Methane Challenge ONE Future Reporting Form

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 SAMPLE PARTNER 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. SAMPLE FACILITY 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. 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 with 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. GHGRP Facility ID Number 123456 Production
Gathering &
Processing
Transmissic
Storage
LNG Storag
LNG Import
Transmissic
Distribution Industry Segment Gathering & Boosting Transmission Compression LNG Storage LNG Import/Export Transmission Pipeline

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

Reporting Year: Version:

This collection of information is approved by OMB under the Papenwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2060-0722). Responses to this collection of information are voluntary 42 U.S.C 7403(g). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordecepting burden for this collection of information is estimated to be 60 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent but to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Permsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

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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.

Sources				
Acid Gas Removal Vents				
Associated Gas Venting & Flaring				
<u>Blowdowns</u>				
Blowdown Vent Stacks				
Combustion Units				
Combustion Units - Subpart C				
Compressors - Centrifugal				
Compressors - Reciprocating				
Compressor Starts				
<u>Damages</u>				
<u>Dehydrator Vents</u>				
<u>Distribution Mains & Services</u>				
Equipment Leaks				
Equipment Leaks - Distribution				
Equipment Leaks - Gathering and Transmission Pipelines				
Flare Stacks				
<u>Liquids Unloading</u>				
<u>Meters</u>				
Pneumatic Devices				
Pneumatic Pumps				
Pressure Relief Valves				
Station Venting				
Storage Tank Venting				
Well Drilling				
Well Venting During Completions/Workovers with Hydraulic Fracturing				
Well Venting During Completions/Workovers without Hydraulic Fracturing				
Well Testing Venting and Flaring				
Renewable Natural Gas				
Innovative Technologies, Practices, and Approaches				

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
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.

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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."

 Partner Name
 Facility Name
 Report Year

 SAMPLE PARTNER
 SAMPLE FACILITY
 20XX

Applicable Segments: Processing

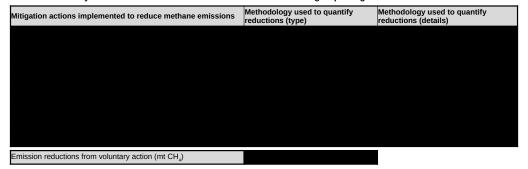
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Acid Gas Removal Vents

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



Additional Information

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.

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For additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "ONE Future Commitment Option Technica"

Applicable Segments: Production

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

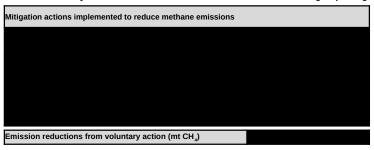
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Associated Gas Venting & Flaring

