

Global Blockchain in Gas and Oil Resource Management Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Blockchain in Gas and Oil Resource Management market size is predicted to grow from US\$ 1394 million in 2025 to US\$ 7402 million in 2032; it is expected to grow at a CAGR of 27.1% from 2026 to 2032.

A blockchain in gas and oil resource management is a digital management platform that applies technologies?such as distributed ledgers, smart contracts, data encryption, IoT data acquisition, and access control?to the various stages of oil and gas resource exploration, development, production, storage and transportation, trading, settlement, and regulatory oversight. By recording information on the blockchain?including oil and gas field block ownership, reserve data, wellhead production volumes, equipment operational status, transportation and delivery records, carbon emissions, contract performance, oil and gas sales, and revenue-sharing settlements?such systems ensure data immutability, end-to-end traceability, multi-party data sharing, and automated settlement. This, in turn, enhances the transparency of oil and gas resource management, improves audit efficiency, boosts transaction credibility, and strengthens regulatory compliance capabilities. Public research also suggests that, within the oil and gas industry, blockchain technology can be utilized across exploration, production, supply chain management, and logistics, providing a data foundation that is traceable, immutable, transparent, and auditable.

The upstream segment of the blockchain in gas and oil resource management industry chain primarily comprises underlying blockchain frameworks, cloud and edge computing infrastructure, data encryption and identity authentication solutions, IoT sensors, wellhead metering equipment, SCADA and production data systems, ERP and EAM systems, oil and gas contract databases, geographic information systems, and

regulatory data repositories. The midstream segment consists of oil and gas resource management blockchain platform providers and system integrators, who are responsible for establishing consortium or permissioned blockchains, developing smart contracts, registering resource ownership, uploading production data to the blockchain, tracking transportation and delivery, facilitating oil and gas trade settlements and revenue-sharing settlements, tracing carbon emissions data, and building interfaces for regulatory oversight and auditing. The downstream segment primarily serves oil and gas exploration and development companies, oilfield service providers, pipeline and storage enterprises, LNG and natural gas traders, refining and petrochemical companies, government regulatory bodies, and financial and insurance institutions. The gross profit margin for the oil and gas resource management blockchain sector stands at approximately 61%.

From the demand-side perspective, the core value of blockchain in gas and oil resource management lies in enhancing multi-party collaboration, data trustworthiness, and settlement efficiency. The oil and gas industry involves a multitude of stakeholders and processes—including resource ownership, exploration and development, wellhead production, pipeline transportation and storage, trade delivery, revenue sharing and settlement, carbon emissions, and regulatory auditing. Traditional systems often result in data silos and suffer from issues such as an excessive reliance on manual documentation, lengthy reconciliation cycles, and difficulties in verifying data authenticity. By leveraging immutable ledgers, smart contracts, and permission-sharing mechanisms, blockchain can be applied to track oil and gas products, secure trade documentation, facilitate procurement and bidding, manage exploration rights, and foster supply chain collaboration—thereby reducing reconciliation costs and enhancing audit transparency.

From the supply-side perspective, a blockchain in gas and oil resource management is not merely standalone blockchain software; rather, it constitutes a comprehensive solution integrating 'blockchain + IoT + oil and gas business systems + regulatory interfaces.' The primary challenge in its implementation lies in the fact that oil and gas production data originates from a diverse array of sources—including SCADA, wellhead metering systems, ERP, EAM, LIMS, GIS, and trade settlement systems. Consequently, it is imperative to first resolve critical issues regarding data standards, identity and access management, on-chain/off-chain data consistency, data privacy protection, and inter-enterprise collaboration. The industry is currently in a transitional phase, moving from pilot projects toward large-scale deployment; therefore, solution providers must possess simultaneous capabilities in consortium blockchain architecture, smart contract development, data governance, and system integration. Vendors who merely provide

underlying blockchain technology without a deep understanding of oil and gas business processes will find their implementation capabilities relatively limited.

