

Solar Vehicle Market by Electric Vehicle Type (Battery Electric Vehicle (BEV), Hybrid Electric Vehicle (HEV), and Plug-in Hybrid Electric Vehicle (PHEV)), Battery Type (Lithium Ion, Lead Acid, and Lead Carbon), Solar Panel (Monocrystalline and Polycrystalline), and Vehicle Type (Passenger Vehicle and Commercial Vehicle): Global Opportunity Analysis and Industry Forecast, 2023–2030

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Abstracts

Solar vehicle are a form of electric vehicles which are equipped with a solar panel on the vehicle and are used to capture the solar energy which is used to charge the battery of the vehicle. Different types of solar panels such as monocrystalline and polycrystalline solar panels are available which capture the solar energy and converts it to electric energy. Since the solar energy is an unlimited form of energy, hence it is widely used as a fuel type for the propulsion of the vehicles. Currently solar vehicles are in development phase due to the developing infrastructure for electric vehicles and solar power based vehicles. Also, solar vehicles are not easily available for transportation but is currently seen as a demonstration vehicle which is to be launched in near future.

Solar vehicles have a wider application in passenger and commercial vehicles due to the developing infrastructure for electric vehicles across the globe. Numerous developments and inventions are being carried out for the development of solar vehicles to be implemented across the globe which fuels the growth of solar vehicle market.

Solar vehicles are expected to register a significant growth during the forecast period due to the growing concern about environment pollution and increase in demand for

energy-efficient sources as an alternative to fuel. Also, excessive research in far-field wireless charging technologies and technological advancements supplements the solar vehicle market growth across the globe.

The solar vehicle market is segmented based on the electric vehicle type, battery type, solar panel type, vehicle type and region. Based on electric vehicle type, the solar vehicle market report has been categorized into Battery Electric Vehicle (BEV), Hybrid Electric Vehicle (HEV) and Plug-in Hybrid Electric Vehicle (PHEV). Based on battery type, the solar vehicle market report has been classified into lithium ion, lead acid and lead carbon batteries. Monocrystalline and Polycrystalline are the different types of solar panels which have a wider application in solar vehicles. Based on vehicle type, the report has been classified into passenger vehicles and commercial vehicles which finds a major application of solar vehicles. Based on region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The key players analyzed in the solar vehicle market include Volkswagen AG, Toyota Motor Corporation, Ford, Mahindra & Mahindra, Sono Motors, Hanergy Thin Film Power Group, Solar Electric Vehicle Company, Alke, Lightyear, and Hyundai Motor Company.

KEY BENEFITS FOR STAKEHOLDERS

This study presents analytical depiction of the global solar vehicle market along with the current trends and future estimations to depict the imminent investment pockets.

The overall market potential is determined to understand the profitable trends to enable stakeholders gain a stronger foothold in the market.

The report presents information related to key drivers, restraints, and opportunities with a detailed impact analysis.

The current market is quantitatively analyzed from 2023 to 2030 to highlight the financial competency of the market.

Porter's five forces analysis illustrates the potency of the buyers and suppliers.

KEY MARKET SEGMENTS

By Electric Vehicle

Battery Electric Vehicle (BEV)

Hybrid Electric Vehicle (HEV)

Plug-in Hybrid Electric Vehicle (PHEV)

By Battery Type

Lithium Ion

Lead Acid

Lead Carbon

By Solar Panel

Monocrystalline

Polycrystalline

By Vehicle Type

Passenger Vehicle

Commercial Vehicle

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Solar Vehicle Market by Electric Vehicle Type (Battery Electric Vehicle (BEV), Hybrid Electric Vehicle (HEV),...

Volkswagen AG

Toyota Motor Corporation

Ford

Mahindra & Mahindra

Sono motors

Hanergy Thin Film Power Group

Solar Electric Vehicle Company

Alke

Lightyear

Hyundai Motor Company

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