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



Additional Information

Partner Name	Facility Name		Report Year					
AMPLE PARTNER	SAMPLE FACILITY		20XX		Return to Table	e of Contents		
Blowdowns	Applicable Segments: Produ Jum	ction, Transmission Pipeline, Distrit p to: <u>Production</u>	Transmission Pipeline	Distribution				
able 1. Production								
essel Blowdowns								
Actual count of blowdowns (optional)								
ctual count of vessels								
Annual CH ₄ emissions (mt CH ₆)								
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 Methar								
Mitigation actions implemented to reduce methane emissions	Methodology used to quanti reductions (type)	Methodology used to quantit	y reductions (details)					
Emission reductions from voluntary action (mt CH ₄)								
Emission reductions from voluntary action (mt CH ₄)								
	or Stations)	Patturn to top						
Emission reductions from voluntary action (mt CH _a) Table 3.Transmission Pipeline (Between Compresse	or Stations)	Return to top						
			Alternate Calculation					
	or Stations) Emissions calculated by equipment or event type	Return to top Emissions calculated using flow meter	a Alternate Calculation Method					
	Emissions calculated by	Emissions calculated using	Alternate Calculation Method					
Table 3.Transmission Pipeline (Between Compress	Emissions calculated by	Emissions calculated using	a Alternate Calculation Method					
Table 3.Transmission Pipeline (Between Compresson	Emissions calculated by	Emissions calculated using	a Alternate Calculation Method					
Table 3.Transmission Pipeline (Between Compresson	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Table 3.Transmission Pipeline (Between Compresson Actual count of blowdowns Annual CH, emissions (mt CH,)	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Table 3.Transmission Pipeline (Between Compresson Actual count of blowdowns Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methan	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Table 3.Transmission Pipeline (Between Compressor Actual count of blowdowns Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methan Number of blowdowns that routed gas to:	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Actual count of blowdowns Annual CH ₄ emissions (mt CH ₂) Table 4. Voluntary Actions Taken to Reduce Methan Number of blowdowns that routed gas to: A compressor or capture system for beneficial use	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Actual count of blowdowns Annual CH ₄ emissions (mt CH ₄) Table 4. Voluntary Actions Taken to Reduce Methan 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	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Table 3.Transmission Pipeline (Between Compressor Actual count of blowdowns Annual CH ₄ emissions (mt CH ₄) Table 4. Voluntary Actions Taken to Reduce Methan Number of blowdowns that routed gas to: A compressor or capture system for beneficial use A flare A low-pressure system Number of bot tags utilized that avoided the need to blowdown ga to the atmosphere	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Table 3.Transmission Pipeline (Between Compressor Actual count of blowdowns Annual CH ₄ emissions (mt CH ₂) Table 4. Voluntary Actions Taken to Reduce Methan 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 ga to the atmosphere	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Actual count of blowdowns Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methan 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	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Table 3.Transmission Pipeline (Between Compressor Actual count of blowdowns Annual CH ₄ emissions (mt CH ₂) Table 4. Voluntary Actions Taken to Reduce Methan 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 ga to the atmosphere	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Actual count of blowdowns Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methan Number of blowdowns that routed gas to: A compressor or capture system for beneficial use 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,)	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Actual count of blowdowns Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methan 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,) Table 5. Distribution Pipeline - Routine Maintenance	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Actual count of blowdowns Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methan Number of blowdowns that routed gas to: A compressor or capture system for beneficial use A low-pressure system 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,) Table 5. Distribution Pipeline - Routine Maintenance Miles of distribution pipeline - Routine Maintenance	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Actual count of blowdowns Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methan Number of blowdowns that routed gas to: A compressor or capture system for beneficial use A low-pressure system A low-pressure system Number of bot 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,) Table 5. Distribution Pipeline - Routine Maintenance Miles of distribution pipeline services	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Actual count of blowdowns Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methan Number of blowdowns that routed gas to: A compressor or capture system for beneficial use A low-pressure system 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,) Table 5. Distribution Pipeline - Routine Maintenance Miles of distribution pipeline - Routine Maintenance	Emissions calculated by equipment or event type	Emissions calculated using flow meter	Alternate Calculation Method					
Actual count of blowdowns Actual count of blowdowns Annual CH ₄ emissions (mt CH ₂) Table 4. Voluntary Actions Taken to Reduce Methan 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 ga to the atmosphere Number of blowdowns utilizing other emissions control technique Specify emissions control methodology Emission reductions from voluntary action (mt CH ₂) Table 5. Distribution Pipeline - Routine Maintenance Milles of distribution pipeline services Annual CH ₄ emissions (mt CH ₂)	Emissions calculated by equipment or event type ene Emissions During Report	Emissions calculated using if flow meter ting Year	Alternate Calculation Method					
Actual count of blowdowns Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methan Number of blowdowns that routed gas to: A compressor or capture system for beneficial use A low-pressure system A low-pressure system Number of bot 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,) Table 5. Distribution Pipeline - Routine Maintenance Miles of distribution pipeline services	emissions calculated by equipment or event type ene Emissions During Reports	Emissions calculated using flow meter ting Year Return to too	Method					
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Actual count of blowdowns Annual CH ₄ emissions (mt CH ₂) Table 4. Voluntary Actions Taken to Reduce Methan 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 ₂) Table 5. Distribution Pipeline - Routine Maintenance Miles of distribution pipeline services Annual CH ₄ emissions (mt CH ₄) Table 6. Voluntary Actions Taken to Reduce Methan	Emissions calculated by equipment or event type equipment or event type ene Emissions During Reports to the Emission During Report During Reports to the Emission During Repor	Emissions calculated using flow meter ting Year Return to top ting Year Methodology used to quantil	Method	antify reductions	(details)			
Actual count of blowdowns Annual CH ₄ emissions (mt CH ₂) Table 4. Voluntary Actions Taken to Reduce Methar 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 ga to the atmosphere Number of blowdowns utilizing other emissions control technique Specify emissions control methodology Emission reductions from voluntary action (mt CH ₂) Table 5. Distribution Pipeline - Routine Maintenance Milles of distribution pipeline services Annual CH ₄ emissions (mt CH ₂) Table 6. Voluntary Actions Taken to Reduce Methar Blowdowns that routed gas to a compressor or capture system for	Emissions calculated by equipment or event type equipment or event type ene Emissions During Reports to the Emission During Report During Reports to the Emission During Repor	Emissions calculated using flow meter ting Year Return to top ting Year Methodology used to quantil	Method	nantify reductions	(details)			
Actual count of blowdowns Acrual count of blowdowns Annual CH ₄ emissions (mt CH ₂) Table 4. Voluntary Actions Taken to Reduce Methan Number of blowdowns that routed gas to: A compressor or capture system for beneficial use 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 ₂) Table 5. Distribution Pipeline - Routine Maintenance Miles of distribution pipeline services Annual CH ₄ emissions (mt CH ₂) Table 6. Voluntary Actions Taken to Reduce Methar	Emissions calculated by equipment or event type equipment or event type ene Emissions During Reports to the Emission During Report During Reports to the Emission During Repor	Emissions calculated using flow meter ting Year Return to top ting Year Methodology used to quantil	Method	antify reductions	(details)			

