

Leak Detection Market for Oil & Gas with COVID-19 Impact by Technology (Acoustic, E-RTTM, Fiber Optic, Mass/Volume Balance, Laser Absorption and LiDAR, Thermal Imaging), Medium (Oil and Condensate, Natural Gas), and Region - Global Forecast to 2025

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Abstracts

The Leak detection market for oil & gas is valued at USD 2.1 billion in 2020 and is projected to reach USD 3.0 billion by 2025; it is expected to grow at a CAGR of 7.8% from 2020 to 2025. Several projects pertaining to the oil and gas pipelines have been undertaken globally, and a significant number of projects are being planned owing to the increasing consumption of oil and gas worldwide. Thus, operators across the world are expanding their existing pipeline networks, as well as constructing new pipelines to meet the increasing demand for natural gas and oil.

Retrofitting complications related to some leak detection systems are expected to restrain the growth of the market. Moreover, the lack of efficient leak detection systems that provide information related to different parameters of leakages and the decrease in global oil prices are expected to be prime challenges for the market players.

Oil is physically traded in different grades. The most popular traded grades are Brent North Sea Crude (commonly known as Brent crude) and West Texas Intermediate (commonly known as WTI). With the spread of the COVID-19 globally, the supply of fuel has exceeded its demand by a significant margin worldwide. A decrease in oil prices has affected the global oil and gas industry significantly. It also affected the financial position of leading oil and gas companies, as well as caused delays in upcoming and ongoing projects. For instance, in April 2020, the Energy Ministry of Argentina suspended auctioning of projects for the development of the Vaca Muerta–Buenos Aires natural gas pipeline owing to the worsening economic scenario of the country resulting

from the pandemic. However, with an increase in the prices of oil, the oil and gas market is expected to recover by 2021–2022.

“E-RTTM technology: The fastest technology segment of leak detection market for oil & gas .”

E-RTTM refers to an extended real-time transient model. It is used for detecting leakages and identifying their location. The advantages of E-RTTM technology-based leak detection systems over systems based on other technologies are that these systems can detect small leakages, identify the size of the leakages accurately, and model all dynamic fluid characteristics (flow, pressure, and temperature). These systems consider the extensive configuration of physical pipeline characteristics (length, diameter, thickness, etc.), as well as product characteristics (density, viscosity, etc.). Hence, they provide highly accurate results regarding leak locations in less time.

“Natural Gas: The leading segment of the leak detection market for oil & gas .”

There has been a significant increase in the consumption of natural gas in recent years. The presence of abundant natural gas resources and its increased production make it a competitive energy resource. Natural gas remains a key fuel in the electric power generation and the industrial sectors. In the electric power generation sector, natural gas is a preferred choice owing to its fuel efficiency. It also burns cleaner than coal or petroleum products. As governments of different countries are implementing national or regional plans to reduce carbon dioxide emissions, they are expected to encourage the use of natural gas more than carbon-intensive coal and liquid fuels. Therefore, the reliability and security of gas transportation infrastructures are of high priority in the energy sector. Leak detection systems carry out timely detection of those parts of gas infrastructures that are prone to leakages. These systems generate quick responses to stop the gas discharge and ensure proper pipeline maintenance. Some of the important leak detection technologies used for the detection of natural gas leakages are thermal imaging, RTTM or E-RTTM, and acoustic.

“North America: The leading region in the global leak detection market for oil & gas .”

North America is projected to account for the largest size of the leak detection market for oil & gas from 2020 to 2025. The US government provides significant subsidies to petroleum companies in the form of tax exemptions at virtually every stage of the oil exploration and extraction process, right from the leasing of oil fields to drilling equipment. The government support for the growth of the oil and gas industry in the US

is one of the primary reasons for the rising number of oil and gas projects in the country. This, in turn, is expected to contribute to the growth in demand for leak detection technologies and systems in the US. Moreover, according to the Pipeline and Hazardous Materials Safety Administration (PHMSA), an agency of the US Department of Transportation, the increasing incidents of leakages in the oil and gas pipelines and storage tanks at production facilities also fuel the growth of the leak detection market for oil & gas in North America.

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1 – 40%, Tier 2 – 25%, and Tier 3 – 35%

By Designation: C-level Executives – 35%, Directors – 28%, and Others – 37%

By Region: North America – 47%, Europe – 20%, APAC – 18%, South and Central America – 10%, and Middle East and Africa – 5%

Honeywell International Inc. (US), Emerson Electric Co. (US), ABB (Switzerland), KROHNE Group (Germany), PSI Software AG (Germany), Atmos (UK), AVEVA (UK), FLIR Systems Inc. (US), HIMA (Germany), Yokogawa Electric Corporation (Japan), Asel-Tech (Brazil), Bridger Photonics (US), Flyscan Systems Inc. (Canada), Fotech Group Ltd. (UK), Hawk Measurement Systems (Australia), MAGNUM (Germany), MSA Safety (US), OptaSense Ltd. (UK), Simulation Software Ltd. (UK), and TTK (France) are some of the key players operating in the leak detection market for oil & gas.

Research Coverage:

The report segments the leak detection market for oil & gas and forecasts its size, by value, based on Technology (acoustic/ultrasonic, extended real-time transient model (E-RTTM), fiber optic, mass/volume balance, vapor sensing, thermal imaging, and laser absorption and LiDAR), Medium (Oil and Condensate and Natural Gas), Location (Onshore and Offshore) and Region (North America, Europe, Asia Pacific, South and Central America, Middle East and Africa),.

