

Application Case Study

Industry: Natural Gas

Product: Vanguard Methane Detector

Application: Detection of fugitive methane emissions at wellheads

Process Material: Natural Gas

Company: Natural Gas Storage Facility



Customer

Customer operates an underground natural gas storage facility. Once a natural gas field, the facility was successfully converted into a storage reservoir through gas reinjection. The process of conversion also involves drilling many new wells that enables a more rapid withdrawal of gas from the reservoir storage. These wells are a source of methane gas leakages.

Challenge

Reducing methane emissions is a challenge for the oil & gas industry, as is compliance with emerging regulation. Moreover, increasing gas monitoring density in brownfield sites can be very costly due to signal and power conduit wire installation.

Solution

A self-powered wireless methane detector enables more pervasive identification of leaks even in remote locations, at a fraction of the overall cost compared to wired detectors. The WirelessHART Vanguard monitors methane emissions accurately for 5 years without battery replacement

Contact Information

For additional information please contact our application experts at +1 617-923-6977 or visit our website www.ueonline.com/vanguard.

Results

With the help of optical imaging technology, Vanguard units were optimally positioned on wellheads to detect a controlled release of a methane plume with wind conditions. The Vanguard reliably detected the presence and absence of gas and transmitted the information to an Emerson WirelessHART gateway. It also accurately reported the concentration of the passing methane plume which was verified by the optical imaging cameras.



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