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

For additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "ONE Future Commitment Option Technica"

 Partner Name
 Facility Name
 Report Year

 SAMPLE PARTNER
 SAMPLE FACILITY
 20XX

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Blowdown Vent Stacks

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

Table 1. Blowdown Vent Stacks

	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 CH₄ emissions calculated by flow meter (mt CH₄)
(emissions calculated using flow meters)
Annual total CH₄ emissions calculated using the alternate calculation method (mt CH₄)

Annual CH₄ emissions (mt CH₄)

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			

Additional Information

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Based on your segment, please fill out all of the fields below. Hi	tting the tab key after data entry will automatically take you to the ne	xt data-entry field.	0		
For additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "ONE Future Commitment Option Technic					
Partner Name SAMPLE PARTNER	Facility Name SAMPLE FACILITY	Report Year 20XX	Return to Table of Contents		
Combustion Units	Applicable Segments: Production, Gathering & Boosting, Dis	stribution			
	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 h capacity less than or equal to 1 mmBtu/hr	eat				
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 m Btu/hr	iilion				
Annual CH_4 emissions (mt CH_4) for internal fuel combustion unit that are not compressor-drivers, with a rated heat capacity greathan 1 million Btu/hr					
Actual count of internal fuel combustion units of any heat capac that are compressor-drivers	ity				
Annual CH ₄ emissions (mt CH ₄) for internal fuel combustion unit any heat capacity that are compressor-drivers	s of				
Table 3. Voluntary Actions Taken to Reduce Metha	ne Emissions During Reporting Year				
Mitigation actions implemented to reduce methane emission	ns				

Table /	I arne	I Inite -	External
Table 4.	Laiue	UIIILS -	External

Emission reductions from voluntary action (mt CH₄)

Actual count of external fuel combustion units with a rated heat capacity greater than 5 million Btu/hr

Annual CH₄ emissions (mt CH₃) for external fuel combustion units with a rated heat capacity greater than 5 million Btu/hr

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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 CH₂)

Additional Information

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.