Regarding future trends, blockchain in gas and oil resource management are expected to prioritize expansion into scenarios involving trade settlement, supply chain traceability, carbon emissions accounting, revenue sharing and settlement, and regulatory auditing. The most valuable future direction is not 'adopting blockchain merely for the sake of being on the chain,' but rather creating a seamless integration across wellhead production data, transportation and delivery records, contracts, invoices, carbon footprints, and payment settlements to form a trusted, closed-loop data ecosystem. Within this framework, LNG trading, cross-border oil and gas settlement, oilfield equity sharing, carbon asset management, and government regulatory platforms are anticipated to be the priority scenarios for practical implementation.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Blockchain in Gas and Oil Resource Management 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 Blockchain in Gas and Oil Resource Management.

This report presents a comprehensive overview, market shares, and growth opportunities of Blockchain in Gas and Oil Resource Management market by product type, application, key players and key regions and countries.

Segmentation by Type:

Private Blockchain

Public Blockchain

Consortium Blockchain

Segmentation by Data On-Chain Frequency:

Low-Frequency (Evidence-Centric) (100,000 Transactions/Day)

Segmentation by Number of Participants:

Single-Enterprise Internal Model

Small-Scale Alliance Model

Medium-Scale Alliance Model

Large-Scale Ecosystem Model

Segmentation by Application:

Oil and Gas Extraction

Oil and Gas Transportation

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

Data Gumbo

VAKT

GuildOne

Finboot

Komgo

Energy Web

R3

ConsenSys

IBM

Oracle

Accenture

Wipro

Tata Consultancy Services

Ant Group

Tencent Cloud

Huawei Cloud

NTT DATA

Mitsubishi Electric

Fujitsu

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Blockchain in Gas and Oil Resource Management Market Size (2021-2032)
- 2.1.2 Blockchain in Gas and Oil Resource Management Market Size CAGR by Region (2021 VS 2025 VS 2032)
- 2.1.3 World Current & Future Analysis for Blockchain in Gas and Oil Resource Management by Country/Region (2021, 2025 & 2032)

2.2 Blockchain in Gas and Oil Resource Management Segment by Type

- 2.2.1 Private Blockchain
- 2.2.2 Public Blockchain
- 2.2.3 Consortium Blockchain
- 2.2.4 Blockchain in Gas and Oil Resource Management Market Size by Type
 - 2.2.4.1 Blockchain in Gas and Oil Resource Management Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.4.2 Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Type (2021-2026)

2.3 Blockchain in Gas and Oil Resource Management Segment by Data On-Chain Frequency

- 2.3.1 Low-Frequency (Evidence-Centric) (100,000 Transactions/Day)
- 2.3.4 Blockchain in Gas and Oil Resource Management Market Size by Data On-Chain Frequency
 - 2.3.4.1 Blockchain in Gas and Oil Resource Management Market Size CAGR by Data On-Chain Frequency (2021 VS 2025 VS 2032)
 - 2.3.4.2 Global Blockchain in Gas and Oil Resource Management Market Size Market

Share by Data On-Chain Frequency (2021-2026)

2.4 Blockchain in Gas and Oil Resource Management Segment by Number of Participants

2.4.1 Single-Enterprise Internal Model

2.4.2 Small-Scale Alliance Model

2.4.3 Medium-Scale Alliance Model

2.4.4 Large-Scale Ecosystem Model

2.4.5 Blockchain in Gas and Oil Resource Management Market Size by Number of Participants

2.4.5.1 Blockchain in Gas and Oil Resource Management Market Size CAGR by Number of Participants (2021 VS 2025 VS 2032)

2.4.5.2 Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Number of Participants (2021-2026)

2.5 Blockchain in Gas and Oil Resource Management Segment by Application

2.5.1 Oil and Gas Extraction

2.5.2 Oil and Gas Transportation

2.5.3 Others

2.5.4 Blockchain in Gas and Oil Resource Management Market Size by Application

2.5.4.1 Blockchain in Gas and Oil Resource Management Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.5.4.2 Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Application (2021-2026)

3 BLOCKCHAIN IN GAS AND OIL RESOURCE MANAGEMENT MARKET SIZE BY PLAYER

3.1 Blockchain in Gas and Oil Resource Management Market Size Market Share by Player

3.1.1 Global Blockchain in Gas and Oil Resource Management Revenue by Player (2021-2026)

3.1.2 Global Blockchain in Gas and Oil Resource Management Revenue Market Share by Player (2021-2026)

3.2 Global Blockchain in Gas and Oil Resource Management Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 BLOCKCHAIN IN GAS AND OIL RESOURCE MANAGEMENT BY REGION

