

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

<https://marketpublishers.com/r/GBE6D86C168CEN.html>

Date: June 2026

Pages: 108

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

ID: GBE6D86C168CEN

## Abstracts

The global Vehicle-integrated Photovoltaic System market size is predicted to grow from US\$ 133 million in 2025 to US\$ 450 million in 2032; it is expected to grow at a CAGR of 19.4% from 2026 to 2032.

A Vehicle-integrated Photovoltaic (VIPV) system is a solar power technology in which photovoltaic cells are directly built into the surfaces of a vehicle—such as the roof, hood, trunk, or windows—so that the vehicle itself generates electricity from sunlight. Unlike standalone solar panels, VIPV is seamlessly integrated into the vehicle's design, supplying power for propulsion in electric vehicles or supporting auxiliary loads like air-conditioning, lighting, or battery charging. This approach reduces reliance on external charging, improves energy efficiency, lowers emissions, and extends driving range, making it a promising solution for sustainable mobility and smart energy use in the transport sector.

The Vehicle-Integrated Photovoltaic System (VIPV) market is at an early but rapidly advancing stage, driven by the convergence of clean energy adoption and electric mobility. Automakers and suppliers are experimenting with solar-integrated roofs, hoods, and glazing to extend driving range, reduce grid dependence, and power auxiliary systems. The technology's appeal lies in sustainability branding, improved energy efficiency, and potential regulatory incentives for decarbonization. However, widespread uptake still faces challenges such as efficiency trade-offs, integration costs, durability under automotive conditions, and consumer acceptance. Overall, VIPV is evolving from a niche innovation into a differentiating feature that could become standard in next-generation electric and hybrid vehicles.

LPI (LP Information)' newest research report, the "Vehicle-integrated Photovoltaic

System Industry Forecast? looks at past sales and reviews total world Vehicle-integrated Photovoltaic System sales in 2025, providing a comprehensive analysis by region and market sector of projected Vehicle-integrated Photovoltaic System sales for 2026 through 2032. With Vehicle-integrated Photovoltaic System 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 System industry.

This Insight Report provides a comprehensive analysis of the global Vehicle-integrated Photovoltaic System 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 System 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 System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vehicle-integrated Photovoltaic System 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 System.

This report presents a comprehensive overview, market shares, and growth opportunities of Vehicle-integrated Photovoltaic System 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 Cars

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.

SonoSolar

Lightyear

Flexis SAS

Flixbus

Green Energy

Toyota Motor

EneCoat

Nissan Motor

OPES Solutions

Shenzhen Phenosolar Technology

Sunman (Zhenjiang)

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