

Pipeline Integrity Management Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sector (Crude Oil, Natural Gas), By Location of Deployment (Onshore, Offshore), By Service Type (Inspection Services, Cleaning Services, Repair & Refurbishment Services), By Region & Competition, 2019-2029F

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Abstracts

Global Pipeline Integrity Management Market was valued at USD 9.75 Billion in 2023 and is anticipated to project robust growth in the forecast period with a CAGR 3.41% through 2029F. The Global Pipeline Integrity Management Market is experiencing robust growth, driven by escalating demands for efficient, safe, and reliable energy transportation. The market's prominence is underscored by the critical role it plays in ensuring the integrity of extensive pipeline networks worldwide. With a focus on preventive maintenance and early detection of potential threats, pipeline operators are increasingly investing in advanced technologies, inspection methodologies, and comprehensive integrity management strategies. The market is characterized by the dominance of key segments such as Inspection Services, which proactively scrutinize pipelines for anomalies, corrosion, and material degradation. As the world continues to rely on pipelines for the transportation of oil, natural gas, and other vital resources, the Pipeline Integrity Management Market remains pivotal in addressing challenges associated with aging infrastructure, stringent regulatory compliance, and the need for advanced technologies. The industry's evolution includes the integration of innovative solutions, such as smart pigs, drones, and data analytics, to enhance the efficiency and effectiveness of integrity management practices. Amidst growing global concerns for environmental sustainability and safety, the Pipeline Integrity Management Market is poised to play a crucial role in shaping the future of energy transportation by ensuring

the reliability and resilience of critical pipeline infrastructure.

Key Market Drivers

Increasing Investment in Infrastructure Development:

The global Pipeline Integrity Management market is driven by a surge in investment in infrastructure development. As countries expand their energy networks, including oil and gas pipelines, the need for robust integrity management solutions rises. Investment in new pipeline projects, coupled with a focus on maintaining the integrity of existing infrastructure, propels the market's growth. Operators prioritize advanced technologies and strategies to ensure the reliability and safety of pipelines, aligning with the escalating global demand for energy transport.

Stringent Regulatory Mandates:

Stringent regulatory mandates play a pivotal role in driving the Pipeline Integrity Management market. Governments worldwide are imposing strict regulations on pipeline operators to ensure the safety, environmental compliance, and reliability of their infrastructure. The need to adhere to these regulations compels operators to invest in advanced integrity management technologies, inspection methodologies, and compliance reporting systems. As regulatory standards evolve and become more comprehensive, the market responds with innovations to meet and exceed these requirements, contributing to the overall growth of the industry.

Advancements in Inspection Technologies:

Advancements in inspection technologies significantly drive the global Pipeline Integrity Management market. The development of advanced tools such as smart pigs, drones, and sophisticated sensors enables more accurate and comprehensive pipeline inspections. These technologies enhance the ability to detect and assess potential threats to pipeline integrity, facilitating proactive maintenance and reducing the risk of incidents. The continuous evolution of inspection technologies, including the integration of artificial intelligence and machine learning, positions the market to address complex challenges and enhance the overall effectiveness of integrity management strategies.

Growing Concerns about Pipeline Safety:

Increasing concerns about pipeline safety serve as a powerful driver for the Pipeline

Integrity Management market. Public awareness and regulatory scrutiny surrounding pipeline incidents, including leaks and ruptures, emphasize the critical need for robust safety measures. Pipeline operators prioritize safety in their integrity management strategies, investing in technologies that can detect and prevent potential threats to pipeline integrity. The market responds to this heightened focus on safety by providing innovative solutions that address risks comprehensively, safeguarding both the environment and public well-being.

Rising Incidence of Pipeline Failures:

The rising incidence of pipeline failures globally is a key driver for the Pipeline Integrity Management market. High-profile incidents, including leaks, spills, and ruptures, underscore the urgent need for effective integrity management solutions. The economic, environmental, and reputational consequences of such failures propel pipeline operators to invest in advanced technologies for continuous monitoring, inspection, and maintenance. The market's response to the increasing frequency of failures involves the development and adoption of innovative solutions that enhance the resilience and reliability of pipeline infrastructure, mitigating risks and minimizing the impact of potential incidents.

