

Solar Vehicle Market: Global Industry Analysis, Trends, Market Size, and Forecasts up to 2032

Market Report | 2025-03-31 | 300 pages | Infinium Global Research and Consulting Solutions

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Report description:

The report on the global solar vehicle market provides qualitative and quantitative analysis for the period from 2022-2032. The global solar vehicle market was valued at USD 331.68 million in 2023 and is expected to reach USD 6,255.20 million in 2032, with a CAGR of 38.63% during the forecast period of 2024-2032. The study on solar vehicle market covers the analysis of the leading geographies such as North America, Europe, Asia Pacific, and RoW for the period of 2022-2032.

The report on solar vehicle market is a comprehensive study and presentation of drivers, restraints, opportunities, demand factors, market size, forecasts, and trends in the global solar vehicle market over the period of 2022-2032. Moreover, the report is a collective presentation of primary and secondary research findings.

Porter's five forces model in the report provides insights into the competitive rivalry, supplier and buyer positions in the market and opportunities for the new entrants in the global solar vehicle market over the period of 2022-2032. Further, IGR- Growth Matrix gave in the report brings an insight into the investment areas that existing or new market players can consider.

Report Findings

1) Drivers

- The growing environmental concerns are driving the growth of the solar vehicle market.
- Government support and regulations are expected to stimulate the growth of the market.

2) Restraints

- The limited range and energy conversion inefficiency can hamper the growth of the solar vehicle market.

3) Opportunities

- The advancements in battery technology and solar cell efficiency offer opportunities for market growth.

Research Methodology

A) Primary Research

Our primary research involves extensive interviews and analysis of the opinions provided by the primary respondents. The primary research starts with identifying and approaching the primary respondents, the primary respondents are approached

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include

1. Key Opinion Leaders associated with Infinium Global Research
2. Internal and External subject matter experts
3. Professionals and participants from the industry

Our primary research respondents typically include

1. Executives working with leading companies in the market under review
2. Product/brand/marketing managers
3. CXO level executives
4. Regional/zonal/ country managers
5. Vice President level executives.

B) Secondary Research

Secondary research involves extensive exploring through the secondary sources of information available in both the public domain and paid sources. At Infinium Global Research, each research study is based on over 500 hours of secondary research accompanied by primary research. The information obtained through the secondary sources is validated through the crosscheck on various data sources.

The secondary sources of the data typically include

1. Company reports and publications
2. Government/institutional publications
3. Trade and associations journals
4. Databases such as WTO, OECD, World Bank, and among others.
5. Websites and publications by research agencies

Segment Covered

The global solar vehicle market is segmented on the basis of electric vehicle type, vehicle type, battery type, and solar panel type.

The Global Solar Vehicle Market by Electric Vehicle Type

- Battery Electric Vehicle
- Hybrid Electric Vehicle
- Plug-in Hybrid Electric Vehicle

The Global Solar Vehicle Market by Vehicle Type

- Passenger Vehicle
- Commercial Vehicle

The Global Solar Vehicle Market by Battery Type

- Lithium-ion
- Lead-acid
- Others

The Global Solar Vehicle Market by Solar Panel Type

- Monocrystalline
- Polycrystalline

Company Profiles

The companies covered in the report include

- TOYOTA MOTOR CORPORATION

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- Astrolab Venturi
- Sono Motors
- Aptera Motors Corp
- Hyundai Motor Company
- Scania
- Vayve Mobility Private Limited
- Lightyear
- Squad Mobility B.V.
- Kia Corporation

What does this Report Deliver?

1. Comprehensive analysis of the global as well as regional markets of the solar vehicle market.
2. Complete coverage of all the segments in the solar vehicle market to analyze the trends, developments in the global market and forecast of market size up to 2032.
3. Comprehensive analysis of the companies operating in the global solar vehicle market. The company profile includes analysis of product portfolio, revenue, SWOT analysis and latest developments of the company.
4. IGR- Growth Matrix presents an analysis of the product segments and geographies that market players should focus to invest, consolidate, expand and/or diversify.

