Methane Challenge ONE Future Reporting Form

OMB Control No. 2060-0722
Approval expires XX/XX/202X
EPA Form No. 5900-435

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

If 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 use the Table of Contents ('TOC') tab to navigate to and fill out the appropriate tabs corresponding to the sources for which this facility is reporting. Based on the segment you select, cells collecting data not applicable to your segment will automatically turn black and serve as an indicator that you do not need to fill them out.

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.

Methane Challenge Partner ID Number

Assigned Methane Challenge Partner ID Number is unique to each partner. Each reporting facility under the Partner should use the same Methane Challenge Partner ID Number.

Methane Challenge Facility ID Number

Assigned Methane Challenge Facility ID Number is unique to each facility. Each reporting facility for a Partner should have a unique Methane Challenge Facility ID Number.

GHGRP Facility ID Number 123456

A 6-digit number in this cell indicates that this facility reported through the Greenhouse Gas Reporting Program (GHGRP). On all subsequent tabs, fields shaded in grey represent information that should have already been reported for this facility via the GHGRP. Therefore, when completing this form you should skip fields that are shaded in grey. Please note that this form will not update Subpart W data in e-GGRT.

Industry Segment

- ◯ Production
- ◯ Gathering & Boosting
- ◯ Processing
- ◯ Transmission Compression
- ◯ Storage
- ◯ LNG Storage
- ◯ LNG Import/Export
- ◯ Transmission Pipeline
- ◯ Distribution

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

Reporting Year:
Version:
Date Certified:

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This hyperlinked ToC is provided to make it easier to navigate the reporting form. The
If a source is applicable, but its tab not yet complete, 'No' will appear in the correspond
Column C. To indicate a source is complete, mark the 'Source Form Complete' button
source is applicable for the facility's segment, but the facility does not actually contain
automatically.

segment selected on the Facility Info tab will determine which sources are applicable for this facility.
ling cell in Column C. If the source is not applicable, 'N/A' will appear in the corresponding cell in
on the source's tab. This will automatically update the corresponding cell in Column C of this tab. If a
that source, you can check 'Source Not Applicable' on the source's tab. This will also update the ToC

Source Form Completed	Total CH_4 Emissions (mt CH_4)	Reported CH_4 Emissions Reductions (mt CH_4)
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
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N/A	N/A	N/A
N/A	N/A	N/A
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N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
No	N/A	N/A

Based on your segment, 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 "ONE Future Commitment Option Technical Docum

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Acid Gas Removal Vents

Applicable Segments: Processing

Table 1. Acid Gas Removal Vents

Actual count of AGR units	
Annual CH_4 emissions (mt CH_4)	

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

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Associated Gas Venting & Flaring

Applicable Segments: Production

Table 1. Associated Gas Venting & Flaring

Volume of oil produced during venting/flaring (bbls)	
Volume of associated gas sent to sales (scf)	
Actual count of wells venting associated gas	
Actual count of wells flaring associated gas	
Annual CH_4 emissions from venting (mt CH_4)	
Annual CH_4 emissions from flaring (mt CH_4)	

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

Mitigation actions implemented to reduce methane emissions

Emission reductions from voluntary action (mt CH_4)	

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Blowdowns

Applicable Segments: Production, Transmission Pipeline, Distribution

Jump to: Production Transmission Pipeline Distribution

Table 1. Production

Vessel Blowdowns	
Actual count of blowdowns (*optional*)	
Actual count of vessels	
Annual CH_4 emissions (mt CH_4)	
Compressor Blowdowns	
Actual count of blowdowns (*optional*)	
Actual count of compressors	
Annual CH_4 emissions (mt CH_4)	

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

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)
Emission reductions from voluntary action (mt CH_4)		

Table 3.Transmission Pipeline (Between Compressor Stations)

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	Emissions calculated by equipment or event type	Emissions calculated using a flow meter	Alternate Calculation Method
Actual count of blowdowns			
Annual CH_4 emissions (mt CH_4)			

Table 4. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Number of blowdowns that routed gas to:	
A compressor or capture system for beneficial use	
A flare	
A low-pressure system	
Number of hot taps utilized that avoided the need to blowdown gas to the atmosphere	
Number of blowdowns utilizing other emissions control technique	
Specify emissions control methodology	
Emission reductions from voluntary action (mt CH_4)	

Table 5. Distribution Pipeline - Routine Maintenance

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Miles of distribution pipeline mains	
Miles of distribution pipeline services	
Annual CH_4 emissions (mt CH_4)	

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

	Count	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)
Blowdowns that routed gas to a compressor or capture system for beneficial use, flare, or low-pressure system			
Hot taps utilized that avoided the need to blowdown gas to the atmosphere			
Emission reductions from voluntary action (mt CH_4)			

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Blowdown Vent Stacks

Applicable Segments: Gathering & Boosting, Processing, Transmission Compression, LNG Import/Export

Table 1. Blowdown Vent Stacks

	Actual count of blowdowns by equipment or event type	Annual CH_4 emissions by equipment or event type (mt CH_4)
Facility piping		
Pipeline venting		
Compressors		
Scrubbers/strainers		
Pig launchers and receivers		
Emergency shutdowns		
All other equipment with a physical volume greater than or equal 50 cubic feet		

