

Thin-film Solar Cell Industry Research Report 2024

https://marketpublishers.com/r/TF45A9F83EC7EN.html

Date: April 2024

Pages: 122

Price: US\$ 2,950.00 (Single User License)

ID: TF45A9F83EC7EN

Abstracts

Summary

Thin film solar cells refer to the fact that these types of solar cells use a much thinner level of photovoltaic material than mono-crystalline or multi-crystalline solar cells. The thin-film solar cells are made by depositing one or more thin layers, or thin film (TF) of photovoltaic material on a substrate, such as glass, plastic or metal. Thin-film solar cells are commercially used in several technologies, including cadmium telluride (CdTe), copper indium gallium diselenide (CIGS), and amorphous thin-film silicon (a-Si, TF-Si)

According to APO Research, The global Thin-film Solar Cell market was valued at US\$ million in 2023 and is anticipated to reach US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

North American market for Thin-film Solar Cell 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 Thin-film Solar Cell 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 Thin-film Solar Cell 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 Thin-film Solar Cell include, 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 Thinfilm Solar Cell, 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 Thin-film Solar Cell.

The report will help the Thin-film Solar Cell manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, by Type, by Application, and by regions.

The Thin-film Solar Cell 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 Thin-film Solar Cell market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more indepth 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:

First Solar

Solar Frontier



Sharp Thin Film

MiaSole

NexPower		
Stion		
Calyxo		
Kaneka Solartech		
Bangkok Solar		
Wurth Solar		
Global Solar Energy		
Hanergy		
ENN Energy Holdings		
Topray Solar		
Thin-film Solar Cell segment by Type		
CdTe Thin-Film Solar Cells		
CIS/CIGS Thin-Film Solar Cells		
A-Si Thin-Film Solar Cells		
Thin-film Solar Cell segment by Application		
Residential Application		
Commercial Application		

Thin-film Solar Cell Industry Research Report 2024



Utility Application

TI

hin-film Solar Cell Segment by Region		
North Ame	rica	
U.S	S.	
Ca	nada	
Europe		
Ge	rmany	
Fra	ince	
U.Ł	ζ.	
Ital	у	
Ru	ssia	
Asia-Pacifi	С	
Ch	ina	
Jap	pan	
So	uth Korea	
Ind	ia	
Aus	stralia	
Chi	ina Taiwan	

Indonesia



	Thailand	
	Malaysia	
Latin	America	
	Mexico	
	Brazil	
	Argentina	
Middle	e East & Africa	
	Turkey	
	Saudi Arabia	
	UAE	
5 6		

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

Chapter Outline

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Thin-film Solar Cell manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.



Chapter 5: Production/output, value of Thin-film Solar Cell by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Thin-film Solar Cell in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: 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 8: 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 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: 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 11: The main points and conclusions of the report.



Contents

1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
 - 1.5.1 Secondary Sources
 - 1.5.2 Primary Sources

2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Thin-film Solar Cell by Type
 - 2.2.1 Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.2.2 CdTe Thin-Film Solar Cells
 - 2.2.3 CIS/CIGS Thin-Film Solar Cells
 - 2.2.4 A-Si Thin-Film Solar Cells
- 2.3 Thin-film Solar Cell by Application
- 2.3.1 Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.3.2 Residential Application
 - 2.3.3 Commercial Application
 - 2.3.4 Utility Application
- 2.4 Global Market Growth Prospects
- 2.4.1 Global Thin-film Solar Cell Production Value Estimates and Forecasts (2019-2030)
- 2.4.2 Global Thin-film Solar Cell Production Capacity Estimates and Forecasts (2019-2030)
 - 2.4.3 Global Thin-film Solar Cell Production Estimates and Forecasts (2019-2030)
 - 2.4.4 Global Thin-film Solar Cell Market Average Price (2019-2030)

3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Thin-film Solar Cell Production by Manufacturers (2019-2024)
- 3.2 Global Thin-film Solar Cell Production Value by Manufacturers (2019-2024)
- 3.3 Global Thin-film Solar Cell Average Price by Manufacturers (2019-2024)



