

Global Solar Cells and Modules Market Size, Manufacturers, Opportunities and 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 was estimated at US\$ million in 2023 and is projected to reach a revised size of US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

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.

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.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Solar Cells and Modules, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Solar Cells and Modules.

The Solar Cells and Modules market size, estimations, and forecasts are provided in terms of sales volume (MW) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Solar Cells and Modules market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

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

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

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

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 volume 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: Introduces the study scope of this report, executive summary of market segments by type, market size segments for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

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

Chapter 4: Sales, revenue 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 future development prospects, and market space in the world.

Chapter 5: Introduces market segments by application, market size segment for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 6: 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 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, Latin America, Middle East & Africa, sales and revenue by country.

Chapter 12: Analysis of industrial chain, key raw materials, manufacturing cost, and market dynamics.

Chapter 13: Concluding Insights of the report.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Solar Cells and Modules Market Size Estimates and Forecasts (2019-2030)
 - 1.2.2 Global Solar Cells and Modules Sales Estimates and Forecasts (2019-2030)
- 1.3 Solar Cells and Modules Market by Type
 - 1.3.1 Mono-Si Modules
 - 1.3.2 Multi-Si Modules
 - 1.3.3 CdTe Modules
 - 1.3.4 CIGS Modules
 - 1.3.5 A-Si Modules
 - 1.3.6 Others
- 1.4 Global Solar Cells and Modules Market Size by Type
 - 1.4.1 Global Solar Cells and Modules Market Size Overview by Type (2019-2030)
 - 1.4.2 Global Solar Cells and Modules Historic Market Size Review by Type (2019-2024)
 - 1.4.3 Global Solar Cells and Modules Forecasted Market Size by Type (2025-2030)
- 1.5 Key Regions Market Size by Type
 - 1.5.1 North America Solar Cells and Modules Sales Breakdown by Type (2019-2024)
 - 1.5.2 Europe Solar Cells and Modules Sales Breakdown by Type (2019-2024)
 - 1.5.3 Asia-Pacific Solar Cells and Modules Sales Breakdown by Type (2019-2024)
 - 1.5.4 Latin America Solar Cells and Modules Sales Breakdown by Type (2019-2024)
 - 1.5.5 Middle East and Africa Solar Cells and Modules Sales Breakdown by Type (2019-2024)

2 GLOBAL 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 MARKET COMPETITIVE LANDSCAPE BY COMPANY

- 3.1 Global Top Players by Solar Cells and Modules Revenue (2019-2024)

- 3.2 Global Top Players by Solar Cells and Modules Sales (2019-2024)
- 3.3 Global Top Players by Solar Cells and Modules Price (2019-2024)
- 3.4 Global Solar Cells and Modules Industry Company Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Solar Cells and Modules Key Company Manufacturing Sites & Headquarters
- 3.6 Global Solar Cells and Modules Company, Product Type & Application
- 3.7 Global Solar Cells and Modules Company Commercialization Time
- 3.8 Market Competitive Analysis
 - 3.8.1 Global Solar Cells and Modules Market CR5 and HHI
 - 3.8.2 Global Top 5 and 10 Solar Cells and Modules Players Market Share by Revenue in 2023
 - 3.8.3 2023 Solar Cells and Modules Tier 1, Tier 2, and Tier

4 SOLAR CELLS AND MODULES REGIONAL STATUS AND OUTLOOK

- 4.1 Global Solar Cells and Modules Market Size and CAGR by Region: 2019 VS 2023 VS 2030
- 4.2 Global Solar Cells and Modules Historic Market Size by Region
 - 4.2.1 Global Solar Cells and Modules Sales in Volume by Region (2019-2024)
 - 4.2.2 Global Solar Cells and Modules Sales in Value by Region (2019-2024)
 - 4.2.3 Global Solar Cells and Modules Sales (Volume & Value), Price and Gross Margin (2019-2024)
- 4.3 Global Solar Cells and Modules Forecasted Market Size by Region
 - 4.3.1 Global Solar Cells and Modules Sales in Volume by Region (2025-2030)
 - 4.3.2 Global Solar Cells and Modules Sales in Value by Region (2025-2030)
 - 4.3.3 Global Solar Cells and Modules Sales (Volume & Value), Price and Gross Margin (2025-2030)

