

Global Solar Carport Market Size study & Forecast, by Type (1-row vehicle arrangement carport, 2-row single slope vehicle arrangement, 2-row dual slope vehicle arrangement), by Application (Commercial, Non-profit, Other) and Regional Analysis, 2023-2030

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Abstracts

Global Solar Carport Market is valued at approximately USD 415.63 million in 2022 and is anticipated to grow with a healthy growth rate of more than 10.4% over the forecast period 2023-2030. A solar carport is designed to provide shelter and protection for vehicles while also generating solar electricity using photovoltaic panels mounted on its roof. These structures are typically installed in parking lots, residential driveways, or commercial facilities and serve a dual purpose: providing shade or shelter for parked vehicles and generating clean, renewable energy from the sun. The key factors driving the market growth are the rising adoption of solar energy, cohesive government incentives and policies, and the rising Electric Vehicle (EV) charging infrastructure that anticipated to support the market growth.

Moreover, as the world moves towards reducing carbon emissions and combating climate change, the demand for solar energy solutions, including solar carports, has increased. Many governments and businesses are looking to transition to cleaner energy alternatives, creating a favorable market environment for solar carports. For instance, in 2020, the global cumulative installed solar PV capacity was 7,72,200 megawatts and the adoption of solar energy increased significantly and the number reached 1,177,000 megawatts in 2022. Additionally, increasing research and development activities and growing technological advancement is anticipated to create the lucrative opportunity for the market over the projected period. However, space constraints and structural considerations stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Solar Carport Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to the rising awareness of solar energy, supportive incentives, and policies, growing technological advancements, and the presence of key market players. Whereas, Asia Pacific is expected to grow with the highest CAGR over the forecast period, owing to factors such as rising environmental concerns, growing technological advancements, and supportive government incentives and policies.

Major market player included in this report are:

Tata Power (India)
Antai Technology Co. Ltd (China)
Kokko Shisetsu Kogyo Co., Ltd (Japan)
Cenergy Power (U.S.)
Positive Energy Solar (U.S.)
Chikousa (U.S.)
RenEnergy Ltd. (U.K.)
SunPower Corporation (U.S.)
Flexi Solar Private Limited (U.K.)
Schletter GmbH (Germany)

Recent Developments in the Market:

In Nov 2021, Sol Systems, in collaboration with Capital Dynamics, a global infrastructure investment firm, successfully executed the construction of 6.5MW of solar arrays across seven Walmart stores in California. This comprehensive portfolio comprises an assortment of solar panels situated on both the rooftops and parking lot carports of these stores. The generated energy will be utilized exclusively for retail operations. Notably, this initiative, managed by Sol Customer Solutions, commenced its construction phase in 2020.

Global Solar Carport Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

- 1-row vehicle arrangement carport
- 2-row single slope vehicle arrangement
- 2-row dual slope vehicle arrangement

By Application:

- Commercial
- Non-profit
- Other

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Million)
 - 1.2.1. Solar Carport Market, by Region, 2020-2030 (USD Million)
 - 1.2.2. Solar Carport Market, by Type, 2020-2030 (USD Million)
 - 1.2.3. Solar Carport Market, by Application, 2020-2030 (USD Million)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. GLOBAL SOLAR CARPORT MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. GLOBAL SOLAR CARPORT MARKET DYNAMICS

- 3.1. Solar Carport Market Impact Analysis (2020-2030)
 - 3.1.1. Market Drivers
 - 3.1.1.1. Rising adoption of solar energy
 - 3.1.1.2. Cohesive government incentives and policies
 - 3.1.1.3. Rising Electric Vehicle (EV) charging infrastructure
 - 3.1.2. Market Challenges
 - 3.1.2.1. Space constraints and structural considerations
 - 3.1.3. Market Opportunities
 - 3.1.3.1. Growing research and development activities
 - 3.1.3.2. Growing technological advancement

CHAPTER 4. GLOBAL SOLAR CARPORT MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Suppliers

- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL SOLAR CARPORT MARKET, BY TYPE

- 5.1. Market Snapshot
- 5.2. Global Solar Carport Market by Type, Performance - Potential Analysis
- 5.3. Global Solar Carport Market Estimates & Forecasts by Type 2020-2030 (USD Million)
- 5.4. Solar Carport Market, Sub Segment Analysis
 - 5.4.1. 1-row vehicle arrangement carport
 - 5.4.2. 2-row single slope vehicle arrangement
 - 5.4.3. 2-row dual slope vehicle arrangement

