

Problem

With the growing industry of natural gas development, there is a need to monitor the methane released during the production or midstream process. Studies have shown that methane can be over 20 times more impact than carbon dioxide in terms of affecting climate conditions. Monitoring the outgassing of methane at these sites is important to enable fact-based decision making. However, the current method of detection, employing a complex and detailed analysis system at the site or lab is inefficient, expensive and difficult to scale.

Solution

Low-cost wireless sensors can be placed around a well site to provide continuous monitoring for methane. This data can be remotely accessed leveraging SmartDiagnostics® wireless solution and cloud capability. The ultra low power enables 8 year batter life or power by light or heat for zero sensor maintenance. Distributed wireless sensing enables a wider area for spatial sampling. Early detection can call in more detailed samples to an area in question.



Success Factors	Customer Value
Cloud-based data flow	Monitoring from a central location
Installation in under 20 minutes	Low installation cost and site disruption
Continuous health tracking	Machine trends are apparent with 1,000 times more data
Widespread sensor distribution	Improved spatial sampling, to call in more detailed analysis



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