Market Publishers

Saudi Arabia Pipeline Monitoring System Market–By Type (Metallic, Non-metallic), By Technology (Ultrasonic, PIG, Smart Ball, Magnetic Flux Leakage, Fiber Optic Technology, Others), By End-User Industry (Crude & Refined Petroleum, Water & Wastewater, Others), By Region, Competition, Opportunities and Forecast, 2018-2028

Abstracts

Saudi Arabia pipeline monitoring system market is anticipated to grow at a rapid pace during the forecast period due to the installation of more pipelines for the transportation and distribution of oil and gas supplies. Additionally, there is a growing need for pipeline monitoring systems due to the increase in pipeline leaks caused by corrosion. Manufacturers of oil and gas are quickly implementing monitoring systems to cut waste, reduce their environmental impact, and ensure safety.

On the order hand, because of the upgraded pipeline infrastructure, the deployment of leak detection systems has ensured safety, viability, real-time analysis, and increased performance. Additionally, the number of thefts, internal leaks, ruptures, and geo-hazards has decreased since pipeline monitoring/detection systems were installed. Additionally, the introduction of pigging technology within both old and new pipelines is contributing to the market's expansion. Pigging technology is used to carry out tasks, including pipeline testing, maintenance, clearing, and inspection.

Modern pipeline infrastructure features such as human machine interface (HMI), distributed vibration sensing (DVS)/distributed acoustic sensing (DAS), distributed temperature sensing (DTS), and programmable logic controller (PLC) have improved the ability to monitor downstream processes and have improved the detection

algorithms. The Saudi Arabian pipeline monitoring market has grown tremendously due to the advancing technical solutions integrated into monitoring systems.

Leakage detection systems are divided into three main categories by manufacturers using hardware- and software-based technologies: internal, external, and non-technical methods. Ground penetrating radar, pressure point analysis, fiber optic sensor, negative pressure wave, acoustic emission, and dynamic modelling are some of the detection/monitoring techniques.

By analyzing risk and bacteriological control programs, pipeline monitoring systems are used to find corrosion, flow constrictions, and liquid accumulations and collect samples. Plants and refineries, refined goods, wet gas and crude pipelines, water and wastewater, offshore platforms, and pipeline terminals are the typical applications for pipeline monitoring systems. Accurate real-time monitoring of internal corrosion, gases, fluids, and oil pollution is provided by the monitoring and detection systems.

Increasing Need for Pipeline Monitoring

The infrastructure for pipelines has grown as a result of the rise of oil and gas demand in the majority of the world's major nations. Installation of pipelines for the distribution and transportation of oil and gas products spans many different regions and hundreds of kilometers. Such vast networks of pipelines have increased the demand for pipeline monitoring systems. Pipeline companies use sophisticated sensors and monitoring equipment to find leaks in pipeline systems. Companies are concentrating on implementing physical security solutions such as aerial and ground monitoring and video surveillance to safeguard pipelines from terrorist attacks and sabotage. Growing pipeline infrastructure will bring profits to pipeline surveillance system suppliers in Saudi Arabia in the years to come.

Rising Awareness for Sustainable Resource Management

In the Middle East, including Saudi Arabia, there have been numerous attacks against gas facilities and refineries. Modern pipeline facilities (PLCs) largely rely on information and communication technologies, including programmable logic controllers (PLCs), intelligent video surveillance (IVS), human machine interfaces (HMI), and supervisory control and data acquisition (SCADA). For oil and gas firms who want to control and operate their operations remotely, these technologies create a digital pipeline infrastructure. To avoid making systems vulnerable to cyberattacks and protect

networks, businesses have increased their investment in network monitoring and are installing comprehensive monitoring solutions. All these factors are driving the Saudi Arabia pipeline monitoring system market.

