

**November 6, 2019**

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**The Environmental Partnership**

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**2019 Natural Gas STAR &  
Methane Challenge  
Workshop**



# The Environmental Partnership

## Mission

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.



# Three Program Principles

## Take Action

- Companies implement environmental performance programs that are cost-effective, commercially proven, and achieve significant emissions reductions

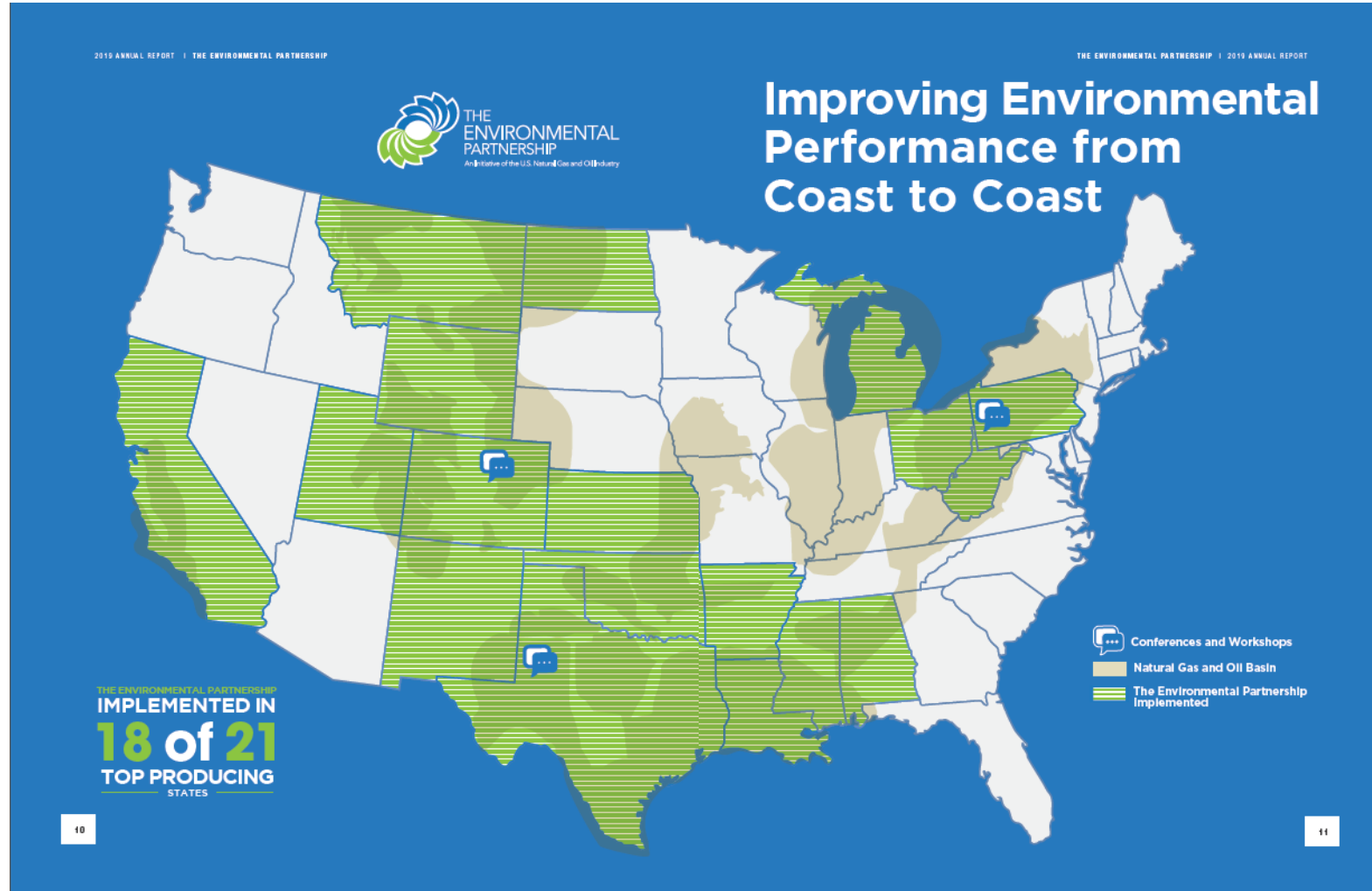
## Learn

- Host industry workshops to foster operator-to-operator information sharing about best practices and new technologies

## Collaborate

- Host conferences to promote dialogue with stakeholder groups to share information on new academic research, program learnings, and new technological developments

