VS 2030

Figure 33. Global Solar Cells and Modul

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