CHAPTER 6. GLOBAL SOLAR CARPORT MARKET, BY APPLICATION

- 6.1. Market Snapshot
- 6.2. Global Solar Carport Market by Application, Performance - Potential Analysis
- 6.3. Global Solar Carport Market Estimates & Forecasts by Application 2020-2030 (USD Million)
- 6.4. Solar Carport Market, Sub Segment Analysis
 - 6.4.1. Commercial
 - 6.4.2. Non-profit

6.4.3. Other

CHAPTER 7. GLOBAL SOLAR CARPORT MARKET, REGIONAL ANALYSIS

7.1. Top Leading Countries

7.2. Top Emerging Countries

7.3. Solar Carport Market, Regional Market Snapshot

7.4. North America Solar Carport Market

7.4.1. U.S. Solar Carport Market

7.4.1.1. Type breakdown estimates & forecasts, 2020-2030

7.4.1.2. Application breakdown estimates & forecasts, 2020-2030

7.4.2. Canada Solar Carport Market

7.5. Europe Solar Carport Market Snapshot

7.5.1. U.K. Solar Carport Market

7.5.2. Germany Solar Carport Market

7.5.3. France Solar Carport Market

7.5.4. Spain Solar Carport Market

7.5.5. Italy Solar Carport Market

7.5.6. Rest of Europe Solar Carport Market

7.6. Asia-Pacific Solar Carport Market Snapshot

7.6.1. China Solar Carport Market

7.6.2. India Solar Carport Market

7.6.3. Japan Solar Carport Market

7.6.4. Australia Solar Carport Market

7.6.5. South Korea Solar Carport Market

7.6.6. Rest of Asia Pacific Solar Carport Market

7.7. Latin America Solar Carport Market Snapshot

7.7.1. Brazil Solar Carport Market

7.7.2. Mexico Solar Carport Market

7.8. Middle East & Africa Solar Carport Market

7.8.1. Saudi Arabia Solar Carport Market

7.8.2. South Africa Solar Carport Market

7.8.3. Rest of Middle East & Africa Solar Carport Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Key Company SWOT Analysis

8.1.1. Company

8.1.2. Company

- 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Tata Power (India)
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Recent Developments
 - 8.3.2. Antai Technology Co. Ltd (China)
 - 8.3.3. Kokko Shisetsu Kogyo Co., Ltd (Japan)
 - 8.3.4. Cenergy Power (U.S.)
 - 8.3.5. Positive Energy Solar (U.S.)
 - 8.3.6. Chikousa (U.S.)
 - 8.3.7. RenEnergy Ltd. (U.K.)
 - 8.3.8. SunPower Corporation (U.S.)
 - 8.3.9. Flexi Solar Private Limited (U.K.)
 - 8.3.10. Schletter GmbH (Germany)

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining
 - 9.1.2. Analysis
 - 9.1.3. Market Estimation
 - 9.1.4. Validation
 - 9.1.5. Publishing
- 9.2. Research Attributes
- 9.3. Research Assumption

List Of Tables

LIST OF TABLES

TABLE 1. Global Solar Carport Market, report scope

TABLE 2. Global Solar Carport Market estimates & forecasts by region 2020-2030
(USD Million)

TABLE 3. Global Solar Carport Market estimates & forecasts by Type 2020-2030 (USD
Million)

TABLE 4. Global Solar Carport Market estimates & forecasts by Application 2020-2030
(USD Million)

TABLE 5. Global Solar Carport Market by segment, estimates & forecasts, 2020-2030
(USD Million)

TABLE 6. Global Solar Carport Market by region, estimates & forecasts, 2020-2030
(USD Million)

TABLE 7. Global Solar Carport Market by segment, estimates & forecasts, 2020-2030
(USD Million)

TABLE 8. Global Solar Carport Market by region, estimates & forecasts, 2020-2030
(USD Million)

TABLE 9. Global Solar Carport Market by segment, estimates & forecasts, 2020-2030
(USD Million)

TABLE 10. Global Solar Carport Market by region, estimates & forecasts, 2020-2030
(USD Million)

TABLE 11. Global Solar Carport Market by segment, estimates & forecasts, 2020-2030
(USD Million)

