

# Global C-Si A-Si CIGS Solar Cell and Module Market Growth 2024-2030

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## Abstracts

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According to our LPI (LP Information) latest study, the global C-Si A-Si CIGS Solar Cell and Module market size was valued at US\$ million in 2023. With growing demand in downstream market, the C-Si A-Si CIGS Solar Cell and Module is forecast to a readjusted size of US\$ million by 2030 with a CAGR of % during review period.

The research report highlights the growth potential of the global C-Si A-Si CIGS Solar Cell and Module market. C-Si A-Si CIGS Solar Cell and Module are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of C-Si A-Si CIGS Solar Cell and Module. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the C-Si A-Si CIGS Solar Cell and Module market.

C-Si A-Si CIGS Solar Cell and Module refers to a hybrid solar cell and module technology that combines crystalline silicon (C-Si) solar cells with amorphous silicon (A-Si) and copper indium gallium selenide (CIGS) thin-film solar cells. This hybrid structure aims to utilize the advantages of each material to enhance overall efficiency and performance. The C-Si cells provide high efficiency and stability, while A-Si and CIGS thin-film cells offer improved light absorption and tolerance to different lighting conditions. This hybrid approach allows for better energy conversion and increased power output, making it an attractive option for solar panel manufacturers.

China has implemented the Renewable Energy Law since 2006, in which Article 4

clearly states that, the State gives first priority to the exploration of renewable energy. Over the years, various departments of the Chinese government have successively issued a large number of policies, covering production, sales, taxation, subsidies and other aspects. After setting the carbon neutrality goal in 2021, from a national perspective, the upgrading of the energy structure is ever imperative, and therefore the optoelectronic industry has great potential. The European Commission released the Net-Zero Industry Act in 2023. This bill aims to stimulate local manufacturing in Europe, reduce import dependence on China, and ensure that at least 40% of the EU's clean energy demand can be met by 2030. The EU targets an installed solar capacity of 600 GW. Overall, the European market still has a lot of room for development. US 2022 release of the Inflation Reduction Act, which includes \$369 billion for energy security and climate change investments. For the photovoltaic industry, the bill stimulates its development from multiple aspects such as corporate and individual tax credits, production subsidies, and loans throughout the industry chain, and revitalizes the domestic manufacturing industry in the United States. Japanese authorities plan to make solar panels mandatory for new residential buildings in Tokyo from 2025 onwards. It is estimated that by 2030, photovoltaic power generation will account for 14%-16% of Japan's total power generation, and the cumulative installed capacity of photovoltaic systems will be about 117.244 GW.

#### Key Features:

The report on C-Si A-Si CIGS Solar Cell and Module market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the C-Si A-Si CIGS Solar Cell and Module market. It may include historical data, market segmentation by Type (e.g., Tandem Design, Multi-Knot Design), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the C-Si A-Si CIGS Solar Cell and Module market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the C-Si A-Si CIGS Solar Cell and Module market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also

highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the C-Si A-Si CIGS Solar Cell and Module industry. This include advancements in C-Si A-Si CIGS Solar Cell and Module technology, C-Si A-Si CIGS Solar Cell and Module new entrants, C-Si A-Si CIGS Solar Cell and Module new investment, and other innovations that are shaping the future of C-Si A-Si CIGS Solar Cell and Module.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the C-Si A-Si CIGS Solar Cell and Module market. It includes factors influencing customer ' purchasing decisions, preferences for C-Si A-Si CIGS Solar Cell and Module product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the C-Si A-Si CIGS Solar Cell and Module market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting C-Si A-Si CIGS Solar Cell and Module market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the C-Si A-Si CIGS Solar Cell and Module market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the C-Si A-Si CIGS Solar Cell and Module industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the C-Si A-Si CIGS Solar Cell and Module market.

**Market Segmentation:**

C-Si A-Si CIGS Solar Cell and Module 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.

#### Segmentation by type

Tandem Design

Multi-Knot Design

#### Segmentation by application

Residential

Commercial

Ground Station

Others

This report also splits the market by region:

#### Americas

United States

Canada

Mexico

Brazil

#### APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Solar Frontier

SoloPower

Siva Power

Avancis

Solibro (Hanergy)

Miasole

Global Solar

Flisom

### Key Questions Addressed in this Report

What is the 10-year outlook for the global C-Si A-Si CIGS Solar Cell and Module market?