Lack of Funding

Lack of funding is preventing the development of aging infrastructure, which leads to poor metering, leaks, and poor management of essential pipeline infrastructures such as pipelines, valves, and hydrants. Ageing has become a problem for several industries, including pipelines for water, oil, gas, and chemicals. The primary cause of the lack of funding for pipeline monitoring systems is the unwillingness of federal agencies to support R&D. Many small and medium-sized utilities are unwilling to pay these solutions' high initial costs. Additionally, the infrastructure for pipelines develops slowly. Infrastructure parts such as pipeline pipes, valves, and meters last for decades after installation. As the older solutions are expensive and durable, utilities are reluctant to replace pipeline systems. Good integration with cutting-edge infrastructure can be addressed by sustainable resource management. Involving stakeholders will also reduce fragmented and disorganized approaches to pipeline safety issues, leading to a more intelligent pipeline management strategy.

Rising Security Concerns

The Government of Saudi Arabia is attempting to develop and put into action ways to protect pipelines from these dangers, which include terrorist attacks, sabotage, illegal wiretapping, and cyberattacks. As a result, it is crucial for businesses to implement comprehensive solutions that adhere to all applicable laws, regulations, and rules. Moreover, to secure pipelines, cutting-edge technology, and solutions, including SCADA, aqua-based systems, DAS, unmanned aerial vehicles, and video monitoring are now required. Additionally, a major trend in the Saudi Arabia pipeline monitoring system market is the use of artificial intelligence (AI) and the Internet of Things (IoT) for advanced pipeline issue prediction. Moreover, the global spread of the COVID-19 pandemic had a significant effect on the market's expansion because of the restrictions imposed in various regions across the world, which decreased the demand for energy products such as crude oil, diesel, and petrol. This resulted in a decrease in company investment in the adoption of advanced technologies, which temporarily slowed the demand for pipeline security systems. However, the market is anticipated to pick up steam during the forecast period as things return to normal and businesses start to open.

Increasing Demand for Metallic Pipelines

The Saudi Arabia pipeline monitoring system market is mostly expanding as a result of the rising demand for metallic pipes. Additional types of metallic pipes include cast-iron pipes, corrugated pipes, copper pipes, stainless steel pipes, aluminium pipes, and pipes made of ductile iron. The end-user industries prefer steel-based pipes because iron-based pipes might corrode when exposed to highly oxygenated water steam. Compared to non-metallic pipes, metallic pipes are less corrosion resistant and more heat sensitive. Moreover, the ongoing expansion of oil and gas exploration and production activities will drive the growth rate of the Saudi Arabia pipeline monitoring system market. Therefore, it is anticipated that the large investments in R&D activities will propel the growth of the Saudi Arabia pipeline monitoring system market during the forecast period.

Market Segmentation

The Saudi Arabia pipeline monitoring system market is divided into type, technology, and end-user industries. Based on type, the market is divided into metallic and non-metallic. Based on technology, the market is segmented into ultrasonic, PIG, smart ball, magnetic flux leakage, fiber optic technology, and others. Based on end-user industry, the market is segmented into crude & refined petroleum, water & wastewater, and others.

Market Players

Major market players in the Saudi Arabia pipeline monitoring system market are ABB Electrical Industries Co. Ltd, Honeywell Turki Arabia Ltd., Siemens Ltd, Huawei Technologies Co., Ltd., Ge - Grid Solutions Arabia Ltd, Rockwell Automation Saudi Arabia, Schneider Electric Saudi Arabia, Xylem Inc., Luna Innovations Incorporated, and others.

Report Scope:

In this report, the Saudi Arabia pipeline monitoring system market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

    Saudi Arabia Pipeline Monitoring System Market, By Type:

Metallic

Non-metallic

Saudi Arabia Pipeline Monitoring System Market, By Technology:

Ultrasonic

PIG

Smart Ball

Magnetic Flux Leakage

Fiber Optic Technology

Others

Saudi Arabia Pipeline Monitoring System Market, By End User Industry:

Crude & Refined Petroleum

Water & Wastewater

Others

Saudi Arabia Pipeline Monitoring System Market, By Region:

Eastern Region

Northern & Central Region

Western Region

Southern Region

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Saudi Arabia pipeline monitoring system market.

Available Customizations:

With the given market data, Tech Sci 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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