



EPA Methane Challenge Program

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U.S. Environmental Protection Agency
ONE Future Methane & Climate Strategies Event · May 21, 2019

Commitment Options

Best Management Practice (BMP) Commitment

- Commit to mitigate emissions from specific sources
- Select from a menu of mitigation options
- Report only on committed sources

ONE Future Emissions Intensity Commitment

- Performance based approach
- Commit to an emission intensity target
- Report on most methane sources in company's operations

Methane Challenge Partners, by Segment

Industry Segment	BMP MC Partners	ONE Future MC Partners
Production	1	1
Gathering and Boosting	4	-
Processing	1	-
Transmission and Storage	13	2
Distribution	49	2
TOTAL	59	5

Current BMP Partner Commitments

	20+ Partners
	10 – 19 Partners
	1 – 9 Partners
	No Partners

Onshore Production	Gathering and Boosting	Natural Gas Processing	Transmission and Storage	Distribution
Pneumatic Controllers <i>1 Partner</i>	Pneumatic Controllers <i>2 Partners</i>	Reciprocating Compressors - Rod Packing Vent <i>1 Partner</i>	Reciprocating Compressors - Rod Packing Vent <i>6 Partners</i>	Mains – Cast Iron and Unprotected Steel <i>32 Partners</i>
Fixed Roof, Atmospheric Pressure Hydrocarbon Liquid Storage Tanks <i>1 Partner</i>	Fixed Roof, Atmospheric Pressure Hydrocarbon Liquid Storage Tanks	Centrifugal Compressors - Venting	Centrifugal Compressors - Venting <i>2 Partners</i>	Services – Cast Iron and Unprotected Steel <i>16 Partners</i>
	Reciprocating Compressors - Rod Packing Vent <i>4 Partners</i>		Pipeline Blowdowns between Compressor Stations <i>7 Partners</i>	Distribution Pipeline Blowdowns <i>2 Partners</i>
	Centrifugal Compressors - Venting		Pneumatic Controllers <i>3 Partner</i>	Excavation Damages <i>23 Partners</i>

Reporting – Methane Challenge ONE Future Option

- Reporting designed for user-friendliness
 - Module in e-GGRT; can use existing account
 - Applicable Part 98, Subpart W data prepopulate in MC forms
- Transparency -- data published at the company level
- Currently building reporting system



Launch reporting in **Summer 2019**

Reporting – Methane Challenge BMP Option

- First full year of reporting in fall 2018
- Data review and analysis is underway



Publication of 2017 data expected
this summer



Reporting of 2018 data expected
to begin **mid-summer 2019**

Preliminary 2017 BMP Reporting Results

- BMP Partners submitting a 2017 report – **46**
- Facilities reporting 2017 BMP data – **127**
- Preliminary 2017 BMP methane reductions – **~38,000 MT CH₄**

Sources Reported on in 2017

Gathering & Boosting

Reciprocating Compressors - Rod Packing Vent

Transmission & Storage

Pneumatic Controllers

Reciprocating Compressors - Rod Packing Vent

Transmission Pipeline Blowdowns between Compressor Stations

Distribution

Distribution Pipeline Blowdowns

Mains - Cast Iron & Unprotected Steel

Services - Cast Iron & Unprotected Steel

Excavation Damages



Natural Gas STAR Program

Natural Gas STAR Home

Methane Challenge Program

Natural Gas STAR Program

Outreach and Events

Industry Overview

Recommended Technologies

Technical Presentations

Videos

International Activities

Methane Challenge Partner Profile: Sample Transmission Company, Inc. V2-Standard

Natural Gas STAR Partner Since 2015 | Methane Challenge Partner Since 2018

[Sample Transmission Company, Inc.](#) EXIT has committed to apply best management practices across its operations to mitigate methane emissions from the following emission sources :

- [Transmission Pipeline Blowdowns between Compressor Stations](#)
- [Example 2](#)
- [Example 3](#)
- [Example 4](#)
- [Example 5](#)

This page provides details about Sample Transmission Company's progress towards meeting these commitments and the [cumulative methane reductions](#) it has achieved in the program. An [overview of the Methane Challenge program](#) can be found at the bottom of the page.

Additional Resources

- Methane Challenge Implementation Plan [link to PDF]
- Historical fact sheet [link to PDF]
- Methane Challenge reported data [download]