Annual total CH_4 emissions calculated by flow meter (mt CH_4) (emissions calculated using flow meters)	
Annual total CH_4 emissions calculated using the alternate calculation method (mt CH_4)	
Annual CH_4 emissions (mt CH_4)	*This cell will automatically calculate the total emissions, summing the values in cells D10-D16, C18, and C19*

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

Mitigation actions implemented to reduce methane emissions

Emission reductions from voluntary action (mt CH_4)	

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Combustion Units

Applicable Segments: Production, Gathering & Boosting, Distribution

Jump to: Large Internal Units Large External Units

Table 1. Small Units

Actual count of external fuel combustion units with a rated heat capacity less than or equal to 5 mmBtu/hr PLUS internal fuel combustion units that are not compressor-drivers, with a rated heat capacity less than or equal to 1 mmBtu/hr	

Table 2. Large Units - Internal

Actual count of internal fuel combustion units that are not compressor-drivers, with a rated heat capacity greater than 1 million Btu/hr	
Annual CH_4 emissions (mt CH_4) for internal fuel combustion units that are not compressor-drivers, with a rated heat capacity greater than 1 million Btu/hr	
Actual count of internal fuel combustion units of any heat capacity that are compressor-drivers	
Annual CH_4 emissions (mt CH_4) for internal fuel combustion units of any heat capacity that are compressor-drivers	

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

Mitigation actions implemented to reduce methane emissions

Emission reductions from voluntary action (mt CH_4)	

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Table 4. Large Units - External

Actual count of external fuel combustion units with a rated heat capacity greater than 5 million Btu/hr	
Annual CH_4 emissions (mt CH_4) for external fuel combustion units with a rated heat capacity greater than 5 million Btu/hr	

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

Mitigation actions implemented to reduce methane emissions

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Combustion Units - Subpart C

Applicable Segments: Processing, Transmission Compression, Storage, LNG Storage, LNG Import/Export

Table 1. Combustion Units- Subpart C (GHGRP)

Individual combustion units (98.36(b))	
Total number of individual combustion units	
Total annual CH_4 emissions (mt CH_4) from all individual combustion units	
Aggregation of combustion units (98.36(c)(1))	
Total number of aggregated groups	
Total annual CH_4 emissions (mt CH_4) from aggregated units	
Combustion units sharing a common stack or duct that is monitored by CO2 CEMS (98.36(c)(2))	
Total number of combustion units sharing the common stack or duct	
Total annual CH_4 emissions (mt CH_4) for all units sharing a common stack or duct	
Combustion units served by a common fuel supply line (98.36(c)(3))	
Total number of common pipe configurations	
Total annual CH_4 emissions (mt CH_4) for all units served by a common fuel supply line	

Table 2. Combustion Units - Subpart C (alternate calculation method)

Combustion Units (alternate calculation method)		
Fuel type	**Total volume of gas consumed**	**Total annual CH_4 emissions (mt CH_4)**

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

Mitigation actions implemented to reduce methane emissions

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Centrifugal Compressors

Applicable Segments: Production, Gathering & Boosting, Processing, Transmission Compression, Storage, LNG Storage, LNG Import/Export

Jump to: Production or Gathering & Boosting Processing, Transmission, Compression, Storage, LNG Storage, or LNG Import/Export

Table 1. Centrifugal Compressors - Production, Gathering & Boosting

Centrifugal compressors with wet seal oil degassing vents	
Number of centrifugal compressors with wet seal oil degassing vents	
Annual CH_4 emissions (mt CH_4)	
Centrifugal compressors with dry seals	
Number of centrifugal compressors with dry seals	
Annual CH_4 emissions (mt CH_4)	

Table 2. Centrifugal Compressors - Other Segments

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	Compressors reported to Subpart W	**Compressors not reported to Subpart W** *(reporting of detailed activity data is optional)*
Number of centrifugal compressors with wet seals		
Number of manifolded groups of compressors with wet seals, isolation valves, or blowdown valves		
Number of compressors with wet seals, isolation valves, or blowdown valves that are routed to a flare		
Number of compressors with wet seals, isolation valves, or blowdown valves that have vapor recovery		
Number of compressors with wet seals, isolation valves, or blowdown valves that are routed to combustion (fuel or thermal oxidizer)		
Annual CH_4 emissions vented to the atmosphere (mt CH_4)		

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 3. Centrifugal Compressors - Other Segments - Compressors With Dry Seals

Centrifugal compressors with dry seals - number of compressors reported to Subpart W		
Centrifugal compressors with dry seals - number of compressors not reported to Subpart W		
Annual CH4 Emissions vented to atmosphere (mt CH4) - *Calculated using GHGI EF*		*Use only one method to calculate emissions from compressors with dry seals*
Annual CH4 Emissions vented to atmosphere (mt CH4) - *Calculated using alternate method for dry seals*		
Total Annual CH_4 emissions (mt CH_4)		*This cell will automatically calculate the total emissions, summing the values in cells C26, D29,C35 and C36.*

