

Oil And Gas Drones Market to Reach USD \$41.7 Billion by 2029 at 34.8% CAGR

The Business Research Company's Oil And Gas Drones Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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Oil And Gas Drones Global Market Report 2025

How Big Is The [Oil And Gas Drones Market](#) In 2025?

There has been a notable expansion in the size of the oil and gas drones market in the past few

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years. The market, which currently stands at \$9.36 billion in 2024, is projected to scale up to \$12.61 billion by 2025, indicating a staggering compound annual growth rate (CAGR) of 34.8%. The considerable growth observed in the historic period can be credited to a multitude of factors including the progress in drone technology, a surge in regulatory approvals for drone operations in the oil and gas sector, a mounting demand for cost-friendly inspection and surveillance solutions, and an increased focus on ensuring safety for workers and minimizing risks.

The market size of drones in the oil and gas industry is projected to witness substantial growth in the forthcoming years. It is estimated to reach a whopping \$41.7 billion by 2029, with a compound annual growth rate (CAGR) of 34.8%. The projected growth during the period can be credited to the transition towards autonomous drone functioning and swarm technology, the rising employment of hyperspectral imaging for environmental monitoring and asset inspection, improvements in data analysis and predictive upkeep for drone-sourced data, and the widening scope of drone applications beyond inspection. Key trends within the forecast period include the fusion of artificial intelligence and machine learning within drone systems, the crafting of extended surveillance drones with both long-range capabilities and endurance, the application of drones for emissions monitoring and methane detection, and the broadening of offshore

drilling endeavors.

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What Are The Key Driving Factors For The Growth Of The Oil And Gas Drones Market?

Projected growth in the oil and gas drones market is anticipated to be driven by greater government investment. This refers to the distribution of financial resources by the government for a variety of projects, initiatives, or sectors aimed at fulfilling specific goals like guidance for economic development, infrastructure augmentation, innovation encouragement, or the betterment of society. Government investment plays a pivotal role in guiding the course of drone technology adoption within the oil and gas fields by encouraging innovation, promoting cooperation, tackling regulatory hurdles, and aiding in the evolution of needed infrastructure. As an illustration, according to the Department For Business, Energy, and Industrial Strategy, a government agency based in the UK, from 2020 to 2022, UK grants amounting to USD 36.78 million (£34 million) were allotted to the support of innovative ventures such as a Covid drone response, hospital logistics solutions, offshore/onshore oil & gas drone capacities, and a series of UK 'firsts' in drug and parcel delivery. In 2022, an additional sum of USD 57.33 million (£53 million) was declared in Phase 3 grants for 14 drone-related research and development projects that supported the integration of more complicated aviation systems and new vehicle technologies. Consequently, the surge in government investment is the driving force behind the oil and gas drones market.

Who Are The Key Players In The [Oil And Gas Drones Industry](#)?

Major players in the Oil And Gas Drones Global Market Report 2025 include:

- The Boeing Company
- GE Aviation
- BAE Systems plc
- Yamaha Motor Co. Ltd.
- DJI Enterprise
- AeroVironment Inc.
- Yuneec International
- Skydio Inc.
- XAG Co. Ltd.
- senseFly SA

What Are The Upcoming Trends Of Oil And Gas Drones Market In The Globe?

Major firms active in the oil and gas drones market are concentrating their efforts on creating cutting-edge solutions like integrated drone solutions to boost their market profitability. Integrated drone solutions are fuelling innovation and redefining the oil and gas sector by enabling businesses to utilize superior aerial technologies for enhanced efficiency, safety, and decision-making capabilities. For example, SkyDeck was launched by Asteria Aerospace, an Indian drone technology firm, in March 2023. It's an all-encompassing drone operations platform

crafted to streamline drone operations in various industries, including oil and gas. This cloud-based software provides services such as fleet management, flight scheduling, data processing, and visualization, all of which could considerably affect how drones are used in the oil and gas industry. SkyDeck's integrated drone solutions have the potential to significantly improve safety, efficiency, and decision-making procedures related to drone operations in the oil and gas sector.

What Segments Are Covered In The Oil And Gas Drones Market Report?

The oil and gas drones market covered in this report is segmented –

- 1) By Type: Single Rotor, Multi Rotor, Fixed Wing, Hybrid And Nano
- 2) By Applications: Inspection, Security And Emergency Response, Surveying And mapping
- 3) By End-Use: Construction, Agriculture, Mining, Oil And Gas, Other End-Use

Subsegments:

- 1) By Single Rotor: Conventional Single Rotor, Coaxial Single Rotor
- 2) By Multi Rotor: Quadcopters, Hexacopters, Octocopters, Other Multi-Rotor Variants
- 3) By Fixed Wing: Conventional Fixed Wing, Hybrid Fixed Wing
- 4) By Hybrid And Nano: Vertical Take-Off And Landing (VTOL), Transitioning Hybrid Drones, Miniature Drones (Sub-250 Grams), Nano Drones With Advanced Sensors

View the full oil and gas drones market report:

<https://www.thebusinessresearchcompany.com/report/oil-and-gas-drones-global-market-report>

Which Region Is Expected To Lead The Oil And Gas Drones Market By 2025?

In 2024, North America held the top position in the global oil and gas drones market as reported in the Oil And Gas Drones Global Market Report 2025. The report covers regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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