

Solar Carport Market By Design Type (T-Shape, V-Shape, L-Shape, Y-Shape), By Vehicle Arrangement (One-Row, Double-Row), By Application (Commercial, Residential, Industrial): Global Opportunity Analysis and Industry Forecast, 2023-2032

<https://marketpublishers.com/r/S1606BED3A1DEN.html>

Date: April 2024

Pages: 323

Price: US\$ 3,570.00 (Single User License)

ID: S1606BED3A1DEN

Abstracts

The global solar carport market was valued at \$0.8 Billion in 2022, and is projected to reach \$1.7 Billion by 2032, registering a CAGR of 8.1% from 2023 to 2032.

A solar carport is a type of parking facility that uses solar panels to generate electricity and shelter cars. The solar panels are fixed to the top of the carport's roof, where they collect sunlight and convert it into energy. The solar carport market is expanding due to the growing need for environmentally friendly transportation and sustainable and renewable energy sources.

Solar carports are advantageous as they protect and shelter automobiles while also saving energy costs and promoting sustainability by producing clean energy. They provide defense against a range of weather conditions, including snow, hail, rain, and strong sunshine, all of which have the potential to harm cars over time. By offering shade, they also help keep cars' interior temperatures lower during hot weather. Solar carports are flexible and adjustable to suit a range of locations and tastes as they are available in an assortment of sizes and designs. Owing to these advantages, solar carports have become more popular in both residential and commercial settings, which drives market expansion.

Solar carports have emerged as an innovative solution in response to the growing

emphasis on renewable energy sources. These structures, featuring solar panels on their roofs, serve a dual purpose: generating electricity and providing shade and shelter for parked vehicles. This dual functionality aligns with the contemporary focus on sustainability and efficiency.

Urban areas, characterized by increasing population density, have seen a surge in the adoption of solar carports. Their versatility allows them to be integrated into various urban development projects, addressing the challenge of limited space availability. Whether installed in parking lots, on rooftops, or as standalone structures, solar carports contribute to optimizing space utilization while promoting renewable energy generation.

Furthermore, the rise of electric vehicles (EVs) has augmented the appeal of solar carports. These structures incorporate EV charging stations, offering a convenient and eco-friendly solution for vehicle owners. This integration underscores the evolving landscape of transportation infrastructure toward sustainability and clean energy adoption.

Governments across the globe build solar power facilities. For instance, the Abu Dhabi National Energy Company (Taqa)-led consortium and Masdar, a government organization, announced in July 2020 that the Emirates Water and Electricity Company (EWEC) would construct a 2-GW solar photovoltaic (PV) facility at Al Dhafra, Abu Dhabi. The goal of this project was to help the UAE meet its goal of obtaining about 44% of its electricity from renewable sources by the year 2050.

The global solar carport market was severely affected by the COVID-19 pandemic, which led to disturbances in the supply chain and production procedures. The dynamics of the market were impacted by fluctuating demand and economic uncertainty. Despite these obstacles, the market quickly rebounded due to the defense industry's increased investment in the purchase of solar PV for its solar carport.

The market is propelled by the numerous advances in technology that are being incorporated into solar products and components, offering substantial prospects for the industry's growth. For example, Princeton University researchers produced the first commercially feasible perovskite solar cells in June 2022. The creation of these cells requires less energy and is done at room temperature, which lowers production costs and helps solar PV manufacturing companies grow.

Solar carports are anticipated to be installed in shopping malls, schools,

supermarkets, office buildings, and EV charging stations during the forecast period. Commercial solar carports also help businesses become more environmentally conscious by improving customer and employee parking and offering free advertising space. These advantages of solar carports for business use are anticipated to boost the market expansion.