Key Market Challenges

Aging Pipeline Infrastructure:

The global Pipeline Integrity Management market grapples with the challenge of aging infrastructure. Many pipelines worldwide are reaching or exceeding their designed operational life, leading to increased risks of corrosion, material degradation, and structural issues. Managing the integrity of aging pipelines requires significant investments in inspection, maintenance, and rehabilitation to ensure the continued safe and reliable operation of these critical assets.

Complex Regulatory Environment:

The Pipeline Integrity Management market faces complexity in navigating diverse and evolving regulatory frameworks. Compliance with various regional and international standards poses challenges for pipeline operators. Differing regulations on inspection frequencies, reporting requirements, and safety protocols demand a comprehensive understanding of local guidelines. Meeting these regulatory expectations while maintaining cost-efficiency presents an ongoing challenge for industry stakeholders in

the pursuit of robust integrity management.

Pipeline Security and Cyber Threats:

Increasing concerns about pipeline security and cyber threats pose significant challenges for Pipeline Integrity Management. As pipelines become more interconnected through digital technologies, the risk of cyberattacks on critical infrastructure rises. Safeguarding against cyber threats requires substantial investments in cybersecurity measures, employee training, and the implementation of secure technologies. Ensuring the integrity of pipeline data and preventing unauthorized access is crucial for maintaining the overall security and resilience of pipeline systems.

Limited Resources for Inspection and Maintenance:

The challenge of limited resources, both financial and human, poses a constraint on effective Pipeline Integrity Management. Inspecting and maintaining vast networks of pipelines require substantial investments. Balancing the need for regular inspections, preventive maintenance, and addressing identified issues with budget constraints is a constant challenge. Prioritizing high-risk areas, optimizing inspection strategies, and exploring cost-effective technologies become essential in managing integrity effectively within the limitations of available resources.

Environmental and Public Perception:

The global Pipeline Integrity Management market faces challenges related to environmental impact and public perception. Pipeline incidents, such as leaks or spills, can have significant environmental consequences, leading to public concern and regulatory scrutiny. Ensuring the integrity of pipelines and preventing environmental incidents requires robust risk management strategies, advanced leak detection technologies, and transparent communication with the public. The challenge lies in maintaining public trust, meeting environmental expectations, and mitigating the potential fallout from incidents that could impact the industry's reputation.

Key Market Trends

Adoption of Advanced Inspection Technologies:

The Pipeline Integrity Management market is witnessing a trend towards the widespread adoption of advanced inspection technologies. Technologies such as smart

pigging, drones, and advanced sensors enable more accurate and efficient monitoring of pipeline integrity. This trend is driven by the industry's focus on preventive maintenance and early detection of potential issues, minimizing the risk of pipeline failures and ensuring the overall safety and reliability of the infrastructure.

Growing Emphasis on Data Analytics and Predictive Maintenance:

Data analytics and predictive maintenance are becoming integral to Pipeline Integrity Management. The industry is leveraging big data analytics and machine learning to process large volumes of data generated by pipeline monitoring systems. This trend enables operators to identify patterns, predict potential failures, and proactively address issues before they escalate. The shift towards predictive maintenance optimizes operational efficiency, reduces downtime, and enhances the overall integrity and performance of the pipeline infrastructure.

Integration of IoT and Remote Monitoring Solutions:

The integration of Internet of Things (IoT) technologies and remote monitoring solutions is a notable trend in Pipeline Integrity Management. IoT sensors and connected devices are deployed along pipelines to gather real-time data on factors like temperature, pressure, and corrosion. This trend allows operators to remotely monitor pipeline conditions, receive instant alerts for anomalies, and make data-driven decisions. The adoption of IoT and remote monitoring enhances operational visibility, facilitates quick response to potential threats, and contributes to the overall integrity of the pipeline system.