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For additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "ONE Future Commitment Option Technic

Partner Name	Facility Name	Report Year	
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents

Combustion Units - Subpart C

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

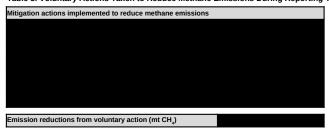
Table 1. Combustion Units- Subpart C (GHGRP)

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 monit	ored 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



Additional Information



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.

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

Partner Name	Facility Name	Report Year	
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents

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



Table 2. Centrifugal Compressors - Other Segments

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	Compressors reported to	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, solation valves, or blowdown valves		
Number of compressors with wet seals, isolation valves, or plowdown 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 plowdown 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, emissions using the alternate calculation method (mt CH,)

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

Centrifugal compressors with dry seals - number of compressors eported 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	
Annual CH4 Emissions vented to atmosphere (mt CH4) - Calculated using alternate method for dry seals	

Use only one method to calculate emissions from compressors with dry seals

Total Annual CH₄ emissions (mt CH₄)

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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		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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Based on your segment, please fill out all of the fields below. Hitting to	the tab key after data entry will auto	omatically take you to the next data-e	entry field.	0		
For additional information about the data being requested, and for ful	ther detail on quantification method	dologies, please refer to the "ONE F	uture Commitment Option	Technic:	r	
Partner Name SAMPLE PARTNER	Facility Name SAMPLE FACILITY		Report Year 20XX	Return to Table	e of Contents	
Reciprocating Compressors	Applicable Segments: Production	n, Gathering and Boosting, Process	ing, Transmission Compre	ession, Storage, LNG Storage, LN	G Import/Export	
	Jump to:	Production or Gathering & Boostine	2	Processing, Transmission, Com	oression, Storage, LNG Storage, or LNG Imp	ort/Export
Table 1. Reciprocating Compressors - Production, Gar	thering & Boosting	_				
Number of reciprocating compressors						
Annual CH ₄ emissions (mt CH ₄)		l				
Table 2. Reciprocating Compressors - Other Segments	s		Return to top			
	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 utilizin	o the alternate calculation method)					
Annual CH, emissions using the alternate calculation method (mt CH		_				
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Total Annual CH ₄ emissions (mt CH ₄)		This cell will automatically calculate	e the total emissions, sum	ming the values in cells C23 and I	026	
Table 2 Valuntam, Actions Talent to Dadica Mathematic	Funicaione Dunine Demontino	. Vee	Date and the			
Table 3. Voluntary Actions Taken to Reduce Methane	Number of compressors	Methodology used to quantify	Return to top Methodology used to qu	uantify		
Replaced reciprocating compressor rod packing	Number of compressors	reductions (type)	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

		112830100			
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 fu	rther detail on quantification method	dologies, please refer to the "ONE Fu	uture Commitment Option	n Technic O	
Partner Name	Facility Name	F	Report Year		
SAMPLE PARTNER	SAMPLE FACILITY		20XX	Return to Table of Contents	
Compressor Starts	Applicable Segments: Production	n			
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	g Year			
Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify red	ductions (details)		
_					

Additional Information

Emission reductions from voluntary action (mt CH_a)

Based on your segment, please fill out all of the fields below. Hitting	0			
For additional information about the data being requested, and for fu	<u>chnic</u> O			
Partner Name SAMPLE PARTNER	Facility Name SAMPLE FACILITY		Report Year	Return to Table of Contents
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	- g Year		
Actions taken to minimize excavation damages/reduce methand 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				
This space provides an opportunity for reporting optional, qualitative the above data elements which communicates progress on the appli		ı		
		Ī		

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.

Eor additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "ONE Future Commitment Option Technical Document

Report Year 20XX Applicable Segments: Production, Gathering & Boosting, Processing, Transmission Compression, Storage Dehydrator Vents

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

	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_a emissions from all dehydrators that were not vented to a flare or regenerator firebox/fire tubes (mt CH_a)			

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. Table 2. Dehydrators (GHGI)

Volume of gas dehydrated (MMscI/yr) in Transmission Compression and Storage segments Arnual CH, emissions from dehydrators in Transmission Compression and Storage segments (mt CH_x)

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

		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

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.

