

Blockchain in Oil and Gas Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Blockchain In Oil & Gas Market was valued at USD 984.4 million in 2024 and is expected to grow at a CAGR of 41.9% from 2025 to 2034. As businesses continue expanding their operations across borders, managing compliance, supply chains, and operational resources is becoming increasingly complex. This growing complexity is driving the adoption of blockchain technology as a transparent and secure ledger system. Blockchain provides real-time traceability and accountability, which enhances operational efficiency and reduces disputes in the oil and gas industry. By simplifying workflows and maintaining tamper-proof records, blockchain helps mitigate regulatory and logistical challenges that companies often face. As the oil and gas sector faces mounting pressure to improve efficiency, enhance security, and ensure compliance, blockchain is emerging as a critical solution to address these concerns. Companies leveraging blockchain technology are experiencing improved resilience and better business performance, making the technology indispensable for future growth. The supply chain segment within the blockchain market is poised to grow at a CAGR of 40.8% from 2025 to 2034. Increased demand for transparency, fraud prevention, and operational efficiency is fueling this growth. Blockchain technology ensures end-to-end visibility across supply chains, enabling tamper-proof recordkeeping that minimizes human error and eliminates fraudulent activity. By enhancing data accuracy and providing a seamless digital ledger, blockchain strengthens supply chain management, making operations more secure and reliable. The technology is set to revolutionize the supply chain landscape by offering unparalleled transparency, security, and efficiency, which is particularly critical in managing the intricate processes involved in the oil and gas sector.

The blockchain in oil & gas market is divided into public and private categories, with the private blockchain segment holding 54.9% of the market share in 2024. Private

blockchains continue to maintain a dominant position and are expected to lead through 2034, primarily due to their ability to secure sensitive information and improve operational control. As oil and gas companies seek to optimize operations and strengthen data security, private blockchains are becoming the preferred choice. These secure systems allow organizations to safeguard proprietary information while enhancing efficiency across business processes. With growing emphasis on regulatory compliance and data security, the demand for private blockchain solutions is expected to remain strong in the coming years.

The North America blockchain in oil & gas market accounted for 17% of the global share in 2024 and is projected to witness substantial growth by 2034. The U.S. blockchain in oil and gas market, valued at USD 124.4 million in 2024, continues to thrive as organizations prioritize operational efficiency, secure data management, and regulatory compliance. Increasing focus on emission monitoring and the need for secure data storage are driving the widespread adoption of blockchain technology in the region. Strong government support and ongoing industry innovations are positioning the U.S. as a leader in the global blockchain market for oil and gas. As companies across the region continue integrating blockchain into their operations, the technology is expected to play a pivotal role in enhancing transparency, improving efficiency, and driving sustainable growth in the sector.

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