5 SOLAR CELLS AND MODULES BY APPLICATION

- 5.1 Solar Cells and Modules Market by Application
 - 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 Market Size by Application
 - 5.2.1 Global Solar Cells and Modules Market Size Overview by Application (2019-2030)
 - 5.2.2 Global Solar Cells and Modules Historic Market Size Review by Application

(2019-2024)

5.2.3 Global Solar Cells and Modules Forecasted Market Size by Application

(2025-2030)

5.3 Key Regions Market Size by Application

5.3.1 North America Solar Cells and Modules Sales Breakdown by Application

(2019-2024)

5.3.2 Europe Solar Cells and Modules Sales Breakdown by Application (2019-2024)

5.3.3 Asia-Pacific Solar Cells and Modules Sales Breakdown by Application

(2019-2024)

5.3.4 Latin America Solar Cells and Modules Sales Breakdown by Application

(2019-2024)

5.3.5 Middle East and Africa Solar Cells and Modules Sales Breakdown by Application

(2019-2024)

6 COMPANY PROFILES

6.1 JinkoSolar

6.1.1 JinkoSolar Company Information

6.1.2 JinkoSolar Business Overview

6.1.3 JinkoSolar Solar Cells and Modules Sales, Revenue and Gross Margin

(2019-2024)

6.1.4 JinkoSolar Solar Cells and Modules Product Portfolio

6.1.5 JinkoSolar Recent Developments

6.2 LONGi

6.2.1 LONGi Company Information

6.2.2 LONGi Business Overview

6.2.3 LONGi Solar Cells and Modules Sales, Revenue and Gross Margin (2019-2024)

6.2.4 LONGi Solar Cells and Modules Product Portfolio

6.2.5 LONGi Recent Developments

6.3 JA Solar

6.3.1 JA Solar Company Information

6.3.2 JA Solar Business Overview

6.3.3 JA Solar Solar Cells and Modules Sales, Revenue and Gross Margin

(2019-2024)

6.3.4 JA Solar Solar Cells and Modules Product Portfolio

6.3.5 JA Solar Recent Developments

6.4 First Solar

6.4.1 First Solar Company Information

6.4.2 First Solar Business Overview

- 6.4.3 First Solar Solar Cells and Modules Sales, Revenue and Gross Margin (2019-2024)
- 6.4.4 First Solar Solar Cells and Modules Product Portfolio
- 6.4.5 First Solar Recent Developments
- 6.5 Canadian Solar
 - 6.5.1 Canadian Solar Company Information
 - 6.5.2 Canadian Solar Business Overview
 - 6.5.3 Canadian Solar Solar Cells and Modules Sales, Revenue and Gross Margin (2019-2024)
 - 6.5.4 Canadian Solar Solar Cells and Modules Product Portfolio
 - 6.5.5 Canadian Solar Recent Developments
- 6.6 Trina Solar
 - 6.6.1 Trina Solar Company Information
 - 6.6.2 Trina Solar Business Overview
 - 6.6.3 Trina Solar Solar Cells and Modules Sales, Revenue and Gross Margin (2019-2024)
 - 6.6.4 Trina Solar Solar Cells and Modules Product Portfolio
 - 6.6.5 Trina Solar Recent Developments
- 6.7 Hanwha Solutions
 - 6.7.1 Hanwha Solutions Company Information
 - 6.7.2 Hanwha Solutions Business Overview
 - 6.7.3 Hanwha Solutions Solar Cells and Modules Sales, Revenue and Gross Margin (2019-2024)
 - 6.7.4 Hanwha Solutions Solar Cells and Modules Product Portfolio
 - 6.7.5 Hanwha Solutions Recent Developments
- 6.8 Risen Energy
 - 6.8.1 Risen Energy Company Information
 - 6.8.2 Risen Energy Business Overview
 - 6.8.3 Risen Energy Solar Cells and Modules Sales, Revenue and Gross Margin (2019-2024)
 - 6.8.4 Risen Energy Solar Cells and Modules Product Portfolio
 - 6.8.5 Risen Energy Recent Developments
- 6.9 Seraphim
 - 6.9.1 Seraphim Company Information
 - 6.9.2 Seraphim Business Overview
 - 6.9.3 Seraphim Solar Cells and Modules Sales, Revenue and Gross Margin (2019-2024)
 - 6.9.4 Seraphim Solar Cells and Modules Product Portfolio
 - 6.9.5 Seraphim Recent Developments

