

Global Leak Detection and Repair Market: Analysis By Component (Equipment, and Services), By Product (Handheld Gas Detectors, UAV-Based Detectors, Vehicle-Based Detectors, and Manned Aircraft Detectors), By Technology (Volatile Organic Compounds (VOC) Analyzer, Optical Gas Imaging (OGI), Acoustic Leak Detection, Ambient/Mobile Leak Monitoring, Laser Absorption Spectroscopy, and Audio-Visual-Olfactory Inspection), By Region Size and Trends with Impact of COVID-19 and Forecast up to 2029

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Abstracts

Leak detection and repair (LDAR) is a process of identifying and fixing air, water, gas and other types of leaks in gas & oil pipelines, tanks, and other equipment. Global leak detection & repair market is associated with providing technologies, equipment, services, and solutions designed to identify and mitigate leaks of harmful substances, such as volatile organic compounds (VOCs), hazardous gases, and liquids, from industrial equipment, pipelines, and facilities. The global leak detection and repair market value stood at US\$20.67 billion in 2023, and is expected to reach US\$27.15 billion by 2029.

The global leak detection and repair market has seen steady growth in recent years, driven by several key factors, including rising energy demand, increasing oil & gas exploration and production activities, ongoing development of smart cities and digital utility networks in developing economies, growing government efforts to reduce

methane emissions, increasing incidents of oil and gas leakages in pipelines and storage tanks, growing awareness about sustainability & climate change, increasing emphasis on operational efficiency and safety in high-risk industries, and stringent environmental regulations imposed by governments to reduce greenhouse gas emissions. Moreover, factors like positively growing chemical & petrochemical industries, rising demand for energy efficiency, increase in oil & gas pipeline infrastructure, aging industrial infrastructure, rising focus of companies on achieving net-zero carbon emission targets, increased media coverage of industrial leaks, and emerging application of LDAR products and services in industries such as food & beverage, university & laboratory, manufacturing, construction, and aerospace sector is expected to boost the growth of global leak detection and repair market in the forecasted period. The market is expected to grow at a CAGR of 4.65% over the projected period of 2024-2029.

Market Segmentation Analysis:

By Component: The report provides the bifurcation of the global leak detection and repair market into two segments on the basis of component, namely, equipment, and services. Equipment is the fastest growing segment of global leak detection and repair market owing to positive growth in pipeline infrastructure and production facilities, increasing global focus on reducing carbon footprints, ongoing integration of robotics, growing demand for automated leak detection solutions, presence of strict regulatory compliance for emission reduction, positively growing end user industries including manufacturing, oil & gas, and chemicals, rising energy projects in developing economies, and increasing demand for leak detection and repair (LDAR) equipment among scientists. Services is the largest segment of global leak detection and repair market owing to positively expanding oil & gas industry, increasing regulatory compliance requirements for monitoring & reducing VOC emissions, rising demand for data-driven insights, company's lack of in-house technical expertise and resources to perform effective leak detection, increasing focus of companies on achieving social responsibility (CSR) goals, high cost-effectiveness associated with outsourced professional LDAR services, rising focus on preventive maintenance & risk management, and increased need for regular inspections for industries with complex operations, such as oil & gas, chemicals, and manufacturing.

By Product: The report provides the bifurcation of the global leak detection and repair market into four segments on the basis of product, namely, handheld gas detectors, UAV-based detectors, vehicle-based detectors, and manned aircraft detectors. Handheld gas detectors is the largest segment of global leak detection and repair

market as a result of rising natural gas production, high demand for portable solutions in developing countries, rising focus on preventive maintenance, increasing trade of oil and gas products, growing adoption in residential and commercial applications for detecting leaks of gases like LPG and carbon monoxide, increasing emphasis on worker safety, high effectiveness of handheld detectors for both routine and emergency inspections, and compact design, high durability, and low maintenance requirements associated with hand held detectors. UAV-based detectors is the fastest growing segment of global leak detection and repair market owing to rapid growth of oil & gas exploration activities, positive global push towards digital transformation, increasing focus of companies on sustainability & emissions reduction, rising awareness of operational efficiency, increasing use of UAV detectors in urban infrastructure monitoring applications, rising demand for rapid assessment & monitoring in disaster management and emergency response, and ongoing integration of infrared cameras, OGI technology, hyperspectral imaging, and real-time data transmission technology in leak detection systems.

By Technology: The report provides the bifurcation of the global leak detection and repair market into six segments on the basis of technology, namely, volatile organic compounds (VOC) analyzer, optical gas imaging (OGI), acoustic leak detection, ambient/mobile leak monitoring, laser absorption spectroscopy, and audio-visual-olfactory inspection. Volatile organic compounds analyzer is the largest segment of global leak detection and repair market owing to rising global demand for health & safety standards in healthcare and pharmaceutical sector, increasing focus of companies on mitigating risks associated with potential leaks, rapid industrialization in emerging economies such as China, India, and Latin America, ease of use and portability associated with VOC analyzer, rising number of regulatory requirements for VOC emissions monitoring in industries like oil & gas, petrochemicals, and chemicals, global priority towards improved air quality, increasing emphasis on environmental compliance, and the need for efficient resource management across multiple industries. Optical gas imaging is the fastest growing segment of global leak detection and repair market as a result of increasing demand for non-invasive leak detection, global push towards reduced methane emissions, ongoing advancements in infrared camera technology, growing adoption of digital solutions, rising demand from renewable energy sectors, growing emphasis on mitigating climate change & reducing carbon footprints, increasing company focus on reducing manual inspection errors, and ongoing use of artificial intelligence and data analytics in conjunction with OGI systems.