Table 4. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

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	Number of compressors	**Methodology used to quantify reductions (type)**	**Methodology used to quantify reductions (details)**
Compressors routed to vapor recovery units			
Compressors routed to flare			
Compressors where source emissions are captured for fuel use or routed to a thermal oxidizer			
Compressors utilizing other emissions control technique			
Specify emissions control methodology			

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Reciprocating Compressors

Applicable Segments: Production, Gathering and Boosting, Processing, Transmission Compression, Storage, LNG Storage, LNG Import/Export

Jump to: Production or Gathering & Boosting Processing, Transmission, Compression, Storage, LNG Storage, or LNG Import/Export

Table 1. Reciprocating Compressors - Production, Gathering & Boosting

Number of reciprocating compressors	
Annual CH_4 emissions (mt CH_4)	

Table 2. Reciprocating Compressors - Other Segments

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	Compressors reported to Subpart W	Compressors not reported to Subpart W *(reporting of detailed activity data is optional)*
Number of reciprocating compressors		
Number of compressors with rod packing emissions vented to the atmosphere		
Number of manifolded groups of compressor sources: isolation valves, blowdown valves, and rod packing		
Number of compressors routing isolation valve leakage to flares, combustion (fuel or thermal oxidizer), or vapor recovery		
Number of compressors routing blowdown valve leakage to flares, combustion (fuel or thermal oxidizer), or vapor recovery		
Number of compressors routing rod packing vents to flares, combustion (fuel or thermal oxidizer), or vapor recovery		
Annual CH_4 emissions vented to the atmosphere from isolation valves, blowdown valves, and rod packing (including estimated fraction of CH_4 from manifolded compressor sources) (mt CH_4)		
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)		

Total Annual CH_4 emissions (mt CH_4)	

This cell will automatically calculate the total emissions, summing the values in cells C23 and D26

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

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	Number of compressors	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)
Replaced reciprocating compressor rod packing			
Compressors routed to vapor recovery units			
Compressors routed to flare			
Compressors where source emissions are captured for fuel use or routed to a thermal oxidizer			
Compressors utilizing other emissions control technique			
Specify emissions control methodology			

Emission reductions from voluntary action (mt CH_4)	

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Compressor Starts

Applicable Segments: Production

Table 1. Compressor Starts (GHGI)

Actual count of starts (*optional)*	
Actual count of compressors	
Annual CH_4 emissions (mt CH_4)	

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

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

Emission reductions from voluntary action (mt CH_4)	

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Damages

Applicable Segments: Gathering & Boosting, Distribution

Table 1. Upsets: Mishaps

Miles of gathering pipeline	
Miles of distribution pipeline mains	
Miles of distribution pipeline services	
Annual CH_4 emissions (mt CH_4)	

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

Actions taken to minimize excavation damages/reduce methane emissions from excavation damages	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Dehydrator Vents

Applicable Segments: Production, Gathering & Boosting, Processing, Transmission Compression, Storage

Table 1. Dehydrators (GHGRP; alternate calculation method for Transmission Compression and Storage segments)

This table can be filled out optionally for Transmission Compression or Storage facilities if data are available.

Subpart W - Calculation Method 1 using computer modeling for glycol dehydrators
Subpart W - Calculation Method 2 using EFs and population counts for glycol dehydrators
Subpart W - Calculation Method 3 using engineering calculations for desiccant dehydrators

	Small glycol dehydrators	Large glycol dehydrators	Desiccant dehydrators
For Calculation Method 1 and Calculation Method 2, actual count of glycol dehydrators			
For Calculation Method 3, actual count of desiccant dehydrators			
Count of dehydrators venting to a flare or regenerator firebox/fire tubes			
Count of dehydrators at the facility that vented to a vapor recovery device			
Annual CH_4 emissions from dehydrators venting to a flare or regenerator firebox/fire tubes (mt CH_4)			
Annual CH_4 emissions from all dehydrators that were not vented to a flare or regenerator firebox/fire tubes (mt CH_4)			

Table 2. Dehydrators (GHGI)

If data are provided in the Table 1 above for Transmission Compression or Storage facilities, the facility does not need to complete the GHGI methodology table.

Volume of gas dehydrated (MMscf/yr) in Transmission Compression and Storage segments	
Annual CH_4 emissions from dehydrators in Transmission Compression and Storage segments (mt CH_4)	

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

	Count	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)
Dehydrators routed to Vapor Recovery Units			
Dehydrators routed to Flare or Regenerator Firebox/Fire Tubes			
Dehydrators utilizing other emissions control technique			
Specify emissions control methodology			

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Distribution Mains & Services

Applicable Segments: Distribution

Table. 1 Distribution Mains

	Total miles	Annual CH_4 emissions (mt CH_4)
Cast iron distribution mains		
Plastic distribution mains		
Protected steel distribution mains		
Unprotected steel distribution mains		
Cast iron or unprotected steel distribution mains with plastic liners or inserts		

Table 2. Distribution Services

	Total number	Annual CH_4 emissions (mt CH_4)
Cast iron services		
Copper services		
Plastic services		
Protected steel services		
Unprotected steel services		
Cast iron or unprotected steel services with plastic liners or inserts		