Focus on Environmental and Regulatory Compliance:

There is a growing trend towards increased emphasis on environmental and regulatory compliance in Pipeline Integrity Management. As environmental concerns and regulatory requirements become more stringent, pipeline operators are investing in technologies and strategies that ensure compliance with safety and environmental standards. This trend includes the implementation of leak detection systems, corrosion control measures, and comprehensive integrity management programs to meet regulatory guidelines and minimize the environmental impact of pipeline operations.

Rise in Use of Non-Destructive Testing (NDT) Techniques:

Non-Destructive Testing (NDT) techniques are gaining prominence in Pipeline Integrity

Management. These techniques, including ultrasonic testing, magnetic flux leakage, and radiography, allow operators to assess the structural integrity of pipelines without causing damage. The market trend towards NDT techniques is driven by the need for thorough and non-intrusive inspection methods, particularly in aging pipeline infrastructure. The adoption of NDT contributes to accurate assessment, early detection of defects, and informed decision-making, ultimately enhancing the overall integrity and safety of pipelines.

Segmental Insights

Sector Insights

Crude Oil segment dominated in the global pipeline integrity management market in 2023. The dominance of the Crude Oil sector in the Pipeline Integrity Management market is underscored by the sheer scale of infrastructure dedicated to crude oil transportation. With the world's increasing reliance on petroleum-based products, the demand for effective and reliable crude oil pipeline systems has witnessed a continuous upward trajectory. Pipelines remain the backbone of the global energy supply chain, and maintaining the integrity of these pipelines becomes imperative to ensure the uninterrupted flow of crude oil and prevent potentially catastrophic incidents.

The economic significance of crude oil and the strategic importance of securing its supply contribute to the heightened focus on Pipeline Integrity Management within the Crude Oil sector. Countries heavily invested in oil production and export, such as those in the Middle East, North America, and parts of Asia, prioritize robust integrity management practices to safeguard their economic lifelines. The scale and economic impact of a crude oil pipeline failure necessitate advanced technologies, regular inspections, and comprehensive integrity management strategies to prevent and mitigate potential risks.

Global shift towards cleaner energy sources has not diminished the demand for crude oil. While the energy landscape evolves, crude oil remains a critical component in sectors such as transportation, petrochemicals, and manufacturing. As a result, the integrity of crude oil pipelines remains paramount, and investments in Pipeline Integrity Management solutions within the Crude Oil sector continue to grow to address the challenges associated with aging infrastructure, environmental concerns, and regulatory compliance.

Location of Deployment Insights

Onshore segment dominated in the global pipeline integrity management market in 2023. The Onshore segment's dominance is fueled by the sheer volume of onshore pipelines, which constitute the majority of global pipeline infrastructure. These pipelines traverse vast distances, connecting oil and gas fields with refining facilities and distribution networks. The strategic importance of onshore pipelines is evident in their role as the primary arteries of the global energy supply chain, facilitating the efficient and cost-effective transport of hydrocarbons overland.

The economic significance of onshore pipeline systems cannot be overstated. Countries heavily invested in oil and gas production, such as those in the Middle East, North America, and Russia, rely extensively on vast onshore networks to transport these valuable resources. Maintaining the integrity of onshore pipelines is imperative for ensuring the security of energy supply, sustaining economic development, and minimizing disruptions to global energy markets.

The Onshore segment's dominance in the Pipeline Integrity Management market is further accentuated by the complexity and diverse challenges associated with terrestrial pipeline deployments. Onshore pipelines traverse various terrains, including deserts, mountains, and urban areas, presenting unique integrity management challenges such as soil erosion, land subsidence, and third-party interference. Addressing these challenges requires advanced technologies, comprehensive monitoring systems, and tailored integrity management strategies.

While Offshore deployments, particularly subsea pipelines, play a crucial role in transporting hydrocarbons from offshore production platforms to onshore facilities, the sheer scale and strategic importance of onshore pipelines overshadow their offshore counterparts. Offshore pipelines face distinct challenges, including harsh environmental conditions, seabed subsidence, and complex installation and maintenance procedures. These challenges, coupled with the considerable cost of offshore pipeline projects, contribute to the Onshore segment's dominance in the global Pipeline Integrity Management market.