The demand for renewable energy solutions is expanding as a result of greater awareness of the negative environmental effects of traditional energy sources. There is a growing trend of combining commercial solar carports with EV charging infrastructure as the use of electric vehicles (EVs) increases. This facilitates the shift to sustainable transportation by allowing businesses to offer convenient charging facilities for electric vehicle owners in addition to renewable energy for their operations. Commercial solar carports have higher initial installation costs than standard carports or parking structures. A sizable space is needed for solar carports in order to fit the parking spots and the solar panel array.

The solar carport market is segmented by design type, vehicle arrangement, application, and region. By design type, the market is categorized into V-Shape, T-Shape, L-Shape and Y-Shape, V-Frame, T-Frame, and Others. By vehicle arrangement, it is bifurcated into one row and double row. On the basis of application, the market is classified into commercial, residential, and industrial.

Region wise, the solar carport market trends are analyzed across North America (U.S., Canada, and Mexico), Europe (UK, Germany, France, Russia, and rest of Europe), Asia-Pacific (China, India, Japan, South Korea, and rest of Asia-Pacific), Latin America (Brazil, Argentina and Rest of Latin America) and Middle East and Africa (Saudi Arabia, UAE, Israel, Africa and Rest of Middle East and Africa).

Competitive analysis and profiles of the major global solar carport market players that have been provided in the report include Antai Solar, Enerparc, Ganges International, Mahindra Solarize, Positive Energy Solar, Reenergy, Schletter, Himzen, Quest Renewables, INC., and Mahindra Solarize. The key strategies adopted by the major players of the global market are product launch, mergers, and acquisitions.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the solar carport market analysis from 2022 to 2032 to identify the

prevailing solar carport market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the solar carport market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global solar carport market trends, key players, market segments, application areas, and market growth strategies.

Additional benefits you will get with this purchase are:

Quarterly Update and* (only available with a corporate license, on listed price)

5 additional Company Profile of client Choice pre- or Post-purchase, as a free update.

Free Upcoming Version on the Purchase of Five and Enterprise User License.

16 analyst hours of support* (post-purchase, if you find additional data requirements upon review of the report, you may receive support amounting to 16 analyst hours to solve questions, and post-sale queries)

15% Free Customization* (in case the scope or segment of the report does not match your requirements, 15% is equivalent to 3 working

days of free work, applicable once)

Free data Pack on the Five and Enterprise User License. (Excel version of the report)

Free Updated report if the report is 6-12 months old or older.

24-hour priority response*

Free Industry updates and white papers.

Possible Customization with this report (with additional cost and timeline, please talk to the sales executive to know more)

Installed Base analysis

New Product Development/ Product Matrix of Key Players

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Historic market data

Key Market Segments

By Design Type

T-Shape

V-Shape

L-Shape

Y-Shape

By Vehicle Arrangement

One-Row

Double-Row

By Application

Commercial

Residential

Industrial

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

Latin America

Brazil

Argentina

Rest of Latin America

Middle East and Africa

Saudi Arabia

UAE

Israel

Africa

Rest of Middle East And Africa

Key Market Players

Enerparc

Ganges International

Mahindra Solarize

Positive Energy Solar

Reenergy

Schletter

Himzen

Quest Renewables, INC.

Antai Solar

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key market segments
- 1.3. Key benefits to the stakeholders
- 1.4. Research methodology
 - 1.4.1. Primary research
 - 1.4.2. Secondary research
 - 1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO perspective

CHAPTER 3: MARKET OVERVIEW

- 3.1. Market definition and scope
- 3.2. Key findings
 - 3.2.1. Top impacting factors
 - 3.2.2. Top investment pockets
- 3.3. Porter's Five Forces Analysis
- 3.4. Market dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: SOLAR CARPORT MARKET, BY DESIGN TYPE

- 4.1. Overview
 - 4.1.1. Market size and forecast
- 4.2. T-Shape
 - 4.2.1. Key market trends, growth factors and opportunities
 - 4.2.2. Market size and forecast, by region
 - 4.2.3. Market share analysis by country
- 4.3. V-Shape
 - 4.3.1. Key market trends, growth factors and opportunities
 - 4.3.2. Market size and forecast, by region