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

MAINS	
Miles of cast iron mains replaced with plastic, protected steel, or rehabilitated with plastic pipe inserts or cured-in-place liners	
Miles of unprotected steel mains cathodically protected, replaced with plastic or protected steel, or rehabilitated with pipe inserts or cured-in-place liners	
Emission reductions from voluntary action for mains (mt CH_4)	
SERVICES	
Actual count of cast iron services replaced with plastic, protected steel, copper, or rehabilitated with plastic pipe inserts	
Actual count of unprotected steel services cathodically protected or replaced with protected steel, plastic, copper, or rehabilitated with plastic pipe inserts	
Emission reductions from voluntary action for services (mt CH_4)	

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Equipment Leaks

Applicable Segments: Production, Gathering & Boosting, Processing, Transmission Compression, Storage, LNG Storage, LNG Import/Export

Jump to: Major Equipment Type | Emissions Calculated for Core Emissions Calculated by Proxy Emissions Calculated Using Voluntary Actions

Table 1. Major Equipment Type

	Count of each major equipment type
Natural Gas Production and Gathering and Boosting Equipment	
Wellhead	
Separators	
Meters/piping	
Compressors	
In-line heaters	
Dehydrators	

Table 2. Emissions Calculated for Component Types Using Emissions Factors

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	Number of each surveyed component type identified as leaking *(data reported to Subpart W)*	Annual CH_4 emissions (mt CH_4) *(data reported to Subpart W)*	Number of each surveyed component type identified as leaking *(data not reported to Subpart W)*	Annual CH_4 emissions (mt CH_4) *(data not reported to Subpart W)*
Production and Gathering & Boosting - Gas Service				
Production and Gathering & Boosting - Gas Service: Valve				
Production and Gathering & Boosting - Gas Service: Flange				
Production and Gathering & Boosting - Gas Service: Connector (other)				
Production and Gathering & Boosting - Gas Service: Open-Ended Line				
Production and Gathering & Boosting - Gas Service: Pressure Relief Valve				
Production and Gathering & Boosting - Gas Service: Pump Seal				
Production and Gathering & Boosting - Gas Service: Other				
Processing - Compressor Components, Gas Service				
Processing - Compressor Components, Gas Service: Valve				
Processing - Compressor Components, Gas Service: Connector				
Processing - Compressor Components, Gas Service: Open-ended Line				
Processing - Compressor Components, Gas Service: Pressure Relief Valve				
Processing - Compressor Components, Gas Service: Meter				
Processing - Non-Compressor Components, Gas Service				
Processing - Non-Compressor Components, Gas Service: Valve				
Processing - Non-Compressor Components, Gas Service: Connector				
Processing - Non-Compressor Components, Gas Service: Open-ended Line				
Processing - Non-Compressor Components, Gas Service: Pressure Relief Valve				
Processing - Non-Compressor Components, Gas Service: Meter				
Transmission Compression - Compressor Components, Gas Service				
Transmission Compression - Compressor Components, Gas Service: Valve				
Transmission Compression - Compressor Components, Gas Service: Connector				
Transmission Compression - Compressor Components, Gas Service: Open-ended Line				
Transmission Compression - Compressor Components, Gas Service: Pressure Relief Valve				
Transmission Compression - Compressor Components, Gas Service: Meter or Instrument				
Transmission Compression - Compressor Components, Gas Service: Other				
Transmission Compression - Non-Compressor Components, Gas Service				
Transmission Compression - Non-Compressor Components, Gas Service: Valve				
Transmission Compression - Non-Compressor Components, Gas Service: Connector				
Transmission Compression - Non-Compressor Components, Gas Service: Open-ended Line				
Transmission Compression - Non-Compressor Components, Gas Service: Pressure Relief Valve				
Transmission Compression - Non-Compressor Components, Gas Service: Meter or Instrument				
Transmission Compression - Non-Compressor Components, Gas Service: Other				
Storage - Storage Station, Gas Service				
Storage - Storage Station, Gas Service: Valve				
Storage - Storage Station, Gas Service: Connector (other)				
Storage - Storage Station, Gas Service: Open-ended Line				
Storage - Storage Station, Gas Service: Pressure Relief Valve				
Storage - Storage Station, Gas Service: Meter and Instrument				
Storage - Storage Station, Gas Service: Other				
Storage - Wellheads, Gas Service				
Storage - Wellheads, Gas Service: Valve				
Storage - Wellheads, Gas Service: Connector (other than flanges)				
Storage - Wellheads, Gas Service: Flange				
Storage - Wellheads, Gas Service: Open-ended Line				
Storage - Wellheads, Gas Service: Pressure Relief Valve				
Storage - Wellheads, Gas Service: Other				
LNG Storage - LNG Storage, LNG Service				
LNG Storage - LNG Storage, LNG Service: Valve				
LNG Storage - LNG Storage, LNG Service: Connector				
LNG Storage - LNG Storage, LNG Service: Pump Seal				
LNG Storage - LNG Storage, LNG Service: Other				
LNG Storage - LNG Storage, Gas Service				
LNG Storage - LNG Storage, Gas Service: Valve				
LNG Storage - LNG Storage, Gas Service: Connector				
LNG Storage - LNG Storage, Gas Service: Open-Ended Line				
LNG Storage - LNG Storage, Gas Service: Pressure Relief Valve				
LNG Storage - LNG Storage, Gas Service: Meter and Instrument				
LNG Storage - LNG Storage, Gas Service: Other				
LNG Import and Export Equipment - LNG Terminal, LNG Service				
LNG Import and Export Equipment - LNG Terminal, LNG Service: Valve				
LNG Import and Export Equipment - LNG Terminal, LNG Service: Connector				
LNG Import and Export Equipment - LNG Terminal, LNG Service: Pump Seal				
LNG Import and Export Equipment - LNG Terminal, LNG Service: Other				
LNG Import and Export Equipment - LNG Terminal, Gas Service				
LNG Import and Export Equipment - LNG Terminal, Gas Service: Valve				
LNG Import and Export Equipment - LNG Terminal, Gas Service: Connector				
LNG Import and Export Equipment - LNG Terminal, Gas Service: Open-ended Line				
LNG Import and Export Equipment - LNG Terminal, Gas Service: Pressure Relief Valve				
LNG Import and Export Equipment - LNG Terminal, Gas Service: Meter and Instrument				
LNG Import and Export Equipment - LNG Terminal, Gas Service: Other				