- 3.4 Global Thin-film Solar Cell Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Thin-film Solar Cell Key Manufacturers, Manufacturing Sites & Headquarters
- 3.6 Global Thin-film Solar Cell Manufacturers, Product Type & Application
- 3.7 Global Thin-film Solar Cell Manufacturers, Date of Enter into This Industry
- 3.8 Global Thin-film Solar Cell Market CR5 and HHI
- 3.9 Global Manufacturers Mergers & Acquisition

4 MANUFACTURERS PROFILED

- 4.1 First Solar
 - 4.1.1 First Solar Thin-film Solar Cell Company Information
 - 4.1.2 First Solar Thin-film Solar Cell Business Overview
- 4.1.3 First Solar Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
- 4.1.4 First Solar Product Portfolio
- 4.1.5 First Solar Recent Developments
- 4.2 Solar Frontier
 - 4.2.1 Solar Frontier Thin-film Solar Cell Company Information
 - 4.2.2 Solar Frontier Thin-film Solar Cell Business Overview
- 4.2.3 Solar Frontier Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
- 4.2.4 Solar Frontier Product Portfolio
- 4.2.5 Solar Frontier Recent Developments
- 4.3 Sharp Thin Film
 - 4.3.1 Sharp Thin Film Thin-film Solar Cell Company Information
 - 4.3.2 Sharp Thin Film Thin-film Solar Cell Business Overview
- 4.3.3 Sharp Thin Film Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
- 4.3.4 Sharp Thin Film Product Portfolio
- 4.3.5 Sharp Thin Film Recent Developments
- 4.4 MiaSole
 - 4.4.1 MiaSole Thin-film Solar Cell Company Information
 - 4.4.2 MiaSole Thin-film Solar Cell Business Overview
 - 4.4.3 MiaSole Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
 - 4.4.4 MiaSole Product Portfolio
 - 4.4.5 MiaSole Recent Developments
- 4.5 NexPower
 - 4.5.1 NexPower Thin-film Solar Cell Company Information
 - 4.5.2 NexPower Thin-film Solar Cell Business Overview
 - 4.5.3 NexPower Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)



- 4.5.4 NexPower Product Portfolio
- 4.5.5 NexPower Recent Developments
- 4.6 Stion
 - 4.6.1 Stion Thin-film Solar Cell Company Information
 - 4.6.2 Stion Thin-film Solar Cell Business Overview
 - 4.6.3 Stion Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
 - 4.6.4 Stion Product Portfolio
 - 4.6.5 Stion Recent Developments
- 4.7 Calyxo
 - 4.7.1 Calyxo Thin-film Solar Cell Company Information
 - 4.7.2 Calyxo Thin-film Solar Cell Business Overview
 - 4.7.3 Calyxo Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
 - 4.7.4 Calyxo Product Portfolio
 - 4.7.5 Calyxo Recent Developments
- 4.8 Kaneka Solartech
 - 4.8.1 Kaneka Solartech Thin-film Solar Cell Company Information
 - 4.8.2 Kaneka Solartech Thin-film Solar Cell Business Overview
- 4.8.3 Kaneka Solartech Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
 - 4.8.4 Kaneka Solartech Product Portfolio
 - 4.8.5 Kaneka Solartech Recent Developments
- 4.9 Bangkok Solar
 - 4.9.1 Bangkok Solar Thin-film Solar Cell Company Information
 - 4.9.2 Bangkok Solar Thin-film Solar Cell Business Overview
- 4.9.3 Bangkok Solar Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
- 4.9.4 Bangkok Solar Product Portfolio
- 4.9.5 Bangkok Solar Recent Developments
- 4.10 Wurth Solar
 - 4.10.1 Wurth Solar Thin-film Solar Cell Company Information
 - 4.10.2 Wurth Solar Thin-film Solar Cell Business Overview
- 4.10.3 Wurth Solar Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
- 4.10.4 Wurth Solar Product Portfolio
- 4.10.5 Wurth Solar Recent Developments
- 4.11 Global Solar Energy
 - 4.11.1 Global Solar Energy Thin-film Solar Cell Company Information
 - 4.11.2 Global Solar Energy Thin-film Solar Cell Business Overview
- 4.11.3 Global Solar Energy Thin-film Solar Cell Production, Value and Gross Margin