6.10 SunPower

6.10.1 SunPower Company Information

6.10.2 SunPower Business Overview

6.10.3 SunPower Solar Cells and Modules Sales, Revenue and Gross Margin
(2019-2024)

6.10.4 SunPower Solar Cells and Modules Product Portfolio

6.10.5 SunPower Recent Developments

6.11 Chint Electrics

6.11.1 Chint Electrics Company Information

6.11.2 Chint Electrics Business Overview

6.11.3 Chint Electrics Solar Cells and Modules Sales, Revenue and Gross Margin
(2019-2024)

6.11.4 Chint Electrics Solar Cells and Modules Product Portfolio

6.11.5 Chint Electrics Recent Developments

6.12 Solargiga

6.12.1 Solargiga Company Information

6.12.2 Solargiga Business Overview

6.12.3 Solargiga Solar Cells and Modules Sales, Revenue and Gross Margin
(2019-2024)

6.12.4 Solargiga Solar Cells and Modules Product Portfolio

6.12.5 Solargiga Recent Developments

6.13 Shunfeng

6.13.1 Shunfeng Company Information

6.13.2 Shunfeng Business Overview

6.13.3 Shunfeng Solar Cells and Modules Sales, Revenue and Gross Margin
(2019-2024)

6.13.4 Shunfeng Solar Cells and Modules Product Portfolio

6.13.5 Shunfeng Recent Developments

6.14 LG Business Solutions

6.14.1 LG Business Solutions Company Information

6.14.2 LG Business Solutions Business Overview

6.14.3 LG Business Solutions Solar Cells and Modules Sales, Revenue and Gross
Margin (2019-2024)

6.14.4 LG Business Solutions Solar Cells and Modules Product Portfolio

6.14.5 LG Business Solutions Recent Developments

6.15 Jineryg

6.15.1 Jineryg Company Information

6.15.2 Jineryg Business Overview

6.15.3 Jineryg Solar Cells and Modules Sales, Revenue and Gross Margin

(2019-2024)

6.15.4 Jineryg Solar Cells and Modules Product Portfolio

6.15.5 Jineryg Recent Developments

6.16 GCL System

6.16.1 GCL System Comapny Information

6.16.2 GCL System Business Overview

6.16.3 GCL System Solar Cells and Modules Sales, Revenue and Gross Margin

(2019-2024)

6.16.4 GCL System Solar Cells and Modules Product Portfolio

6.16.5 GCL System Recent Developments

6.17 EGing PV

6.17.1 EGing PV Comapny Information

6.17.2 EGing PV Business Overview

6.17.3 EGing PV Solar Cells and Modules Sales, Revenue and Gross Margin

(2019-2024)

6.17.4 EGing PV Solar Cells and Modules Product Portfolio

6.17.5 EGing PV Recent Developments

6.18 Jolywood

6.18.1 Jolywood Comapny Information

6.18.2 Jolywood Business Overview

6.18.3 Jolywood Solar Cells and Modules Sales, Revenue and Gross Margin

(2019-2024)

6.18.4 Jolywood Solar Cells and Modules Product Portfolio

6.18.5 Jolywood Recent Developments

6.19 Talesun Solar

6.19.1 Talesun Solar Comapny Information

6.19.2 Talesun Solar Business Overview

6.19.3 Talesun Solar Solar Cells and Modules Sales, Revenue and Gross Margin

(2019-2024)