4.3.3. Market share analysis by country

4.4. L-Shape

4.4.1. Key market trends, growth factors and opportunities

4.4.2. Market size and forecast, by region

4.4.3. Market share analysis by country

4.5. Y-Shape

4.5.1. Key market trends, growth factors and opportunities

4.5.2. Market size and forecast, by region

4.5.3. Market share analysis by country

CHAPTER 5: SOLAR CARPORT MARKET, BY VEHICLE ARRANGEMENT

5.1. Overview

5.1.1. Market size and forecast

5.2. One-Row

5.2.1. Key market trends, growth factors and opportunities

5.2.2. Market size and forecast, by region

5.2.3. Market share analysis by country

5.3. Double-Row

5.3.1. Key market trends, growth factors and opportunities

5.3.2. Market size and forecast, by region

5.3.3. Market share analysis by country

CHAPTER 6: SOLAR CARPORT MARKET, BY APPLICATION

6.1. Overview

6.1.1. Market size and forecast

6.2. Commercial

6.2.1. Key market trends, growth factors and opportunities

6.2.2. Market size and forecast, by region

6.2.3. Market share analysis by country

6.3. Residential

6.3.1. Key market trends, growth factors and opportunities

6.3.2. Market size and forecast, by region

6.3.3. Market share analysis by country

6.4. Industrial

6.4.1. Key market trends, growth factors and opportunities

6.4.2. Market size and forecast, by region

6.4.3. Market share analysis by country

CHAPTER 7: SOLAR CARPORT MARKET, BY REGION

7.1. Overview

7.1.1. Market size and forecast By Region

7.2. North America

7.2.1. Key market trends, growth factors and opportunities

7.2.2. Market size and forecast, by Design Type

7.2.3. Market size and forecast, by Vehicle Arrangement

7.2.4. Market size and forecast, by Application

7.2.5. Market size and forecast, by country

7.2.5.1. U.S.

7.2.5.1.1. Market size and forecast, by Design Type

7.2.5.1.2. Market size and forecast, by Vehicle Arrangement

7.2.5.1.3. Market size and forecast, by Application

7.2.5.2. Canada

7.2.5.2.1. Market size and forecast, by Design Type

7.2.5.2.2. Market size and forecast, by Vehicle Arrangement

7.2.5.2.3. Market size and forecast, by Application

7.2.5.3. Mexico

7.2.5.3.1. Market size and forecast, by Design Type

7.2.5.3.2. Market size and forecast, by Vehicle Arrangement

7.2.5.3.3. Market size and forecast, by Application

7.3. Europe

7.3.1. Key market trends, growth factors and opportunities

7.3.2. Market size and forecast, by Design Type

7.3.3. Market size and forecast, by Vehicle Arrangement

7.3.4. Market size and forecast, by Application

7.3.5. Market size and forecast, by country

7.3.5.1. UK

7.3.5.1.1. Market size and forecast, by Design Type

7.3.5.1.2. Market size and forecast, by Vehicle Arrangement

7.3.5.1.3. Market size and forecast, by Application

7.3.5.2. Germany

7.3.5.2.1. Market size and forecast, by Design Type

7.3.5.2.2. Market size and forecast, by Vehicle Arrangement

7.3.5.2.3. Market size and forecast, by Application

7.3.5.3. France

7.3.5.3.1. Market size and forecast, by Design Type

- 7.3.5.3.2. Market size and forecast, by Vehicle Arrangement
- 7.3.5.3.3. Market size and forecast, by Application
- 7.3.5.4. Russia
 - 7.3.5.4.1. Market size and forecast, by Design Type
 - 7.3.5.4.2. Market size and forecast, by Vehicle Arrangement
 - 7.3.5.4.3. Market size and forecast, by Application
- 7.3.5.5. Rest of Europe
 - 7.3.5.5.1. Market size and forecast, by Design Type