Table 3. Emissions Calculated Using Population Counts

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	Count of each emission source type	Annual CH_4 emissions (mt CH_4)
Production and Gathering & Boosting		
Production and Gathering & Boosting: Valves		
Production and Gathering & Boosting: Connectors		
Production and Gathering & Boosting: Open ended lines		
Production and Gathering & Boosting: Pressure relief valves		
Storage - Storage Wellheads, Gas Service		
Storage - Storage Wellheads, Gas Service: Valves		
Storage - Storage Wellheads, Gas Service: Connector		
Storage - Storage Wellheads, Gas Service: Open-ended line		
Storage - Storage Wellheads, Gas Service: Pressure Relief Valve		
LNG Storage - Compressor, Gas Service		
LNG Storage - Compressor, Gas Service: Vapor Recovery Compressor		
LNG Import and Export Equipment - LNG Terminals Compressor, Gas Service		
LNG Import and Export Equipment - LNG Terminals Compressor, Gas Service: Vapor Recovery Compressor		

[98.236(t)(3)(ii)]

Table 4. Emissions Calculated Using Alternate Calculation Method

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Actual count of facilities utilizing the alternate calculation method	
Annual CH4 emissions using the alternate calculation method (mt CH_4)	

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

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Mitigation actions implemented to reduce methane emissions

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Equipment Leaks - Distribution

Applicable Segments: Distribution

Jump to station-type: Above grade T-D transfer | Below grade T-D transfer | Above grade metering-regulating | Below grade metering-regulating

Table 1. Equipment Leaks - Above Grade Transmission-Distribution (T-D) Transfer Stations

Does the facility perform equipment leak surveys across a multiple year leak survey cycle	
Actual count of above grade T-D transfer stations	
Actual count of meter/regulator runs at above grade T-D transfer station facilities	
Number of above grade T-D transfer stations surveyed in the calendar year or surveyed in the current leak survey cycle	
Number of meter/regulator runs at above grade T-D transfer stations surveyed in the calendar year or surveyed in the current leak survey cycle	
Average time that meter/regulator runs surveyed in the calendar year or surveyed in the current leak survey cycle were operational, in hours	
Annual CH_4 emissions (mt CH_4)	

Table 2. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Above Grade Transmission-Distribution Transfer Stations

Mitigation actions implemented to reduce methane emissions

Emission reductions from voluntary action (mt CH_4)	

Table 3. Equipment Leaks - Below Grade Transmission-Distribution (T-D) Transfer Stations

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	Actual Count of below grade T-D transfer stations	Average estimated time that the emission source type was operational in the calendar year (hours)	Annual CH_4 emissions (mt CH_4)
Below grade T-D transfer stations (gas service, inlet pressure > 300 psig)			
Below grade T-D transfer stations (gas service, inlet pressure 100 - 300 psig)			
Below grade T-D transfer stations (gas service, inlet pressure < 100 psig)			

Table 4. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Below Grade Transmission-Distribution Transfer Stations

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

Emission reductions from voluntary action (mt CH_4)	

Table 5. Equipment Leaks - Above Grade Metering-Regulating (M&R) Stations

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Actual count of above grade metering-regulating stations that are not T-D transfer stations	
Actual count of meter/regulator runs at above grade metering-regulating stations that are not above grade T-D transfer station facilities	
Average estimated time that each meter/regulator run at above grade metering-regulating stations, that are not above grade T-D transfer stations, was operational in the calendar year (hours)	
Annual CH_4 emissions (mt CH_4)	

Table 6. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Above Grade Metering-Regulating Stations

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

Emission reductions from voluntary action (mt CH_4)	

Table 7. Equipment Leaks - Below Grade Metering-Regulating (M&R) Stations

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	Actual count of below grade M&R stations	Average estimated time that the emission source type was operational in the calendar year (hours)	Annual CH_4 emissions (mt CH_4)
Actual count of below grade M&R stations (gas service, inlet pressure > 300 psig)			
Actual count of below grade M&R stations (gas service, inlet pressure 100-300 psig)			
Actual count of below grade M&R stations (gas service, inlet pressure < 100 psig)			