6.19.4 Talesun Solar Solar Cells and Modules Product Portfolio

6.19.5 Talesun Solar Recent Developments

7 NORTH AMERICA BY COUNTRY

7.1 North America Solar Cells and Modules Sales by Country

7.1.1 North America Solar Cells and Modules Sales Growth Rate (CAGR) by Country:
2019 VS 2023 VS 2030

7.1.2 North America Solar Cells and Modules Sales by Country (2019-2024)

7.1.3 North America Solar Cells and Modules Sales Forecast by Country (2025-2030)

7.2 North America Solar Cells and Modules Market Size by Country

7.2.1 North America Solar Cells and Modules Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.2.2 North America Solar Cells and Modules Market Size by Country (2019-2024)

7.2.3 North America Solar Cells and Modules Market Size Forecast by Country (2025-2030)

8 EUROPE BY COUNTRY

8.1 Europe Solar Cells and Modules Sales by Country

8.1.1 Europe Solar Cells and Modules Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.1.2 Europe Solar Cells and Modules Sales by Country (2019-2024)

8.1.3 Europe Solar Cells and Modules Sales Forecast by Country (2025-2030)

8.2 Europe Solar Cells and Modules Market Size by Country

8.2.1 Europe Solar Cells and Modules Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.2.2 Europe Solar Cells and Modules Market Size by Country (2019-2024)

8.2.3 Europe Solar Cells and Modules Market Size Forecast by Country (2025-2030)

9 ASIA-PACIFIC BY COUNTRY

9.1 Asia-Pacific Solar Cells and Modules Sales by Country

9.1.1 Asia-Pacific Solar Cells and Modules Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.1.2 Asia-Pacific Solar Cells and Modules Sales by Country (2019-2024)

9.1.3 Asia-Pacific Solar Cells and Modules Sales Forecast by Country (2025-2030)

9.2 Asia-Pacific Solar Cells and Modules Market Size by Country

9.2.1 Asia-Pacific Solar Cells and Modules Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.2.2 Asia-Pacific Solar Cells and Modules Market Size by Country (2019-2024)

9.2.3 Asia-Pacific Solar Cells and Modules Market Size Forecast by Country (2025-2030)

10 LATIN AMERICA BY COUNTRY

10.1 Latin America Solar Cells and Modules Sales by Country

10.1.1 Latin America Solar Cells and Modules Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

- 10.1.2 Latin America Solar Cells and Modules Sales by Country (2019-2024)
- 10.1.3 Latin America Solar Cells and Modules Sales Forecast by Country (2025-2030)
- 10.2 Latin America Solar Cells and Modules Market Size by Country
 - 10.2.1 Latin America Solar Cells and Modules Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030
 - 10.2.2 Latin America Solar Cells and Modules Market Size by Country (2019-2024)
 - 10.2.3 Latin America Solar Cells and Modules Market Size Forecast by Country (2025-2030)

11 MIDDLE EAST AND AFRICA BY COUNTRY

- 11.1 Middle East and Africa Solar Cells and Modules Sales by Country
 - 11.1.1 Middle East and Africa Solar Cells and Modules Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030
 - 11.1.2 Middle East and Africa Solar Cells and Modules Sales by Country (2019-2024)
 - 11.1.3 Middle East and Africa Solar Cells and Modules Sales Forecast by Country (2025-2030)
- 11.2 Middle East and Africa Solar Cells and Modules Market Size by Country
 - 11.2.1 Middle East and Africa Solar Cells and Modules Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030
 - 11.2.2 Middle East and Africa Solar Cells and Modules Market Size by Country (2019-2024)
 - 11.2.3 Middle East and Africa Solar Cells and Modules Market Size Forecast by Country (2025-2030)

12 VALUE CHAIN AND SALES CHANNELS ANALYSIS

- 12.1 Solar Cells and Modules Value Chain Analysis
 - 12.1.1 Solar Cells and Modules Key Raw Materials
 - 12.1.2 Key Raw Materials Price
 - 12.1.3 Raw Materials Key Suppliers
 - 12.1.4 Manufacturing Cost Structure
 - 12.1.5 Solar Cells and Modules Production Mode & Process
- 12.2 Solar Cells and Modules Sales Channels Analysis
 - 12.2.1 Direct Comparison with Distribution Share
 - 12.2.2 Solar Cells and Modules Distributors
 - 12.2.3 Solar Cells and Modules Customers