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

Based on your segment, please fill out all of the fields below.	0			
For additional information about the data being requested, at	0			
Partner Name	Facility Name	Report Year		
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents	
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)	

Additional Information

	hardshaper release rates in the YOM	E Dates Commitment Online	Technical Document' found (
For additional information about the data being requested, and for further detail on quantification met Pariner Name EAMPLE PARTMER			Technical Document" found: Seport Year 20XX	Seture to Table of Contents
Equipment Leaks			ocessing, Transmission Compression, Storage, LNG Sto	
Jump	to: Major Equipment Type (Emissions Calculated for Corp.	Enteriors Calculated by PopsEmissions Calculated Units	a Malaretary Actions
Table 1. Major Equipment Type				
	Count of each major equipment type			
Natural Gas Production and Gathering and Boosting Equipment Welkead				
Geparators Meteroloping				
Compressors to-line heaters				
Debydrators.				
Table 2. Emissions Calculated for Component Types Using Emissions Factors			Return to top	
	Number of each surveyed component type identified as leaking (data reported to Cabour IM	Annual CH ₁ emissions (mt CH ₂)	dumber of each surveyed component type identified is leading (data not sported to Subpart W) sported to Subpart W)	
Production and Gathering & Boosting - Gas Service	Subpart W)	(cura reported to suspain W)	operied to Subpart W) reported to Subpart W)	4
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				Return to top
Processing - Compressor Components, Gas Service: Connector Processing - Compressor Components, Gas Service: Open-ended Line				
Processing - Compressor Components, Gas Service: Pressure Relet 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				Return to top
Transmission Compression - Compressor Components, Gas Service: Valve Transmission Compression - Compressor Components, Gas Service: Connector				Í
Transmission Congression - Congression Components, Gas Service: Open-ended Line Transmission Compression - Components Components, Gas Service: Open-ended Line Transmission Compression - Components 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				Ī
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 Institutent Transmission Compression - Non-Compressor Components, Gas Service: Other				
Storage - Storage Station, Gas Service				Return to loss
Gorage - Storage Station, Gas Service: Volve Gorage - 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				ł
Storage - Wellheads, Gas Service				
Storage - Wellheads, Gas Service: Valve Storage - Wellheads, Gas Service: Connector (other than flanges)				
Scrage - Welheads, Gas Service: Flange Scrage - Welheads, Gas Service: Open-ended Line				
Stonge - Wellheads, Gas Service: Pressure Relet Valve Stonge - Wellheads, Gas Service: Other				
LNG Storage - LNG Storage, LNG Service LNG Storage - LNG Storage, LNG Service: Valve				Return to tag
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, Gast Service: Open-Ended Line LNG Storage - LNG Storage, Gast 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				Return to top
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: Valve LNG Import and Export Equipment - LNG Terminal, Gas Service: Connector LNG Import and Export Equipment - LNG Terminal, Gas Service: Open-ended Line				
Unit Import and Export Equipment - UNIT Terminal, Gas Service: Pressure Rolled Value UNIT Import and Export Equipment - UNIT Terminal, Gas Service: Pressure UNIT Import and Export Equipment - UNIT Terminal, Gas Service: Meter and Instrument				
LNG Import and Export Equipment - LNG Terminal, Gas Service: Other				
Table 3. Emissions Calculated Using Population Counts			Baltum to top	
	Count of each emission source type	Annual CH, emissions (mt CH)		
Production and Gathering & Boosting Production and Gathering & Boostine Values			TO TORINGTONIA	
Production and Gathering & Bloosling: Valves Production and Gathering & Bloosling: Connectors Production and Gathering & Bloosling: Connectors			98.236(()(1)(I)	
Production and Gathering & Boosting: Pressure relief valves				
Storage - Storage Wellheads, Gas Service Storage - Storage Wellheads, Gas Service: Valves				
Storage - Storage Welheads, Gas Service: Connector Storage - Storage Welheads, Gas Service: Open-ended Inn				
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				
Table 4. Emissions Calculated Using Alternate Calculation Method			Return to top	
Actual count of facilities utilizing the alternate calculation method Annual CH4 emissions using the alternate calculation method (mt CH)				
Table 5. Voluntary Actions Taken to Reduce Methane Emissions During Reporting	Year		Beturn to top	
Table 5. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Magaziton actions implemented to reduce methans enlastions	Year		Return to log	
	Year		Baltum to non	
	Year		Galleum no Jose	
	Year		Benken do loca	

