

Aligning Source- and Site-Level Measurement for Confident Decisions

CASE STUDY AT A GLANCE

Regulatory/Reporting Frameworks:

OGMP 2.0

Technology:

Bridger Photonics' Gas Mapping LiDAR® (GML)

Value Chain Segment:

Offshore production

Results:

~8% variance between source- and site-level measurement approaches; verified alignment valid for OGMP 2.0 Level 4 and 5 reporting

CHALLENGE

One offshore operator sought to better understand emissions at both the source and full-site level while validating alignment between different measurement methodologies across a complex asset. The operator also needed greater confidence in quantified emissions data to support operational decision-making and reporting accuracy for OGMP 2.0 Levels 4 and Level 5.

APPROACH

The operator implemented a coordinated methane measurement program using Bridger's UAV-based GML for Offshore, providing both source-level and site-level measurements. The program was designed to evaluate consistency between methodologies while providing visibility into emissions across the entire offshore facility.

Multiple distinct emission sources were identified and quantified across the site using source-level measurements, while two separate site-level assessments were completed within approximately one hour to enable direct comparability between approaches. By aligning within a narrow timeframe, the operator established a more reliable understanding of emissions performance across the asset.

BENEFITS



- Improved understanding of emissions at both the source and full-site level



- Greater confidence in quantified methane emissions data



- Clear attribution of emissions across multiple distinct sources



- More reliable data supporting operational decisions



- Validated alignment supporting OGMP 2.0 Level 4 and Level 5 reporting frameworks

EMISSIONS INSIGHTS



The combined use of source-level and site-level methane measurement provided the operator with a more complete view of emissions across the offshore asset. Source-level measurements enabled detailed identification and quantification of individual emission sources, while site-level assessments provided broader facility-scale visibility into overall methane performance.

The program also supported prioritization of operational response activities by providing trusted measurement data down to the equipment-level.

RESULTS



- ~64 kg/hr total average emissions measured at the source level
- ~59 kg/hr total average emissions measured at the site level
- ~8% variance between site and source-based measurement approaches
- Clear attribution across multiple emission sources
- Verified alignment between source- and site-level data, valid for OGMP Level 4 and 5 reporting

KEY TAKEAWAY



By combining source- and site-level methane measurements within a single coordinated program, Bridger provided the operator with both **clear source attribution** and **facility-scale emissions visibility** within a narrow operational timeframe. The results increased confidence in total quantified emissions across the offshore asset.

Ready to reduce your emissions?

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