Table 8. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Below Grade Metering-Regulating Stations

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

Emission reductions from voluntary action (mt CH_4)	

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Equipment Leaks

Applicable Segments: Gathering & Boosting, Transmission Pipeline

Table 1. Leaks - Gathering and Transmission Pipelines

Pipeline type	Total miles of pipeline type	Annual CH_4 emissions from pipeline type (mt CH_4)
Gathering - Cast Iron		
Gathering - Protected Steel		
Gathering - Unprotected Steel		
Gathering - Plastic/Composite		
Transmission - All		

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

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

Emission reductions from voluntary action (mt CH_4)	

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Flare Stacks

Applicable Segments: Production, Gathering and Boosting, Processing, Transmission Compression, Storage, LNG Storage, LNG Import/Export

Table 1. Flare Stacks

Actual count of flare stacks	[redacted]
Annual CH_4 emissions (mt CH_4)	

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

Number of flares with all or part of gas flow routed to VRU, fuel, or other beneficial use	[redacted]
Combined volume of gas routed to VRU, fuel, or other beneficial use (scf)	
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.

[redacted]

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Liquids Unloading

Applicable Segments: Production

Table 1. Liquids Unloading for Wells

Actual count of wells conducting liquids unloading without plunger lifts that are vented to the atmosphere	
Count of unloadings for all wells without plunger lifts	
Annual CH_4 emissions from wells conducting liquids unloading without plunger lifts that are vented to the atmosphere (mt CH_4)	
Actual count of wells conducting liquids unloading with plunger lifts that are vented to the atmosphere	
Count of unloadings for all wells with plunger lifts	
Annual CH_4 emissions from wells conducting liquids unloading with plunger lifts that are vented to the atmosphere (mt CH_4)	
Annual CH_4 emissions from liquids unloading (mt CH_4)	

This cell will automatically calculate the total emissions, summing the values in cells C11 and C14

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

Emission control methodology being implemented	
Number of wells reducing emissions voluntarily	
Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Meters

Applicable Segments: Distribution

Table 1. Meters

Residential Meters	
Actual count of outdoor residential meters	
Annual CH_4 emissions (mt CH_4)	

Commercial/Industrial Meters	
Actual count of commercial/industrial meters	
Annual CH_4 emissions (mt CH_4)	

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

Residential Meters		
Mitigation actions implemented to reduce methane emissions	**Methodology used to quantify reductions (type)**	**Methodology used to quantify reductions (details)**

Emission reductions from voluntary action (mt CH_4)	

Commercial/Industrial Meters		
Mitigation actions implemented to reduce methane emissions	**Methodology used to quantify reductions (type)**	**Methodology used to quantify reductions (details)**

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Pneumatic Devices

Applicable Segments: Production, Gathering & Boosting, Processing, Transmission Compression, Storage

Jump to: Production, Gathering & Boosting, Transmission Compression, or Storage Processing

Table 1. Natural Gas Pneumatic Device (Controller) Vents - All Segments (except Processing)

Controller type	Actual count	Estimated count	Annual CH_4 emissions from controller type (mt CH_4)
High-bleed pneumatic controllers			
Intermittent-bleed pneumatic controllers			
Low-bleed pneumatic controllers			

Table 2. Natural Gas Pneumatic Device (Controller) Vents - Processing

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Controller type	Actual count	Annual CH_4 emissions from controller type (mt CH_4)
High-bleed pneumatic controllers		
Intermittent-bleed pneumatic controllers		
Low-bleed pneumatic controllers		

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

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Number of high-bleed controllers converted to low-bleed	
Number of high-bleed controllers converted to zero emitting or removed from service	
Number of intermittent-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 controllers utilizing other emissions control technique	
Specify emissions control methodology	
Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Pneumatic Pumps

Applicable Segments: Production, Gathering & Boosting

Table 1. Natural Gas Driven Pneumatic (Chemical Injection) Pump Vents

Actual count of natural gas driven pneumatic pumps	
Annual CH_4 emissions (mt CH_4)	

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

Mitigation actions implemented to reduce methane emissions	Number of pumps with mitigation actions implemented to reduce emissions

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Pressure Relief Valves

Applicable Segments: Production, Distribution

Table 1. Pressure Relief Valves

Pressure Relief Valve Releases	
Actual count of PRVs (production)	
Miles of main (distribution)	
Annual CH_4 emissions (mt CH_4)	

Per Annex Table 3.6-1 in the GHGI, Pressure Relief Valve releases are categorized as Upsets for the Production segment and Routine Maintenance for the Distribution segment.

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

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Station Venting

Applicable Segments: Storage, LNG Storage

Table 1. Station Venting (GHGI)

Please fill out either the GHGI method table OR the alternate calculation table.