Table of Contents:

Table of Content

Chapter 1. Preface

- 1.1. Report Description
- 1.2. Research Methods
- 1.3. Research Approaches

Chapter 2. Executive Summary

- 2.1. Solar Vehicle Market Highlights
- 2.2. Solar Vehicle Market Projection
- 2.3. Solar Vehicle Market Regional Highlights

Chapter 3. Global Solar Vehicle Market Overview

- 3.1. Introduction
- 3.2. Market Dynamics
 - 3.2.1. Drivers
 - 3.2.2. Restraints
 - 3.2.3. Opportunities
- 3.3. Porter's Five Forces Analysis
- 3.4. IGR-Growth Matrix Analysis
 - 3.4.1. IGR-Growth Matrix Analysis by Electric Vehicle Type
 - 3.4.2. IGR-Growth Matrix Analysis by Vehicle Type
 - 3.4.3. IGR-Growth Matrix Analysis by Battery Type
 - 3.4.4. IGR-Growth Matrix Analysis by Solar Panel Type
 - 3.4.5. IGR-Growth Matrix Analysis by Region
- 3.5. Value Chain Analysis of Solar Vehicle Market

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Chapter 4. Solar Vehicle Market Macro Indicator Analysis

Chapter 5. Company Profiles and Competitive Landscape

5.1. Competitive Landscape in the Global Solar Vehicle Market

5.2. Companies Profiles

5.2.1. TOYOTA MOTOR CORPORATION

5.2.2. Astrolab Venturi

5.2.3. Sono Motors

5.2.4. Aptera Motors Corp

5.2.5. Hyundai Motor Company

5.2.6. Scania

5.2.7. Vayve Mobility Private Limited

5.2.8. Lightyear

5.2.9. Squad Mobility B.V.

5.2.10. Kia Corporation

Chapter 6. Global Solar Vehicle Market by Electric Vehicle Type

6.1. Battery Electric Vehicle

6.2. Hybrid Electric Vehicle

6.3. Plug-in Hybrid Electric Vehicle

Chapter 7. Global Solar Vehicle Market by Vehicle Type

7.1. Passenger Vehicle

7.2. Commercial Vehicle

Chapter 8. Global Solar Vehicle Market by Battery Type

8.1. Lithium-ion

8.2. Lead-acid

8.3. Others

Chapter 9. Global Solar Vehicle Market by Solar Panel Type

9.1. Monocrystalline

9.2. Polycrystalline

Chapter 10. Global Solar Vehicle Market by Region 2024-2032

10.1. North America

10.1.1. North America Solar Vehicle Market by Electric Vehicle Type

10.1.2. North America Solar Vehicle Market by Vehicle Type

10.1.3. North America Solar Vehicle Market by Battery Type

10.1.4. North America Solar Vehicle Market by Solar Panel Type

10.1.5. North America Solar Vehicle Market by Country

10.1.5.1. The U.S. Solar Vehicle Market

10.1.5.1.1. The U.S. Solar Vehicle Market by Electric Vehicle Type

10.1.5.1.2. The U.S. Solar Vehicle Market by Vehicle Type

10.1.5.1.3. The U.S. Solar Vehicle Market by Battery Type

10.1.5.1.4. The U.S. Solar Vehicle Market by Solar Panel Type

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- 10.1.5.2. Canada Solar Vehicle Market
 - 10.1.5.2.1. Canada Solar Vehicle Market by Electric Vehicle Type
 - 10.1.5.2.2. Canada Solar Vehicle Market by Vehicle Type
 - 10.1.5.2.3. Canada Solar Vehicle Market by Battery Type
 - 10.1.5.2.4. Canada Solar Vehicle Market by Solar Panel Type
- 10.1.5.3. Mexico Solar Vehicle Market
 - 10.1.5.3.1. Mexico Solar Vehicle Market by Electric Vehicle Type
 - 10.1.5.3.2. Mexico Solar Vehicle Market by Vehicle Type
 - 10.1.5.3.3. Mexico Solar Vehicle Market by Battery Type
 - 10.1.5.3.4. Mexico Solar Vehicle Market by Solar Panel Type
- 10.2. Europe
 - 10.2.1. Europe Solar Vehicle Market by Electric Vehicle Type
 - 10.2.2. Europe Solar Vehicle Market by Vehicle Type
 - 10.2.3. Europe Solar Vehicle Market by Battery Type
 - 10.2.4. Europe Solar Vehicle Market by Solar Panel Type
 - 10.2.5. Europe Solar Vehicle Market by Country
 - 10.2.5.1. Germany Solar Vehicle Market
 - 10.2.5.1.1. Germany Solar Vehicle Market by Electric Vehicle Type
 - 10.2.5.1.2. Germany Solar Vehicle Market by Vehicle Type
 - 10.2.5.1.3. Germany Solar Vehicle Market by Battery Type
 - 10.2.5.1.4. Germany Solar Vehicle Market by Solar Panel Type
 - 10.2.5.2. United Kingdom Solar Vehicle Market
 - 10.2.5.2.1. United Kingdom Solar Vehicle Market by Electric Vehicle Type
 - 10.2.5.2.2. United Kingdom Solar Vehicle Market by Vehicle Type
 - 10.2.5.2.3. United Kingdom Solar Vehicle Market by Battery Type
 - 10.2.5.2.4. United Kingdom Solar Vehicle Market by Solar Panel Type
 - 10.2.5.3. France Solar Vehicle Market
 - 10.2.5.3.1. France Solar Vehicle Market by Electric Vehicle Type
 - 10.2.5.3.2. France Solar Vehicle Market by Vehicle Type
 - 10.2.5.3.3. France Solar Vehicle Market by Battery Type
 - 10.2.5.3.4. France Solar Vehicle Market by Solar Panel Type
 - 10.2.5.4. Rest of Europe Solar Vehicle Market
 - 10.2.5.4.1. Rest of Europe Solar Vehicle Market by Electric Vehicle Type
 - 10.2.5.4.2. Rest of Europe Solar Vehicle Market by Vehicle Type
 - 10.2.5.4.3. Rest of Europe Solar Vehicle Market by Battery Type
 - 10.2.5.4.4. Rest of Europe Solar Vehicle Market by Solar Panel Type
- 10.3. Asia Pacific
 - 10.3.1. Asia Pacific Solar Vehicle Market by Electric Vehicle Type
 - 10.3.2. Asia Pacific Solar Vehicle Market by Vehicle Type
 - 10.3.3. Asia Pacific Solar Vehicle Market by Battery Type
 - 10.3.4. Asia Pacific Solar Vehicle Market by Solar Panel Type
 - 10.3.5. Asia Pacific Solar Vehicle Market by Country
 - 10.3.5.1. China Solar Vehicle Market
 - 10.3.5.1.1. China Solar Vehicle Market by Electric Vehicle Type
 - 10.3.5.1.2. China Solar Vehicle Market by Vehicle Type
 - 10.3.5.1.3. China Solar Vehicle Market by Battery Type
 - 10.3.5.1.4. China Solar Vehicle Market by Solar Panel Type