 - 7.3.5.5.2. Market size and forecast, by Vehicle Arrangement
 - 7.3.5.5.3. Market size and forecast, by Application
- 7.4. Asia-Pacific
 - 7.4.1. Key market trends, growth factors and opportunities
 - 7.4.2. Market size and forecast, by Design Type
 - 7.4.3. Market size and forecast, by Vehicle Arrangement
 - 7.4.4. Market size and forecast, by Application
 - 7.4.5. Market size and forecast, by country
 - 7.4.5.1. China
 - 7.4.5.1.1. Market size and forecast, by Design Type
 - 7.4.5.1.2. Market size and forecast, by Vehicle Arrangement
 - 7.4.5.1.3. Market size and forecast, by Application
 - 7.4.5.2. Japan
 - 7.4.5.2.1. Market size and forecast, by Design Type
 - 7.4.5.2.2. Market size and forecast, by Vehicle Arrangement
 - 7.4.5.2.3. Market size and forecast, by Application
 - 7.4.5.3. India
 - 7.4.5.3.1. Market size and forecast, by Design Type
 - 7.4.5.3.2. Market size and forecast, by Vehicle Arrangement
 - 7.4.5.3.3. Market size and forecast, by Application
 - 7.4.5.4. South Korea
 - 7.4.5.4.1. Market size and forecast, by Design Type
 - 7.4.5.4.2. Market size and forecast, by Vehicle Arrangement
 - 7.4.5.4.3. Market size and forecast, by Application
 - 7.4.5.5. Rest of Asia-Pacific
 - 7.4.5.5.1. Market size and forecast, by Design Type
 - 7.4.5.5.2. Market size and forecast, by Vehicle Arrangement
 - 7.4.5.5.3. Market size and forecast, by Application
- 7.5. Latin America
 - 7.5.1. Key market trends, growth factors and opportunities
 - 7.5.2. Market size and forecast, by Design Type

- 7.5.3. Market size and forecast, by Vehicle Arrangement
- 7.5.4. Market size and forecast, by Application
- 7.5.5. Market size and forecast, by country
 - 7.5.5.1. Brazil
 - 7.5.5.1.1. Market size and forecast, by Design Type
 - 7.5.5.1.2. Market size and forecast, by Vehicle Arrangement
 - 7.5.5.1.3. Market size and forecast, by Application
 - 7.5.5.2. Argentina
 - 7.5.5.2.1. Market size and forecast, by Design Type
 - 7.5.5.2.2. Market size and forecast, by Vehicle Arrangement
 - 7.5.5.2.3. Market size and forecast, by Application
 - 7.5.5.3. Rest of Latin America
 - 7.5.5.3.1. Market size and forecast, by Design Type
 - 7.5.5.3.2. Market size and forecast, by Vehicle Arrangement
 - 7.5.5.3.3. Market size and forecast, by Application
- 7.6. Middle East and Africa
 - 7.6.1. Key market trends, growth factors and opportunities
 - 7.6.2. Market size and forecast, by Design Type
 - 7.6.3. Market size and forecast, by Vehicle Arrangement
 - 7.6.4. Market size and forecast, by Application
 - 7.6.5. Market size and forecast, by country
 - 7.6.5.1. Saudi Arabia
 - 7.6.5.1.1. Market size and forecast, by Design Type
 - 7.6.5.1.2. Market size and forecast, by Vehicle Arrangement
 - 7.6.5.1.3. Market size and forecast, by Application
 - 7.6.5.2. UAE
 - 7.6.5.2.1. Market size and forecast, by Design Type
 - 7.6.5.2.2. Market size and forecast, by Vehicle Arrangement
 - 7.6.5.2.3. Market size and forecast, by Application
 - 7.6.5.3. Israel
 - 7.6.5.3.1. Market size and forecast, by Design Type
 - 7.6.5.3.2. Market size and forecast, by Vehicle Arrangement
 - 7.6.5.3.3. Market size and forecast, by Application
 - 7.6.5.4. Africa
 - 7.6.5.4.1. Market size and forecast, by Design Type
 - 7.6.5.4.2. Market size and forecast, by Vehicle Arrangement
 - 7.6.5.4.3. Market size and forecast, by Application
 - 7.6.5.5. Rest of Middle East And Africa
 - 7.6.5.5.1. Market size and forecast, by Design Type

