Methane Challenge Best Management Practice Reporting Form

OMB Control No. 2060-0722
Approval expires XX/XX/202X
EPA Form No. 5900-434

This reporting form must be downloaded from the Methane Challenge module in e-GGRT. All data on this page will automatically populate based on data entered in e-GGRT.

Note that if you have committed to a source, but that source is not present at this facility, check the box in column F to indicate this.

Participating sources are automatically populated based on the most recent commitment information EPA has received from your company. If these commitments are not accurate, please contact the Help Desk (GHGreporting@epa.gov).

If other data on this tab are incorrect, you can fix the data in e-GGRT and redownload this form. If you need help locating the data in e-GGRT, please contact the Help Desk (GHGreporting@epa.gov)

After completing this Facility Info tab, please fill out the tab(s) corresponding to the sources on which this facility is reporting.

Note that you will need to submit a separate report for each of your facilities.

Last Updated: *3/31/2021*
Version: ICR RENEWAL 2021

Report Year 20XX

Partner Name SAMPLE PARTNER

Facility Name SAMPLE FACILITY

This is a preview version of the reporting form only. **The Methane Challenge Reporting System will not accept reports submitted on this version of the reporting form.** Partners should always download their facility-specific reporting forms directly from the Reporting System.

Industry Segment

☒	Onshore Production
☒	Gathering and Boosting
☒	Natural Gas Processing
☒	Transmission and Storage
☒	Distribution

Participating Sources

A check below indicates that the Partner has made a commitment to the source.

		If this source does not exist at this facility, please check this box
☒	Blowdowns	☐
☒	Mains- Cast Iron and Unprotected Steel	☐
☒	Services- Cast Iron and Unprotected Steel	☐
☒	Excavation Damages	☐
☒	Reciprocating Compressors - Rod Packing Vent	☐
☒	Centrifugal Compressors - Venting	☐
☒	Pneumatic Controllers	☐
☒	Fixed Roof, Atmospheric Pressure Hydrocarbon Liquid Storage Tanks	☐
☒	Equipment Leaks (Compressor Isolation and Blowdown Valves)	☐
☒	Renewable Natural Gas	☐

Methane Challenge Partner ID Number

Methane Challenge Partner IDs are automatically assigned to partners by the e-GGRT system

Methane Challenge Facility ID Number

Methane Challenge Facility IDs are automatically assigned to partners by the e-GGRT system

GHGRP ID Number 123456 **<< This field will populate with a GHGRP facility ID if you indicated that this Methane Challenge facility reports to Subpart W of the Greenhouse Gas Reporting Program during Methane Challenge Facility Registration. If this Methane Challenge facility does not report to Subpart W, this field will be blank. If you need help updating your facility information, please contact the Help Desk.**

If this facility reports to Subpart W, on subsequent tabs, fields shaded in grey represent data elements that are reported to GHGRP; these fields will be pre-populated with data submitted to GHGRP. Therefore, when completing these forms, those fields will be locked to prevent changes and you may skip fields that are shaded in grey. Please note that this form will not update Subpart W data in e-GGRT.

Pre-populated using certified Part 98 Subpart W annual report:

Reporting Year:
Version:
Date Certified:

Based on your commitment, please fill out all of the fields below. Hitting the tab key after data entry will automatically take you to the next data-entry field.

For additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "BMP Commitment Option Technical Docu

Partner Name	Facility Name	Report Year
SAMPLE PARTNER	SAMPLE FACILITY	20XX

Distribution Pipeline Blowdowns

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Table 1. Distribution Pipeline Blowdowns

Number of blowdowns	
Total CH_4 emissions (mt CH_4)	

Table 2. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Number of blowdowns that routed gas to:	
Compressor or capture system for beneficial use	
Flare	
Low-pressure system	
Number of hot taps utilized that avoided the need to blowdown gas to the atmosphere	
Total potential emissions (mt CH_4)	
Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Partner Name	Facility Name	Report Year
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Transmission Pipeline Blowdowns between Compressor Stations[1]

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Table 1. Transmission Pipeline Blowdowns between Compressor Stations

