

Global Vehicle-integrated Photovoltaic Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GB2A8A2B2D77EN.html>

Date: June 2026

Pages: 103

Price: US\$ 3,660.00 (Single User License)

ID: GB2A8A2B2D77EN

Abstracts

The global Vehicle-integrated Photovoltaic market size is predicted to grow from US\$ 138 million in 2025 to US\$ 701 million in 2032; it is expected to grow at a CAGR of 26.6% from 2026 to 2032.

Vehicle-integrated Photovoltaic (VIPV) refers to the integration of photovoltaic solar panels directly into a vehicle's surface, such as the roof, hood, or body panels, to generate electricity from sunlight. This technology enables vehicles to supplement their energy needs, reducing reliance on external charging or fuel, and is particularly beneficial for electric vehicles (EVs) and hybrid vehicles. VIPV systems can extend driving range, power auxiliary systems, and improve overall energy efficiency. They are designed to be lightweight, durable, and aerodynamic, aligning with automotive standards for performance and safety. VIPV is a key innovation in sustainable transportation, contributing to energy efficiency and reduced emissions.

The market for Vehicle-integrated Photovoltaic (VIPV) is emerging as a promising segment within the clean mobility and solar energy sectors, driven by the growing demand for sustainable transportation and reduced vehicle emissions. VIPV involves integrating solar panels directly into the surface of vehicles—such as roofs, hoods, or windows—to generate auxiliary power, extend driving range (especially for EVs), and reduce reliance on grid charging. While still in the early stages, the market is gaining traction with pilot projects from automakers like Toyota, Hyundai, and Lightyear. Technological advancements in lightweight, flexible solar materials and rising regulatory pressure for green mobility are expected to fuel growth, with Europe and Asia-Pacific leading in adoption. However, challenges remain in cost, efficiency, and durability under real-world driving conditions.

LPI (LP Information)' newest research report, the 'Vehicle-integrated Photovoltaic Industry Forecast' looks at past sales and reviews total world Vehicle-integrated Photovoltaic sales in 2025, providing a comprehensive analysis by region and market sector of projected Vehicle-integrated Photovoltaic sales for 2026 through 2032. With Vehicle-integrated Photovoltaic sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vehicle-integrated Photovoltaic industry.

This Insight Report provides a comprehensive analysis of the global Vehicle-integrated Photovoltaic landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Vehicle-integrated Photovoltaic portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vehicle-integrated Photovoltaic market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vehicle-integrated Photovoltaic and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vehicle-integrated Photovoltaic.

This report presents a comprehensive overview, market shares, and growth opportunities of Vehicle-integrated Photovoltaic market by product type, application, key players and key regions and countries.

Segmentation by Type:

Single Crystal Silicon

Polycrystalline Silicon

Thin Film

Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Sono Motors

Lightyear

EneCoat

Sunset Energietechnik

OPES Solutions

Trina Solar

Meyer Burger

a2 Solar

Changzhou Almaden

Shenzhen Topraysolar

Green Energy

Umicore

Shenzhen Phenosolar Technology

Sunman (Zhenjiang)

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