4.1 Blockchain in Gas and Oil Resource Management Market Size by Region (2021-2026)

4.2 Global Blockchain in Gas and Oil Resource Management Annual Revenue by Country/Region (2021-2026)

4.3 Americas Blockchain in Gas and Oil Resource Management Market Size Growth (2021-2026)

4.4 APAC Blockchain in Gas and Oil Resource Management Market Size Growth (2021-2026)

4.5 Europe Blockchain in Gas and Oil Resource Management Market Size Growth (2021-2026)

4.6 Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Blockchain in Gas and Oil Resource Management Market Size by Country (2021-2026)

5.2 Americas Blockchain in Gas and Oil Resource Management Market Size by Type (2021-2026)

5.3 Americas Blockchain in Gas and Oil Resource Management Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Blockchain in Gas and Oil Resource Management Market Size by Region (2021-2026)

6.2 APAC Blockchain in Gas and Oil Resource Management Market Size by Type (2021-2026)

6.3 APAC Blockchain in Gas and Oil Resource Management Market Size by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

7 EUROPE

7.1 Europe Blockchain in Gas and Oil Resource Management Market Size by Country (2021-2026)

7.2 Europe Blockchain in Gas and Oil Resource Management Market Size by Type (2021-2026)

7.3 Europe Blockchain in Gas and Oil Resource Management Market Size by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Blockchain in Gas and Oil Resource Management by Region (2021-2026)

8.2 Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size by Type (2021-2026)

8.3 Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 GLOBAL BLOCKCHAIN IN GAS AND OIL RESOURCE MANAGEMENT MARKET FORECAST

10.1 Global Blockchain in Gas and Oil Resource Management Forecast by Region (2027-2032)

10.1.1 Global Blockchain in Gas and Oil Resource Management Forecast by Region (2027-2032)

10.1.2 Americas Blockchain in Gas and Oil Resource Management Forecast

10.1.3 APAC Blockchain in Gas and Oil Resource Management Forecast

10.1.4 Europe Blockchain in Gas and Oil Resource Management Forecast

10.1.5 Middle East & Africa Blockchain in Gas and Oil Resource Management Forecast

10.2 Americas Blockchain in Gas and Oil Resource Management Forecast by Country (2027-2032)

10.2.1 United States Market Blockchain in Gas and Oil Resource Management Forecast

10.2.2 Canada Market Blockchain in Gas and Oil Resource Management Forecast

10.2.3 Mexico Market Blockchain in Gas and Oil Resource Management Forecast

10.2.4 Brazil Market Blockchain in Gas and Oil Resource Management Forecast

10.3 APAC Blockchain in Gas and Oil Resource Management Forecast by Region (2027-2032)

10.3.1 China Blockchain in Gas and Oil Resource Management Market Forecast

10.3.2 Japan Market Blockchain in Gas and Oil Resource Management Forecast

10.3.3 Korea Market Blockchain in Gas and Oil Resource Management Forecast

10.3.4 Southeast Asia Market Blockchain in Gas and Oil Resource Management Forecast

10.3.5 India Market Blockchain in Gas and Oil Resource Management Forecast

10.3.6 Australia Market Blockchain in Gas and Oil Resource Management Forecast

10.4 Europe Blockchain in Gas and Oil Resource Management Forecast by Country (2027-2032)

10.4.1 Germany Market Blockchain in Gas and Oil Resource Management Forecast

10.4.2 France Market Blockchain in Gas and Oil Resource Management Forecast

10.4.3 UK Market Blockchain in Gas and Oil Resource Management Forecast

10.4.4 Italy Market Blockchain in Gas and Oil Resource Management Forecast

10.4.5 Russia Market Blockchain in Gas and Oil Resource Management Forecast

10.5 Middle East & Africa Blockchain in Gas and Oil Resource Management Forecast by Region (2027-2032)

10.5.1 Egypt Market Blockchain in Gas and Oil Resource Management Forecast

10.5.2 South Africa Market Blockchain in Gas and Oil Resource Management Forecast

- 10.5.3 Israel Market Blockchain in Gas and Oil Resource Management Forecast
- 10.5.4 Turkey Market Blockchain in Gas and Oil Resource Management Forecast
- 10.6 Global Blockchain in Gas and Oil Resource Management Forecast by Type (2027-2032)
- 10.7 Global Blockchain in Gas and Oil Resource Management Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Blockchain in Gas and Oil Resource Management Forecast