Quantification Method	Equipment or event type	Total number of blowdowns	Total CH_4 emissions (mt CH_4)
Subpart W Method 1, based on volume, temperature, and pressure	Pipeline integrity work (e.g., the preparation work of modifying facilities, ongoing assessments, maintenance or mitigation)		
	Traditional operations or pipeline maintenance		
	Equipment replacement or repair (e.g., valves)		
	Pipe abandonment		
	New construction or modification of pipelines including commissioning and change of service		
	Operational precaution during activities (e.g. excavation near pipelines)		
	All other pipeline segments with a physical volume greater than or equal to 50 cubic feet		
Subpart W Method 2, based on measurement	Calculated using flow meter		
Alternate calculation method **for facilities not reporting to Subpart W only**			

Table 2. Voluntary Actions Taken to Reduce Methane Emissions in During Reporting Year

Total number of blowdowns to which a BMP was applied	
Number of blowdowns that routed gas to:	
Compressor or capture system for beneficial use	
Flare	
Low-pressure system	
Number of hot taps utilized that avoided the need to blowdown gas to the atmosphere	
Total potential emissions (mt CH_4)	
Emission reductions from voluntary action (mt CH_4)[2]	

Additional Information

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1 *This source is intended to align with Subpart W's 'Onshore Natural Gas Transmission Pipeline Segment,' capturing all blowdowns not occurring at compressor stations. In Subpart W, this activity is reported on tab (i) Blowdown Vent Stacks.*

2 *Difference in potential and actual emissions as calculated per the specified emission quantification methodologies for each source.*

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Partner Name	Facility Name	Report Year
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Distribution Mains - Cast Iron and Unprotected Steel[1]

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Table 1. Distribution Mains - Cast Iron and Unprotected Steel Initial Inventory

Initial inventory of cast iron distribution mains as of January 1 of the first year of current commitment (miles)	
Initial inventory of unprotected steel distribution mains as of January 1 of the first year of current commitment (miles)	

Table 2. Distribution Mains - Mileage and Emissions

	Total miles of distribution mains	Annual CH_4 emissions (mt CH_4)
Distribution Mains, Gas Service - Unprotected Steel		
Distribution Mains, Gas Service - Protected Steel		
Distribution Mains, Gas Service - Plastic		
Distribution Mains, Gas Service - Cast Iron		
Distribution Mains, Gas Service - Reconditioned Cast Iron (with cured-in-place liners)		
Distribution Mains, Gas Service - Unprotected Steel with cured-in-place liners		

See Table W-7 to Subpart W of Part 98 - Default M

Table 3. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Miles of cast iron mains:		
Replaced with plastic		
Replaced with protected steel		
Rehabilitated with cured-in-place liners		
Retired without replacement		
Miles of unprotected steel mains:		
Cathodically protected or replaced with protected steel		
Replaced with plastic		
Rehabilitated with cured-in-place liners		
Retired without replacement		
Emission reductions from voluntary action (mt CH_4)		*This cell will automatically calculate emissions reductions.*

Additional Information

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1 *In Subpart W, this activity is reported on tab (q,r) Equipment Leaks.*

Based on your commitment, please fill out all of the fields below. Hitting the tab key after data entry will automatically take you to the next data-entry field.

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Partner Name	Facility Name	Report Year
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Distribution Services - Cast Iron and Unprotected Steel[1]

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Table 1. Distribution Services - Cast Iron and Unprotected Steel Initial Inventory

Initial inventory of cast iron services as of January 1 of the first year of current commitment (count)	
Initial inventory of unprotected steel services as of January 1 of the first year of current commitment (count)	

Table 2. Distribution Services - Counts and Emissions

	Total number of services	Annual CH_4 emissions (mt CH_4)
Distribution Services, Gas Service - Unprotected Steel		
Distribution Services, Gas Service - Protected Steel		
Distribution Services, Gas Service - Plastic		
Distribution Services, Gas Service - Copper		
Distribution Services, Gas Service - Cast Iron		
Distribution Services, Gas Service - Reconditioned Cast Iron (with Plastic Liners)		
Distribution Services, Gas Service - Unprotected Steel with Plastic Liners		

See Table W-7 to Subpart W of Part 98 - Default Me

Table 3. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Number of cast iron services:	
Replaced with plastic	
Replaced with protected steel	
Replaced with copper	
Reconditioned with cured-in-place liners	
Retired without replacement	
Number of unprotected steel services:	
Cathodically protected or replaced with protected steel	
Replaced with plastic	
Replaced with copper	
Rehabilitated with cured-in-place liners	
Retired without replacement	
Emission reductions from voluntary action (mt CH_4)	

This cell will automatically calculate emissions reductions.

