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ENEOS Xplora Inc.

ENEOS Xplora Conducts Successful Visualization Test for Methane Gas Emissions

ENEOS Xplora Inc. (President and CEO: Yasuhiko Oshida, "ENEOS Xplora") is pleased to announce the completion of Japan's first pilot test of visualizing methane emissions from natural gas production using fixed continuous monitoring with LiDAR* technology at our Nakajo oil and gas field (Tainai City, Niigata Prefecture).

In line with the global trend toward carbon neutrality, the importance of continuously monitoring and reducing greenhouse gas emissions is increasing. In particular, methane has a significant greenhouse effect than CO₂, leading to ongoing discussion regarding enhanced emission regulations around the world. This initiative is part of the efforts aimed at reducing methane emissions from natural gas production through the visualization of the emission levels and implementation of countermeasures by employing digital technologies.

In this pilot test, we confirmed the capability of detecting methane emissions with LiDAR cameras and real-time visualization on a digital platform during inevitable minor air vent operations at natural gas production and processing stage.

Based on the results of the test, we will consider utilizing this technology at our operational sites. We intend to continue enhancing operational efficiency and sophistication at our sites with digital technologies in future pilot tests.

*LiDAR: Short for "Light Detection and Ranging," a technology that determines object distance and shape by measuring how long it takes laser light to reflect back



Overview of the Pilot Test:

- Test Location: Within the premises of the Nakajo Oil and Gas Fieldsite (Tainai City, Niigata Prefecture)
- Equipment Used: SLB Methane LiDAR camera and SLB Methane Point Instrument
- Measurement Method: Equipment installation and continuous observation
- Note: This pilot test was conducted in partnership with SLB (Schlumberger K.K.)



LiDAR Camera (Left) and Fixed Sensor (Right)



Nakajo Oil and Gas Field