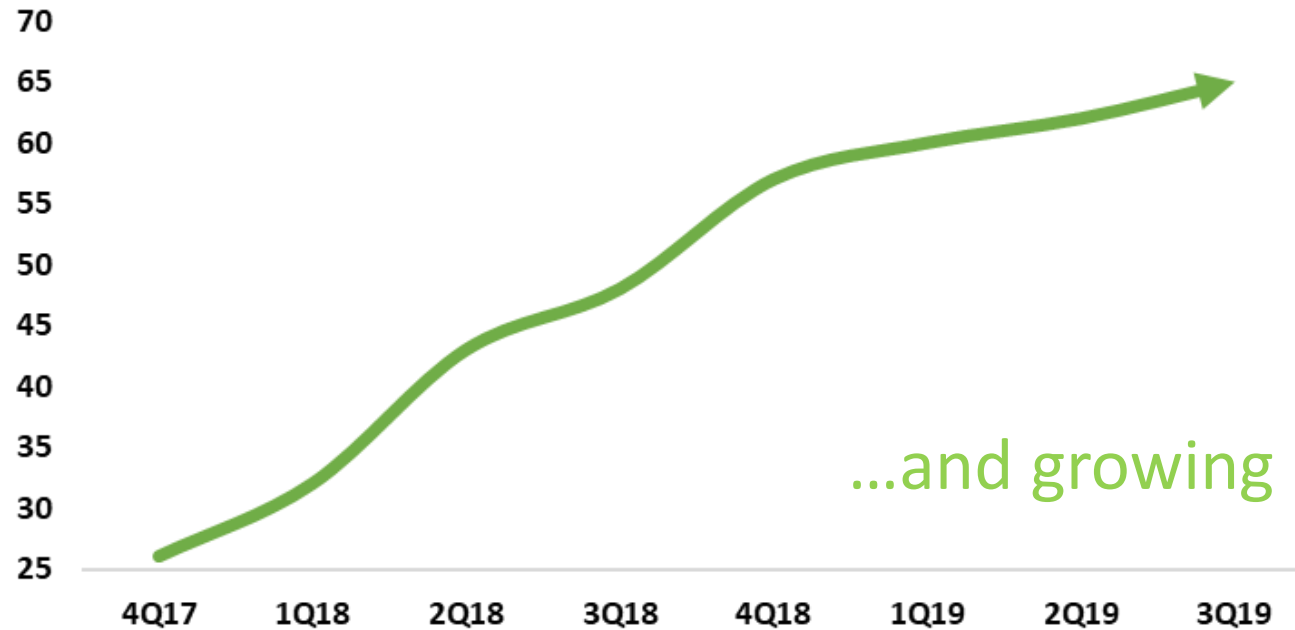
# Building Broad & Diverse Participation



# Continued Focus on Recruitment

The Partnership has grown more than 150% to 67 companies

The Environmental Partnership Membership Growth  
# of companies



# 67 Participating Companies Currently

1. Aera Energy
2. Aethon Energy
3. Alta Resources
4. American Petroleum Partners
5. Anadarko
6. Antero Resources
7. Apache
8. Ascent Resources
9. BHP
10. BP
11. Cabot Oil and Gas
12. California Resources Corporation
13. Callon Petroleum
14. Chesapeake
15. Chevron
16. Cimarex
17. ConocoPhillips
18. Continental Resources
19. CrownQuest
20. Denbury Resources
21. Devon
22. Encana
23. EOG Resources
24. EQT
25. Equinor
26. Equitrans Midstream
27. Extraction Oil & Gas
28. ExxonMobil
29. Felix Energy
30. Fieldwood Energy
31. FLYWHEEL ENERGY
32. Gulfport Energy
33. Hess
34. HHEX Energy
35. HighPoint Resources
36. Hunt Oil Company
37. JKLM Energy
38. Lime Rock Resources
39. Marathon Oil
40. Murphy Oil
41. Noble Energy
42. Oasis Petroleum
43. Occidental Petroleum
44. PDC Energy
45. Penn General Energy
46. PennEnergy Resources
47. Pioneer Natural Resources
48. QEP Resources
49. Range Resources
50. Red Bluff Resources
51. Repsol
52. Riviera Resources
53. Sable Permian Resources
54. Seneca Resources
55. Sequitur Energy
56. Shell
57. SM Energy
58. Southwestern
59. Summit Discovery Resources
60. Surge Energy
61. Total
62. Trinity Operating
63. Warwick Energy
64. Western Gas
65. Whiting Petroleum
66. WPX Energy
67. XTO Energy

# The Environmental Partnership

## Take Action



# Environmental Performance Programs

Initial focus is the further reduction of air emissions, both methane and volatile organic compounds, from oil and natural gas sector.

To address top-emitting sources, participating companies are implementing the following Environmental Performance Programs in a manner that best suits their unique operations:

1. Detection and timely repair (within 60 days) of leaking equipment using optical gas imaging cameras or portable analyzers
2. Replacement or retrofitting of high-bleed pneumatic controllers with lower-emitting or zero-bleed controllers
3. Implementation of a best practice to minimize emissions by monitoring manual liquids unloading events



# Leak Detection and Repair Program

## 2018 Highlights



**0.16%**  
LEAK OCCURENCE RATE



MORE THAN  
**156,000**  
SURVEYS CONDUCTED

MORE THAN  
**78,000**  
SITES SURVEYED



MORE THAN  
**56**  
**MILLION**  
COMPONENTS INSPECTED



# Controller and Liquids Unloading Programs

## 2018 Highlights

MORE THAN  
**28,000**  
HIGH-BLEED PNEUMATIC  
CONTROLLERS REPLACED,  
RETROFITTED, OR REMOVED  
FROM SERVICE PRIOR TO 2018



IN 2018, MORE THAN  
**3,000**  
ADDITIONAL HIGH-BLEED  
PNEUMATIC CONTROLLERS  
REPLACED, RETROFITTED,  
OR REMOVED FROM SERVICE

**38**  
PARTICIPATING COMPANIES  
NO LONGER HAVE HIGH-BLEED  
PNEUMATIC CONTROLLERS  
IN THEIR OPERATIONS



EMISSIONS MINIMIZED BY  
MONITORING MORE THAN  
**132,000**  
MANUAL LIQUIDS UNLOADING  
EVENTS IN 2018



# 2019 Annual Report

- The Environmental Partnership's First Annual Report was released July 30<sup>th</sup>.
- Please visit [www.TheEnvironmentalPartnership.org](http://www.TheEnvironmentalPartnership.org) and click on "Annual Report" to find out more!