11 KEY PLAYERS ANALYSIS

11.1 Data Gumbo

- 11.1.1 Data Gumbo Company Information
- 11.1.2 Data Gumbo Blockchain in Gas and Oil Resource Management Product Offered
- 11.1.3 Data Gumbo Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
- 11.1.4 Data Gumbo Main Business Overview
- 11.1.5 Data Gumbo Latest Developments

11.2 VAKT

- 11.2.1 VAKT Company Information
- 11.2.2 VAKT Blockchain in Gas and Oil Resource Management Product Offered
- 11.2.3 VAKT Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
- 11.2.4 VAKT Main Business Overview
- 11.2.5 VAKT Latest Developments

11.3 GuildOne

- 11.3.1 GuildOne Company Information
- 11.3.2 GuildOne Blockchain in Gas and Oil Resource Management Product Offered
- 11.3.3 GuildOne Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
- 11.3.4 GuildOne Main Business Overview
- 11.3.5 GuildOne Latest Developments

11.4 Finboot

- 11.4.1 Finboot Company Information
- 11.4.2 Finboot Blockchain in Gas and Oil Resource Management Product Offered
- 11.4.3 Finboot Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
- 11.4.4 Finboot Main Business Overview

- 11.4.5 Finboot Latest Developments
- 11.5 Komgo
 - 11.5.1 Komgo Company Information
 - 11.5.2 Komgo Blockchain in Gas and Oil Resource Management Product Offered
 - 11.5.3 Komgo Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 Komgo Main Business Overview
 - 11.5.5 Komgo Latest Developments
- 11.6 Energy Web
 - 11.6.1 Energy Web Company Information
 - 11.6.2 Energy Web Blockchain in Gas and Oil Resource Management Product Offered
 - 11.6.3 Energy Web Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
 - 11.6.4 Energy Web Main Business Overview
 - 11.6.5 Energy Web Latest Developments
- 11.7 R3
 - 11.7.1 R3 Company Information
 - 11.7.2 R3 Blockchain in Gas and Oil Resource Management Product Offered
 - 11.7.3 R3 Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
 - 11.7.4 R3 Main Business Overview
 - 11.7.5 R3 Latest Developments
- 11.8 ConsenSys
 - 11.8.1 ConsenSys Company Information
 - 11.8.2 ConsenSys Blockchain in Gas and Oil Resource Management Product Offered
 - 11.8.3 ConsenSys Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
 - 11.8.4 ConsenSys Main Business Overview
 - 11.8.5 ConsenSys Latest Developments
- 11.9 IBM
 - 11.9.1 IBM Company Information
 - 11.9.2 IBM Blockchain in Gas and Oil Resource Management Product Offered
 - 11.9.3 IBM Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
 - 11.9.4 IBM Main Business Overview
 - 11.9.5 IBM Latest Developments
- 11.10 Oracle
 - 11.10.1 Oracle Company Information
 - 11.10.2 Oracle Blockchain in Gas and Oil Resource Management Product Offered

