

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

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