

Press Release

Grandperspective GmbH receives third-party validation for remote sensing capabilities to meet the new EU regulations for methane

Berlin, May 14, 2024 – Grandperspective GmbH, a leading provider of ground-based remote sensing monitoring systems, has set a new high bar for methane detection visibility.

The scanfeld® monitoring system, which uses hyperspectral imaging based on FTIR technology to detect methane and 400 other compounds at rates of 0.005kg/hr or less, has been certified by one of the world's most respected standards bodies.

In February 2024, a series of controlled-released experiments, which were validated by the Engler-Bunte Institute of the German Technical and Scientific Association for Gas and Water (DVGW) at the Karlsruhe Institute of Technology (KIT), proved that Grandperspective's remote sensor technology was able to detect methane emissions at leak rates of only 100 grams per hour over a distance of at least 250 metres in real-life conditions. Furthermore, these tests have been fully approved by a global energy corporation, as part of its own efforts to drive down methane emissions.

To ensure that the tests met the necessary standards and specifications set out by the DVGW, Grandperspective deployed three sensors. Two were fixed units from an ongoing pilot study for continuous monitoring, and one was a mobile unit. The three sensor units were deployed to detect a series of simulated methane leaks – at various points within the facility - over a five-day period.

In total, Grandperspective's team, who were monitored by a research engineer from the Engler-Bunte Institute, conducted over 80 assessments experimenting with different flow rates and wind speeds, across a range of distances.

The results of these third-party tests were in support of Grandperspective's unparalleled ability to monitor down to the new EU 17g/h monitoring threshold and at the same time further strengthen the company's pioneering work in the field of multi-compound and multi-area monitoring. They also shine a light on the vast potential of ground-based continuous monitoring systems. This is because further analysis and evaluation carried out independently of the testing cycle, while working within the same parameters, has revealed that the scanfeld® monitoring system meets the new European Union's Leak Detection and Repair (LDAR type 1)

17 grams per hour threshold. The next phase of these tests will be to demonstrate the 17g/h threshold similarly independently validated.

Peter Maas, Grandperspective's Managing Director and Chief Technology Officer, said, "Our goal was to externally and independently validate the methane detection capability of the scanfeld® monitoring system. Achieving the 100 grams per hour threshold from a distance of 250 metres massively exceeds the current limits of conventional monitoring technology which are typically in the order of several kilograms per hour and satellite emission detection limits being as high as 100 kilograms per hour. This is a significant moment for the industry, as by scientifically proving that it is possible to detect and quantify emissions at extremely low detection thresholds using FTIR remote sensing technology for the first time, the sector has a set of tools that can help it to considerably reduce emissions."

To receive a copy of the report, please contact us at scanfeld@grandperspective.de.

About Grandperspective GmbH:

A young company with a wealth of experience: René Braun (CEO and founder) and Peter Maas (CTO and co-founder) head a team of around 40 employees and bring over 25 years of experience in the development and application of remote sensing systems.

Grandperspective's mission is to revolutionize the management and safety of hazardous and greenhouse gases. We deliver the world's first comprehensive area emission monitoring solution for industrial sites. Based on patented sensor and analysis technology that detects over 400 chemicals at large distances, the scanfeld® system automatically visualises and localises gas clouds, warns of gas leaks and provides emission reporting in real time.

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