

Industry:	Natural Gas
Product:	Vanguard Methane Detector
Application:	Detection of fugitive methane emissions at wellheads
Process Material:	Natural Gas
Company:	Natural Gas Storage Facility

The 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.

The 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.

The 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.



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 a 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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