



Shoreline AI

AI model for Multi-sensor Fusion and Diverse Data Sources Identifies Methane and VOC Leaks

Shoreline AI helps Global Mid-stream Oil & Gas company detect methane leaks and precise location



Customer Background

This Fortune 500 natural gas company is dedicated to meeting the energy and consumer needs of our society. With a focus on technology and innovation, the company safely and reliably operates a strong and diversified portfolio of logistics, marketing, gathering, and processing industrial assets across nine states. They are one of the largest natural gas liquids producers and marketers, and one of the largest natural gas processors in the United States with over 90 years of industry leadership.

Oil and Gas companies have several assets that are at risk for methane and VOC leaks. These include oil storage tanks, wellheads and associated pumps, valves and compressors, pipelines, processing facilities and gathering and boosting stations. They deployed Shoreline AI's solution across a range of assets to monitor methane and VOC emissions, and enable early detection of leaks with precise location.

Customer's Assets Being Managed by Shoreline



Shoreline AI's Real-time Monitoring Detects Methane Leaks

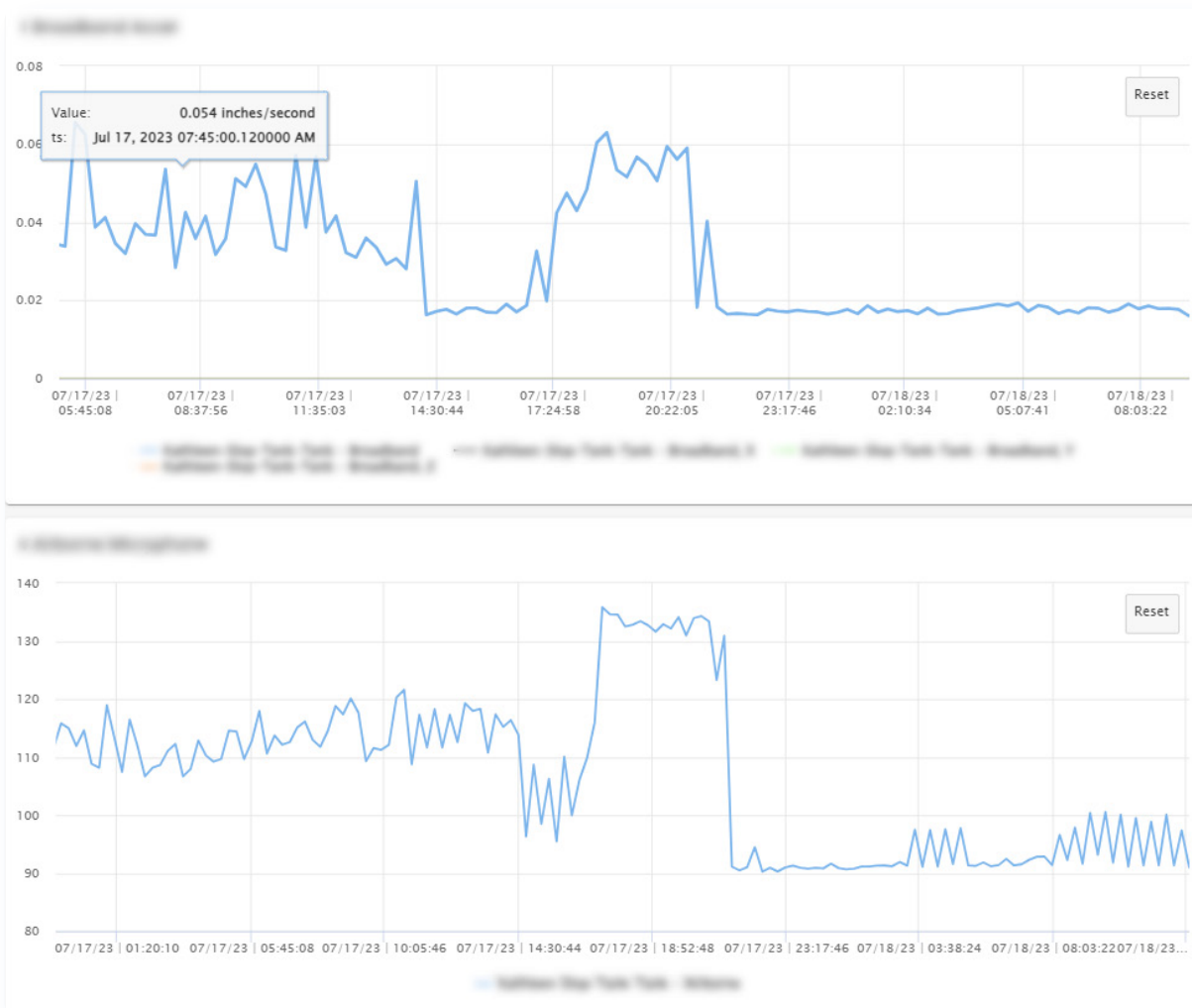
One of the biggest contributors and risks to methane leaks is storage tanks. An Oil and Gas storage tank is a container used to store crude oil, refined petroleum products, or natural gas. Storage tanks can be made of a variety of materials, including steel, fiberglass, and concrete.

Shoreline AI's emission monitoring solution was deployed to generate immediate notification and precise location of leaks and emissions such as methane and VOCs. This solves a critical challenge in industries with high volumes of industrial fuel storage tanks and upstream Oil & Gas assets. This enables the company to take rapid steps to reduce fugitive emissions, helping companies comply with stringent environmental regulations and reduce their impact on the planet.

// *Asset performance management (APM) is essential for ESG success. By measuring and managing the ESG performance of their assets, organizations can identify and mitigate risks, capture opportunities, and improve the overall performance of their businesses.* //

Source: Gartner Blog:
How Asset Performance Management Can Drive ESG Success

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Recently, Shoreline AI's model for multi-sensor fusion and diverse data sources identified anomalies which were later confirmed as a positive for a leak.

Results

Recently, a condition anomaly was detected, which was confirmed positive for a leak. The early notification from the Shoreline AI solution prevented the leak from becoming a major incident. The economic impact of methane leaks to oil and gas companies can be significant. Companies must detect and document thief hatch emissions to be regulatory compliant and avoid costly super emission events and penalties. This approach also improves profitability due to reduction in loss of expensive hydrocarbons.

About Shoreline AI

Shoreline AI's plug-and-play asset performance management delivers breakthrough simplicity and cost efficiencies. Completely self-installed by non-experts, smart sensors automatically connect to the cloud and are auto-provisioned via a rich library of 30,000+ pre-built asset physics models.

This cloud-native approach requires no new CapEx, on-site experts or data scientists, operationalizing in days and delivering powerful machine-specific analytics. This highly secure, 100% subscription approach creates unprecedented industrial APM economics and scales easily for new applications such as emissions monitoring.

Shoreline AI helps clients in asset-intensive industries maximize the performance and profitability of their operations, create a proactive and predictive approach to asset management, and accelerate sustainability initiatives. The company's solutions are designed for machinery serving the energy, manufacturing, pharma and data-center cooling industries.