(2019-2024)

- 4.11.4 Global Solar Energy Product Portfolio
- 4.11.5 Global Solar Energy Recent Developments
- 4.12 Hanergy
 - 4.12.1 Hanergy Thin-film Solar Cell Company Information
 - 4.12.2 Hanergy Thin-film Solar Cell Business Overview
 - 4.12.3 Hanergy Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
 - 4.12.4 Hanergy Product Portfolio
 - 4.12.5 Hanergy Recent Developments
- 4.13 ENN Energy Holdings
- 4.13.1 ENN Energy Holdings Thin-film Solar Cell Company Information
- 4.13.2 ENN Energy Holdings Thin-film Solar Cell Business Overview
- 4.13.3 ENN Energy Holdings Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
 - 4.13.4 ENN Energy Holdings Product Portfolio
- 4.13.5 ENN Energy Holdings Recent Developments
- 4.14 Topray Solar
 - 4.14.1 Topray Solar Thin-film Solar Cell Company Information
 - 4.14.2 Topray Solar Thin-film Solar Cell Business Overview
- 4.14.3 Topray Solar Thin-film Solar Cell Production, Value and Gross Margin (2019-2024)
- 4.14.4 Topray Solar Product Portfolio
- 4.14.5 Topray Solar Recent Developments

5 GLOBAL THIN-FILM SOLAR CELL PRODUCTION BY REGION

- 5.1 Global Thin-film Solar Cell Production Estimates and Forecasts by Region: 2019 VS 2023 VS 2030
- 5.2 Global Thin-film Solar Cell Production by Region: 2019-2030
- 5.2.1 Global Thin-film Solar Cell Production by Region: 2019-2024
- 5.2.2 Global Thin-film Solar Cell Production Forecast by Region (2025-2030)
- 5.3 Global Thin-film Solar Cell Production Value Estimates and Forecasts by Region: 2019 VS 2023 VS 2030
- 5.4 Global Thin-film Solar Cell Production Value by Region: 2019-2030
 - 5.4.1 Global Thin-film Solar Cell Production Value by Region: 2019-2024
 - 5.4.2 Global Thin-film Solar Cell Production Value Forecast by Region (2025-2030)
- 5.5 Global Thin-film Solar Cell Market Price Analysis by Region (2019-2024)
- 5.6 Global Thin-film Solar Cell Production and Value, YOY Growth
- 5.6.1 North America Thin-film Solar Cell Production Value Estimates and Forecasts



(2019-2030)

5.6.2 Europe Thin-film Solar Cell Production Value Estimates and Forecasts (2019-2030)

5.6.3 China Thin-film Solar Cell Production Value Estimates and Forecasts (2019-2030)

6 GLOBAL THIN-FILM SOLAR CELL CONSUMPTION BY REGION

- 6.1 Global Thin-film Solar Cell Consumption Estimates and Forecasts by Region: 2019 VS 2023 VS 2030
- 6.2 Global Thin-film Solar Cell Consumption by Region (2019-2030)
 - 6.2.1 Global Thin-film Solar Cell Consumption by Region: 2019-2030
 - 6.2.2 Global Thin-film Solar Cell Forecasted Consumption by Region (2025-2030)
- 6.3 North America
- 6.3.1 North America Thin-film Solar Cell Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
 - 6.3.2 North America Thin-film Solar Cell Consumption by Country (2019-2030)
 - 6.3.3 U.S.
 - 6.3.4 Canada
- 6.4 Europe
- 6.4.1 Europe Thin-film Solar Cell Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
 - 6.4.2 Europe Thin-film Solar Cell Consumption by Country (2019-2030)
 - 6.4.3 Germany
 - 6.4.4 France
 - 6.4.5 U.K.
 - 6.4.6 Italy
 - 6.4.7 Russia
- 6.5 Asia Pacific
- 6.5.1 Asia Pacific Thin-film Solar Cell Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
 - 6.5.2 Asia Pacific Thin-film Solar Cell Consumption by Country (2019-2030)
 - 6.5.3 China
 - 6.5.4 Japan
 - 6.5.5 South Korea
 - 6.5.6 China Taiwan
 - 6.5.7 Southeast Asia
 - 6.5.8 India
 - 6.5.9 Australia