What factors are driving C-Si A-Si CIGS Solar Cell and Module market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do C-Si A-Si CIGS Solar Cell and Module market opportunities vary by end market size?

How does C-Si A-Si CIGS Solar Cell and Module break out type, application?

## Contents

### **1 SCOPE OF THE REPORT**

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### **2 EXECUTIVE SUMMARY**

- 2.1 World Market Overview
  - 2.1.1 Global C-Si A-Si CIGS Solar Cell and Module Annual Sales 2019-2030
  - 2.1.2 World Current & Future Analysis for C-Si A-Si CIGS Solar Cell and Module by Geographic Region, 2019, 2023 & 2030
  - 2.1.3 World Current & Future Analysis for C-Si A-Si CIGS Solar Cell and Module by Country/Region, 2019, 2023 & 2030
- 2.2 C-Si A-Si CIGS Solar Cell and Module Segment by Type
  - 2.2.1 Tandem Design
  - 2.2.2 Multi-Knot Design
- 2.3 C-Si A-Si CIGS Solar Cell and Module Sales by Type
  - 2.3.1 Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Type (2019-2024)
  - 2.3.2 Global C-Si A-Si CIGS Solar Cell and Module Revenue and Market Share by Type (2019-2024)
  - 2.3.3 Global C-Si A-Si CIGS Solar Cell and Module Sale Price by Type (2019-2024)
- 2.4 C-Si A-Si CIGS Solar Cell and Module Segment by Application
  - 2.4.1 Residential
  - 2.4.2 Commercial
  - 2.4.3 Ground Station
  - 2.4.4 Others
- 2.5 C-Si A-Si CIGS Solar Cell and Module Sales by Application
  - 2.5.1 Global C-Si A-Si CIGS Solar Cell and Module Sale Market Share by Application (2019-2024)
  - 2.5.2 Global C-Si A-Si CIGS Solar Cell and Module Revenue and Market Share by

Application (2019-2024)

2.5.3 Global C-Si A-Si CIGS Solar Cell and Module Sale Price by Application (2019-2024)

### **3 GLOBAL C-SI A-SI CIGS SOLAR CELL AND MODULE BY COMPANY**

3.1 Global C-Si A-Si CIGS Solar Cell and Module Breakdown Data by Company

3.1.1 Global C-Si A-Si CIGS Solar Cell and Module Annual Sales by Company (2019-2024)

3.1.2 Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Company (2019-2024)

3.2 Global C-Si A-Si CIGS Solar Cell and Module Annual Revenue by Company (2019-2024)

3.2.1 Global C-Si A-Si CIGS Solar Cell and Module Revenue by Company (2019-2024)

3.2.2 Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Company (2019-2024)

3.3 Global C-Si A-Si CIGS Solar Cell and Module Sale Price by Company

3.4 Key Manufacturers C-Si A-Si CIGS Solar Cell and Module Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers C-Si A-Si CIGS Solar Cell and Module Product Location Distribution