13 CONCLUDING INSIGHTS

14 APPENDIX

14.1 Reasons for Doing This Study

14.2 Research Methodology

14.3 Research Process

14.4 Authors List of This Report

14.5 Data Source

14.5.1 Secondary Sources

14.5.2 Primary Sources

14.6 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Major Company of Mono-Si Modules
- Table 2. Major Company of Multi-Si Modules
- Table 3. Major Company of CdTe Modules
- Table 4. Major Company of CIGS Modules
- Table 5. Major Company of A-Si Modules
- Table 6. Major Company of Others
- Table 7. Global Solar Cells and Modules Sales by Type (2019 VS 2023 VS 2030) & (US\$ Million)
- Table 8. Global Solar Cells and Modules Sales by Type (2019-2024) & (MW)
- Table 9. Global Solar Cells and Modules Sales Market Share in Volume by Type (2019-2024)
- Table 10. Global Solar Cells and Modules Sales by Type (2019-2024) & (US\$ Million)
- Table 11. Global Solar Cells and Modules Sales Market Share in Value by Type (2019-2024)
- Table 12. Global Solar Cells and Modules Price by Type (2019-2024) & (US\$/W)
- Table 13. Global Solar Cells and Modules Sales by Type (2025-2030) & (MW)
- Table 14. Global Solar Cells and Modules Sales Market Share in Volume by Type (2025-2030)
- Table 15. Global Solar Cells and Modules Sales by Type (2025-2030) & (US\$ Million)
- Table 16. Global Solar Cells and Modules Sales Market Share in Value by Type (2025-2030)
- Table 17. Global Solar Cells and Modules Price by Type (2025-2030) & (US\$/W)
- Table 18. North America Solar Cells and Modules Sales by Type (2019-2024) & (MW)
- Table 19. North America Solar Cells and Modules Sales by Type (2019-2024) & (US\$ Million)
- Table 20. Europe Solar Cells and Modules Sales by Type (2019-2024) & (MW)
- Table 21. Europe Solar Cells and Modules Sales by Type (2019-2024) & (US\$ Million)
- Table 22. Asia-Pacific Solar Cells and Modules Sales by Type (2019-2024) & (MW)
- Table 23. Asia-Pacific Solar Cells and Modules Sales by Type (2019-2024) & (US\$ Million)
- Table 24. Latin America Solar Cells and Modules Sales by Type (2019-2024) & (MW)
- Table 25. Latin America Solar Cells and Modules Sales by Type (2019-2024) & (US\$ Million)
- Table 26. Middle East and Africa Solar Cells and Modules Sales by Type (2019-2024) & (MW)

Table 27. Middle East and Africa Solar Cells and Modules Sales by Type (2019-2024) & (US\$ Million)

Table 28. Solar Cells and Modules Industry Trends

Table 29. Solar Cells and Modules Industry Drivers

Table 30. Solar Cells and Modules Industry Opportunities and Challenges

Table 31. Solar Cells and Modules Industry Restraints

Table 32. Global Solar Cells and Modules Sales Revenue by Company (US\$ Million) & (2019-2024)

Table 33. Global Solar Cells and Modules Revenue Market Share by Company (2019-2024)

Table 34. Global Solar Cells and Modules Sales by Company (2019-2024) & (MW)

Table 35. Global Solar Cells and Modules Sales Share by Company (2019-2024)

Table 36. Global Solar Cells and Modules Market Price by Company (2019-2024) & (US\$/W)

Table 37. Global Solar Cells and Modules Industry Company Ranking, 2022 VS 2023 VS 2024

Table 38. Global Solar Cells and Modules Key Company Manufacturing Sites & Headquarters

Table 39. Global Solar Cells and Modules Company, Product Type & Application

Table 40. Global Solar Cells and Modules Company Commercialization Time

Table 41. Global Company Market Concentration Ratio (CR5 and HHI)

