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Oil and Gas Mobility Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, By Component (Software, Service), By Deployment (On-premises, Cloud-based), By Application (Asset Management, Data Management, Materials Management, Mobile Analytics, Risk and Regulatory Compliance, Workforce Automation, Others), By Region, By Competition 2020-2030F

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Abstracts

Market Overview

The Global Oil and Gas Mobility Market was valued at USD 23.12 Billion in 2024 and is expected to reach USD 65.61 Billion by 2030 with a CAGR of 18.99% through 2030. The Global Oil and Gas Mobility Market refers to the use of mobile technologies—including mobile devices, cloud computing, enterprise mobility management, and custom applications—to streamline operations across the oil and gas value chain.

From exploration and drilling to refining and distribution, mobility solutions enable field personnel, engineers, and executives to access data, communicate, and make decisions in real time. The market encompasses a range of services such as mobile workforce management, asset tracking, field data capture, and predictive maintenance, all aimed at improving productivity, safety, and agility in energy operations.

This market is witnessing rapid growth due to the industry's increasing focus on digital transformation and operational efficiency. With many oil and gas operations located in

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remote or hazardous environments, mobile solutions allow seamless communication between field staff and central offices, reducing downtime and improving response times. Moreover, mobility enables real-time monitoring of assets and infrastructure, predictive analytics for equipment failure, and enhanced health and safety compliance. As companies aim to lower operational costs and increase energy production, they are investing in rugged mobile devices, IoT sensors, 5G connectivity, and secure mobile platforms to support their digital oilfields.

The Oil and Gas Mobility Market is expected to expand significantly, driven by cloud adoption, remote collaboration needs, and automation initiatives. Emerging technologies like augmented reality (AR) for field service training, artificial intelligence (AI) for data-driven decisions, and blockchain for secure asset tracking are being integrated into mobile platforms. In addition, the ongoing energy transition and push for sustainability are compelling oil and gas companies to innovate their workflows, and mobile technology plays a central role in enabling agile, low-carbon operations. With rising global energy demand and a need for smarter, safer, and more connected operations, the mobility market in oil and gas is poised for robust, long-term growth.

Key Market Drivers

Rising Demand for Real-Time Operational Efficiency

The oil and gas industry faces immense pressure to optimize performance while controlling costs. Mobility solutions empower field teams with real-time access to critical data, enabling quicker decision-making and reduced operational downtime. From upstream exploration to downstream distribution, mobility tools enhance visibility across operations—helping manage logistics, personnel deployment, and asset performance remotely. Companies that adopted mobile-enabled field operations experienced a 15–20% increase in asset uptime due to faster diagnostics, reduced manual intervention, and real-time decision-making. With mobile access to monitoring systems and instant alerts, field engineers respond swiftly to equipment anomalies, significantly lowering unplanned downtimes and improving operational continuity across remote and high-risk production sites.

Mobile applications integrated with SCADA systems, GIS mapping, and remote monitoring allow engineers and field operators to monitor pipelines, well sites, and refinery conditions on the go. This not only reduces the time spent on manual inspections but also enhances proactive maintenance and regulatory compliance. Real-time dashboards, push notifications, and on-site data entry ensure faster issue

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resolution and better resource allocation.

Key Market Challenges

Data Security and Cyber Threats in Mobile Oilfield Operations

As oil and gas companies increasingly adopt mobile technologies across their operations, they expose themselves to heightened risks of data breaches, cyberattacks, and unauthorized access. Mobile devices are inherently more vulnerable to security threats due to their portability, varied access points, and use in unstructured, often remote environments. In the context of oil and gas, where mobile devices connect to mission-critical systems—such as Supervisory Control and Data Acquisition systems, Enterprise Resource Planning, and industrial Internet of Things frameworks—a breach can compromise sensitive operational data, cause service disruptions, and result in financial and reputational damage. Further, the integration of mobile platforms with cloud services and third-party applications introduces multiple endpoints and potential vulnerabilities. As data travels between field operators, centralized command centers, and cloud storage platforms, ensuring end-to-end encryption, strong authentication protocols, and robust device management becomes increasingly challenging. The evolving sophistication of cyber threats—including ransomware attacks, phishing schemes, and zero-day vulnerabilities—requires companies to constantly update their security posture and infrastructure.

In addition to technical threats, the human factor remains a significant vulnerability. Many field personnel operate in isolated conditions with limited oversight, making device misuse, password sharing, or delay in applying updates a common problem. Furthermore, energy companies often work with multiple subcontractors and equipment vendors, adding complexity to securing their digital ecosystem. Without standardized security protocols across partners, gaps in mobile security policies can easily be exploited. Data sovereignty laws and regional compliance requirements further complicate global deployments, especially for multinational oil and gas operators. For instance, mobile data used in cross-border projects may require localization or face legal restrictions under regulations like the General Data Protection Regulation or other regional mandates. To effectively mitigate these risks, oil and gas enterprises must invest heavily in mobile device management platforms, train their workforce on cybersecurity best practices, and collaborate with regulators and cybersecurity firms to maintain resilience. Without such measures, the risk of a mobile-driven cyber incident could undermine the very efficiency and innovation mobility promises.

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Key Market Trends

Integration of Artificial Intelligence for Predictive and Prescriptive Mobility Solutions

The integration of artificial intelligence into mobile platforms is transforming operational decision-making across the oil and gas value chain. Companies are now deploying artificial intelligence-driven mobile applications that can forecast maintenance requirements, predict asset failures, and optimize resource allocation in real time. Mobile applications linked to machine learning algorithms help field engineers receive tailored suggestions, improving response time and decision accuracy. Artificial intelligence also enables prescriptive analytics that guide on-ground personnel through step-by-step repair or inspection procedures, reducing dependency on centralized control rooms and shortening downtime windows.

Artificial intelligence-based mobile platforms further support energy companies in managing volatile market conditions by providing dynamic operational insights. For example, mobile dashboards powered by artificial intelligence can predict fluctuations in fuel demand, optimize supply chains, or automatically adjust resource allocation based on predictive inputs. These systems reduce cost inefficiencies and allow energy firms to respond faster to external shocks. As artificial intelligence models become more sophisticated and context-aware, their integration into mobile infrastructure will become indispensable for oil and gas enterprises pursuing high-performance, low-risk operations.

Key Market Players

ABB Ltd.

Honeywell International Inc.

Siemens AG

Schneider Electric SE

Emerson Electric Co.

IBM Corporation

SAP SE

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AVEVA Group plc

Report Scope:

In this report, the Global Oil and Gas Mobility Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Oil and Gas Mobility Market, By Component:

Software

Service

Oil and Gas Mobility Market, By Deployment:

On-premises

Cloud-based

Oil and Gas Mobility Market, By Application:

Asset Management

Data Management

Materials Management

Mobile Analytics

Risk and Regulatory Compliance

Workforce Automation

Others

Oil and Gas Mobility Market, By Region:

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North America

- United States
- Canada
- Mexico

Europe

- Germany
- France
- United Kingdom
- Italy
- Spain

Asia Pacific

- China
- India
- Japan
- South Korea
- Australia

Middle East & Africa

- Saudi Arabia
- UAE

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South Africa

South America

Brazil

Colombia

Argentina

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Oil and Gas Mobility Market.

Available Customizations:

Global Oil and Gas Mobility Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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