



Chevron Chooses Bridger Photonics as Partner in Multi-Modal Effort to Reduce Methane Intensity of Its Permian Basin Operations

Initiative offers lessons on using innovative technologies to reduce man-made emissions and keep product in its pipes.



The Global Methane Pledge was formed to reduce worldwide, human-made methane emissions from 2020 levels by at least 30% by 2030. Chevron chose Bridger Photonics' Aerial Gas Mapping LiDAR technology as a partner in helping identify and control emissions in the Permian Basin. So more of Chevron's product stays where it belongs—in the pipes.

TOP STATS

Targeted
Chevron's U.S.
**onshore
facilities**

950
total sites
(almost all of Chevron's
onshore facilities)

99%
survey coverage
per site

“It's a game-changer. It can find leaks that are 10 times smaller than other commercial providers are capable of spotting.”

—**BRUCE NIEMEYER**

CHEVRON'S AMERICAS PRESIDENT OF
EXPLORATION AND PRODUCTION

“We believe in the importance of collaboration in methane management. Just as we've learned a lot from others in the Permian Basin, we seek to share our own best practices.”

—**VANESSA RYAN**

MANAGER OF METHANE REDUCTION AT CHEVRON

CUSTOMER DETAILS

Company Name:
Chevron

Location:
San Ramon, CA

Industry:
Oil and Gas

Technology Used:
Aerial Gas Mapping LiDAR, Sensor
Network, Flaring Reduction Optimizers

Number of Employees:
45,600



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THE EFFORT SO FAR

Chevron is endeavoring to reduce the methane intensity of its Permian Basin operations.

This includes:

- Working with Bridger Photonics to conduct flyovers that identify methane leaks across Chevron's Permian operations.
- Using a sensor network to identify methane leaks through its participation in the University of Texas-led Project Astra.
- Reducing flaring in the Permian, including by use of real-time, autonomous optimizers to monitor Chevron's unconventional facilities and well conditions.
- Having a find-and-fix strategy in place so that, if a leak is detected, a team can be deployed to inspect and repair it.

WHY BRIDGER PHOTONICS?

Chevron chose Bridger Photonics for:

Leak Location Specificity

Technologies provide varying levels of location specificity for methane emission sources, from the several-kilometer scale down to the component level. Solutions like aerial lidar that can identify pieces of equipment for follow-up were found to be more useful than approaches with only site-level information.

The Data Delivery Timeline

Having timely data available can improve follow-up activities. The utility of screening data decreases as more time passes after initial detection. Aerial lidar results are typically available within a few days, while some trialed technologies took up to a few months to deliver data.

Reduced Windshield Time

Road safety is a priority for Chevron. Using aircraft reduces vehicle traffic compared to other solutions that require driving to sites.

Cost Sharing and Scalability

Technology approaches that can be used across multiple operators tend to be most cost-efficient at scale. Aircraft-based monitoring can group flights with nearby operators that have their own aerial detection programs.

Optimal Methane Detection Limits

Methane detection solutions for the oil and gas industry have limits that vary from several thousand to less than 1 kg/hr. Solutions like aerial lidar with detection limits of less than 10 kg/hr have been most useful in our Permian Basin operations.

Resilience to Local Weather Conditions

Technologies deployed at scale need to function effectively and accurately in all weather conditions.

SHARED LEARNINGS

Representatives from Middle Eastern and North African countries toured the region to take lessons on how companies like Chevron are seeking to reduce methane emissions.

Chevron shared its strategies with the delegations—and plans to soon do the same with the Latin American and Indo-Pacific visitors. These initiatives are meant to highlight innovative technologies like methane detection, monitoring and measurement.

2028 TARGETS



71 G CO₂E/MJ

Portfolio carbon intensity
(Scope 1, 2, and 3) by 2028.



24 KG CO₂E/BOE

Gas carbon intensity
(Scope 1 and 2) by 2028.



24 KG CO₂E/BOE

Oil carbon intensity
(Scope 1 and 2) by 2028.



36 KG CO₂E/BOE

Refining carbon intensity
(Scope 1 and 2) by 2028.

PLANNED CAPITAL ALLOCATION



\$8.0 BILLION

Investments in lower
carbon projects by 2028.



\$2.0 BILLION

Investments in carbon
reduction projects
by 2028.



100 MBD

Renewable fuels
production capacity.



25 MMTPA

Offsets business and
CCUS (Carbon Capture,
Utilization, and Storage).



150 MTPA

Hydrogen equity
production capacity.

Ready to lead the way in methane emissions reduction like Chevron?

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