Additional Information

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1 *In Subpart W, this activity is reported on tab (q,r) Equipment Leaks.*

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Partner Name	Facility Name	Report Year
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Distribution Excavation Damages

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Table 1. Distribution Excavation Damages - Total Counts

Excavation damages during reporting year	Total number of excavation damages	
	Total number of excavation damages per thousand locate calls	
	Total number of excavation damages which resulted in a release of natural gas	
	Total number of excavation damages which resulted in the pipeline being shut down	
	Total number of excavation damages where the operator was given prior notification of excavation activity	

Table 2. Distribution Excavation Damages - Counts by Class Location (Optional)

	Class 1	Class 2	Class 3	Class 4
Total number of excavation damages per class location (optional, if data is available)				

Table 3. Distribution Excavation Damages - Counts by Pipe Material and Part of System

		Main	Service	Inside Meter/Regulator Set	Other
Total number of excavation damages by pipe material and part of system involved	Steel				
	Cast Iron				
	Copper				
	Plastic				
	Other				

Table 4. Distribution Excavation Damages - Counts by Type that Caused Excavation Damage

Total number of excavation damages by type that caused excavation damage incidents	Contractor	
	Railroad	
	County	
	State	
	Developer	
	Farmer	
	Utility	
	Municipality	
	Occupant	
	Unknown/Other	

Table 5. Distribution Excavation Damages - Counts by Apparent Root Cause

Total number of excavation damages by apparent root cause	One-Call Notification Practices Not Sufficient	
	Locating Practices Not Sufficient	
	Excavation Practices Not Sufficient	
	One-Call Notification Center Error	
	Abandoned Facility	
	Deteriorated Facility	
	Previous Damage	
	Other/Miscellaneous	

Table 6. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Actions taken to minimize excavation damages/reduce methane emissions from excavation damages	
Company-specific goal for reducing excavation damages and/or methane emissions from excavation damages (when available)	
Progress in meeting company-specific goal (when available)	

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Partner Name	Facility Name	Report Year
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Processing and Transmission and Storage Reciprocating Compressors[1]

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Table 1. Processing and Transmission and Storage - Reciprocating Compressors with Rod Packing

If the release point changed or controls were added during the reporting year, please provide a different unique name or compressor ID for the reconfigured emission source and the operating data associated with the reconfiguration.

Unique name or ID for compressor	Hours in operating-mode	Hours in standby-pressurized-mode	Hours in not-operating-depressurized-mode	Is rod packing replacement occurring every 26,000 hours or 36 months? (Y/N)	Date of last rod packing replacement (mm/dd/yyyy)	Number of operating hours since rod packing replacement	Is compressor part of a manifolded group of compressor sources? (Y/N)	Where are rod packing venting emissions from the compressor released?	Was compressor in not-operating-depressurized-mode all year? (Y/N)

Table 2. Processing and Transmission and Storage Reciprocating Compressors - Rod Packing Individual Atmospheric Vents

Unique name or ID for the individual leak or vent to the atmosphere	Unique name or ID for compressor	Emissions Calculation Method	Measured volumetric flow at standard conditions from the rod packing leak or vent		Annual CH_4 emissions (mt CH_4)
			As found (scfh)	Continuous (annual MMscf)	

Table 3. Processing and Transmission and Storage Reciprocating Compressors - Reporter Emission Factor

Reporter EF (scfh)	Number of measured compressors (during the current year and 2 previous years) from which the reporter EF was developed

Table 4. Alternate Calculation Method for Facilities ***Not Reported to Subpart W ONLY***

Actual count of compressors not reported to Subpart W (i.e., those utilizing the alternate calculation method)	
Annual CH4 emissions using the alternate calculation method (mt CH4)	

Table 5. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Number of reciprocating compressors with rod packing leaks or vents routed to VRU or beneficial use during reporting year	
Number of reciprocating compressors with rod packing leaks or vents routed to flare or control device during reporting year	
Number of reciprocating compressors for which rod packing was replaced during reporting year	
Emission reductions from voluntary action (mt CH_4)	

Additional Information

This space provides an opportunity for reporting optional, qualitative information that was not covered in the above data elements which communicates progress on the applicable commitment.

1 *In Subpart W, this activity is reported on tab (p) Reciprocating Compressors.*

Based on your commitment, please fill out all of the fields below. Hitting the tab key after data entry will automatically take you to the next data-entry field.

For additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "BMP Commitment Option Technical Document" docume

Partner Name	Facility Name	Report Year
SAMPLE PARTNER	SAMPLE FACILITY	20XX

Gathering and Boosting Reciprocating Compressors[1]

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Table 1. Gathering and Boosting Reciprocating Compressors

Number of reciprocating compressors	Annual CH_4 Emissions (mt CH_4)

If the release point changed or controls were added during the reporting year, please provide a different unique name or compressor ID for the reconfigured emission source and the operating data associated with the reconfiguration.

Table 2. Gathering and Boosting Reciprocating Compressors - Rod Packing Replacement

Unique name or ID for compressor	Is rod packing replacement occurring every 26,000 hours or 36 months? (Y/N)	Date of last rod packing replacement (mm/dd/yyyy)	Number of operating hours since rod packing replacement	Where are rod packing venting emissions from the compressor released?	Is compressor part of a manifolded group of compressor sources? (Y/N)

Table 3. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Number of reciprocating compressors with rod packing leaks or vents routed to VRU or beneficial use during reporting year	
Number of reciprocating compressors with rod packing leaks or vents routed to flare or control device during reporting year	
Number of reciprocating compressors for which rod packing was replaced during reporting year	
Methodology used to quantify reductions	
Emission reductions from voluntary action (mt CH_4)	

Additional Information

This space provides an opportunity for reporting optional, qualitative information that was not covered in the above data elements which communicates progress on the applicable commitment.

1 *In Subpart W, this activity is reported on tab (p) Reciprocating Compressors.*

Based on your commitment, please fill out all of the fields below. Hitting the tab key after data entry will automatically take you to the next data-entry field.

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Partner Name	Facility Name	Report Year
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Processing and Transmission and Storage Centrifugal Compressors[1]

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If the release point changed or controls were added during the reporting year, please provide a different unique name or compressor ID for the reconfigured emission source and the operating data associated with the reconfiguration.

Table 1. Processing and Transmission and Storage - Centrifugal Compressors with Wet Seals

Unique name or ID for centrifugal compressor with wet seals	Number of wet seals	Hours in operating mode	Is compressor part of a manifolded group of compressor sources? (Y/N)	Where are wet seal degassing emissions from the compressor released?	Was compressor in not-operating-depressurized-mode all year? (Y/N)

Atmosphere
Flare
Vapor Recovery
Combustion (fuel or thermal oxidizer)

Table 2. Processing and Transmission and Storage Centrifugal Compressors with Dry Seals

Number of centrifugal compressors with dry seals	

Table 3. Processing and Transmission and Storage Centrifugal Compressors with Wet Seal Degassing Vented to the Atmosphere[1]

			Measured volumetric flow rate at standard conditions from the individual vent		
Unique name or ID for the individual leak or vent to the atmosphere	Unique name or ID for centrifugal compressor with wet seal degassing vented to the atmosphere	Emissions Calculation Method	As found when in operating mode (scfh)	Continuous during the reporting year (MMscf)	Annual CH_4 emissions (mt CH_4)

As Found Measurement
Continuous Measurement
Reporter Emission Factor

Table 4. Processing and Transmission and Storage Centrifugal Compressors - Reporter Emission Factor

Reporter EF (scfh)	Number of measured compressors (during the current year and 2 previous years) from which the reporter EF was developed

Table 5. Alternate Calculation Method for Facilities *Not Reported to Subpart W ONLY*

Number of compressors not reported to Subpart W (i.e., those utilizing the alternate calculation method)	
Annual CH_4 emissions using the alternate calculation method (mt CH_4)	

Table 6. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Number of wet seal compressor de-gassing leaks or vents routed to VRU or beneficial use during reporting year	
Number of wet seal compressor de-gassing leaks or vents routed to flare or control device during reporting year	
Number of wet seal compressors converted to dry seal	
Emission reductions from voluntary action (mt CH_4)	

Additional Information

This space provides an opportunity for reporting optional, qualitative information that was not covered in the above data elements which communicates progress on the applicable commitment.

1 *In Subpart W, this activity is reported on tab (o) Centrifugal Compressors.*

Based on your commitment, please fill out all of the fields below. Hitting the tab key after data entry will automatically take you to the next data-entry field.

For additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "BMP Commitment Option Technical Document" doc

Partner Name	Facility Name	Report Year
SAMPLE PARTNER	SAMPLE FACILITY	20XX

Production, Gathering and Boosting, and Transmission and Storage Natural Gas Continuous Bleed Pneumatic Controllers[1]

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Table 1. Production, Gathering and Boosting, and Transmission and Storage Continuous Bleed Natural Gas Pneumatic Controllers

Type of Pneumatic Device	Total Number	Average operating hours per controller (hr/yr)	Total CH_4 Emissions (mt CH_4)
High-bleed pneumatic controllers (greater than 6 scf per hour)			
Low-bleed pneumatic controllers (less than or equal to 6 scf per hour)			

For Production and Gathering & Boosting facilities in the first two years of reporting, total number of pneumatic devices should be the sum of actual and estimated counts.

Table 2. Production, Gathering and Boosting, and Transmission and Storage Continuous Bleed Natural Gas Pneumatic Controllers - Operational Exemptions

Number of high-bleed controllers claiming operational exemptions	
Rationale for operational exemption	

Table 3. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Number of high-bleed controllers converted to low-bleed	
Number of high-bleed controllers converted to zero emitting or removed from service	
Number of low bleed controllers converted to zero emitting or removed from service	
Number of intermittent-bleed controllers converted to zero emitting or removed from service	
If converting or removing intermittent-bleed controllers, mitigation technology(ies) used	
Emission reductions from voluntary action (mt CH_4)	

Additional Information

This space provides an opportunity for reporting optional, qualitative information that was not covered in the above data elements which communicates progress on the applicable commitment.

1 *In Subpart W, this activity is reported on tab (b) NG Pneumatic Device.*

Based on your commitment, please fill out all of the fields below. Hitti

For additional information about the data being requested, and for fur

Partner Name

SAMPLE PARTNER

Production and Gathering and Boosting Fixed Roo

Basin ID

Table 1: Gas-liquid separator, non-separator equipm

Sub-Basin ID

Table 2: Gas-liquid separator, non-separator equip

Sub-Basin ID

Table 3. Voluntary Actions Taken to Reduce Metha

Total number of tanks in the basin
Number of tanks routed to VRU or beneficial use
Number of tanks routed to flare or controls device
Emission reductions from voluntary action (mt CH4)

Additional Information

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the above data elements which communicates progress on the applic

[1]In Subpart W, this activity is reported on tab (j) Atmospheric Storage

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ther detail on quantification methodologies, please refer to the "BMP Commitment Option Technical D

Facility Name	Report Year
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f, Atmospheric Pressure Hydrocarbon Liquid Storage Tanks[1]

ent, or well with oil throughput ≥10 barrels/day using Calculation Method

County and State	Calculation Method Used	Count of atmospheric tanks that vent directly to the atmosphere

ment, or well with oil throughput <10 barrels/day using Calculation Metho

County and State	Count of tanks that vent directly to atmosphere	Count of tanks equipped with vapor recovery system emission control measures

ne Emissions During Reporting Year

nformation that was not covered in
:able commitment.

Tanks.

Document" document found on

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1 or 2

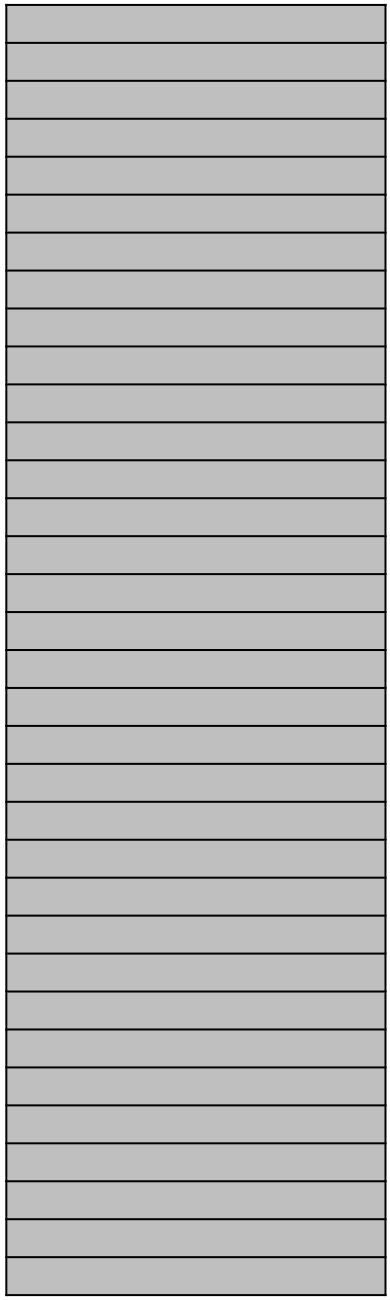
Count of atmospheric tanks with vapor recovery system emission control measures	Count of atmospheric tanks with flaring emission control measures	Annual CH_4 emissions from flashing in atmospheric tanks venting directly to the atmosphere (mt CH_4)

d 3

Count of tanks with flaring emission control measures	Annual CH_4 emission from venting directly to the atmosphere (mt CH_4)	Annual CH_4 emissions from flashing in tanks equipped with vapor recovery systems (mt CH_4)