- 6.6 Latin America, Middle East & Africa
- 6.6.1 Latin America, Middle East & Africa Thin-film Solar Cell Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
- 6.6.2 Latin America, Middle East & Africa Thin-film Solar Cell Consumption by Country (2019-2030)
 - 6.6.3 Mexico
 - 6.6.4 Brazil
 - 6.6.5 Turkey
- 6.6.5 GCC Countries

7 SEGMENT BY TYPE

- 7.1 Global Thin-film Solar Cell Production by Type (2019-2030)
 - 7.1.1 Global Thin-film Solar Cell Production by Type (2019-2030) & (MW)
- 7.1.2 Global Thin-film Solar Cell Production Market Share by Type (2019-2030)
- 7.2 Global Thin-film Solar Cell Production Value by Type (2019-2030)
- 7.2.1 Global Thin-film Solar Cell Production Value by Type (2019-2030) & (US\$ Million)
 - 7.2.2 Global Thin-film Solar Cell Production Value Market Share by Type (2019-2030)
- 7.3 Global Thin-film Solar Cell Price by Type (2019-2030)

8 SEGMENT BY APPLICATION

- 8.1 Global Thin-film Solar Cell Production by Application (2019-2030)
- 8.1.1 Global Thin-film Solar Cell Production by Application (2019-2030) & (MW)
- 8.1.2 Global Thin-film Solar Cell Production by Application (2019-2030) & (MW)
- 8.2 Global Thin-film Solar Cell Production Value by Application (2019-2030)
- 8.2.1 Global Thin-film Solar Cell Production Value by Application (2019-2030) & (US\$ Million)
- 8.2.2 Global Thin-film Solar Cell Production Value Market Share by Application (2019-2030)
- 8.3 Global Thin-film Solar Cell Price by Application (2019-2030)

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

- 9.1 Thin-film Solar Cell Value Chain Analysis
 - 9.1.1 Thin-film Solar Cell Key Raw Materials
 - 9.1.2 Raw Materials Key Suppliers
 - 9.1.3 Thin-film Solar Cell Production Mode & Process



- 9.2 Thin-film Solar Cell Sales Channels Analysis
 - 9.2.1 Direct Comparison with Distribution Share
 - 9.2.2 Thin-film Solar Cell Distributors
 - 9.2.3 Thin-film Solar Cell Customers

10 GLOBAL THIN-FILM SOLAR CELL ANALYZING MARKET DYNAMICS

- 10.1 Thin-film Solar Cell Industry Trends
- 10.2 Thin-film Solar Cell Industry Drivers
- 10.3 Thin-film Solar Cell Industry Opportunities and Challenges
- 10.4 Thin-film Solar Cell Industry Restraints