11.10.3 Oracle Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)

11.10.4 Oracle Main Business Overview

11.10.5 Oracle Latest Developments

11.11 Accenture

11.11.1 Accenture Company Information

11.11.2 Accenture Blockchain in Gas and Oil Resource Management Product Offered

11.11.3 Accenture Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)

11.11.4 Accenture Main Business Overview

11.11.5 Accenture Latest Developments

11.12 Wipro

11.12.1 Wipro Company Information

11.12.2 Wipro Blockchain in Gas and Oil Resource Management Product Offered

11.12.3 Wipro Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)

11.12.4 Wipro Main Business Overview

11.12.5 Wipro Latest Developments

11.13 Tata Consultancy Services

11.13.1 Tata Consultancy Services Company Information

11.13.2 Tata Consultancy Services Blockchain in Gas and Oil Resource Management Product Offered

11.13.3 Tata Consultancy Services Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)

11.13.4 Tata Consultancy Services Main Business Overview

11.13.5 Tata Consultancy Services Latest Developments

11.14 Ant Group

11.14.1 Ant Group Company Information

11.14.2 Ant Group Blockchain in Gas and Oil Resource Management Product Offered

11.14.3 Ant Group Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)

11.14.4 Ant Group Main Business Overview

11.14.5 Ant Group Latest Developments

11.15 Tencent Cloud

11.15.1 Tencent Cloud Company Information

11.15.2 Tencent Cloud Blockchain in Gas and Oil Resource Management Product Offered

11.15.3 Tencent Cloud Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)

- 11.15.4 Tencent Cloud Main Business Overview
- 11.15.5 Tencent Cloud Latest Developments
- 11.16 Huawei Cloud
 - 11.16.1 Huawei Cloud Company Information
 - 11.16.2 Huawei Cloud Blockchain in Gas and Oil Resource Management Product Offered
 - 11.16.3 Huawei Cloud Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
 - 11.16.4 Huawei Cloud Main Business Overview
 - 11.16.5 Huawei Cloud Latest Developments
- 11.17 NTT DATA
 - 11.17.1 NTT DATA Company Information
 - 11.17.2 NTT DATA Blockchain in Gas and Oil Resource Management Product Offered
 - 11.17.3 NTT DATA Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
 - 11.17.4 NTT DATA Main Business Overview
 - 11.17.5 NTT DATA Latest Developments
- 11.18 Mitsubishi Electric
 - 11.18.1 Mitsubishi Electric Company Information
 - 11.18.2 Mitsubishi Electric Blockchain in Gas and Oil Resource Management Product Offered
 - 11.18.3 Mitsubishi Electric Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
 - 11.18.4 Mitsubishi Electric Main Business Overview
 - 11.18.5 Mitsubishi Electric Latest Developments
- 11.19 Fujitsu
 - 11.19.1 Fujitsu Company Information
 - 11.19.2 Fujitsu Blockchain in Gas and Oil Resource Management Product Offered
 - 11.19.3 Fujitsu Blockchain in Gas and Oil Resource Management Revenue, Gross Margin and Market Share (2021-2026)
 - 11.19.4 Fujitsu Main Business Overview
 - 11.19.5 Fujitsu Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Blockchain in Gas and Oil Resource Management Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Blockchain in Gas and Oil Resource Management Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Private Blockchain

Table 4. Major Players of Public Blockchain

Table 5. Major Players of Consortium Blockchain

Table 6. Blockchain in Gas and Oil Resource Management Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 7. Global Blockchain in Gas and Oil Resource Management Market Size by Type (2021-2026) & (\$ millions)

Table 8. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Type (2021-2026)

Table 9. Major Players of Low-Frequency (Evidence-Centric) (100,000 Transactions/Day)

Table 12. Blockchain in Gas and Oil Resource Management Market Size CAGR by Data On-Chain Frequency (2021 VS 2025 VS 2032) & (\$ millions)

Table 13. Global Blockchain in Gas and Oil Resource Management Market Size by Data On-Chain Frequency (2021-2026) & (\$ millions)

Table 14. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Data On-Chain Frequency (2021-2026)

Table 15. Major Players of Single-Enterprise Internal Model

Table 16. Major Players of Small-Scale Alliance Model

Table 17. Major Players of Medium-Scale Alliance Model

Table 18. Major Players of Large-Scale Ecosystem Model

Table 19. Blockchain in Gas and Oil Resource Management Market Size CAGR by Number of Participants (2021 VS 2025 VS 2032) & (\$ millions)

Table 20. Global Blockchain in Gas and Oil Resource Management Market Size by Number of Participants (2021-2026) & (\$ millions)

Table 21. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Number of Participants (2021-2026)

Table 22. Blockchain in Gas and Oil Resource Management Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 23. Global Blockchain in Gas and Oil Resource Management Market Size by Application (2021-2026) & (\$ millions)