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	e tab key after data entry will automatically take you to the next data-entry field. ser detail on quantification methodologies, please refer to the "ONE Future Commitment	Oppose Technical Document:
		XXX Between to Table of Comtents
Equipment Leaks - Distribution	Applicable Segments: Distribution	dering-equiating Below grade methring-equiating
запр и звинегуре.	MACES QUINTE 154 MINIME. CASCES QUINTE.	THE PROPERTY OF THE PROPERTY O
Table 1. Equipment Leaks - Above Grade Transmission Does the facility perform equipment leak surveys across a multiple year leak survey cycle and court of beau early T. I transfer stations.	-Distribution (T-D) Transfer Stations	
Does the facility perform equipment lauk surveys across a multiple gast last survey cycle. Act all court of above grade T-D transfer stations. Act all court of above grade T-D transfer stations for the station facilities. Number of above grade T-D transfer stations surveyed in the catendar year or surveyed in the current lask survey; cold transfer of above grade T-D transfer stations surveyed in the catendar year or surveyed in the current lask survey; cold transfer of motive grade T-D transfer stations purposed in the catendar year of surveyed in the current lask survey.		
Number of above grade 1-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		
purveyed if the calendar year of 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		
in hours Annual CH, emissions (mt CH,)		
	missions During Reporting Year - Above Grade Transmission-Distrib	ution Transfer Stations
Mitigation actions implemented to reduce methane emissions		
Emission reductions from voluntary action (mt CH _e)		
Table 3. Equipment Leaks - Below Grade Transmission	Distribution (T-D) Transfer Stations	a to top
	Average estimated time that the emission source type was Annual CH ₄ en	issions
	Average estimated time that the emission source type was pransfer stations (hours) Average estimated time that the emission source type was pransfer stations (mt CH ₂ en (mt CH ₂))	
Below grade T-D transfer stations (gas service, inlet pressure > 300 psig) Below grade T-D transfer stations (gas service inlet pressure 100 .		
Below grade T-D transfer stations (gas service, inlet pressure 100 - 000 psig) Below grade T-D transfer stations (gas service, inlet pressure < 100 psig)		
Table 4. Voluntary Actions Taken to Reduce Methane E Missgation actions implemented to reduce methane emissions	missions During Reporting Year - Below Grade Transmission-Distrib Methodology used to quantify eductions (type) Methodology used to quantify reductions (detail	
	(V)-V	
Emission reductions from voluntary action (mt CH _a)		
Table 5. Equipment Leaks - Above Grade Metering-Reg Actual count of above grade metering-regulating stations that are not T-D transfer stations	ulating (M&R) Stations	n to 500
Actual count of meter/regulator runs at above grade metering- regulating stations that are not above grade T-D transfer station facilities		
facilities Average estimated time that each meteriregulator run at above grade metering-regulating stations, that are not above grade T-D transfer stations, was operational in the calendar year (hours)		
ransfer stations, was operational in the calendar year (hours) Annual CH, emissions (mt CH,)		
Table 6. Voluntary Actions Taken to Reduce Methane B	missions During Reporting Year - Above Grade Metering-Regulating	Stations
Mitigation actions implemented to reduce methane emissions	Methodology used to quantify eductions (type) Methodology used to quantify reductions (detail	(5)
Emission reductions from voluntary action (mt CH _a)		
Table 7. Equipment Leaks - Below Grade Metering-Reg	alating (M&R) Stations Return	1.10.100
	Average estimated time that the emission source type was operational in the calendar year (Incurs)	issions
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)		
	missions During Reporting Year - Below Grade Metering-Regulating	
Mitigation actions implemented to reduce methane emissions	Methodology used to quantify eductions (type) Methodology used to quantify reductions (detail	s)
Emission reductions from voluntary action (mt CH ₂)		
Emission reductions from voluntary action (mt CH) Additional Information	formation that was not covered in	
·	formation that was not covered in the commitment.	

