

Global AI in Oil & Gas Market Accelerates Toward a Smarter, More Efficient Tomorrow | DataM Intelligence

AI in Oil & Gas is revolutionizing exploration, production, and safety, driving efficiency and sustainable growth

AUSTIN, TX, UNITED STATES, August 18, 2025 /EINPresswire.com/ -- Market Overview

The AI in Oil & Gas Market is transforming the energy sector by driving efficiency, safety, and cost optimization. From predictive maintenance to smarter drilling and real-time monitoring, AI is helping companies boost productivity while reducing risks and environmental impact.

DataM Intelligence notes that [AI in the Oil & Gas Industry](#) will grow smoothly, climbing nearly 13% each year from 2024 to 2031.

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The U.S. AI in Oil & Gas market is set for strong growth as demand for smarter exploration, predictive maintenance, and cost efficiency rises.”

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oversight, and operational control.



DATA INTELLIGENCE

AI IN OIL & GAS MARKET

According to Motorola Solutions, the demand for AI in the global oil sector is expected to increase by about **33%** by **2035**.

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AI in Oil & Gas Market

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Market Drivers & Opportunities

Data-Driven Optimization: The industry's increasing reliance on real-time data, automation, and predictive analytics is fueling demand for AI solutions that enhance reservoir forecasting, predictive maintenance, safety

Rising Efficiency Needs: AI tools are helping companies reduce downtime, improve drilling accuracy, and cut costs—especially critical in regions like the Permian Basin, where AI has boosted production while reducing rigs.

Sustainability & Safety Pressures: As environmental and safety regulations tighten, digital transformation offers a path to safer, cleaner, and more compliant operations through AI-enhanced monitoring.

Software-Led Evolution: Across the industry, AI software and analytics platforms dominate investment and adoption trends, delivering new insights and operational capabilities.

Market Geographical Share

North America: Holds the largest share of AI deployment in oil and gas estimated around 30–40% of global revenue in recent years driven by early digitization and heavy investment in AI platforms.

Asia-Pacific: The fastest-growing regional market, propelled by rapid industrial expansion and surging demand for operational efficiency across countries like India, China, and Japan.

Europe and Middle East & Africa: Present moderate but growing adoption, with downstream automation and pipeline monitoring driving investment.

Key Players

IBM
Intel
Google
Microsoft
Oracle
Sentient technologies
Inbenta
General Vision
Cisco
Hortonworks

Market Segments:

By Type: (Hardware, Software, Services)

By Function: (Predictive Maintenance & Machinery Inspection, Field Services, Material Movement, Quality Control, Reclamation, Production Planning)

By Application: (Upstream, Midstream, Downstream)

By Region: (North America, Latin America, Europe, Asia Pacific, Middle East, and Africa)

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Recent Developments

United States

2024: AI innovations have significantly improved output efficiency in U.S. oilfields. In places like the Permian Basin, AI has driven remarkable production increases, lowered breakeven prices, and enabled fewer rigs to sustain or boost output.

2025: A new energy initiative sees Chevron, Engine No. 1, and GE Vernova collaborating to build natural gas-fired power plants located alongside AI data centers. This approach aims to meet rising electricity demand for AI development while maintaining grid stability.

Japan

2024: Japanese oil and gas firms accelerated AI adoption to combat challenges like aging infrastructure and regulatory pressure. AI has been used to optimize operations, enhance safety, enable predictive maintenance, and streamline decision-making.

2025: Japan re-committed to long-term LNG contracts amid surging energy demand driven by AI and data center expansion, aligning its national energy strategy with technological growth demands.

Conclusion

Artificial intelligence is reshaping how O&G works boosting safety, brainy extraction, and sustainability. While North America continues to lead in implementation, Asia-Pacific, particularly Japan, is emerging as a hotbed of innovation and strategic transition. With investments scaling and new infrastructure converging around AI, the global AI in oil and gas market is poised for continued growth and transformation.

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