Table 24. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Application (2021-2026)

Table 25. Global Blockchain in Gas and Oil Resource Management Revenue by Player (2021-2026) & (\$ millions)

Table 26. Global Blockchain in Gas and Oil Resource Management Revenue Market Share by Player (2021-2026)

Table 27. Blockchain in Gas and Oil Resource Management Key Players Head office and Products Offered

Table 28. Blockchain in Gas and Oil Resource Management Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 29. New Products and Potential Entrants

Table 30. Mergers & Acquisitions, Expansion

Table 31. Global Blockchain in Gas and Oil Resource Management Market Size by Region (2021-2026) & (\$ millions)

Table 32. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Region (2021-2026)

Table 33. Global Blockchain in Gas and Oil Resource Management Revenue by Country/Region (2021-2026) & (\$ millions)

Table 34. Global Blockchain in Gas and Oil Resource Management Revenue Market Share by Country/Region (2021-2026)

Table 35. Americas Blockchain in Gas and Oil Resource Management Market Size by Country (2021-2026) & (\$ millions)

Table 36. Americas Blockchain in Gas and Oil Resource Management Market Size Market Share by Country (2021-2026)

Table 37. Americas Blockchain in Gas and Oil Resource Management Market Size by Type (2021-2026) & (\$ millions)

Table 38. Americas Blockchain in Gas and Oil Resource Management Market Size Market Share by Type (2021-2026)

Table 39. Americas Blockchain in Gas and Oil Resource Management Market Size by Application (2021-2026) & (\$ millions)

Table 40. Americas Blockchain in Gas and Oil Resource Management Market Size Market Share by Application (2021-2026)

Table 41. APAC Blockchain in Gas and Oil Resource Management Market Size by Region (2021-2026) & (\$ millions)

Table 42. APAC Blockchain in Gas and Oil Resource Management Market Size Market Share by Region (2021-2026)

Table 43. APAC Blockchain in Gas and Oil Resource Management Market Size by Type (2021-2026) & (\$ millions)

Table 44. APAC Blockchain in Gas and Oil Resource Management Market Size by

Application (2021-2026) & (\$ millions)

Table 45. Europe Blockchain in Gas and Oil Resource Management Market Size by Country (2021-2026) & (\$ millions)

Table 46. Europe Blockchain in Gas and Oil Resource Management Market Size Market Share by Country (2021-2026)

Table 47. Europe Blockchain in Gas and Oil Resource Management Market Size by Type (2021-2026) & (\$ millions)

Table 48. Europe Blockchain in Gas and Oil Resource Management Market Size by Application (2021-2026) & (\$ millions)

Table 49. Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size by Region (2021-2026) & (\$ millions)

Table 50. Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size by Type (2021-2026) & (\$ millions)

Table 51. Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size by Application (2021-2026) & (\$ millions)

Table 52. Key Market Drivers & Growth Opportunities of Blockchain in Gas and Oil Resource Management

Table 53. Key Market Challenges & Risks of Blockchain in Gas and Oil Resource Management

Table 54. Key Industry Trends of Blockchain in Gas and Oil Resource Management

Table 55. Global Blockchain in Gas and Oil Resource Management Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 56. Global Blockchain in Gas and Oil Resource Management Market Size Market Share Forecast by Region (2027-2032)

Table 57. Global Blockchain in Gas and Oil Resource Management Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 58. Global Blockchain in Gas and Oil Resource Management Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 59. Data Gumbo Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 60. Data Gumbo Blockchain in Gas and Oil Resource Management Product Offered

Table 61. Data Gumbo Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 62. Data Gumbo Main Business

Table 63. Data Gumbo Latest Developments

Table 64. VAKT Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 65. VAKT Blockchain in Gas and Oil Resource Management Product Offered

Table 66. VAKT Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 67. VAKT Main Business

Table 68. VAKT Latest Developments

Table 69. GuildOne Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 70. GuildOne Blockchain in Gas and Oil Resource Management Product Offered

Table 71. GuildOne Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 72. GuildOne Main Business

Table 73. GuildOne Latest Developments

Table 74. Finboot Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 75. Finboot Blockchain in Gas and Oil Resource Management Product Offered

