

Global Offshore Wind Bird Monitoring System Market Growth 2026-2032

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Abstracts

The global Offshore Wind Bird Monitoring System market size is predicted to grow from US\$ 115 million in 2025 to US\$ 245 million in 2032; it is expected to grow at a CAGR of 10.9% from 2026 to 2032.

Offshore Wind Bird Monitoring Systems are integrated environmental monitoring solutions used in offshore wind farms to detect, identify, track, and assess bird activity around turbines and project areas. These systems usually combine marine radar, high-resolution cameras, thermal imaging, acoustic sensors, AI recognition software, data processing platforms, and remote communication modules. They support bird migration monitoring, flight path analysis, collision risk assessment, environmental impact evaluation, and regulatory compliance reporting. The systems are mainly deployed during offshore wind project development, construction, operation, and ecological monitoring phases, helping operators balance renewable energy development with biodiversity protection and environmental management requirements. The industrial chain of Offshore Wind Bird Monitoring Systems includes upstream components such as radar modules, optical cameras, thermal imagers, acoustic sensors, edge computing units, communication equipment, power supply systems, mounting structures, marine-grade enclosures, and AI algorithms. The midstream covers system integration, sensor calibration, data platform development, offshore installation, environmental model configuration, monitoring workflow design, and field commissioning. Downstream users mainly include offshore wind farm owners, project developers, turbine operators, environmental consultants, marine engineering contractors, research institutions, and regulatory monitoring bodies. Supporting services include ecological survey design, data annotation, species identification, maintenance, software upgrades, reporting, compliance consulting, and long-term monitoring operations. In 2025, global Offshore Wind Bird Monitoring System production reached approximately 281 systems, with an

average global market price of around US\$420,000 per system. The gross profit margin of major companies in the industry is between 35%-55%. In 2025, the global production capacity of Offshore Wind Bird Monitoring System was approximately 375 systems.

The Offshore Wind Bird Monitoring System market is growing steadily as offshore wind development expands and environmental approval requirements become stricter. Bird migration, collision risk, habitat disturbance, and biodiversity protection are key concerns in offshore wind permitting and operation. Monitoring systems that combine radar, camera, thermal imaging, acoustic sensing, and AI analytics can provide continuous data on bird movement, flight altitude, species behavior, and turbine-area activity. Demand is strongest in Europe, North America, China, Japan, South Korea, and Taiwan, where offshore wind projects face detailed environmental assessment and long-term ecological monitoring requirements. Compared with manual surveys, automated systems provide higher monitoring frequency, better traceability, and improved compliance documentation. The market is still relatively specialized, but growth is supported by offshore wind expansion, digital environmental management, and stricter ESG requirements. Suppliers with marine-grade hardware, accurate AI recognition, reliable data platforms, and ecological consulting capability are more competitive.

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

This Insight Report provides a comprehensive analysis of the global Offshore Wind Bird Monitoring 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 analyzes the strategies of leading global companies with a focus on Offshore Wind Bird Monitoring System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Offshore Wind Bird Monitoring System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Offshore Wind Bird Monitoring 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 Offshore Wind Bird Monitoring System.

This report presents a comprehensive overview, market shares, and growth opportunities of Offshore Wind Bird Monitoring System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Radar-Based Bird Monitoring System

Camera-Based Bird Monitoring System

Multi-Sensor Bird Monitoring System

Segmentation by Deployment Type:

Fixed-Platform Bird Monitoring System

Buoy-Mounted Bird Monitoring System

Turbine-Mounted Bird Monitoring System

Segmentation by Detection Range:

Below 1 km Detection Range

1-5 km Detection Range

Above 5 km Detection Range

Segmentation by Application:

Pre-Construction Environmental Assessment

Operational Collision Risk Monitoring

Others

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.

Spoor AS

DeTect, Inc.

Robin Radar Systems B.V.

Bioseco S.A.

DHI A/S

Boulder Imaging, Inc.

Fugro N.V.

DTBird

Biodiv-Wind

nvisionist

Swiss Birdradar Solution AG

Japan Weather Association

Chongqing Yingka Electronics Co., Ltd.

Beijing Sinotech Going Sci.And Tech. Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Offshore Wind Bird Monitoring System market?

What factors are driving Offshore Wind Bird Monitoring System market growth, globally and by region?

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

How do Offshore Wind Bird Monitoring System market opportunities vary by end market size?

How does Offshore Wind Bird Monitoring System break out by Type, by Application?

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