Fugitive methane emissions reduction is one of the most pressing needs in the Oil & Gas industry today. Traditional measurement practices are often inaccurate and inefficient, putting you at risk of dangerous, damaging and costly leaks. There are multiple reasons why operators would benefit from implementing new technologies to reduce their methane emission footprint:

**Environment:**
- Methane is 80x more harmful to the environment than CO2, with methane emissions accounting for ~20% of global warming

**Financial:**
- Investors and customers are increasingly demanding that their energy comes from sources less harmful to the environment.
- Leaks account for more than $30bn in lost revenue each year for the Oil & Gas industry.
- The average amount of gas emitted can account for 2-3% of production.
- 50% of these leaks could be fixed profitably.

**Safety:**
- The highest number of safety-related fatalities in the Oil & Gas industry originate from driving between sites (40% of fatalities in the industry are also due to driving between sites). Reducing driving time is critical to improving safety.

**Regulation:**
- Globally, regulations are being put in place to reduce the amount of methane emitted by the Oil & Gas industry. New technologies are needed to meet the scale and demand of these regulations.

In response to our customers methane monitoring needs, BHGE have developed a unique and flexible digital platform, that incorporates both continuous 24/7 monitoring ground based sensors in addition to an industry leading drone solution.

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References:
1- www.edf.org
2- oilandgasclimateinitiative.com
3- www.oilandgasmiddleeast.com
4- www.sciencemag.org
5- www.osha.gov
Fully customizable interface

Accurate location of leaks

Both solutions stream live quantifiable data to an intuitive cloud dashboard. Allowing you to make quick and reliable decisions, saving time, money, your reputation and the environment. Operators are able to view all of their sites globally and are alerted to potential issues via a configurable alert screen.

Continuous digital methane monitoring technology provides real-time quantification and notification of methane emissions both indoors and outdoors while enabling prescriptive analytics for preventative maintenance. Giving you a quantifiable leak rate, leak concentration and leak location remotely.

Where LUMEN TERRAIN ground sensors are not an option, take to the air with our integrated multi-faceted UAV, LUMEN SKY. Giving you a quantifiable leak rate, leak concentration and leak location remotely.

Our Multi Faceted UAV meshes together Optical Gas Imaging (OGI) and Tunable Diode Laser (TDLAS) technologies, by using sophisticated proprietary algorithms, to create an accurate quantification of leak rate, leak concentration and leak location. LUMEN SKY also delivers video streaming and 3D photogrammetry capabilities.

Both solutions stream live quantifiable data to an intuitive cloud dashboard. Allowing you to make quick and reliable decisions, saving time, money, your reputation and the environment. Operators are able to view all of their sites globally and are alerted to potential issues via a configurable alert screen. Once a site has been deemed to be at risk, operators can drill down into the specific site, and access the detailed data in Leak Rate (scfh), Concentration (PPM) and Location (co-ordinates). Historical and trend data is also available at the touch of a button.

The LUMEN platform also assists with back office operations, including automatic report writing.

LUMEN TERRAIN>>

HD AERIAL VIDEO STREAMING

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LUMEN TERRAIN>>

A high accuracy fugitive methane emission detection system that will continuously and remotely ‘sniff’ for leaks, without the need for human intervention.

LUMEN SKY>>