ARC investigated the global market for leak detection systems (LDSs) for the oil and gas fields across the onshore, offshore, and subsea upstream segments. The report scope provides both qualitative and quantitative analyses of nine technology types: acoustic/ultrasonic, infrared, hydrocarbon sensing cables, statistical analysis, fiber optic, mass/volume balance, negative pressure wave, real-time transient model (RTTM), and extended RTTM (E-RTTM).

Suppliers are developing several leak detection systems to overcome the increasing number of operational and environmental hazard challenges users encounter when trying to handle more hydrocarbons in this oil price recovery environment. An increasing number of pipeline operating companies and related stakeholders are beginning to embrace the belief that investments in leak detection systems not only will mitigate risk by helping prevent catastrophic leaks and the associated financial and operational adverse implications but also should help reduce fines, regulatory oversight, and damage to a company’s reputation and public image.

In the slowly recovering oil price environment, owner-operators, independent E&P companies, and pipeline operators realize the value of investing in automation and other technology solutions to enhance production, improve recovery, and ensure more efficient operations with fewer experienced personnel. Automation investments can also reduce risk by maintaining operational integrity to help reduce the frequency of accidents or other abnormal events and mitigate their negative impact on safety, environment, and profitability of the pipeline or relevant oil & gas facility, such as an offshore platform or onshore oil or gas processing facility.

This report provides strategic market information and guidance for the worldwide leak detection systems market. It addresses key questions such as:

- How large is the market potential?
- Who are the leading suppliers?
- Which regions contain the largest markets?
- What are the strategic issues facing both suppliers and end users?
- Which applications will offer the greatest growth opportunities?
- Which system types will be the largest investment areas?

**RESEARCH FOCUS AREAS**

- **Strategic Analysis**
  - Major, Regional, and Application Trends
  - Strategies for Success

- **Competitive Analysis**
  - Market Shares of the Leading Suppliers
  - Market Shares by Region
    - North America
    - Europe, Middle East, Africa
    - Asia
    - Latin America
  - Market Shares by Technology
    - Acoustic/Ultrasonic
    - Infrared
    - Fiber Optic
    - Hydrocarbon Sensing Cables
    - Mass/Volume Balance
    - Negative Pressure Wave
    - Statistical Analysis
    - RTTM
    - E-RTTM
  - Market Shares by Application
    - Gathering Lines
    - Flowlines
    - Well to FPSO
    - Offshore Platform
    - Onshore Platform

- **Market Forecasts and Histories**
  - Total Leak Detection Systems Business
  - Shipments by Region
  - Shipments by Technology
  - Shipments by Application
  - Shipments by Project Location
  - Shipments by Industry Sector
  - Shipments by Revenue Category
  - Shipments by Localization Type
  - Shipments by Measured Medium
  - Shipments by Sales Channel
  - Shipments by Customer Type

- **Industry Participants**
  - The research identifies all relevant suppliers serving this market.

**Worldwide Leak Detection Systems Market**

![Graph showing worldwide leak detection systems market growth from 2018 to 2023](image)