11 REPORT CONCLUSION

12 DISCLAIMER



List Of Tables

LIST OF TABLES

- Table 1. Secondary Sources
- Table 2. Primary Sources
- Table 3. Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
- Table 4. Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)
- Table 5. Global Thin-film Solar Cell Production by Manufacturers (MW) & (2019-2024)
- Table 6. Global Thin-film Solar Cell Production Market Share by Manufacturers
- Table 7. Global Thin-film Solar Cell Production Value by Manufacturers (US\$ Million) & (2019-2024)
- Table 8. Global Thin-film Solar Cell Production Value Market Share by Manufacturers (2019-2024)
- Table 9. Global Thin-film Solar Cell Average Price (USD/W) of Key Manufacturers (2019-2024)
- Table 10. Global Thin-film Solar Cell Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- Table 11. Global Thin-film Solar Cell Manufacturers, Product Type & Application
- Table 12. Global Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 13. Global Thin-film Solar Cell by Manufacturers Type (Tier 1, Tier 2, and Tier 3)
- & (based on the Production Value of 2023)
- Table 14. Manufacturers Mergers & Acquisitions, Expansion Plans)
- Table 15. First Solar Thin-film Solar Cell Company Information
- Table 16. First Solar Business Overview
- Table 17. First Solar Thin-film Solar Cell Production (MW), Value (US\$ Million), Price
- (USD/W) and Gross Margin (2019-2024)
- Table 18. First Solar Product Portfolio
- Table 19. First Solar Recent Developments
- Table 20. Solar Frontier Thin-film Solar Cell Company Information
- Table 21. Solar Frontier Business Overview
- Table 22. Solar Frontier Thin-film Solar Cell Production (MW), Value (US\$ Million), Price
- (USD/W) and Gross Margin (2019-2024)
- Table 23. Solar Frontier Product Portfolio
- Table 24. Solar Frontier Recent Developments
- Table 25. Sharp Thin Film Thin-film Solar Cell Company Information
- Table 26. Sharp Thin Film Business Overview
- Table 27. Sharp Thin Film Thin-film Solar Cell Production (MW), Value (US\$ Million),



- Price (USD/W) and Gross Margin (2019-2024)
- Table 28. Sharp Thin Film Product Portfolio
- Table 29. Sharp Thin Film Recent Developments
- Table 30. MiaSole Thin-film Solar Cell Company Information
- Table 31. MiaSole Business Overview
- Table 32. MiaSole Thin-film Solar Cell Production (MW), Value (US\$ Million), Price
- (USD/W) and Gross Margin (2019-2024)
- Table 33. MiaSole Product Portfolio
- Table 34. MiaSole Recent Developments
- Table 35. NexPower Thin-film Solar Cell Company Information
- Table 36. NexPower Business Overview
- Table 37. NexPower Thin-film Solar Cell Production (MW), Value (US\$ Million), Price
- (USD/W) and Gross Margin (2019-2024)
- Table 38. NexPower Product Portfolio
- Table 39. NexPower Recent Developments
- Table 40. Stion Thin-film Solar Cell Company Information
- Table 41. Stion Business Overview
- Table 42. Stion Thin-film Solar Cell Production (MW), Value (US\$ Million), Price
- (USD/W) and Gross Margin (2019-2024)
- Table 43. Stion Product Portfolio
- Table 44. Stion Recent Developments
- Table 45. Calyxo Thin-film Solar Cell Company Information
- Table 46. Calyxo Business Overview
- Table 47. Calyxo Thin-film Solar Cell Production (MW), Value (US\$ Million), Price
- (USD/W) and Gross Margin (2019-2024)
- Table 48. Calyxo Product Portfolio
- Table 49. Calyxo Recent Developments
- Table 50. Kaneka Solartech Thin-film Solar Cell Company Information
- Table 51. Kaneka Solartech Business Overview
- Table 52. Kaneka Solartech Thin-film Solar Cell Production (MW), Value (US\$ Million),
- Price (USD/W) and Gross Margin (2019-2024)
- Table 53. Kaneka Solartech Product Portfolio
- Table 54. Kaneka Solartech Recent Developments
- Table 55. Bangkok Solar Thin-film Solar Cell Company Information
- Table 56. Bangkok Solar Business Overview
- Table 57. Bangkok Solar Thin-film Solar Cell Production (MW), Value (US\$ Million),
- Price (USD/W) and Gross Margin (2019-2024)
- Table 58. Bangkok Solar Product Portfolio
- Table 59. Bangkok Solar Recent Developments