Table 42. Global Solar Cells and Modules by Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue of 2023)

Table 43. Global Solar Cells and Modules Market Size Comparison by Region (US\$ Million): 2019 VS 2023 VS 2030

Table 44. Global Solar Cells and Modules Sales by Region (2019-2024) & (MW)

Table 45. Global Solar Cells and Modules Sales Market Share in Volume by Region (2019-2024)

Table 46. Global Solar Cells and Modules Sales by Region (2019-2024) & (US\$ Million)

Table 47. Global Solar Cells and Modules Sales Market Share in Value by Region (2019-2024)

Table 48. Global Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 49. Global Solar Cells and Modules Sales by Region (2025-2030) & (MW)

Table 50. Global Solar Cells and Modules Sales Market Share in Volume by Region (2025-2030)

Table 51. Global Solar Cells and Modules Sales by Region (2025-2030) & (US\$ Million)

Table 52. Global Solar Cells and Modules Sales Market Share in Value by Region (2025-2030)

Table 53. Global Solar Cells and Modules Sales (MW), Value (US\$ Million), Price (US\$/W) and Gross Margin (2025-2030)

Table 54. Global Solar Cells and Modules Sales by Application (2019 VS 2023 VS 2030) & (US\$ Million)

Table 55. Global Solar Cells and Modules Sales by Application (2019-2024) & (MW)

Table 56. Global Solar Cells and Modules Sales Market Share in Volume by Application (2019-2024)

Table 57. Global Solar Cells and Modules Sales by Application (2019-2024) & (US\$ Million)

Table 58. Global Solar Cells and Modules Sales Market Share in Value by Application (2019-2024)

Table 59. Global Solar Cells and Modules Price by Application (2019-2024) & (US\$/W)

Table 60. Global Solar Cells and Modules Sales by Application (2025-2030) & (MW)

Table 61. Global Solar Cells and Modules Sales Market Share in Volume by Application (2025-2030)

Table 62. Global Solar Cells and Modules Sales by Application (2025-2030) & (US\$ Million)

Table 63. Global Solar Cells and Modules Sales Market Share in Value by Application (2025-2030)

Table 64. Global Solar Cells and Modules Price by Application (2025-2030) & (US\$/W)

Table 65. North America Solar Cells and Modules Sales by Application (2019-2024) & (MW)

Table 66. North America Solar Cells and Modules Sales by Application (2019-2024) & (US\$ Million)

Table 67. Europe Solar Cells and Modules Sales by Application (2019-2024) & (MW)

Table 68. Europe Solar Cells and Modules Sales by Application (2019-2024) & (US\$ Million)

Table 69. Asia-Pacific Solar Cells and Modules Sales by Application (2019-2024) & (MW)

Table 70. Asia-Pacific Solar Cells and Modules Sales by Application (2019-2024) & (US\$ Million)

Table 71. Latin America Solar Cells and Modules Sales by Application (2019-2024) & (MW)

Table 72. Latin America Solar Cells and Modules Sales by Application (2019-2024) & (US\$ Million)

Table 73. Middle East and Africa Solar Cells and Modules Sales by Application (2019-2024) & (MW)

Table 74. Middle East and Africa Solar Cells and Modules Sales by Application (2019-2024) & (US\$ Million)