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- 10.3.5.2. Japan Solar Vehicle Market
 - 10.3.5.2.1. Japan Solar Vehicle Market by Electric Vehicle Type
 - 10.3.5.2.2. Japan Solar Vehicle Market by Vehicle Type
 - 10.3.5.2.3. Japan Solar Vehicle Market by Battery Type
 - 10.3.5.2.4. Japan Solar Vehicle Market by Solar Panel Type
- 10.3.5.3. India Solar Vehicle Market
 - 10.3.5.3.1. India Solar Vehicle Market by Electric Vehicle Type
 - 10.3.5.3.2. India Solar Vehicle Market by Vehicle Type
 - 10.3.5.3.3. India Solar Vehicle Market by Battery Type
 - 10.3.5.3.4. India Solar Vehicle Market by Solar Panel Type
- 10.3.5.4. Rest of Asia-Pacific Solar Vehicle Market
 - 10.3.5.4.1. Rest of Asia-Pacific Solar Vehicle Market by Electric Vehicle Type
 - 10.3.5.4.2. Rest of Asia-Pacific Solar Vehicle Market by Vehicle Type
 - 10.3.5.4.3. Rest of Asia-Pacific Solar Vehicle Market by Battery Type
 - 10.3.5.4.4. Rest of Asia-Pacific Solar Vehicle Market by Solar Panel Type
- 10.4. RoW
 - 10.4.1. RoW Solar Vehicle Market by Electric Vehicle Type
 - 10.4.2. RoW Solar Vehicle Market by Vehicle Type
 - 10.4.3. RoW Solar Vehicle Market by Battery Type
 - 10.4.4. RoW Solar Vehicle Market by Solar Panel Type
 - 10.4.5. RoW Solar Vehicle Market by Sub-region
 - 10.4.5.1. Latin America Solar Vehicle Market
 - 10.4.5.1.1. Latin America Solar Vehicle Market by Electric Vehicle Type
 - 10.4.5.1.2. Latin America Solar Vehicle Market by Vehicle Type
 - 10.4.5.1.3. Latin America Solar Vehicle Market by Battery Type
 - 10.4.5.1.4. Latin America Solar Vehicle Market by Solar Panel Type
 - 10.4.5.2. Middle East Solar Vehicle Market
 - 10.4.5.2.1. Middle East Solar Vehicle Market by Electric Vehicle Type
 - 10.4.5.2.2. Middle East Solar Vehicle Market by Vehicle Type
 - 10.4.5.2.3. Middle East Solar Vehicle Market by Battery Type
 - 10.4.5.2.4. Middle East Solar Vehicle Market by Solar Panel Type
 - 10.4.5.3. Africa Solar Vehicle Market
 - 10.4.5.3.1. Africa Solar Vehicle Market by Electric Vehicle Type
 - 10.4.5.3.2. Africa Solar Vehicle Market by Vehicle Type
 - 10.4.5.3.3. Africa Solar Vehicle Market by Battery Type
 - 10.4.5.3.4. Africa Solar Vehicle Market by Solar Panel Type

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