Annual CH_4 emissions from flashing in atmospheric tanks equipped with vapor recovery systems (mt CH_4)	Annual CH_4 emissions from flashing in atmospheric tanks that control emissions with flaring (mt CH_4)

Annual CH_4 emissions from flashing in tanks that control emissions with flaring (mt CH_4)



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Partner Name	Facility Name	Report Year
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Equipment Leaks (Compressor Isolation and Blowdown Valves)

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Table 1. Equipment Leaks (Compressor Isolation and Blowdown Valves) - Individual Compressor Data

If the release point changed or controls were added during the reporting year, please provide a different unique name or compressor ID for the reconfigured emission source and the operating data associated with the reconfiguration.

Unique name or ID for compressor	Compressor Type (Reciprocating; Centrifugal)	Hours in operating-mode	Hours in standby-pressurized-mode	Hours in not-operating-depressurized-mode	Is compressor part of a manifolded group of compressor sources? (Y/N)	Where are blowdown valve emissions from the compressor released?	Where are isolation valve emissions from the compressor released?	Was compressor in not-operating-depressurized-mode all year? (Y/N)

Table 2. Equipment Leaks (Compressor Isolation and Blowdown Valves) - Component-level Data

												Measured volumetric flow at standard conditions from the component		
Unique name or ID for the individual leak or vent to the atmosphere	Unique name or ID for compressor	Type of Component (Isolation valve; Blowdown valve)	Did you repair or replace this component during the calendar year? (Repair; Replace; N/A)	If repaired or replaced, date of repair or replacement	Did you implement an enhanced maintenance program on the component this year? (Yes;No)	If enhanced maintenance implemented, provide pertinent details on the maintenance activities	Mode in which the compressor was operating when measured (Operating; Standby-pressurized; Not-operating depressurized)	Measurement Method Used	Measurement Date	Was this measurement taken before or after a mitigation action was implemented during the calendar year (if applicable (Before; After; N/A)	Emissions Calculation Method	As found (scfh)	Continuous (annual MMscf)	Annual CH_4 emissions (mt CH_4)

Table 3. Equipment Leaks (Compressor Isolation and Blowdown Valves) - Data for Additional Surveys Conducted

This table can be used to provide details on additional surveys taken throughout the calendar year

								Measured volumetric flow at standard conditions from the component		
Unique name or ID for the individual leak or vent to the atmosphere	Unique name or ID for compressor	Type of Component (Isolation valve; Blowdown valve)	Mode in which the compressor was operating when measured (Operating; Standby-pressurized; Not-operating depressurized)	Measurement Method Used	Measurement Date	Was this measurement taken before or after a mitigation action was implemented during the calendar year (if applicable (Before; After; N/A)	Emissions Calculation Method	As found (scfh)	Continuous (annual MMscf)	Annual CH_4 emissions (mt CH_4)

Table 4. Equipment Leaks (Compressor Isolation and Blowdown Valves) - Reporter Emission Factors

Compressor Type	Compressor Mode	Compressor Source	Reporter EF (scfh)	Number of measured compressors (during the current year and 2 previous years) from which the reporter EF was developed
Centrifugal	Operating	Blowdown valve		
Centrifugal	Not-operating	Isolation valve		
Reciprocating	Operating	Blowdown valve		
Reciprocating	Standby-pressurized	Blowdown valve		
Reciprocating	Not-operating-depressurized	Isolation valve		

Table 5. Equipment Leaks (Compressor Isolation and Blowdown Valves) - Leak Inspection and Repair/Replacement Program Details