- Table 75. JinkoSolar Company Information
- Table 76. JinkoSolar Business Overview
- Table 77. JinkoSolar Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 78. JinkoSolar Solar Cells and Modules Product Portfolio
- Table 79. JinkoSolar Recent Development
- Table 80. LONGi Company Information
- Table 81. LONGi Business Overview
- Table 82. LONGi Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 83. LONGi Solar Cells and Modules Product Portfolio
- Table 84. LONGi Recent Development
- Table 85. JA Solar Company Information
- Table 86. JA Solar Business Overview
- Table 87. JA Solar Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 88. JA Solar Solar Cells and Modules Product Portfolio
- Table 89. JA Solar Recent Development
- Table 90. First Solar Company Information
- Table 91. First Solar Business Overview
- Table 92. First Solar Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 93. First Solar Solar Cells and Modules Product Portfolio
- Table 94. First Solar Recent Development
- Table 95. Canadian Solar Company Information
- Table 96. Canadian Solar Business Overview
- Table 97. Canadian Solar Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 98. Canadian Solar Solar Cells and Modules Product Portfolio
- Table 99. Canadian Solar Recent Development
- Table 100. Trina Solar Company Information
- Table 101. Trina Solar Business Overview
- Table 102. Trina Solar Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 103. Trina Solar Solar Cells and Modules Product Portfolio
- Table 104. Trina Solar Recent Development
- Table 105. Hanwha Solutions Company Information
- Table 106. Hanwha Solutions Business Overview
- Table 107. Hanwha Solutions Solar Cells and Modules Sales (MW), Revenue (US\$

Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 108. Hanwha Solutions Solar Cells and Modules Product Portfolio

Table 109. Hanwha Solutions Recent Development

Table 110. Risen Energy Company Information

Table 111. Risen Energy Business Overview

Table 112. Risen Energy Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 113. Risen Energy Solar Cells and Modules Product Portfolio

Table 114. Risen Energy Recent Development

Table 115. Seraphim Company Information

Table 116. Seraphim Business Overview

Table 117. Seraphim Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 118. Seraphim Solar Cells and Modules Product Portfolio

Table 119. Seraphim Recent Development

Table 120. SunPower Company Information

Table 121. SunPower Business Overview

Table 122. SunPower Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 123. SunPower Solar Cells and Modules Product Portfolio

Table 124. SunPower Recent Development

Table 125. Chint Electrics Company Information

Table 126. Chint Electrics Business Overview

Table 127. Chint Electrics Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 128. Chint Electrics Solar Cells and Modules Product Portfolio

Table 129. Chint Electrics Recent Development

Table 130. Solargiga Company Information

Table 131. Solargiga Business Overview

Table 132. Solargiga Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 133. Solargiga Solar Cells and Modules Product Portfolio

Table 134. Solargiga Recent Development

Table 135. Shunfeng Company Information

Table 136. Shunfeng Business Overview

Table 137. Shunfeng Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)

Table 138. Shunfeng Solar Cells and Modules Product Portfolio

Table 139. Shunfeng Recent Development

- Table 140. LG Business Solutions Company Information
- Table 141. LG Business Solutions Business Overview
- Table 142. LG Business Solutions Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 143. LG Business Solutions Solar Cells and Modules Product Portfolio
- Table 144. LG Business Solutions Recent Development
- Table 145. Jinery Company Information
- Table 146. Jinery Business Overview
- Table 147. Jinery Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 148. Jinery Solar Cells and Modules Product Portfolio
- Table 149. Jinery Recent Development
- Table 150. GCL System Company Information
- Table 151. GCL System Business Overview
- Table 152. GCL System Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 153. GCL System Solar Cells and Modules Product Portfolio
- Table 154. GCL System Recent Development
- Table 155. EGing PV Company Information
- Table 156. EGing PV Business Overview
- Table 157. EGing PV Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 158. EGing PV Solar Cells and Modules Product Portfolio
- Table 159. EGing PV Recent Development
- Table 160. Jolywood Company Information
- Table 161. Jolywood Business Overview
- Table 162. Jolywood Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 163. Jolywood Solar Cells and Modules Product Portfolio
- Table 164. Jolywood Recent Development
- Table 165. Talesun Solar Company Information
- Table 166. Talesun Solar Business Overview
- Table 167. Talesun Solar Solar Cells and Modules Sales (MW), Revenue (US\$ Million), Price (US\$/W) and Gross Margin (2019-2024)
- Table 168. Talesun Solar Solar Cells and Modules Product Portfolio
- Table 169. Talesun Solar Recent Development
- Table 170. North America Solar Cells and Modules Market Size Growth Rate (CAGR) by Country (MW): 2019 VS 2023 VS 2030
- Table 171. North America Solar Cells and Modules Sales by Country (2019-2024) &

(MW)

Table 172. North America Solar Cells and Modules Sales Market Share by Country (2019-2024)