TABLE 12. Global Solar Carport Market by region, estimates & forecasts, 2020-2030
(USD Million)

TABLE 13. Global Solar Carport Market by segment, estimates & forecasts, 2020-2030
(USD Million)

TABLE 14. Global Solar Carport Market by region, estimates & forecasts, 2020-2030
(USD Million)

TABLE 15. U.S. Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 16. U.S. Solar Carport Market estimates & forecasts by segment 2020-2030
(USD Million)

TABLE 17. U.S. Solar Carport Market estimates & forecasts by segment 2020-2030
(USD Million)

TABLE 18. Canada Solar Carport Market estimates & forecasts, 2020-2030 (USD
Million)

TABLE 19. Canada Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 20. Canada Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 21. UK Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 22. UK Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 23. UK Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 24. Germany Solar Carport Market estimates & forecasts, 2020-2030 (USD

Million)

TABLE 25. Germany Solar Carport Market estimates & forecasts by segment

2020-2030 (USD Million)

TABLE 26. Germany Solar Carport Market estimates & forecasts by segment

2020-2030 (USD Million)

TABLE 27. France Solar Carport Market estimates & forecasts, 2020-2030 (USD

Million)

TABLE 28. France Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 29. France Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 30. Italy Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 31. Italy Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 32. Italy Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 33. Spain Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 34. Spain Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 35. Spain Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 36. RoE Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 37. RoE Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 38. RoE Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 39. China Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 40. China Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 41. China Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 42. India Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 43. India Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 44. India Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 45. Japan Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 46. Japan Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 47. Japan Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 48. South Korea Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 49. South Korea Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 50. South Korea Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 51. Australia Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 52. Australia Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 53. Australia Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 54. RoAPAC Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 55. RoAPAC Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 56. RoAPAC Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 57. Brazil Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 58. Brazil Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 59. Brazil Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 60. Mexico Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 61. Mexico Solar Carport Market estimates & forecasts by segment 2020-2030 (USD Million)

TABLE 62. Mexico Solar Carport Market estimates & forecasts by segment 2020-2030

(USD Million)

TABLE 63. RoLA Solar Carport Market estimates & forecasts, 2020-2030 (USD Million)

TABLE 64. RoLA Solar Carport Market estimates & forecasts by segment 2020-2030
(USD Million)

TABLE 65. RoLA Solar Carport Market estimates & forecasts by segment 2020-2030
(USD Million)

TABLE 66. Saudi Arabia Solar Carport Market estimates & forecasts, 2020-2030 (USD
Million)

TABLE 67. South Africa Solar Carport Market estimates & forecasts by segment
2020-2030 (USD Million)

TABLE 68. RoMEA Solar Carport Market estimates & forecasts by segment 2020-2030
(USD Million)

TABLE 69. List of secondary sources, used in the study of global Solar Carport Market

TABLE 70. List of primary sources, used in the study of global Solar Carport Market

TABLE 71. Years considered for the study

TABLE 72. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final
deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Solar Carport Market, research methodology
 - FIG 2. Global Solar Carport Market, Market estimation techniques
 - FIG 3. Global Market size estimates & forecast methods
 - FIG 4. Global Solar Carport Market, key trends 2022
 - FIG 5. Global Solar Carport Market, growth prospects 2023-2030
 - FIG 6. Global Solar Carport Market, porters 5 force model
 - FIG 7. Global Solar Carport Market, pest analysis
 - FIG 8. Global Solar Carport Market, value chain analysis
 - FIG 9. Global Solar Carport Market by segment, 2020 & 2030 (USD Million)
 - FIG 10. Global Solar Carport Market by segment, 2020 & 2030 (USD Million)
 - FIG 11. Global Solar Carport Market by segment, 2020 & 2030 (USD Million)
 - FIG 12. Global Solar Carport Market by segment, 2020 & 2030 (USD Million)
 - FIG 13. Global Solar Carport Market by segment, 2020 & 2030 (USD Million)
 - FIG 14. Global Solar Carport Market, regional snapshot 2020 & 2030
 - FIG 15. North America Solar Carport Market 2020 & 2030 (USD Million)
 - FIG 16. Europe Solar Carport Market 2020 & 2030 (USD Million)
 - FIG 17. Asia pacific Solar Carport Market 2020 & 2030 (USD Million)
 - FIG 18. Latin America Solar Carport Market 2020 & 2030 (USD Million)
 - FIG 19. Middle East & Africa Solar Carport Market 2020 & 2030 (USD Million)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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