Regional Insights

Asia Pacific dominated the Global Pipeline Integrity Management Market in 2023. The Asia-Pacific region has emerged as a dominant force in the global Pipeline Integrity Management market due to a confluence of factors that position the region at the forefront of infrastructure development and energy demand. One primary driver is the

region's rapid economic growth, leading to substantial investments in energy and pipeline infrastructure. Countries like China and India are witnessing unprecedented urbanization and industrialization, driving the need for extensive pipeline networks to meet growing energy demands.

Moreover, the Asia-Pacific region is home to a significant portion of the world's proven oil and gas reserves. As these countries strive for energy security and self-sufficiency, they heavily invest in the exploration, production, and transportation of hydrocarbons. This necessitates a robust pipeline network, and consequently, a heightened focus on Pipeline Integrity Management to ensure the safety and reliability of these critical energy arteries.

The strategic importance of the Asia-Pacific region in global trade routes further accentuates the demand for extensive pipeline networks. Countries in the region are investing heavily in developing and expanding their pipeline infrastructure to facilitate the transportation of energy resources, both domestically and for export. As a result, the need for advanced Pipeline Integrity Management solutions becomes paramount to safeguard against potential incidents and ensure the uninterrupted flow of energy resources.

Furthermore, governments in the Asia-Pacific region are increasingly recognizing the environmental and safety implications of pipeline operations. This has led to the implementation of stringent regulatory frameworks mandating comprehensive integrity management practices. Pipeline operators in the region are, therefore, compelled to adopt advanced technologies and strategies to comply with these regulations and maintain a high standard of safety and environmental responsibility.

The Asia-Pacific dominance in the global Pipeline Integrity Management market is also influenced by the region's proactiveness in adopting innovative technologies. As the market evolves, there is a growing trend toward the integration of advanced inspection technologies, data analytics, and predictive maintenance solutions. Countries in the Asia-Pacific region are quick to embrace these technological advancements to enhance the efficiency and effectiveness of their integrity management practices.

Key Market Players

T.D. Williamson, Inc.

T?V Rheinland AG

Emerson Electric Co.

Baker Hughes Company

SGS Group

Intertek Group Plc

Bureau Veritas Group

Oceaneering International, Inc.

Infosys Limited

Halliburton Energy Services, Inc.

Report Scope:

In this report, the Global Pipeline Integrity Management Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Pipeline Integrity Management Market, By Sector:

Crude Oil

Natural Gas

Pipeline Integrity Management Market, By Location of Deployment:

Onshore

Offshore

Pipeline Integrity Management Market, By Service Type:

Inspection Services

Cleaning Services

Repair & Refurbishment Services

Pipeline Integrity Management Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Pipeline Integrity Management Market.

Available Customizations:

Global Pipeline Integrity Management 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).

Contents

1. SERVICE OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Baseline Methodology
- 2.2. Key Industry Partners
- 2.3. Major Association and Secondary Sources
- 2.4. Forecasting Methodology
- 2.5. Data Triangulation & Validation
- 2.6. Assumptions and Limitations

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON GLOBAL PIPELINE INTEGRITY MANAGEMENT MARKET

5. VOICE OF CUSTOMER

6. GLOBAL PIPELINE INTEGRITY MANAGEMENT MARKET OVERVIEW

7. GLOBAL PIPELINE INTEGRITY MANAGEMENT MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Sector (Crude Oil, Natural Gas)
 - 7.2.2. By Location of Deployment (Onshore, Offshore)
 - 7.2.3. By Service Type (Inspection Services, Cleaning Services, Repair & Refurbishment Services)
 - 7.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

