ANNUAL REPORT 2019



Improving the Natural Gas and Oil Industry's Environmental Performance

Preview

MISSION

To continuously improve the industry's environmental performance by taking action, learning about best practices and technologies, and fostering collaboration in order to responsibly develop our nation's essential natural gas and oil resources.

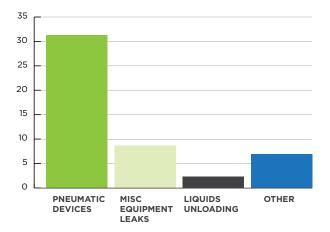


Achieving Environmental Progress

The U.S. natural gas and oil industry is committed to the protection of human health, safety and the environment. Even as the U.S. is leading the world in natural gas and oil production, methane emissions have fallen, thanks to industry leadership and investment in new technologies.

Seeking to build on this success, a group of 26 natural gas and oil production companies formed The Partnership in December 2017. These companies committed to continuously improving their environmental performance.

Figure 1. EPA's GHGRP 2017 CH₄ Emissions (MMT CO₂E*)



*MMT CH₄ to MMT CO₂E using IPCC-AR5 GWP of 28 **Source:** U.S. EPA Greenhouse Gas Reporting Program. Accessed April 29, 2019

Environmental Stewardship

The Partnership implemented three programs on January 1, 2018, that target emissions through collaboration, proven methods and advanced technology.

These programs were selected based on EPA emissions data (see Figure 1) and are designed to further reduce emissions using proven, cost-effective controls targeting three of the most significant sources of emissions.

They consist of the following:

- Leak Detection and Repair: Participants committed to leak monitoring, followed by timely repair, at select sites using detection methods and technologies such as portable analyzers or optical gas imaging cameras.
- Focus on High-Bleed Pneumatic Controllers: Participants committed to replace, remove, or retrofit high-bleed pneumatic controllers with intermittent, low, or zero-emitting devices.
- Improving the Manual Liquids Unloading Process: Participants committed to implement an industry best practice that minimizes emissions associated with the removal of liquids that, as a well ages, can build up and restrict natural gas flow.

2018 Environmental Performance Highlights



0.16% Leak Occurence Rate



78,000
Sites Surveyed

More Than

156,000

Surveys Conducted



More Than

56
million
Components
Inspected





More than
28,000

High-Bleed Pneumatic
Controllers Replaced,
Retrofitted, or
Removed From
Service to 2018



In 2018, More Than

3,000

Additional High-Bleed
Pneumatic Controllers
Replaced, Retrofitted,
or Removed from
Service

Participating
Companies No Longer
Have High-Bleed
Pneumatic Controllers
In Their Operations

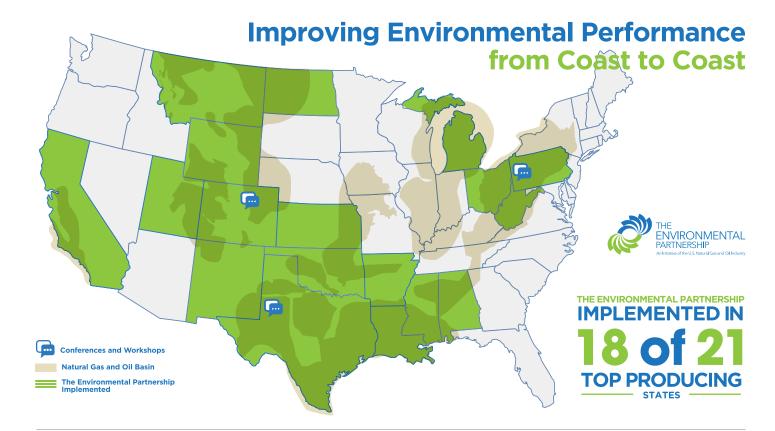


Minimized
By Monitoring
More Than

132,000
Manual Liquids
Unloading
Events In 2018

Emissions





Learning Together

To Reduce the Industry's Footprint

Participants in the program are committed to continually learning about the latest innovations and best practices that can further reduce their company's environmental footprint while safely and responsibility growing energy production.

The Partnership's workshops are one of the primary ways we connect experts with operators so that our participants learn more about opportunities to reduce emissions. In 2018, The Partnership hosted two workshops located near major natural gas and oil basins to allow production and facility workers to attend. The workshops were open to all upstream natural gas and oil producers, regardless of whether they were active participants in the program.

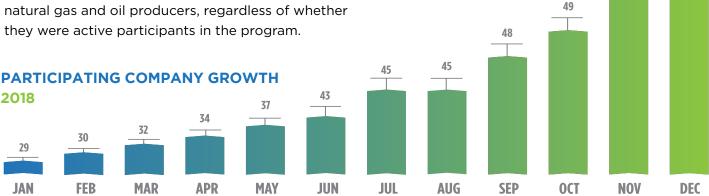
Collaborating

To Impove Performance

The Partnership works to bring together members of the U.S. natural gas and oil industry—as well as academics, researchers and regulators—to collaborate on ways to improve environmental performance while responsibly developing our nation's natural gas and oil resources. Through The Partnership, we can share strategies, information and technologies that have been most effective in reducing emissions.

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VIRONM EVERYBODY'S BUSINESS.

'S THE **POWER OF PARTNERS** LEADING THE WAY.















































































































To continuously **improve** the industry's environmental performance by taking action, learning about best practices and technologies, and fostering collaboration in order to responsibly develop our nation's essential oil and natural gas resources.