Number of surveys at this facility during the calendar year	
How many compressors at this facility were surveyed this year?	
How many vents indicated valve leakage this year?	
How many leaking isolation valves were repaired or replaced this year?	
How many leaking blowdown valves were repaired or replaced this year?	
How many leaking isolation valves were routed to a capture system for beneficial use?	
How many leaking blowdown valves were routed to a capture system for beneficial use?	
How many leaking isolation valves were routed to flare or control device?	
How many leaking blowdown valves were routed to flare or control device?	
If valves were repaired or replaced, use this space to provide any pertinent details on the replacement/repaired valve's performance, installation, and design considerations	

Table 6. Equipment Leaks (Compressor Isolation and Blowdown Valves) - Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Has the inspection and maintenance program been rolled-out to this facility? (Yes; No)	
Emission reductions from voluntary action (mt CH_4)	

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Renewable Natural Gas

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Table 1. General Information

	Investing in biogas projects	Directly interconnecting with biogas project	Delivering RNG to end users	Supplying RNG to end users	Purchasing environmental attributes for RNG that is physically connected to the company's system	Purchasing environmental attributes for RNG that is not physically connected to the company's system
What role(s) does your company play in the RNG process?						
Does your company offer a 'green gas' option to residential customers?						

Table 2. Information About the Biogas Source

Biogas Project ID	What is the feedstock for the biogas?	Specify "Other" Feedstock	Name the specific municipal solid waste landfill or digester from which the RNG was generated	What upgrading technology was used?

Table 3. Information About the Pipeline Interconnect(s)

	If interconnect with natural gas company	If interconnect with biogas project:							
Type of interconnect	Name of interconnecting company	Biogas Project ID	Location of the interconnect (latitude)	Location of the interconnect (longitude)	Volume of gas received this year (scf gas)	Reference to the company's gas quality standards that are applicable to this project (e.g., pipeline tariff)	How far is the interconnect from the feedstock source (km)?	Is there a virtual pipeline?	If yes, details about the virtual pipeline

Table 4. Information about the end use(s) and environmental attributes

Biogas Project ID (if known)	What is the destinated market for the RNG (region/city/state/facility) [if known]?	What is the designated end use?	Specify "Other" end use	Volume of RNG going to this end use, this year (scf gas) [if known]	Does your company currently own the environmental attributes for the RNG?	If your company does not own the environmental attributes now, who does? [If known]	If, your company does, or at one point did, own the attributes for RNG, does your supply contract for "renewable" natural gas include conveyance of environmental attributes to your company (e.g., by way of a contract clause, attestation)?	If your company is selling "renewable" natural gas supply to another downstream entity (e.g., distributor, end consumer etc.), have you contractually conveyed the RNG environmental attributes to the downstream buyer?	Is your company using a third party provider to certify or track attributes? If so, which one(s)?

Table 5. Information about the Partner's strategy for supply of "low carbon fuels"

Company-specific goals or strategies for supply of "low carbon fuels" (such as upgraded biogas, hydrogen, etc.) (e.g., percent of natural gas supply to be RNG by a certain year; convert vehicle fleet to run on natural gas and use RNG for fuel), if applicable	
Is your company blending hydrogen into its natural gas supply?	
At what rate will you be blending (% hydrogen by volume)	
What is the source and/or feedstock of the hydrogen? (e.g., renewable/nuclear/etc.)	
Is any upgrading/cleaning of the hydrogen required before injection?	
What pipeline types does your company inject hydrogen into (material and pressure)?	
Have you done any related customer engagement?	
Has anything been done to customer appliances (if yes, what)?	

Additional Information

This space provides an opportunity for reporting optional, qualitative information that was not covered in the above data elements.

Additional information on the role(s) your company plays in the RNG process or 'green gas' offerings	
Additional information on the biogas project(s)/ upgrading process(es)	
Additional information on the interconnect process	
Additional information on the end use(s)	
Additional information about environmental attributes	

Partners may provide information on technologies/practices/approach currently included in the program. This information may be provided o please upload it with your BMP form(s) in e-GGRT.