- Table 60. Wurth Solar Thin-film Solar Cell Company Information
- Table 61. Wurth Solar Business Overview
- Table 62. Wurth Solar Thin-film Solar Cell Production (MW), Value (US\$ Million), Price
- (USD/W) and Gross Margin (2019-2024)
- Table 63. Wurth Solar Product Portfolio
- Table 64. Wurth Solar Recent Developments
- Table 65. Global Solar Energy Thin-film Solar Cell Company Information
- Table 66. Global Solar Energy Business Overview
- Table 67. Global Solar Energy Thin-film Solar Cell Production (MW), Value (US\$
- Million), Price (USD/W) and Gross Margin (2019-2024)
- Table 68. Global Solar Energy Product Portfolio
- Table 69. Global Solar Energy Recent Developments
- Table 70. Hanergy Thin-film Solar Cell Company Information
- Table 71. Hanergy Business Overview
- Table 72. Hanergy Thin-film Solar Cell Production (MW), Value (US\$ Million), Price
- (USD/W) and Gross Margin (2019-2024)
- Table 73. Hanergy Product Portfolio
- Table 74. Hanergy Recent Developments
- Table 75. ENN Energy Holdings Thin-film Solar Cell Company Information
- Table 76. ENN Energy Holdings Business Overview
- Table 77. ENN Energy Holdings Thin-film Solar Cell Production (MW), Value (US\$
- Million), Price (USD/W) and Gross Margin (2019-2024)
- Table 78. ENN Energy Holdings Product Portfolio
- Table 79. ENN Energy Holdings Recent Developments
- Table 80. Topray Solar Thin-film Solar Cell Company Information
- Table 81. Topray Solar Business Overview
- Table 82. Topray Solar Thin-film Solar Cell Production (MW), Value (US\$ Million), Price
- (USD/W) and Gross Margin (2019-2024)
- Table 83. Topray Solar Product Portfolio
- Table 84. Topray Solar Recent Developments
- Table 85. Global Thin-film Solar Cell Production Comparison by Region: 2019 VS 2023 VS 2030 (MW)
- Table 86. Global Thin-film Solar Cell Production by Region (2019-2024) & (MW)
- Table 87. Global Thin-film Solar Cell Production Market Share by Region (2019-2024)
- Table 88. Global Thin-film Solar Cell Production Forecast by Region (2025-2030) & (MW)
- Table 89. Global Thin-film Solar Cell Production Market Share Forecast by Region (2025-2030)
- Table 90. Global Thin-film Solar Cell Production Value Comparison by Region: 2019 VS



2023 VS 2030 (US\$ Million)

Table 91. Global Thin-film Solar Cell Production Value by Region (2019-2024) & (US\$ Million)

Table 92. Global Thin-film Solar Cell Production Value Market Share by Region (2019-2024)

Table 93. Global Thin-film Solar Cell Production Value Forecast by Region (2025-2030) & (US\$ Million)

Table 94. Global Thin-film Solar Cell Production Value Market Share Forecast by Region (2025-2030)

Table 95. Global Thin-film Solar Cell Market Average Price (USD/W) by Region (2019-2024)

Table 96. Global Thin-film Solar Cell Consumption Comparison by Region: 2019 VS 2023 VS 2030 (MW)

Table 97. Global Thin-film Solar Cell Consumption by Region (2019-2024) & (MW)

Table 98. Global Thin-film Solar Cell Consumption Market Share by Region (2019-2024)

Table 99. Global Thin-film Solar Cell Forecasted Consumption by Region (2025-2030) & (MW)

Table 100. Global Thin-film Solar Cell Forecasted Consumption Market Share by Region (2025-2030)

Table 101. North America Thin-film Solar Cell Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (MW)

Table 102. North America Thin-film Solar Cell Consumption by Country (2019-2024) & (MW)

Table 103. North America Thin-film Solar Cell Consumption by Country (2025-2030) & (MW)

Table 104. Europe Thin-film Solar Cell Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (MW)

