

Diversified Energy Partners with Bridger Photonics to Supercharge Methane Emissions Detection with Gas Mapping LiDAR Technology

Advanced detection technology makes emissions reduction simple with data that's comprehensive, actionable, and easy to collect at scale.



Diversified Energy partnered with Bridger Photonics to implement advanced **Gas Mapping LiDAR™** technology, significantly enhancing their ability to detect and reduce methane emissions, helping them achieve superior environmental compliance and operational efficiency.

TOP STATS

Detection of
Emissions Below

500
ppm

\$9M

Multi-Year Investment
in Methane Detection

Targeted

30%

Reduction in Methane
Emissions by 2026 in
Methane Detection



Today's commitment to invest \$9 million into advanced LiDAR technology over the next three years supports our near-term goal to reduce our 2020-level methane emissions by 30% by 2026 on the way to net-zero by 2040. Our partnership with the Bridger Photonics team is another important milestone as we continue to evaluate other investments that will support our methane-reduction initiatives.

—**RUSTY HUTSON, JR.**

CEO of Diversified Energy Company PLC

CUSTOMER DETAILS

Company Name:

Diversified Energy Company

Location: Birmingham, AL

Industry: Energy (Natural Gas)

Technology Used: Aerial Gas
Mapping LiDAR™

Number of Employees: 1600+

CHALLENGE

- Diversified Energy Company PLC faced **significant challenges in reducing methane emissions** from its natural gas production and distribution assets.
- The company needed to meet **stringent environmental goals and comply with regulatory requirements** while managing a vast and growing asset base. Detecting and addressing fugitive methane emissions efficiently was crucial to minimizing environmental impact and maintaining regulatory compliance.
- Traditional methods were **labor-intensive, time-consuming**, and often insufficient in identifying all emission sources, making it difficult for Diversified to achieve its methane reduction targets.

SOLUTION

- To tackle this challenge, Diversified Energy engaged Bridger Photonics in a multi-year project involving **aerial scans of all production and distribution facilities** using Bridger's advanced Gas Mapping LiDAR™ technology.
- This approach allows for precise detection, pinpointing, and quantification of methane emissions across Diversified's operations. The initial focus was on the Appalachian region, where Bridger's aerial scans **efficiently covered large areas and identified emissions that were previously undetectable** by conventional methods.
- The high sensitivity of Bridger's LiDAR technology has enabled Diversified to **detect emissions well below the EPA-defined leak definition** of 500 parts per million, ensuring comprehensive monitoring and accurate data collection.

RESULTS

- The collaboration between Diversified Energy and Bridger Photonics led to significant improvements in methane emissions management. The partnership resulted in a **75%** reduction in emissions detection time, allowing for faster response and remediation of leaks.
- Diversified confirmed the effectiveness of Bridger's technology during field trials and committed **\$9 million** over three years to expand the aerial scanning program. This investment is part of Diversified's broader \$15 million annual funding commitment to methane reduction initiatives.
- The enhanced detection capabilities and strategic investment aim to reduce Diversified's 2020-level methane emissions by **30%** by 2026, demonstrating the company's leadership in environmental stewardship and its commitment to achieving net-zero emissions by 2040.

Ready to lead the way in methane emissions reduction like Diversified Energy?

Discover how Bridger Photonics can transform your emissions management strategy. Visit us at www.bridgerphotonics.com.