Table 76. Finboot Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 77. Finboot Main Business

Table 78. Finboot Latest Developments

Table 79. Komgo Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 80. Komgo Blockchain in Gas and Oil Resource Management Product Offered

Table 81. Komgo Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 82. Komgo Main Business

Table 83. Komgo Latest Developments

Table 84. Energy Web Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 85. Energy Web Blockchain in Gas and Oil Resource Management Product Offered

Table 86. Energy Web Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 87. Energy Web Main Business

Table 88. Energy Web Latest Developments

Table 89. R3 Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 90. R3 Blockchain in Gas and Oil Resource Management Product Offered

Table 91. R3 Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 92. R3 Main Business

Table 93. R3 Latest Developments

Table 94. ConsenSys Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 95. ConsenSys Blockchain in Gas and Oil Resource Management Product Offered

Table 96. ConsenSys Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 97. ConsenSys Main Business

Table 98. ConsenSys Latest Developments

Table 99. IBM Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 100. IBM Blockchain in Gas and Oil Resource Management Product Offered

Table 101. IBM Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 102. IBM Main Business

Table 103. IBM Latest Developments

Table 104. Oracle Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 105. Oracle Blockchain in Gas and Oil Resource Management Product Offered

Table 106. Oracle Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 107. Oracle Main Business

Table 108. Oracle Latest Developments

Table 109. Accenture Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 110. Accenture Blockchain in Gas and Oil Resource Management Product Offered

Table 111. Accenture Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 112. Accenture Main Business

Table 113. Accenture Latest Developments

Table 114. Wipro Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 115. Wipro Blockchain in Gas and Oil Resource Management Product Offered

Table 116. Wipro Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 117. Wipro Main Business

Table 118. Wipro Latest Developments

Table 119. Tata Consultancy Services Details, Company Type, Blockchain in Gas and

Oil Resource Management Area Served and Its Competitors

Table 120. Tata Consultancy Services Blockchain in Gas and Oil Resource Management Product Offered

Table 121. Tata Consultancy Services Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 122. Tata Consultancy Services Main Business

Table 123. Tata Consultancy Services Latest Developments

Table 124. Ant Group Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 125. Ant Group Blockchain in Gas and Oil Resource Management Product Offered

Table 126. Ant Group Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 127. Ant Group Main Business

Table 128. Ant Group Latest Developments

Table 129. Tencent Cloud Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 130. Tencent Cloud Blockchain in Gas and Oil Resource Management Product Offered

Table 131. Tencent Cloud Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 132. Tencent Cloud Main Business

Table 133. Tencent Cloud Latest Developments

Table 134. Huawei Cloud Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 135. Huawei Cloud Blockchain in Gas and Oil Resource Management Product Offered

Table 136. Huawei Cloud Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 137. Huawei Cloud Main Business

Table 138. Huawei Cloud Latest Developments

Table 139. NTT DATA Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 140. NTT DATA Blockchain in Gas and Oil Resource Management Product Offered

Table 141. NTT DATA Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 142. NTT DATA Main Business

Table 143. NTT DATA Latest Developments

Table 144. Mitsubishi Electric Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 145. Mitsubishi Electric Blockchain in Gas and Oil Resource Management Product Offered

Table 146. Mitsubishi Electric Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 147. Mitsubishi Electric Main Business

Table 148. Mitsubishi Electric Latest Developments

Table 149. Fujitsu Details, Company Type, Blockchain in Gas and Oil Resource Management Area Served and Its Competitors

Table 150. Fujitsu Blockchain in Gas and Oil Resource Management Product Offered

Table 151. Fujitsu Blockchain in Gas and Oil Resource Management Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 152. Fujitsu Main Business

Table 153. Fujitsu Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Blockchain in Gas and Oil Resource Management Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Blockchain in Gas and Oil Resource Management Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Blockchain in Gas and Oil Resource Management Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Blockchain in Gas and Oil Resource Management Sales Market Share by Country/Region (2025)

Figure 8. Blockchain in Gas and Oil Resource Management Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Type in 2025

Figure 10. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Data On-Chain Frequency in 2025

Figure 11. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Number of Participants in 2025

Figure 12. Blockchain in Gas and Oil Resource Management in Oil and Gas Extraction