Table 105. Europe Thin-film Solar Cell Consumption by Country (2019-2024) & (MW)

Table 106. Europe Thin-film Solar Cell Consumption by Country (2025-2030) & (MW)

Table 107. Asia Pacific Thin-film Solar Cell Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (MW)

Table 108. Asia Pacific Thin-film Solar Cell Consumption by Country (2019-2024) & (MW)

Table 109. Asia Pacific Thin-film Solar Cell Consumption by Country (2025-2030) & (MW)

Table 110. Latin America, Middle East & Africa Thin-film Solar Cell Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (MW)

Table 111. Latin America, Middle East & Africa Thin-film Solar Cell Consumption by



Country (2019-2024) & (MW)

Table 112. Latin America, Middle East & Africa Thin-film Solar Cell Consumption by Country (2025-2030) & (MW)

Table 113. Global Thin-film Solar Cell Production by Type (2019-2024) & (MW)

Table 114. Global Thin-film Solar Cell Production by Type (2025-2030) & (MW)

Table 115. Global Thin-film Solar Cell Production Market Share by Type (2019-2024)

Table 116. Global Thin-film Solar Cell Production Market Share by Type (2025-2030)

Table 117. Global Thin-film Solar Cell Production Value by Type (2019-2024) & (US\$ Million)

Table 118. Global Thin-film Solar Cell Production Value by Type (2025-2030) & (US\$ Million)

Table 119. Global Thin-film Solar Cell Production Value Market Share by Type (2019-2024)

Table 120. Global Thin-film Solar Cell Production Value Market Share by Type (2025-2030)

Table 121. Global Thin-film Solar Cell Price by Type (2019-2024) & (USD/W)

Table 122. Global Thin-film Solar Cell Price by Type (2025-2030) & (USD/W)

Table 123. Global Thin-film Solar Cell Production by Application (2019-2024) & (MW)

Table 124. Global Thin-film Solar Cell Production by Application (2025-2030) & (MW)

Table 125. Global Thin-film Solar Cell Production Market Share by Application (2019-2024)

Table 126. Global Thin-film Solar Cell Production Market Share by Application (2025-2030)

Table 127. Global Thin-film Solar Cell Production Value by Application (2019-2024) & (US\$ Million)

Table 128. Global Thin-film Solar Cell Production Value by Application (2025-2030) & (US\$ Million)

Table 129. Global Thin-film Solar Cell Production Value Market Share by Application (2019-2024)

Table 130. Global Thin-film Solar Cell Production Value Market Share by Application (2025-2030)

Table 131. Global Thin-film Solar Cell Price by Application (2019-2024) & (USD/W)

Table 132. Global Thin-film Solar Cell Price by Application (2025-2030) & (USD/W)