3.4.2 Players C-Si A-Si CIGS Solar Cell and Module Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

### **4 WORLD HISTORIC REVIEW FOR C-SI A-SI CIGS SOLAR CELL AND MODULE BY GEOGRAPHIC REGION**

4.1 World Historic C-Si A-Si CIGS Solar Cell and Module Market Size by Geographic Region (2019-2024)

4.1.1 Global C-Si A-Si CIGS Solar Cell and Module Annual Sales by Geographic Region (2019-2024)

4.1.2 Global C-Si A-Si CIGS Solar Cell and Module Annual Revenue by Geographic Region (2019-2024)

4.2 World Historic C-Si A-Si CIGS Solar Cell and Module Market Size by



## Country/Region (2019-2024)

4.2.1 Global C-Si A-Si CIGS Solar Cell and Module Annual Sales by Country/Region (2019-2024)

4.2.2 Global C-Si A-Si CIGS Solar Cell and Module Annual Revenue by Country/Region (2019-2024)

4.3 Americas C-Si A-Si CIGS Solar Cell and Module Sales Growth

4.4 APAC C-Si A-Si CIGS Solar Cell and Module Sales Growth

4.5 Europe C-Si A-Si CIGS Solar Cell and Module Sales Growth

4.6 Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales Growth

## 5 AMERICAS

5.1 Americas C-Si A-Si CIGS Solar Cell and Module Sales by Country

5.1.1 Americas C-Si A-Si CIGS Solar Cell and Module Sales by Country (2019-2024)

5.1.2 Americas C-Si A-Si CIGS Solar Cell and Module Revenue by Country (2019-2024)

5.2 Americas C-Si A-Si CIGS Solar Cell and Module Sales by Type

5.3 Americas C-Si A-Si CIGS Solar Cell and Module Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## 6 APAC

6.1 APAC C-Si A-Si CIGS Solar Cell and Module Sales by Region

6.1.1 APAC C-Si A-Si CIGS Solar Cell and Module Sales by Region (2019-2024)

6.1.2 APAC C-Si A-Si CIGS Solar Cell and Module Revenue by Region (2019-2024)

6.2 APAC C-Si A-Si CIGS Solar Cell and Module Sales by Type

6.3 APAC C-Si A-Si CIGS Solar Cell and Module Sales by Application

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## 7 EUROPE

## 7.1 Europe C-Si A-Si CIGS Solar Cell and Module by Country

7.1.1 Europe C-Si A-Si CIGS Solar Cell and Module Sales by Country (2019-2024)

7.1.2 Europe C-Si A-Si CIGS Solar Cell and Module Revenue by Country (2019-2024)

## 7.2 Europe C-Si A-Si CIGS Solar Cell and Module Sales by Type

## 7.3 Europe C-Si A-Si CIGS Solar Cell and Module Sales by Application

## 7.4 Germany

## 7.5 France

## 7.6 UK

## 7.7 Italy

## 7.8 Russia

# 8 MIDDLE EAST & AFRICA

## 8.1 Middle East & Africa C-Si A-Si CIGS Solar Cell and Module by Country

8.1.1 Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales by Country (2019-2024)

8.1.2 Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Revenue by Country (2019-2024)