Routine Maintenance/Upsets: Storage Station - Venting	
Actual count of storage stations (natural gas)	
Annual CH_4 emissions (mt CH_4)	
LNG Storage: LNG Stations	
Actual count of LNG storage stations (natural gas)	
Annual CH_4 emissions (mt CH_4)	

Table 2. Station Venting (alternate calculation method)

	Actual count of blowdowns by equipment or event type	Annual CH_4 emissions by equipment or event type (mt CH_4)
Facility piping		
Pipeline venting		
Compressors		
Scrubbers/strainers		
Pig launchers and receivers		
Emergency shutdowns		
All other equipment with a physical volume greater than or equal 50 cubic feet		

Annual total CH_4 emissions calculated by flow meter (mt CH_4) (emissions calculated using flow meters)	

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

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Storage Tank Venting

Applicable Segments: Production, Gathering & Boosting, Transmission Compression

Jump to: Production or Gathering & Boosting Transmission Compression

Table 1. Fixed-Roof Tanks - Production, Gathering & Boosting

Using Calculation Methods 1 & 2

Total volume of oil sent to tanks from all gas-liquid separators or gathering and boosting non-separator equipment or wells flowing directly to atmospheric tanks with oil throughput ≥ 10 barrels/day (bbl/year)		
Number of wells sending oil to gas-liquid separators or directly to atmospheric tanks at ≥10 bbl/day		
Actual count of atmospheric tanks		
Annual CH4 emissions (mt CH4)		
	Count	**Annual CH_4 emissions (mt CH_4)**
Tanks that control emissions with vapor recovery systems		
Tanks that vented directly to the atmosphere		
Tanks with flaring emission control measures		
Gas-liquid separators whose liquid dump valves did not close properly		

Using Calculation Method 3

Total annual oil/condensate throughput that is sent to all atmospheric tanks from wells, separators, and non-separator equipment with oil throughput <10 barrels/day (bbl/year)		
Count of wells with gas-liquid separators		
Count of wells without gas-liquid separators		
Actual count of atmospheric tanks		
Annual CH4 emissions (mt CH4)		
	Count	**Annual CH_4 emissions (mt CH_4)**
Tanks that did not control emissions with flares		
Tanks that vented directly to the atmosphere		
Tanks with flaring emission control measures		

Table 2. Floating Roof Tanks - Production, Gathering & Boosting

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Actual count of floating roof tanks	
Annual CH_4 emissions (mt CH_4)	

Table 3. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Production and Gathering & Boosting

Number of tanks routed to VRU or beneficial use	
Number of tanks routed to flare	*This cell will automatically calculate the total number of tanks routed to flare, summing the values in cells C18 and C31*
Emission reductions from voluntary action (mt CH_4)	

Table 4. Storage Tank Vents - Transmission Compression

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	Count	**Annual CH_4 emissions (mt CH_4)**
Storage tank vent stacks with flares attached		
Storage tank vent stacks without flares attached		
Storage tank vent stacks with dump valve leakage directly to atmosphere		
Storage tank vent stacks with flared dump valve leakage		
Storage tanks utilizing the alternate calculation method		

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

Number of tanks with compressor scrubber dump valve leakage routed to flare or control device	
Emission reductions from voluntary action (mt CH_4)	

Additional Information

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Well Drilling, Testing, and Completions

Applicable Segments: Production

Jump to: Well Drilling Completions/Workovers with Hydra Completions/Workovers with/Well Testing

ell Drilling Source Form Complete
ell Drilling Source Not Applicable
! Venting During Well Completions/Workovers with Hydraulic Fracturing Source Form Complete
ell Venting During Well Completions/Workovers with Hydraulic Fracturing Source Not Applicable
Well Venting During Well Completions/Workovers without Hydraulic Fracturing Source Form Complete
Well Venting During Well Completions/Workovers without Hydraulic Fracturing Source Not Applicable
ell Testing Venting and Flaring Source Form Complete
ell Testing Venting and Flaring Source Not Applicable

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Table 1. Well Drilling

Actual count of wells drilled	
Annual CH_4 emissions (mt CH_4)	

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

Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)
Emission reductions from voluntary action (mt CH_4)		

Table 3. Well Venting During Well Completions/Workovers, with Hydraulic Fracturing

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Well Venting During Well Completions, with Hydraulic Fracturing	
Actual count of completions in the calendar year	
Actual count of wells that conduct flaring	
Actual count of wells that have reduced emission completions	
Annual CH_4 emissions (mt CH_4)	
Well Venting During Well Workovers, with Hydraulic Fracturing	
Total count of workovers	
Actual count of wells that conduct flaring	
Actual count of wells that have reduced emission workovers	
Annual CH_4 emissions (mt CH_4)	

Table 4. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Well Venting During Well Completions/Workovers, with Hydraulic Fracturing

Number of well completions/workovers utilizing flaring	
Number of well completions/workovers utilizing reduced emission completions	
Number of well completions/workovers utilizing other emissions control technique	
Specify emissions control methodology	
Emission reductions from voluntary action (mt CH_4)	

Table 5. Well Venting During Well Completions/Workovers, without Hydraulic Fracturing

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Well Venting During Well Completions, without Hydraulic Fracturing	
Total count of completions that vented directly to atmosphere without flaring	
Total count of completions with flaring	
Annual CH_4 emissions that resulted from venting gas directly to the atmosphere for completions (mt CH_4)	
Annual CH_4 emissions that resulted from flares for completions (mt CH_4)	
Well Venting During Well Workovers without Hydraulic Fracturing	
Total count of workovers that vented directly to atmosphere without flaring	
Total count of workovers with flaring	
Annual CH_4 emissions that resulted from venting gas directly to the atmosphere for workovers (mt CH_4)	
Annual CH_4 emissions that resulted from flares for workovers (mt CH_4)	