Table 133. Key Raw Materials

Table 134. Raw Materials Key Suppliers

Table 135. Thin-film Solar Cell Distributors List

Table 136. Thin-film Solar Cell Customers List

Table 137. Thin-film Solar Cell Industry Trends

Table 138. Thin-film Solar Cell Industry Drivers



Table 139. Thin-film Solar Cell Industry Restraints

Table 140. Authors List of This Report



List Of Figures

LIST OF FIGURES

- Figure 1. Research Methodology
- Figure 2. Research Process
- Figure 3. Key Executives Interviewed
- Figure 4. Thin-film Solar CellProduct Picture
- Figure 5. Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
- Figure 6. CdTe Thin-Film Solar Cells Product Picture
- Figure 7. CIS/CIGS Thin-Film Solar Cells Product Picture
- Figure 8. A-Si Thin-Film Solar Cells Product Picture
- Figure 9. Residential Application Product Picture
- Figure 10. Commercial Application Product Picture
- Figure 11. Utility Application Product Picture
- Figure 12. Global Thin-film Solar Cell Production Value (US\$ Million), 2019 VS 2023 VS 2030
- Figure 13. Global Thin-film Solar Cell Production Value (2019-2030) & (US\$ Million)
- Figure 14. Global Thin-film Solar Cell Production Capacity (2019-2030) & (MW)
- Figure 15. Global Thin-film Solar Cell Production (2019-2030) & (MW)
- Figure 16. Global Thin-film Solar Cell Average Price (USD/W) & (2019-2030)
- Figure 17. Global Thin-film Solar Cell Key Manufacturers, Manufacturing Sites & Headquarters
- Figure 18. Global Thin-film Solar Cell Manufacturers, Date of Enter into This Industry
- Figure 19. Global Top 5 and 10 Thin-film Solar Cell Players Market Share by Production Valu in 2023
- Figure 20. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023
- Figure 21. Global Thin-film Solar Cell Production Comparison by Region: 2019 VS 2023 VS 2030 (MW)
- Figure 22. Global Thin-film Solar Cell Production Market Share by Region: 2019 VS 2023 VS 2030
- Figure 23. Global Thin-film Solar Cell Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)
- Figure 24. Global Thin-film Solar Cell Production Value Market Share by Region: 2019 VS 2023 VS 2030
- Figure 25. North America Thin-film Solar Cell Production Value (US\$ Million) Growth Rate (2019-2030)
- Figure 26. Europe Thin-film Solar Cell Production Value (US\$ Million) Growth Rate (2019-2030)



- Figure 27. China Thin-film Solar Cell Production Value (US\$ Million) Growth Rate (2019-2030)
- Figure 28. Global Thin-film Solar Cell Consumption Comparison by Region: 2019 VS 2023 VS 2030 (MW)
- Figure 29. Global Thin-film Solar Cell Consumption Market Share by Region: 2019 VS 2023 VS 2030
- Figure 30. North America Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 31. North America Thin-film Solar Cell Consumption Market Share by Country (2019-2030)
- Figure 32. United States Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 33. Canada Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 34. Europe Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 35. Europe Thin-film Solar Cell Consumption Market Share by Country (2019-2030)
- Figure 36. Germany Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 37. France Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 38. U.K. Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 39. Italy Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 40. Netherlands Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 41. Asia Pacific Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 42. Asia Pacific Thin-film Solar Cell Consumption Market Share by Country (2019-2030)
- Figure 43. China Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 44. Japan Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 45. South Korea Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 46. China Taiwan Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)
- Figure 47. Southeast Asia Thin-film Solar Cell Consumption and Growth Rate



(2019-2030) & (MW)

Figure 48. India Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)

Figure 49. Australia Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)

Figure 50. Latin America, Middle East & Africa Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)

Figure 51. Latin America, Middle East & Africa Thin-film Solar Cell Consumption Market Share by Country (2019-2030)

Figure 52. Mexico Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)

Figure 53. Brazil Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)

Figure 54. Turkey Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)

Figure 55. GCC Countries Thin-film Solar Cell Consumption and Growth Rate (2019-2030) & (MW)

Figure 56. Global Thin-film Solar Cell Production Market Share by Type (2019-2030)

Figure 57. Global Thin-film Solar Cell Production Value Market Share by Type (2019-2030)

Figure 58. Global Thin-film Solar Cell Price (USD/W) by Type (2019-2030)

Figure 59. Global Thin-film Solar Cell Production Market Share by Application (2019-2030)

Figure 60. Global Thin-film Solar Cell Production Value Market Share by Application (2019-2030)

Figure 61. Global Thin-film Solar Cell Price (USD/W) by Application (2019-2030)

Figure 62. Thin-film Solar Cell Value Chain

Figure 63. Thin-film Solar Cell Production Mode & Process

Figure 64. Direct Comparison with Distribution Share

Figure 65. Distributors Profiles

Figure 66. Thin-film Solar Cell Industry Opportunities and Challenges



I would like to order

Product name: Thin-film Solar Cell Industry Research Report 2024

Product link: https://marketpublishers.com/r/TF45A9F83EC7EN.html

Price: US\$ 2,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/TF45A9F83EC7EN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:	
Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970