7.3. By Company (2023)

7.4. Market Map

8. NORTH AMERICA PIPELINE INTEGRITY MANAGEMENT MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Sector

8.2.2. By Location of Deployment

8.2.3. By Service Type

8.2.4. By Country

8.3. North America: Country Analysis

8.3.1. United States Pipeline Integrity Management Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Sector

8.3.1.2.2. By Location of Deployment

8.3.1.2.3. By Service Type

8.3.2. Canada Pipeline Integrity Management Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Sector

8.3.2.2.2. By Location of Deployment

8.3.2.2.3. By Service Type

8.3.3. Mexico Pipeline Integrity Management Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Sector

8.3.3.2.2. By Location of Deployment

8.3.3.2.3. By Service Type

9. EUROPE PIPELINE INTEGRITY MANAGEMENT MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Sector

9.2.2. By Location of Deployment

9.2.3. By Service Type

9.2.4. By Country

9.3. Europe: Country Analysis

9.3.1. Germany Pipeline Integrity Management Market Outlook

9.3.1.1. Market Size & Forecast

9.3.1.1.1. By Value

9.3.1.2. Market Share & Forecast

9.3.1.2.1. By Sector

9.3.1.2.2. By Location of Deployment

9.3.1.2.3. By Service Type

9.3.2. France Pipeline Integrity Management Market Outlook

9.3.2.1. Market Size & Forecast

9.3.2.1.1. By Value

9.3.2.2. Market Share & Forecast

9.3.2.2.1. By Sector

9.3.2.2.2. By Location of Deployment

9.3.2.2.3. By Service Type

9.3.3. United Kingdom Pipeline Integrity Management Market Outlook

9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Sector

9.3.3.2.2. By Location of Deployment

9.3.3.2.3. By Service Type

9.3.4. Italy Pipeline Integrity Management Market Outlook

9.3.4.1. Market Size & Forecast

9.3.4.1.1. By Value

9.3.4.2. Market Share & Forecast

9.3.4.2.1. By Sector

9.3.4.2.2. By Location of Deployment

9.3.4.2.3. By Service Type

9.3.5. Spain Pipeline Integrity Management Market Outlook

9.3.5.1. Market Size & Forecast

9.3.5.1.1. By Value

9.3.5.2. Market Share & Forecast

9.3.5.2.1. By Sector

9.3.5.2.2. By Location of Deployment

9.3.5.2.3. By Service Type

10. SOUTH AMERICA PIPELINE INTEGRITY MANAGEMENT MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Sector

10.2.2. By Location of Deployment

10.2.3. By Service Type

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Pipeline Integrity Management Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Sector

10.3.1.2.2. By Location of Deployment

10.3.1.2.3. By Service Type

10.3.2. Colombia Pipeline Integrity Management Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Sector

10.3.2.2.2. By Location of Deployment

10.3.2.2.3. By Service Type

10.3.3. Argentina Pipeline Integrity Management Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Sector

10.3.3.2.2. By Location of Deployment

10.3.3.2.3. By Service Type

11. MIDDLE EAST & AFRICA PIPELINE INTEGRITY MANAGEMENT MARKET OUTLOOK

11.1. Market Size & Forecast

- 11.1.1. By Value
- 11.2. Market Share & Forecast
 - 11.2.1. By Sector
 - 11.2.2. By Location of Deployment
 - 11.2.3. By Service Type
 - 11.2.4. By Country
- 11.3. Middle East & Africa: Country Analysis
 - 11.3.1. Saudi Arabia Pipeline Integrity Management Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value
 - 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Sector
 - 11.3.1.2.2. By Location of Deployment
 - 11.3.1.2.3. By Service Type
 - 11.3.2. UAE Pipeline Integrity Management Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Sector
 - 11.3.2.2.2. By Location of Deployment
 - 11.3.2.2.3. By Service Type
 - 11.3.3. South Africa Pipeline Integrity Management Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Sector
 - 11.3.3.2.2. By Location of Deployment
 - 11.3.3.2.3. By Service Type

12. ASIA PACIFIC PIPELINE INTEGRITY MANAGEMENT MARKET OUTLOOK

- 12.1. Market Size & Forecast
 - 12.1.1. By Value
- 12.2. Market Share & Forecast
 - 12.2.1. By Sector
 - 12.2.2. By Location of Deployment
 - 12.2.3. By Service Type
 - 12.2.4. By Country
- 12.3. Asia Pacific: Country Analysis