Table 173. North America Solar Cells and Modules Sales Forecast by Country (2025-2030) & (MW)

Table 174. North America Solar Cells and Modules Sales Market Share Forecast by Country (2025-2030)

Table 175. North America Solar Cells and Modules Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 176. North America Solar Cells and Modules Market Size by Country (2019-2024) & (US\$ Million)

Table 177. North America Solar Cells and Modules Market Share by Country (2019-2024)

Table 178. North America Solar Cells and Modules Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 179. North America Solar Cells and Modules Market Share Forecast by Country (2025-2030)

Table 180. Europe Solar Cells and Modules Market Size Growth Rate (CAGR) by Country (MW): 2019 VS 2023 VS 2030

Table 181. Europe Solar Cells and Modules Sales by Country (2019-2024) & (MW)

Table 182. Europe Solar Cells and Modules Sales Market Share by Country (2019-2024)

Table 183. Europe Solar Cells and Modules Sales Forecast by Country (2025-2030) & (MW)

Table 184. Europe Solar Cells and Modules Sales Market Share Forecast by Country (2025-2030)

Table 185. Europe Solar Cells and Modules Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 186. Europe Solar Cells and Modules Market Size by Country (2019-2024) & (US\$ Million)

Table 187. Europe Solar Cells and Modules Market Share by Country (2019-2024)

Table 188. Europe Solar Cells and Modules Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 189. Europe Solar Cells and Modules Market Share Forecast by Country (2025-2030)

Table 190. Asia-Pacific Solar Cells and Modules Market Size Growth Rate (CAGR) by Country (MW): 2019 VS 2023 VS 2030

Table 191. Asia-Pacific Solar Cells and Modules Sales by Country (2019-2024) & (MW)

Table 192. Asia-Pacific Solar Cells and Modules Sales Market Share by Country

(2019-2024)

Table 193. Asia-Pacific Solar Cells and Modules Sales Forecast by Country (2025-2030) & (MW)

Table 194. Asia-Pacific Solar Cells and Modules Sales Market Share Forecast by Country (2025-2030)

Table 195. Asia-Pacific Solar Cells and Modules Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 196. Asia-Pacific Solar Cells and Modules Market Size by Country (2019-2024) & (US\$ Million)

Table 197. Asia-Pacific Solar Cells and Modules Market Share by Country (2019-2024)

Table 198. Asia-Pacific Solar Cells and Modules Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 199. Asia-Pacific Solar Cells and Modules Market Share Forecast by Country (2025-2030)

Table 200. Latin America Solar Cells and Modules Market Size Growth Rate (CAGR) by Country (MW): 2019 VS 2023 VS 2030

Table 201. Latin America Solar Cells and Modules Sales by Country (2019-2024) & (MW)

Table 202. Latin America Solar Cells and Modules Sales Market Share by Country (2019-2024)

Table 203. Latin America Solar Cells and Modules Sales Forecast by Country (2025-2030) & (MW)

Table 204. Latin America Solar Cells and Modules Sales Market Share Forecast by Country (2025-2030)

Table 205. Latin America Solar Cells and Modules Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 206. Latin America Solar Cells and Modules Market Size by Country (2019-2024) & (US\$ Million)

Table 207. Latin America Solar Cells and Modules Market Share by Country (2019-2024)

Table 208. Latin America Solar Cells and Modules Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 209. Latin America Solar Cells and Modules Market Share Forecast by Country (2025-2030)

Table 210. Middle East and Africa Solar Cells and Modules Market Size Growth Rate (CAGR) by Country (MW): 2019 VS 2023 VS 2030

Table 211. Middle East and Africa Solar Cells and Modules Sales by Country (2019-2024) & (MW)

Table 212. Middle East and Africa Solar Cells and Modules Sales Market Share by

Country (2019-2024)

Table 213. Middle East and Africa Solar Cells and Modules Sales Forecast by Country (2025-2030) & (MW)

Table 214. Middle East and Africa Solar Cells and Modules Sales Market Share Forecast by Country (2025-2030)

Table 215. Middle East and Africa Solar Cells

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