7.6.5.5.2. Market size and forecast, by Vehicle Arrangement

7.6.5.5.3. Market size and forecast, by Application

CHAPTER 8: COMPETITIVE LANDSCAPE

8.1. Introduction

8.2. Top winning strategies

8.3. Product mapping of top 10 player

8.4. Competitive dashboard

8.5. Competitive heatmap

8.6. Top player positioning, 2022

CHAPTER 9: COMPANY PROFILES

9.1. Antai Solar

9.1.1. Company overview

9.1.2. Key executives

9.1.3. Company snapshot

9.1.4. Operating business segments

9.1.5. Product portfolio

9.1.6. Business performance

9.1.7. Key strategic moves and developments

9.2. Enerparc

9.2.1. Company overview

9.2.2. Key executives

9.2.3. Company snapshot

9.2.4. Operating business segments

9.2.5. Product portfolio

9.2.6. Business performance

9.2.7. Key strategic moves and developments

9.3. Ganges International

9.3.1. Company overview

9.3.2. Key executives

9.3.3. Company snapshot

9.3.4. Operating business segments

9.3.5. Product portfolio

9.3.6. Business performance

9.3.7. Key strategic moves and developments

9.4. Mahindra Solarize

- 9.4.1. Company overview
- 9.4.2. Key executives
- 9.4.3. Company snapshot
- 9.4.4. Operating business segments
- 9.4.5. Product portfolio
- 9.4.6. Business performance
- 9.4.7. Key strategic moves and developments
- 9.5. Positive Energy Solar
 - 9.5.1. Company overview
 - 9.5.2. Key executives
 - 9.5.3. Company snapshot
 - 9.5.4. Operating business segments
 - 9.5.5. Product portfolio
 - 9.5.6. Business performance
 - 9.5.7. Key strategic moves and developments
- 9.6. Reenergy
 - 9.6.1. Company overview
 - 9.6.2. Key executives
 - 9.6.3. Company snapshot
 - 9.6.4. Operating business segments
 - 9.6.5. Product portfolio
 - 9.6.6. Business performance
 - 9.6.7. Key strategic moves and developments
- 9.7. Schletter
 - 9.7.1. Company overview
 - 9.7.2. Key executives
 - 9.7.3. Company snapshot
 - 9.7.4. Operating business segments
 - 9.7.5. Product portfolio
 - 9.7.6. Business performance
 - 9.7.7. Key strategic moves and developments
- 9.8. Himzen
 - 9.8.1. Company overview
 - 9.8.2. Key executives
 - 9.8.3. Company snapshot
 - 9.8.4. Operating business segments
 - 9.8.5. Product portfolio
 - 9.8.6. Business performance
 - 9.8.7. Key strategic moves and developments

9.9. Quest Renewables, INC.

9.9.1. Company overview

9.9.2. Key executives

9.9.3. Company snapshot

9.9.4. Operating business segments

9.9.5. Product portfolio

9.9.6. Business performance

9.9.7. Key strategic moves and developments

I would like to order

Product name: Solar Carport Market By Design Type (T-Shape, V-Shape, L-Shape, Y-Shape), By Vehicle Arrangement (One-Row, Double-Row), By Application (Commercial, Residential, Industrial): Global Opportunity Analysis and Industry Forecast, 2023-2032

Product link: <https://marketpublishers.com/r/S1606BED3A1DEN.html>

Price: US\$ 3,570.00 (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/S1606BED3A1DEN.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**

Customer 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