## 8.2 Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales by Type

## 8.3 Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales by Application

## 8.4 Egypt

## 8.5 South Africa

## 8.6 Israel

## 8.7 Turkey

## 8.8 GCC Countries

# 9 MARKET DRIVERS, CHALLENGES AND TRENDS

## 9.1 Market Drivers & Growth Opportunities

## 9.2 Market Challenges & Risks

## 9.3 Industry Trends

# 10 MANUFACTURING COST STRUCTURE ANALYSIS

## 10.1 Raw Material and Suppliers

## 10.2 Manufacturing Cost Structure Analysis of C-Si A-Si CIGS Solar Cell and Module

## 10.3 Manufacturing Process Analysis of C-Si A-Si CIGS Solar Cell and Module

## 10.4 Industry Chain Structure of C-Si A-Si CIGS Solar Cell and Module

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

### 11.1 Sales Channel

#### 11.1.1 Direct Channels

#### 11.1.2 Indirect Channels

### 11.2 C-Si A-Si CIGS Solar Cell and Module Distributors

### 11.3 C-Si A-Si CIGS Solar Cell and Module Customer

## **12 WORLD FORECAST REVIEW FOR C-SI A-SI CIGS SOLAR CELL AND MODULE BY GEOGRAPHIC REGION**

### 12.1 Global C-Si A-Si CIGS Solar Cell and Module Market Size Forecast by Region

#### 12.1.1 Global C-Si A-Si CIGS Solar Cell and Module Forecast by Region (2025-2030)

#### 12.1.2 Global C-Si A-Si CIGS Solar Cell and Module Annual Revenue Forecast by Region (2025-2030)

### 12.2 Americas Forecast by Country

### 12.3 APAC Forecast by Region

### 12.4 Europe Forecast by Country

### 12.5 Middle East & Africa Forecast by Country

### 12.6 Global C-Si A-Si CIGS Solar Cell and Module Forecast by Type

### 12.7 Global C-Si A-Si CIGS Solar Cell and Module Forecast by Application

## **13 KEY PLAYERS ANALYSIS**

### 13.1 Solar Frontier

#### 13.1.1 Solar Frontier Company Information

#### 13.1.2 Solar Frontier C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

#### 13.1.3 Solar Frontier C-Si A-Si CIGS Solar Cell and Module Sales, Revenue, Price and Gross Margin (2019-2024)

#### 13.1.4 Solar Frontier Main Business Overview

#### 13.1.5 Solar Frontier Latest Developments

### 13.2 SoloPower

#### 13.2.1 SoloPower Company Information

#### 13.2.2 SoloPower C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

#### 13.2.3 SoloPower C-Si A-Si CIGS Solar Cell and Module Sales, Revenue, Price and Gross Margin (2019-2024)

- 13.2.4 SoloPower Main Business Overview
- 13.2.5 SoloPower Latest Developments
- 13.3 Siva Power
  - 13.3.1 Siva Power Company Information
  - 13.3.2 Siva Power C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications
  - 13.3.3 Siva Power C-Si A-Si CIGS Solar Cell and Module Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.3.4 Siva Power Main Business Overview
  - 13.3.5 Siva Power Latest Developments
- 13.4 Avancis
  - 13.4.1 Avancis Company Information
  - 13.4.2 Avancis C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications
  - 13.4.3 Avancis C-Si A-Si CIGS Solar Cell and Module Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.4.4 Avancis Main Business Overview
  - 13.4.5 Avancis Latest Developments
- 13.5 Solibro (Hanergy)
  - 13.5.1 Solibro (Hanergy) Company Information
  - 13.5.2 Solibro (Hanergy) C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications
  - 13.5.3 Solibro (Hanergy) C-Si A-Si CIGS Solar Cell and Module Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.5.4 Solibro (Hanergy) Main Business Overview
  - 13.5.5 Solibro (Hanergy) Latest Developments
- 13.6 Miasole
  - 13.6.1 Miasole Company Information
  - 13.6.2 Miasole C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications
  - 13.6.3 Miasole C-Si A-Si CIGS Solar Cell and Module Sales, Revenue, Price and Gross Margin (2019-2024)
  - 13.6.4 Miasole Main Business Overview
  - 13.6.5 Miasole Latest Developments
- 13.7 Global Solar
  - 13.7.1 Global Solar Company Information
  - 13.7.2 Global Solar C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications
  - 13.7.3 Global Solar C-Si A-Si CIGS Solar Cell and Module Sales, Revenue, Price and

Gross Margin (2019-2024)

13.7.4 Global Solar Main Business Overview

13.7.5 Global Solar Latest Developments

13.8 Flisom

13.8.1 Flisom Company Information

13.8.2 Flisom C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

13.8.3 Flisom C-Si A-Si CIGS Solar Cell and Module Sales, Revenue, Price and Gross Margin (2019-2024)

13.8.4 Flisom Main Business Overview

13.8.5 Flisom Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. C-Si A-Si CIGS Solar Cell and Module Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. C-Si A-Si CIGS Solar Cell and Module Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Tandem Design

Table 4. Major Players of Multi-Knot Design

Table 5. Global C-Si A-Si CIGS Solar Cell and Module Sales by Type (2019-2024) & (GWh)

Table 6. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Type (2019-2024)

Table 7. Global C-Si A-Si CIGS Solar Cell and Module Revenue by Type (2019-2024) & (\$ million)

Table 8. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Type (2019-2024)

Table 9. Global C-Si A-Si CIGS Solar Cell and Module Sale Price by Type (2019-2024) & (USD/KWh)

Table 10. Global C-Si A-Si CIGS Solar Cell and Module Sales by Application (2019-2024) & (GWh)

Table 11. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Application (2019-2024)

Table 12. Global C-Si A-Si CIGS Solar Cell and Module Revenue by Application (2019-2024)

Table 13. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Application (2019-2024)

Table 14. Global C-Si A-Si CIGS Solar Cell and Module Sale Price by Application (2019-2024) & (USD/KWh)

Table 15. Global C-Si A-Si CIGS Solar Cell and Module Sales by Company (2019-2024) & (GWh)

Table 16. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Company (2019-2024)

Table 17. Global C-Si A-Si CIGS Solar Cell and Module Revenue by Company (2019-2024) (\$ Millions)

Table 18. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Company (2019-2024)

Table 19. Global C-Si A-Si CIGS Solar Cell and Module Sale Price by Company

(2019-2024) & (USD/KWh)

Table 20. Key Manufacturers C-Si A-Si CIGS Solar Cell and Module Producing Area Distribution and Sales Area

Table 21. Players C-Si A-Si CIGS Solar Cell and Module Products Offered

Table 22. C-Si A-Si CIGS Solar Cell and Module Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 23. New Products and Potential Entrants