Table 6. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Well Venting During Well Completions/Workovers, without Hydraulic Fracturing

Number of completions/workovers utilizing flaring	
Number of completions/workovers utilizing other emissions control technique	
Specify emissions control methodology	
Emission reductions from voluntary action (mt CH_4)	

Table 7. Well Testing Venting and Flaring

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Actual count of wells tested in a calendar year that vented emissions to the atmosphere	
Average number of days wells were tested that vented emissions to the atmosphere	
Actual count of wells tested in a calendar year that flared emissions	
Average number of days wells were tested that flared emissions	
Annual CH_4 emissions from venting (mt CH_4)	
Annual CH_4 emissions from flaring (mt CH_4)	

Table 8. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Well Testing Venting and Flaring

Mitigation actions implemented to reduce methane emissions
Emission reductions from voluntary action (mt CH_4)

Additional Information

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Renewable Natural Gas

Applicable Segments: Transmission Pipeline, Distribution

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 "ONE Future Commitment Option Technical Document" found on the Methane Challenge webs

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SAMPLE FACILITY	20XX

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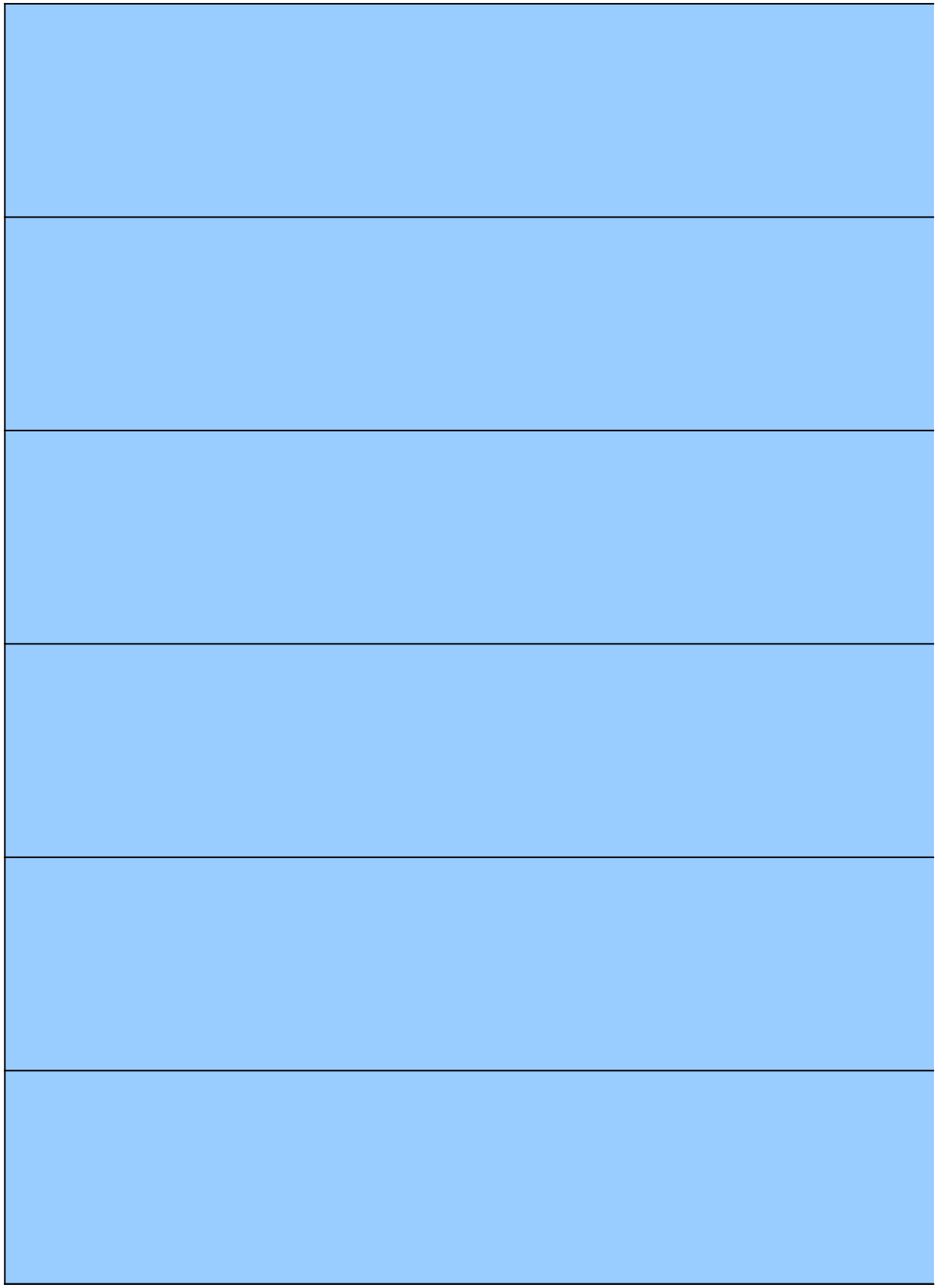

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