Continuous methane monitoring at tanks

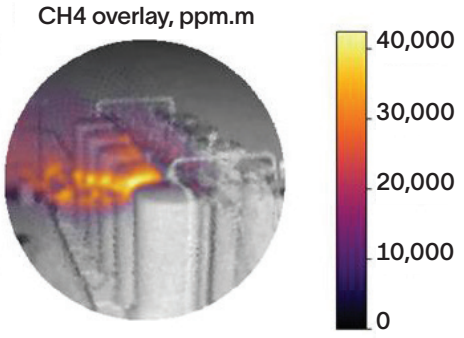
Visualize and quantify methane emissions from storage tanks using the methane lidar camera

Optimized for tanks. No more handhelds.

- **Tank emissions regularly change as a result of filling and breathing.** Continuous monitoring captures that intermittency.
- **Tank emissions occur at heights and are difficult to access with handheld tools.** A camera mounted on a mast scans tank tops without the need for working at height.
- **Tank emissions can originate from several sources that can be closely located.** The methane image easily identifies which part of the tank is causing the emission.

Features and benefits

- **High sensitivity and accuracy:** The methane lidar camera* provides a limit of detection of 1 kg/h and accurate quantification of the methane mass emission rate.
- **Full-time leak visualization:** The camera quantifies emissions during the day and at night, with no interference from light weather conditions, the temperature difference between the background and the gas plume (ΔT), other gases, or water vapor.
- **Fast deployment:** The camera can be installed quickly for permanent or temporary deployment.
- **Comprehensive coverage:** It monitors tall tanks, without the HSE risks associated with working at height.
- **Regulatory compliance:** The methane lidar camera is approved by the US Environmental Protection Agency as an alternative test method under the OOOO family of regulations for periodic scanning at all leak resolution thresholds and component-level spatial resolution.



The methane lidar camera provides an image of a methane plume overlaid on a picture of the facility, clearly identifying the emission source.

Proven in the field

"Tanks are a significant but poorly understood source of methane emission. We selected SLB's methane lidar camera to measure emissions from tanks because independent testing at METEC validated that the camera can measure tank emissions accurately, sensitively, and precisely."

Principal Analyst, Zero Emissions Systems Team
GTI Energy

Following analysis of several technologies by the Methane Emissions Technology Evaluation Center (METEC) at Colorado State University, GTI Energy selected the methane lidar camera to measure emissions from a variety of tanks in several basins.

"The SLB methane lidar camera provided a conclusive answer to our question about methane emissions during flowback, allowing us to demonstrate that these emissions are smaller than the emissions factors had estimated."

Senior Air Specialist
Repsol

Repsol used the methane lidar camera to continuously monitor methane emissions from drillout tanks during drilling and from flowback tanks during flowback, gathering actual measurements to compare against emissions factors.

* The methane lidar camera is a licensed product of QLM Technology Ltd.