Table 24. Mergers & Acquisitions, Expansion

Table 25. Global C-Si A-Si CIGS Solar Cell and Module Sales by Geographic Region (2019-2024) & (GWh)

Table 26. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share Geographic Region (2019-2024)

Table 27. Global C-Si A-Si CIGS Solar Cell and Module Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 28. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Geographic Region (2019-2024)

Table 29. Global C-Si A-Si CIGS Solar Cell and Module Sales by Country/Region (2019-2024) & (GWh)

Table 30. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Country/Region (2019-2024)

Table 31. Global C-Si A-Si CIGS Solar Cell and Module Revenue by Country/Region (2019-2024) & (\$ millions)

Table 32. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Country/Region (2019-2024)

Table 33. Americas C-Si A-Si CIGS Solar Cell and Module Sales by Country (2019-2024) & (GWh)

Table 34. Americas C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Country (2019-2024)

Table 35. Americas C-Si A-Si CIGS Solar Cell and Module Revenue by Country (2019-2024) & (\$ Millions)

Table 36. Americas C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Country (2019-2024)

Table 37. Americas C-Si A-Si CIGS Solar Cell and Module Sales by Type (2019-2024) & (GWh)

Table 38. Americas C-Si A-Si CIGS Solar Cell and Module Sales by Application (2019-2024) & (GWh)

Table 39. APAC C-Si A-Si CIGS Solar Cell and Module Sales by Region (2019-2024) & (GWh)

Table 40. APAC C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Region



(2019-2024)

Table 41. APAC C-Si A-Si CIGS Solar Cell and Module Revenue by Region (2019-2024) & (\$ Millions)

Table 42. APAC C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Region (2019-2024)

Table 43. APAC C-Si A-Si CIGS Solar Cell and Module Sales by Type (2019-2024) & (GWh)

Table 44. APAC C-Si A-Si CIGS Solar Cell and Module Sales by Application (2019-2024) & (GWh)

Table 45. Europe C-Si A-Si CIGS Solar Cell and Module Sales by Country (2019-2024) & (GWh)

Table 46. Europe C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Country (2019-2024)

Table 47. Europe C-Si A-Si CIGS Solar Cell and Module Revenue by Country (2019-2024) & (\$ Millions)

Table 48. Europe C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Country (2019-2024)

Table 49. Europe C-Si A-Si CIGS Solar Cell and Module Sales by Type (2019-2024) & (GWh)

Table 50. Europe C-Si A-Si CIGS Solar Cell and Module Sales by Application (2019-2024) & (GWh)

Table 51. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales by Country (2019-2024) & (GWh)

Table 52. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Country (2019-2024)

Table 53. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Revenue by Country (2019-2024) & (\$ Millions)

Table 54. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Country (2019-2024)

Table 55. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales by Type (2019-2024) & (GWh)

Table 56. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales by Application (2019-2024) & (GWh)

Table 57. Key Market Drivers & Growth Opportunities of C-Si A-Si CIGS Solar Cell and Module

