

Global Photovoltaic Bird Repeller Market Growth 2026-2032

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Abstracts

The global Photovoltaic Bird Repeller market size is predicted to grow from US\$ 355 million in 2025 to US\$ 479 million in 2032; it is expected to grow at a CAGR of 4.5% from 2026 to 2032.

PV bird repellents are devices used to prevent birds from nesting or roosting in photovoltaic (PV) power plants. These devices usually drive away birds through various means, such as acoustic, visual or physical barriers, to reduce the impact of bird droppings pollution on PV panels and prevent possible hot spot effects, thereby improving the power generation efficiency and safety of PV power plants.

In 2025, the global production of PV bird repellents was 13.78 million units, with an average price of US\$26.3 per unit.

Upstream mainly includes suppliers of photovoltaic modules, small energy storage batteries, control chips, sensors, and driving devices, along with structural and protective materials. The overall technical barrier is moderate, but high requirements exist for weather resistance and long-term stability, with the photovoltaic power system and electronic components accounting for a large portion of costs. Downstream primarily includes photovoltaic plant operators, power companies, and renewable energy investors. Key application scenarios include large-scale ground-mounted plants, distributed solar projects, and areas with high bird activity such as deserts and mountainous regions. Downstream demand focuses on deterrence effectiveness, reliability, and maintenance costs, with large-scale operators emphasizing scalability and long-term performance, while smaller projects prioritize cost and ease of installation. As global photovoltaic installations continue to expand, the importance of operation and maintenance increases, driving steady demand for bird repelling

solutions.

The industry is evolving toward intelligent, diversified, and environmentally friendly solutions, with increasing integration of sensors and smart control algorithms for on-demand operation and remote monitoring, and the combination of multiple deterrence methods to enhance effectiveness while minimizing ecological impact. Growth is driven by rapid expansion of photovoltaic capacity, increasing demand for refined operation and maintenance, and growing awareness of bird-related performance losses, along with environmental policies encouraging non-lethal deterrence solutions. Constraints include inconsistent effectiveness across products, variability in bird behavior across regions, challenges in long-term reliability, and product homogenization due to price competition, while fragmented maintenance scenarios add complexity to adoption. Industry gross margins are generally moderate, typically ranging from 30% to 50%, with higher margins for companies offering intelligent control and integrated solutions, while basic products face margin pressure due to competition. Increasing the share of software platforms and maintenance services can help improve overall profitability.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Photovoltaic Bird Repeller 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 Photovoltaic Bird Repeller.

This report presents a comprehensive overview, market shares, and growth opportunities of Photovoltaic Bird Repeller market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Acoustic Bird Deterrence Type

Ultrasonic Bird Deterrence Type

Laser Bird Deterrence Type

Rotating-Motion Bird Deterrence Type

Hybrid Bird Deterrence Type

Segmentation by Power Supply and Energy Storage Method:

Solar-Powered Type

Solar-and-Battery Storage Type

Solar-and-Rechargeable-Battery Type

Segmentation by Control Method:

Continuous-Operation Type

Sensor-Triggered Type

Timer-Controlled Type

Remote-Controlled Type

Segmentation by Application:

Photovoltaic Power Plants

Substations

Transmission Lines and Utility Poles/Towers

Farms and Orchards

Airport Perimeters

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 analysing the company's coverage, product portfolio, its market penetration.

Bird B Gone

Bird Control Group

Bird-X

Nixalite of America

Bird Barrier America

Bird Gard LLC

Scarecrow Group Limited

PestFix Group Ltd

Defenders Wildlife Control

Ultrasonic Systems GmbH

Repel-Tech Systems Ltd

Terma A/S

Enviroguard Solutions Pty Ltd

Bird Stop Australia Pty Ltd

Bird Control Australia Pty Ltd

Laser Bird Deterrent Solutions Ltd

Sankyo Corporation

Takikawa Engineering Co., Ltd.

Contech Electronics Inc.

EcoBird Control Products

Woodstream Corporation

Kelvin Hughes

Rohde & Schwarz GmbH & Co. KG

Shenzhen Tongkai Electronics Co., Ltd.

Shenzhen Telikang Technology Co., Ltd.

Suzhou Maichuang Information Technology Co., Ltd.

Hebei Jinneng Electric Power Technology Co., Ltd.

Shandong Aoka Electronic Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Photovoltaic Bird Repeller market?

What factors are driving Photovoltaic Bird Repeller market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Photovoltaic Bird Repeller market opportunities vary by end market size?

How does Photovoltaic Bird Repeller break out by Type, by Application?

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