For additional information about the data being requested, please refe

Partner Name

SAMPLE PARTNER

Innovative Technologies, Practices, and Approach

BEFORE SUBMITTING INFORMATION UNDER THIS

Applicable emission source(s)
Applicable industry segments
Name of technology/practice(s) to mitigate emissions from that source
Scope of implementation

Confirmation the technology/practice is covered by regulation (federal, state, local)
A description of the technology/practice(s)
Description of how widely available technology is
Description of any technical infeasibilities/issues that need to be addressed
Estimated range of emission reductions achievable and methodology used to develop the estimate
Assessment of cost-effectiveness

Data elements needed to monitor progress in reducing methane emissions
Any other information needed to fully understand the technology/practice/approach

ıes to mitigate emissions from existing emission sources in the program, or for emission sources not
ɔn this form, or as a standalone Word document/PDF. If using a Microsoft Word document or PDF,

er to the "BMP Commitment Option Technical Document" document found on the Methane Challenge w

Facility Name	Report Year
SAMPLE FACILITY	20XX

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Return to Facility Info

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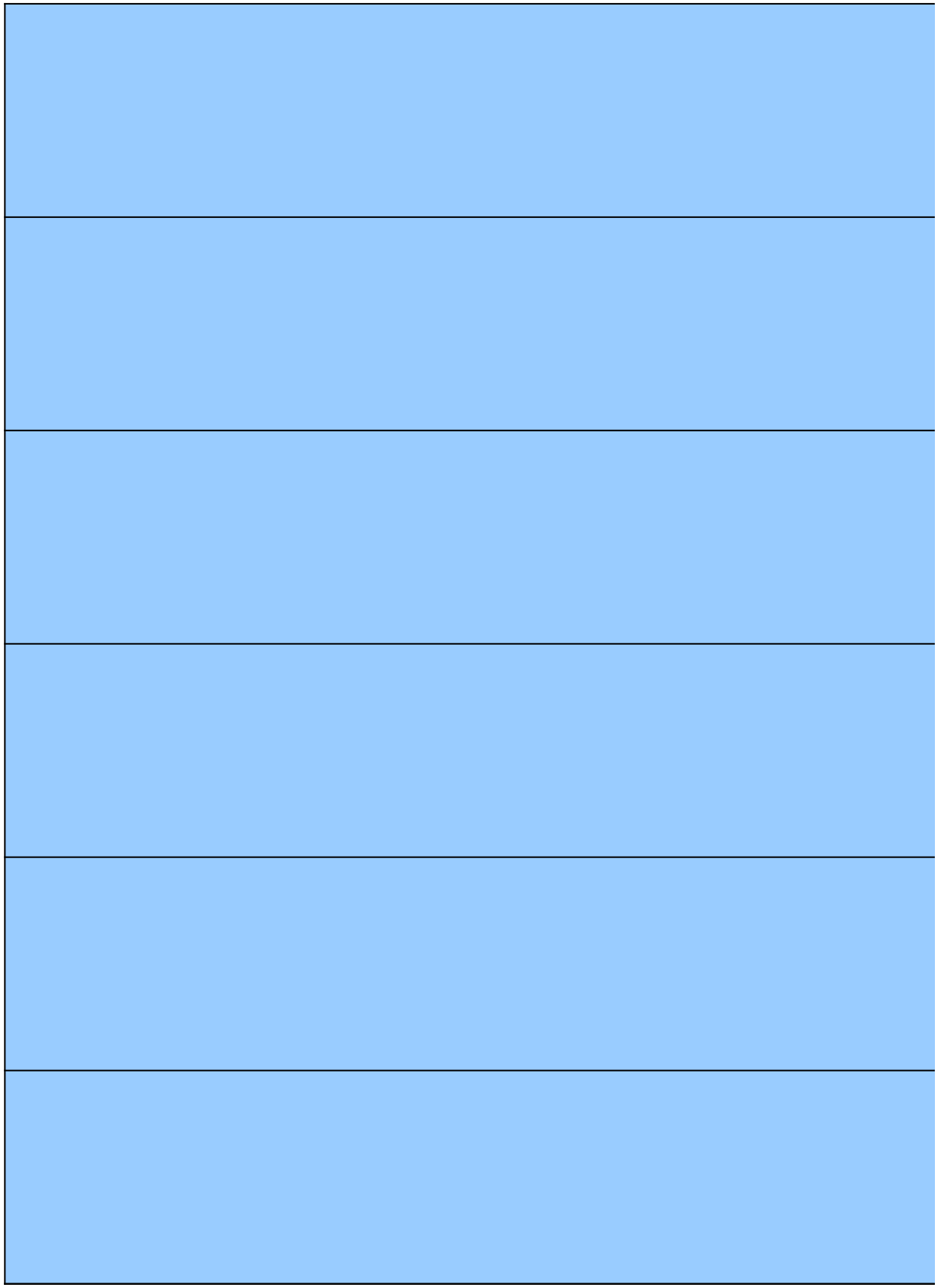

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