The report also provides a comprehensive review of market drivers, restraints, opportunities, and challenges in the leak detection market for oil & gas. The report also covers qualitative aspects in addition to the quantitative aspects of these markets.

Key Benefits of Buying the Report

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the leak detection market for oil & gas and provides them information on key market drivers, restraints, challenges, and opportunities. Report also covers COVID-19 impact on leak detection market for oil & gas .

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10.2.1.1 Ongoing development and expansion of existing pipelines and construction of new ones to drive market growth in US

10.2.2 CANADA

10.2.2.1 Increasing adoption of government regulations in Canada to provide guidance for best management practices related to leak detection in pipelines

10.2.3 MEXICO

10.2.3.1 Ongoing development of leak detection infrastructures in Mexico to drive market growth

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10.3.1 RUSSIA

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10.3.2 UKRAINE

10.3.2.1 Rising demand for leak detection technologies and systems for use in dense network of primary and secondary pipelines of Ukraine

10.3.3 GERMANY

10.3.3.1 Importing of petroleum and other liquids through several pipelines and seaports to contribute to demand for leak detection technologies and systems in Germany

10.3.4 UK

10.3.4.1 Launching of new oil and gas projects in UK to fuel demand for leak detection technologies and systems

10.3.5 FRANCE

10.3.5.1 Increasing focus on stringent implementation of government regulations pertaining to deployment of leak detection systems to fuel market growth in France

10.3.6 ITALY

10.3.6.1 Emerging of Italy as major transit country for crude oil increases requirement of leak detection technologies and systems

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10.4.1.1 Increasing demand for electricity and natural gas-fired power to contribute to growth of leak detection market for oil & gas in China

10.4.2 AUSTRALIA

10.4.2.1 Flourishing oil and gas industry to drive the market for leak detection technologies and systems in Australia

10.4.3 KAZAKHSTAN

10.4.3.1 Growing interest of Kazakhstan for development of its oil and natural gas industry to fuel demand for leak detection technologies and systems

10.4.4 INDIA

10.4.4.1 Increasing government support to promote production and consumption of

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10.4.5 INDONESIA

10.4.5.1 Ongoing oil and gas exploration activities in Indonesia to contribute to demand for leak detection technologies and systems

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10.5.1.1 Increasing investments in Argentina to harness natural gas resources contribute to growth of leak detection market for oil & gas

10.5.2 BRAZIL

10.5.2.1 Rising upstream, midstream, and downstream activities in Brazil to attract increased investments for leak detection technologies and systems

10.5.3 COLOMBIA

10.5.3.1 Growing natural gas and oil production in Colombia to contribute to demand for leak detection technologies and systems used in pipelines

10.5.4 VENEZUELA

10.5.4.1 Increasing incidents of leakages in oil and gas pipelines and storage tanks of production facilities to fuel demand for leak detection technologies and systems in Venezuela

10.5.5 REST OF SOUTH AND CENTRAL AMERICA

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10.6.1 IRAN

10.6.1.1 Ongoing developments in oil and gas pipeline infrastructures in Iran to drive demand for leak detection technologies and systems

10.6.2 SAUDI ARABIA

10.6.2.1 Rising number of oil and gas production projects in Saudi Arabia to fuel market growth

10.6.3 IRAQ

10.6.3.1 Upcoming oil and gas production projects in Iraq to contribute to demand for leak detection technologies and systems

10.6.4 OMAN

10.6.4.1 Rising demand for natural gas to fuel growth of leak detection market for oil & gas in Oman as it is recognized as one of its leading producers

10.6.5 UAE

10.6.5.1 Increasing natural gas imports by UAE to meet its domestic demand and support upcoming natural gas projects

10.6.6 REST OF MIDDLE EAST

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10.7.1.1 Ongoing pipeline projects in Algeria to lead to market growth

10.7.2 EGYPT

10.7.2.1 Increasing investments in oil and gas industry of Egypt to fuel market growth

10.7.3 NIGERIA

10.7.3.1 Evolving government regulations regarding gas transportation to encourage private investments in pipeline projects in Nigeria

10.7.4 LIBYA

10.7.4.1 Increasing focus on new and advanced oil and gas projects to fuel growth of leak detection market for oil & gas in Libya

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11.6.3 PERVASIVE

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FIGURE 44 PRODUCT FOOTPRINT ANALYSIS OF TOP PLAYERS

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11.7.1 PROGRESSIVE COMPANY

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FIGURE 47 EMERSON ELECTRIC CO.: COMPANY SNAPSHOT

12.2.3 ABB

FIGURE 48 ABB: COMPANY SNAPSHOT

12.2.4 KROHNE GROUP

12.2.5 PSI SOFTWARE AG

FIGURE 49 PSI SOFTWARE AG: COMPANY SNAPSHOT

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12.2.7 AVEVA

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FIGURE 51 FLIR SYSTEMS INC.: COMPANY SNAPSHOT

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12.3.3 FLYSCAN SYSTEMS

12.3.4 FOTECH GROUP

12.3.5 HAWK MEASUREMENT SYSTEMS

12.3.6 MAGNUM

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12.3.8 OPTASENSE LTD.

12.3.9 SIMULATION SOFTWARE LTD.

12.3.10 TTK

*Details on Business Overview, Products/solutions/services Offered, Recent

Developments, COVID-19-related developments, SWOT Analysis, and MnM View (Key strengths/Right to win, Strategic choices made, Weakness and threats) might not be captured in case of unlisted companies.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

13.3 AVAILABLE CUSTOMIZATIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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