

Recurring Scans for Compliance and Measurable Performance Gains

CASE STUDY AT A GLANCE

Regulatory/Reporting Frameworks:

U.S. EPA OOOO

Technology:

Bridger Photonics' Gas
Mapping LiDAR®

Value Chain Segment:

Production

KEY OUTCOMES

48%

reduction in emissions

over three years;
improved source-level
visibility; confident
system replacement
decisions; long-term
program cost reduction

CHALLENGE

Managing large production portfolios requires operators to coordinate field operations, maintenance priorities, regulatory obligations, and infrastructure performance across complex asset networks. One large production operator sought to better understand emission sources across its assets to better inform prioritization of resources, satisfy regulatory requirements, reduce long-term program costs, and strengthen responsible methane management.

APPROACH

Quarterly aerial methane measurement scans using Bridger's Gas Mapping LiDAR® technology were the cornerstone of the operator's program. Recurring measurements provided consistent visibility into emissions across the operator's assets, while detailed data analysis supported identification of source-level emission contributions and operational trends over time.

Bridger's emissions data was integrated directly into field workflows and operational decision-making processes, helping teams prioritize mitigation activities, evaluate system replacement opportunities, and allocate resources toward the highest-impact opportunities. The recurring program structure also enabled ongoing validation of mitigation results and long-term performance tracking.

EMISSIONS INSIGHTS



The recurring scans and data provided the operator with a more consistent and actionable understanding of emissions over time. Rather than relying on isolated snapshots, recurring aerial measurements helped identify persistent emission contributors, improve prioritization of field response activities, and strengthen coordination between teams.

Over time, the operator was able to refine prioritization strategies, improve confidence in operational decisions, and reduce unnecessary spending through more targeted deployment of resources.

RESULTS



- 48% reduction in emissions over three years
- Improved identification and understanding of source-level emission contributions
- Confident system replacement decisions informed by recurring measurement data
- Integrated field workflows supporting measurable operational impact
- Reduced long-term program costs through improved prioritization
- Stronger alignment between measurement activities, field execution, and performance goals

KEY TAKEAWAY



When measurement is consistent and actionable, emissions programs shift from activity to performance, **delivering measurable operational and financial impact** over time.

Ready to reduce your emissions?

Connect with one of our experts!