Table 58. Key Market Challenges & Risks of C-Si A-Si CIGS Solar Cell and Module

Table 59. Key Industry Trends of C-Si A-Si CIGS Solar Cell and Module

Table 60. C-Si A-Si CIGS Solar Cell and Module Raw Material

Table 61. Key Suppliers of Raw Materials



- Table 62. C-Si A-Si CIGS Solar Cell and Module Distributors List
- Table 63. C-Si A-Si CIGS Solar Cell and Module Customer List
- Table 64. Global C-Si A-Si CIGS Solar Cell and Module Sales Forecast by Region (2025-2030) & (GWh)
- Table 65. Global C-Si A-Si CIGS Solar Cell and Module Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 66. Americas C-Si A-Si CIGS Solar Cell and Module Sales Forecast by Country (2025-2030) & (GWh)
- Table 67. Americas C-Si A-Si CIGS Solar Cell and Module Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 68. APAC C-Si A-Si CIGS Solar Cell and Module Sales Forecast by Region (2025-2030) & (GWh)
- Table 69. APAC C-Si A-Si CIGS Solar Cell and Module Revenue Forecast by Region (2025-2030) & (\$ millions)
- Table 70. Europe C-Si A-Si CIGS Solar Cell and Module Sales Forecast by Country (2025-2030) & (GWh)
- Table 71. Europe C-Si A-Si CIGS Solar Cell and Module Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 72. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales Forecast by Country (2025-2030) & (GWh)
- Table 73. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Revenue Forecast by Country (2025-2030) & (\$ millions)
- Table 74. Global C-Si A-Si CIGS Solar Cell and Module Sales Forecast by Type (2025-2030) & (GWh)
- Table 75. Global C-Si A-Si CIGS Solar Cell and Module Revenue Forecast by Type (2025-2030) & (\$ Millions)
- Table 76. Global C-Si A-Si CIGS Solar Cell and Module Sales Forecast by Application (2025-2030) & (GWh)
- Table 77. Global C-Si A-Si CIGS Solar Cell and Module Revenue Forecast by Application (2025-2030) & (\$ Millions)
- Table 78. Solar Frontier Basic Information, C-Si A-Si CIGS Solar Cell and Module Manufacturing Base, Sales Area and Its Competitors
- Table 79. Solar Frontier C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications
- Table 80. Solar Frontier C-Si A-Si CIGS Solar Cell and Module Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)
- Table 81. Solar Frontier Main Business
- Table 82. Solar Frontier Latest Developments
- Table 83. SoloPower Basic Information, C-Si A-Si CIGS Solar Cell and Module

Manufacturing Base, Sales Area and Its Competitors

Table 84. SoloPower C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

Table 85. SoloPower C-Si A-Si CIGS Solar Cell and Module Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 86. SoloPower Main Business

Table 87. SoloPower Latest Developments

Table 88. Siva Power Basic Information, C-Si A-Si CIGS Solar Cell and Module Manufacturing Base, Sales Area and Its Competitors

Table 89. Siva Power C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

Table 90. Siva Power C-Si A-Si CIGS Solar Cell and Module Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 91. Siva Power Main Business

Table 92. Siva Power Latest Developments

Table 93. Avancis Basic Information, C-Si A-Si CIGS Solar Cell and Module Manufacturing Base, Sales Area and Its Competitors

Table 94. Avancis C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

Table 95. Avancis C-Si A-Si CIGS Solar Cell and Module Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 96. Avancis Main Business

Table 97. Avancis Latest Developments

Table 98. Solibro (Hanergy) Basic Information, C-Si A-Si CIGS Solar Cell and Module Manufacturing Base, Sales Area and Its Competitors

Table 99. Solibro (Hanergy) C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

Table 100. Solibro (Hanergy) C-Si A-Si CIGS Solar Cell and Module Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 101. Solibro (Hanergy) Main Business

Table 102. Solibro (Hanergy) Latest Developments

Table 103. Miasole Basic Information, C-Si A-Si CIGS Solar Cell and Module Manufacturing Base, Sales Area and Its Competitors

Table 104. Miasole C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

Table 105. Miasole C-Si A-Si CIGS Solar Cell and Module Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 106. Miasole Main Business

Table 107. Miasole Latest Developments

Table 108. Global Solar Basic Information, C-Si A-Si CIGS Solar Cell and Module Manufacturing Base, Sales Area and Its Competitors

Table 109. Global Solar C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

Table 110. Global Solar C-Si A-Si CIGS Solar Cell and Module Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 111. Global Solar Main Business

Table 112. Global Solar Latest Developments

Table 113. Flisom Basic Information, C-Si A-Si CIGS Solar Cell and Module Manufacturing Base, Sales Area and Its Competitors

Table 114. Flisom C-Si A-Si CIGS Solar Cell and Module Product Portfolios and Specifications

Table 115. Flisom C-Si A-Si CIGS Solar Cell and Module Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 116. Flisom Main Business