12.3.1. China Pipeline Integrity Management Market Outlook

12.3.1.1. Market Size & Forecast

12.3.1.1.1. By Value

12.3.1.2. Market Share & Forecast

12.3.1.2.1. By Sector

12.3.1.2.2. By Location of Deployment

12.3.1.2.3. By Service Type

12.3.2. India Pipeline Integrity Management Market Outlook

12.3.2.1. Market Size & Forecast

12.3.2.1.1. By Value

12.3.2.2. Market Share & Forecast

12.3.2.2.1. By Sector

12.3.2.2.2. By Location of Deployment

12.3.2.2.3. By Service Type

12.3.3. Japan Pipeline Integrity Management Market Outlook

12.3.3.1. Market Size & Forecast

12.3.3.1.1. By Value

12.3.3.2. Market Share & Forecast

12.3.3.2.1. By Sector

12.3.3.2.2. By Location of Deployment

12.3.3.2.3. By Service Type

12.3.4. South Korea Pipeline Integrity Management Market Outlook

12.3.4.1. Market Size & Forecast

12.3.4.1.1. By Value

12.3.4.2. Market Share & Forecast

12.3.4.2.1. By Sector

12.3.4.2.2. By Location of Deployment

12.3.4.2.3. By Service Type

12.3.5. Australia Pipeline Integrity Management Market Outlook

12.3.5.1. Market Size & Forecast

12.3.5.1.1. By Value

12.3.5.2. Market Share & Forecast

12.3.5.2.1. By Sector

12.3.5.2.2. By Location of Deployment

12.3.5.2.3. By Service Type

13. MARKET DYNAMICS

13.1. Drivers

13.2. Challenges

14. MARKET TRENDS AND DEVELOPMENTS

15. COMPANY PROFILES

15.1. T.D. Williamson, Inc.

- 15.1.1. Business Overview
- 15.1.2. Key Revenue and Financials
- 15.1.3. Recent Developments
- 15.1.4. Key Personnel
- 15.1.5. Key Product/Services Offered

15.2. T?V Rheinland AG

- 15.2.1. Business Overview
- 15.2.2. Key Revenue and Financials
- 15.2.3. Recent Developments
- 15.2.4. Key Personnel
- 15.2.5. Key Product/Services Offered

15.3. Emerson Electric Co.

- 15.3.1. Business Overview
- 15.3.2. Key Revenue and Financials
- 15.3.3. Recent Developments
- 15.3.4. Key Personnel
- 15.3.5. Key Product/Services Offered

15.4. Baker Hughes Company

- 15.4.1. Business Overview
- 15.4.2. Key Revenue and Financials
- 15.4.3. Recent Developments
- 15.4.4. Key Personnel
- 15.4.5. Key Product/Services Offered

15.5. SGS Group

- 15.5.1. Business Overview
- 15.5.2. Key Revenue and Financials
- 15.5.3. Recent Developments
- 15.5.4. Key Personnel
- 15.5.5. Key Product/Services Offered

15.6. Intertek Group Plc

- 15.6.1. Business Overview
- 15.6.2. Key Revenue and Financials

- 15.6.3. Recent Developments
- 15.6.4. Key Personnel
- 15.6.5. Key Product/Services Offered
- 15.7. Bureau Veritas Group
 - 15.7.1. Business Overview
 - 15.7.2. Key Revenue and Financials
 - 15.7.3. Recent Developments
 - 15.7.4. Key Personnel
 - 15.7.5. Key Product/Services Offered
- 15.8. Oceaneering International, Inc.
 - 15.8.1. Business Overview
 - 15.8.2. Key Revenue and Financials
 - 15.8.3. Recent Developments
 - 15.8.4. Key Personnel
 - 15.8.5. Key Product/Services Offered
- 15.9. Infosys Limited
 - 15.9.1. Business Overview
 - 15.9.2. Key Revenue and Financials
 - 15.9.3. Recent Developments
 - 15.9.4. Key Personnel
 - 15.9.5. Key Product/Services Offered
- 15.10. Halliburton Energy Services, Inc.
 - 15.10.1. Business Overview
 - 15.10.2. Key Revenue and Financials
 - 15.10.3. Recent Developments
 - 15.10.4. Key Personnel
 - 15.10.5. Key Product/Services Offered

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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