By Region: The report provides insight into the global leak detection and repair market based on regions namely, North America, Europe, Asia Pacific, and rest of the world.

North America is the largest region of global leak detection and repair market as a result of robust industrial base, rapidly growing oil and gas industry, increased investment in developing energy infrastructure, presence of well established oil & gas pipeline networks, government subsidies to oil and gas industries, presence of government laws aimed at lowering methane emissions, aging infrastructure in the oil and gas and chemical sectors, increasing demand among businesses for operational and safety efficiencies, high access to skilled workforce with expertise in advanced LDAR systems, and growing awareness among companies of environmental sustainability & commitment to reducing carbon footprints.

Market Dynamics:

Growth Drivers: The global leak detection and repair market has been rapidly growing over the past few years, due to factors such as expanding global energy demand and consumption, growing preference for natural gas, rising demand among utility sector, favorable government policies and initiatives, increasing expansion in natural gas and petroleum infrastructure, etc. Governments and regulatory bodies worldwide are enforcing stringent environmental regulations to reduce greenhouse gas emissions and control volatile organic compound (VOC) emissions. Greenhouse gases (GHGs), particularly methane, have a significant impact on global warming, and so regulatory bodies, such as the United Nations Framework Convention on Climate Change (UNFCCC) and the United States Environmental Protection Agency (USEPA), encourage nations to adopt leak detection programs as part of their climate action plans. So, growing government efforts to reduce VOC emissions is anticipated to accentuate market growth. Also, as global energy consumption increases, oil and gas companies are expanding their exploration and production (E&P) activities in both conventional and unconventional reserves. So, with increasing exploration and production activities, the risk of leaks in equipment like valves, pipelines, and storage tanks rises, further driving the demand for LDAR systems.

Challenges: However, the global leak detection and repair market growth would be negatively impacted by various challenges such as, high capital investment, growing demand for renewable energy, etc. The initial costs of implementing an LDAR program can be significant, including spending on equipment purchases, infrastructure upgrades, and skilled workforce development. For smaller companies or those with restricted budgets, the cost burden becomes a substantial barrier to LDAR implementation. In addition, the rapid expansion of renewable energy is diverting attention and investments away from traditional fossil fuel-based industries, such as oil and gas, which have historically been the largest consumers of LDAR services. As renewable energy

sources like solar, wind, and hydropower grow in popularity, the demand for fossil fuels (oil, gas, and coal) may decrease, impeding the use of LDAR systems in complex pipelines, storage systems, and refineries, where leak detection is crucial for both safety and environmental compliance. Many renewable energy solutions operate in decentralized models, where energy generation is closer to the point of consumption. These systems are less complex than large-scale, centralized power grids powered by fossil fuels, and therefore does not require the same level of extensive LDAR technologies.

Trends: The global leak detection and repair market is projected to grow at a fast pace during the forecasted period, owing to, increasing integration of robotics and drones, rising focus on preventing environmental damage, growing awareness of resource conservation, ongoing technological advancements, etc. Gas leak detection systems are critical in guaranteeing safety & preventing environmental damage in many areas of the oil and gas industry, including upstream drilling platforms, midstream trailers and tanker boats, downstream pipelines, refining, & storage facilities. Environmental concerns and the global push towards decarbonization is boosting the use of LDAR systems to monitor, detect, and mitigate leaks that contribute to environmental harm. Also, increasing number of companies are committed to sustainability goals, including minimizing resource depletion, and LDAR technologies align with these objectives by enabling efficient monitoring and maintenance of resource-intensive infrastructure, which directly supports conservation efforts. Furthermore, public awareness campaigns and education initiatives regarding the importance of resource conservation have prompted organizations to take proactive measures in leak detection and repair, enhancing their operational efficiency and sustainability credentials. Therefore, growing awareness of resource conservation is expected to boost the growth of global leak detection and repair market in the forecasted period.

Impact Analysis of COVID-19 and Way Forward:

COVID-19 brought in many changes in the world in terms of reduced productivity, loss of life, business closures, closing down of factories and organizations, and shift to an online mode of work. Lockdown policies imposed by the government to prevent the spread of the virus forced LDAR manufacturing and oil & gas transporting industries to either shut down or run low on production capacity, resulting in temporary shutdowns as well as lower production and demand of LDAR units during the period, 2019-2020. Also, global lockdowns was associated with reduced demand for transportation & industrial energy, leading to a sharp decline in periodic checks for leak detection and repair. Factories operating below capacity had fewer emissions or leaks to monitor, leading to

a decline in service requirements. Oil refineries and petrochemical plants, which are major contributors to greenhouse gas emissions, further delayed maintenance & upgrades due to budget cuts and reduced cash flows, negatively affecting the demand for LDAR systems.

Competitive Landscape:

The global leak detection and repair market is fragmented, with large number of companies, ranging from established brands to smaller regional players and niche manufacturers catering to the industry demand. The key players of the market are:

ABB Group
Emerson Electric Co.
Honeywell International Inc.
Teledyne Technologies Incorporated (Teledyne FLIR LLC)
Yokogawa Electric Corporation
KROHNE Messtechnik GmbH
Atmos International Ltd
SeekOps Inc.
TTK
Aeris Technologies, Inc.
BRIDGER PHOTONICS
ClampOn AS

The growing need for advanced leak detection and repair solutions is driving competitiveness among market players, leading to the development of more sophisticated and efficient LDAR systems. The emphasis on regulatory compliance, operational efficiency, and environmental sustainability is further intensifying competition in the LDAR market. Technological innovation is a key strategy adopted by market players to gain a competitive edge. Increasing number of companies are investing heavily in research and development to develop advanced detection technologies, such as UAV-based detectors, IoT-enabled sensors, and AI-powered software solutions.

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