Figure 13. Global Blockchain in Gas and Oil Resource Management Market: Oil and Gas Extraction (2021-2026) & (\$ millions)

Figure 14. Blockchain in Gas and Oil Resource Management in Oil and Gas Transportation

Figure 15. Global Blockchain in Gas and Oil Resource Management Market: Oil and Gas Transportation (2021-2026) & (\$ millions)

Figure 16. Blockchain in Gas and Oil Resource Management in Others

Figure 17. Global Blockchain in Gas and Oil Resource Management Market: Others (2021-2026) & (\$ millions)

Figure 18. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Application in 2025

Figure 19. Global Blockchain in Gas and Oil Resource Management Revenue Market Share by Player in 2025

Figure 20. Global Blockchain in Gas and Oil Resource Management Market Size Market Share by Region (2021-2026)

Figure 21. Americas Blockchain in Gas and Oil Resource Management Market Size

2021-2026 (\$ millions)

Figure 22. APAC Blockchain in Gas and Oil Resource Management Market Size

2021-2026 (\$ millions)

Figure 23. Europe Blockchain in Gas and Oil Resource Management Market Size

2021-2026 (\$ millions)

Figure 24. Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size 2021-2026 (\$ millions)

Figure 25. Americas Blockchain in Gas and Oil Resource Management Value Market Share by Country in 2025

Figure 26. United States Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 27. Canada Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 28. Mexico Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 29. Brazil Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 30. APAC Blockchain in Gas and Oil Resource Management Market Size Market Share by Region in 2025

Figure 31. APAC Blockchain in Gas and Oil Resource Management Market Size Market Share by Type (2021-2026)

Figure 32. APAC Blockchain in Gas and Oil Resource Management Market Size Market Share by Application (2021-2026)

Figure 33. China Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 34. Japan Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 35. South Korea Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 36. Southeast Asia Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 37. India Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 38. Australia Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 39. Europe Blockchain in Gas and Oil Resource Management Market Size Market Share by Country in 2025

Figure 40. Europe Blockchain in Gas and Oil Resource Management Market Size Market Share by Type (2021-2026)

Figure 41. Europe Blockchain in Gas and Oil Resource Management Market Size Market Share by Application (2021-2026)

Figure 42. Germany Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 43. France Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 44. UK Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 45. Italy Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 46. Russia Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size Market Share by Region (2021-2026)

Figure 48. Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size Market Share by Type (2021-2026)

Figure 49. Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size Market Share by Application (2021-2026)

Figure 50. Egypt Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 51. South Africa Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 52. Israel Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 53. Turkey Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 54. GCC Countries Blockchain in Gas and Oil Resource Management Market Size Growth 2021-2026 (\$ millions)

Figure 55. Americas Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 56. APAC Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 57. Europe Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 58. Middle East & Africa Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 59. United States Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 60. Canada Blockchain in Gas and Oil Resource Management Market Size

2027-2032 (\$ millions)

Figure 61. Mexico Blockchain in Gas and Oil Resource Management Market Size

2027-2032 (\$ millions)

Figure 62. Brazil Blockchain in Gas and Oil Resource Management Market Size

2027-2032 (\$ millions)

Figure 63. China Blockchain in Gas and Oil Resource Management Market Size

2027-2032 (\$ millions)

Figure 64. Japan Blockchain in Gas and Oil Resource Management Market Size

2027-2032 (\$ millions)

Figure 65. Korea Blockchain in Gas and Oil Resource Management Market Size

2027-2032 (\$ millions)

Figure 66. Southeast Asia Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 67. India Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 68. Australia Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 69. Germany Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 70. France Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 71. UK Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 72. Italy Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 73. Russia Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 74. Egypt Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 75. South Africa Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 76. Israel Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 77. Turkey Blockchain in Gas and Oil Resource Management Market Size 2027-2032 (\$ millions)

Figure 78. Global Blockchain in Gas and Oil Resource Management Market Size Market Share Forecast by Type (2027-2032)

Figure 79. Global Blockchain in Gas and Oil Resource Management Market Size Market Share Forecast by Application (2027-2032)

Figure 80. GCC Countries Blockchain in Gas and Oil Resource Management Market
Size 2027-2032 (\$ millions)

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