Table 117. Flisom Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of C-Si A-Si CIGS Solar Cell and Module
- Figure 2. C-Si A-Si CIGS Solar Cell and Module Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global C-Si A-Si CIGS Solar Cell and Module Sales Growth Rate 2019-2030 (GWh)
- Figure 7. Global C-Si A-Si CIGS Solar Cell and Module Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. C-Si A-Si CIGS Solar Cell and Module Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of Tandem Design
- Figure 10. Product Picture of Multi-Knot Design
- Figure 11. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Type in 2023
- Figure 12. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Type (2019-2024)
- Figure 13. C-Si A-Si CIGS Solar Cell and Module Consumed in Residential
- Figure 14. Global C-Si A-Si CIGS Solar Cell and Module Market: Residential (2019-2024) & (GWh)
- Figure 15. C-Si A-Si CIGS Solar Cell and Module Consumed in Commercial
- Figure 16. Global C-Si A-Si CIGS Solar Cell and Module Market: Commercial (2019-2024) & (GWh)
- Figure 17. C-Si A-Si CIGS Solar Cell and Module Consumed in Ground Station
- Figure 18. Global C-Si A-Si CIGS Solar Cell and Module Market: Ground Station (2019-2024) & (GWh)
- Figure 19. C-Si A-Si CIGS Solar Cell and Module Consumed in Others
- Figure 20. Global C-Si A-Si CIGS Solar Cell and Module Market: Others (2019-2024) & (GWh)
- Figure 21. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Application (2023)
- Figure 22. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Application in 2023
- Figure 23. C-Si A-Si CIGS Solar Cell and Module Sales Market by Company in 2023 (GWh)

Figure 24. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Company in 2023

Figure 25. C-Si A-Si CIGS Solar Cell and Module Revenue Market by Company in 2023 (\$ Million)

Figure 26. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Company in 2023

Figure 27. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Geographic Region (2019-2024)

Figure 28. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Geographic Region in 2023

Figure 29. Americas C-Si A-Si CIGS Solar Cell and Module Sales 2019-2024 (GWh)

Figure 30. Americas C-Si A-Si CIGS Solar Cell and Module Revenue 2019-2024 (\$ Millions)

Figure 31. APAC C-Si A-Si CIGS Solar Cell and Module Sales 2019-2024 (GWh)

Figure 32. APAC C-Si A-Si CIGS Solar Cell and Module Revenue 2019-2024 (\$ Millions)

Figure 33. Europe C-Si A-Si CIGS Solar Cell and Module Sales 2019-2024 (GWh)

Figure 34. Europe C-Si A-Si CIGS Solar Cell and Module Revenue 2019-2024 (\$ Millions)

Figure 35. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales 2019-2024 (GWh)

Figure 36. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Revenue 2019-2024 (\$ Millions)

Figure 37. Americas C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Country in 2023

Figure 38. Americas C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Country in 2023

Figure 39. Americas C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Type (2019-2024)

Figure 40. Americas C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Application (2019-2024)

Figure 41. United States C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 42. Canada C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 43. Mexico C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 44. Brazil C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 45. APAC C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Region in 2023

Figure 46. APAC C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Regions in 2023

Figure 47. APAC C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Type (2019-2024)

Figure 48. APAC C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Application (2019-2024)

Figure 49. China C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 50. Japan C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 51. South Korea C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 52. Southeast Asia C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 53. India C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 54. Australia C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 55. China Taiwan C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 56. Europe C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Country in 2023

Figure 57. Europe C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Country in 2023

Figure 58. Europe C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Type (2019-2024)

Figure 59. Europe C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Application (2019-2024)

Figure 60. Germany C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 61. France C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 62. UK C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 63. Italy C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 64. Russia C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024



(\$ Millions)

Figure 65. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Country in 2023

Figure 66. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Revenue Market Share by Country in 2023

Figure 67. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Type (2019-2024)

Figure 68. Middle East & Africa C-Si A-Si CIGS Solar Cell and Module Sales Market Share by Application (2019-2024)

Figure 69. Egypt C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 70. South Africa C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 71. Israel C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 72. Turkey C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 73. GCC Country C-Si A-Si CIGS Solar Cell and Module Revenue Growth 2019-2024 (\$ Millions)

Figure 74. Manufacturing Cost Structure Analysis of C-Si A-Si CIGS Solar Cell and Module in 2023

Figure 75. Manufacturing Process Analysis of C-Si A-Si CIGS Solar Cell and Module

Figure 76. Industry Chain Structure of C-Si A-Si CIGS Solar Cell and Module

Figure 77. Channels of Distribution

Figure 78. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Forecast by Region (2025-2030)

Figure 79. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share Forecast by Region (2025-2030)

Figure 80. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share Forecast by Type (2025-2030)

Figure 81. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share Forecast by Type (2025-2030)

Figure 82. Global C-Si A-Si CIGS Solar Cell and Module Sales Market Share Forecast by Application (2025-2030)

Figure 83. Global C-Si A-Si CIGS Solar Cell and Module Revenue Market Share Forecast by Application (2025-2030)

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