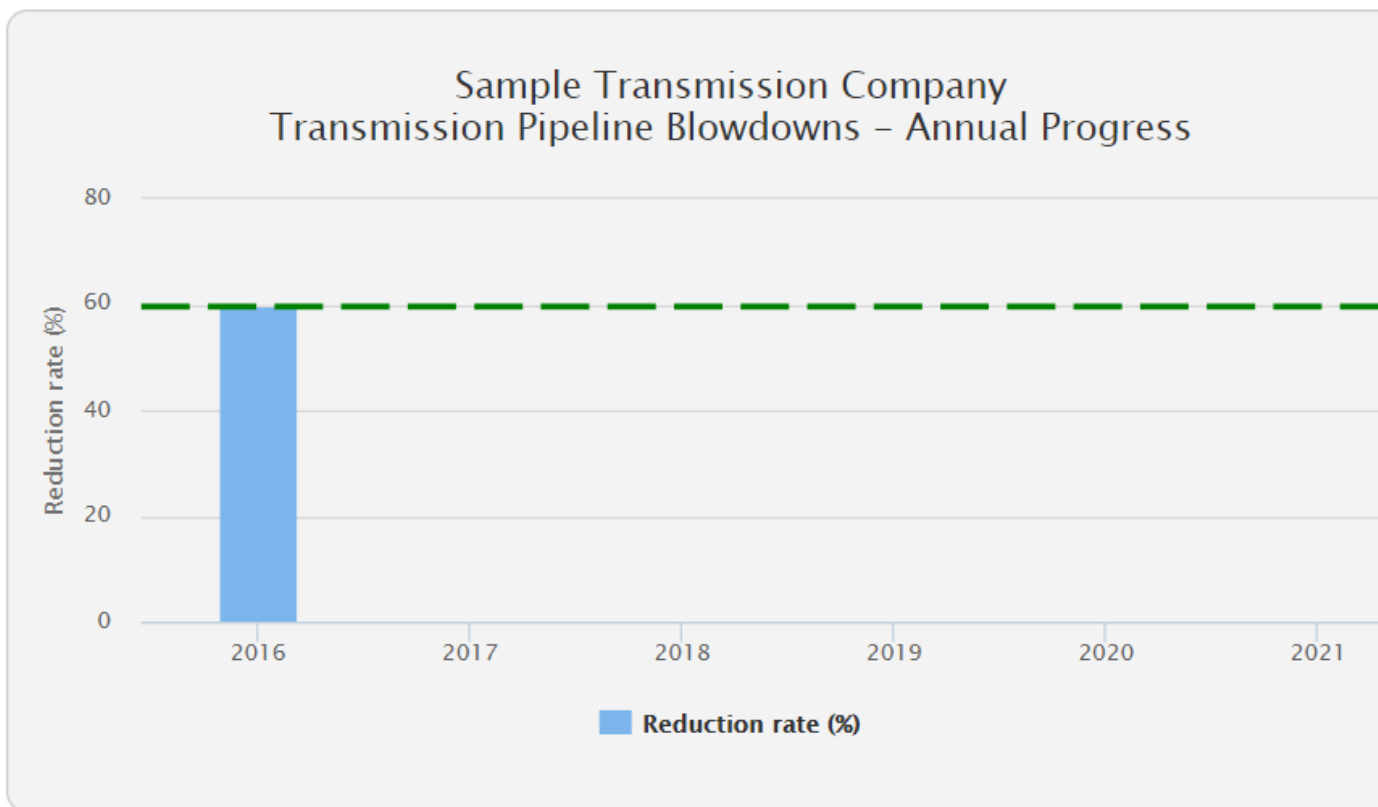


Preliminary View: Partner Profile Page

Progress Toward Achieving Methane Challenge Program Commitments

Transmission Pipeline Blowdowns between Compressor Stations

For more information about this source, see the [BMP Commitment Option reference page](#)



Show/Hide Data

**Preliminary View:
Partner Profile
Page**

**Commitment
Progress**

Preliminary View: Partner Profile Page

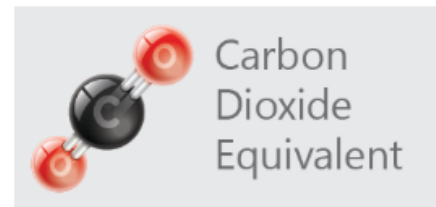
Cumulative Reductions

Cumulative Reductions

Since joining the Methane Challenge program, Sample Transmission Company, Inc. has achieved the following methane emissions reductions, which are also expressed in terms of carbon dioxide equivalent and the value of the amount of natural gas saved.



5,000 metric tons of
CH₄



120,000 metric tons
of CO₂ equivalent



\$750,000 of natural
gas saved*

*Natural gas savings assumes a natural gas price of \$3.00 per thousand cubic feet, based on the average of daily Henry Hub Natural Gas Spot Prices in 2016, rounded to the nearest dollar

Continuous Improvement

- 'Continuous Improvement Process' recognizes technologies advance; allows program to evolve
- Changes can be proposed by Partners or EPA
- Process involves stakeholder review and feedback
- Currently working to finalize BMP emission sources:
 - Liquids Unloading
 - Equipment Leaks
- Open to input from ONE Future partners





Upcoming Events



Upcoming Webinars

Methane Challenge Program Updates

2 – 3 PM EDT, June 26, 2019

- Analysis of 2017 BMP data
- Updates for 2019 reporting season

Renewable Natural Gas Case Study

July 2019; *to be confirmed*

- Landfill gas project with pipeline injection of processed gas
- Speakers from landfill project and natural gas company

Third annual AGA-EPA Renewable Natural Gas Workshop



Save the Date!

Sept 24, 2019
Reno, NV

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2019 Natural Gas STAR & Methane Challenge Workshop



Save the Date!

Nov 4-6, 2019
Pittsburgh, PA

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EPA Voluntary Methane Programs



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Natural Gas STAR Website:

www.epa.gov/natural-gas-star-program