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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.

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

 Partner Name
 Facility Name
 Report Year

 SAMPLE PARTNER
 SAMPLE FACILITY
 20XX

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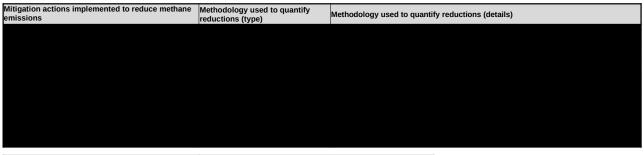
Equipment Leaks

Applicable Segments: Gathering & Boosting, Transmission Pipeline

Table 1. Leaks - Gathering and Transmission Pipelines

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



Emission reductions from voluntary action (mt CH_a)

Additional Information

Based on your segment, please fill out all of the	ne fields below. Hitting the tab key after data entry will automatically tal	ke you to the next data-entry field.	O		
For additional information about the data being	g requested, and for further detail on quantification methodologies, ple	ase refer to the "ONE Future Commitment Option Technic	0		
Partner Name	Facility Name	Report Year			
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents		
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	
Annual CH ₄ emissions (mt CH ₄)	

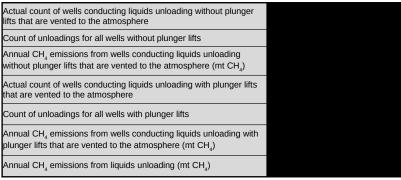
Table 2. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Number of flares with all or part of gas flow routed to VRU, fuel, or other beneficial use	
Combined volume of gas routed to VRU, fuel, or other beneficial use (scf)	
Emission reductions from voluntary action (mt CH _a)	

Additional Information

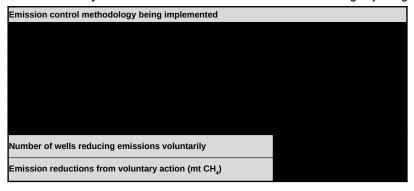
Based on your segment, please fill out all of the fields below. Hitting	0			
For additional information about the data being requested, and for for	0			
Partner Name	Facility Name	Report Year		
SAMPLE PARTNER	SAMPLE FACILITY 20XX			
Liquids Unloading	Applicable Segments: Production			

Table 1. Liquids Unloading for Wells



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



Additional Information

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artner Name	Facility Name	Report Year
AMPLE PARTNER leters	SAMPLE FACILITY Applicable Segments: Distribution	
able 1. Meters	Applicable Segments. Distribution	"
Residential Meters		1
Actual count of outdoor residential meters		
Annual CH ₄ emissions (mt CH ₄)		
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	Vear
Residential Meters	Emissions Burning Reporting	T Cui
	Methodology used to quantify	
Mitigation actions implemented to reduce methane emissions	reductions (type)	Methodology used to quantify reductions (details)
Emission reductions from voluntary action (mt CH ₄)		
Commercial/Industrial Meters	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)
Commercial/Industrial Meters	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)
Commercial/Industrial Meters		Methodology used to quantify reductions (details)
Commercial/Industrial Meters		Methodology used to quantify reductions (details)
Commercial/Industrial Meters		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 (details)
Commercial/Industrial Meters		Methodology used to quantify reductions (details)
Commercial/Industrial Meters		Methodology used to quantify reductions (details)
Commercial/Industrial Meters Mitigation actions implemented to reduce methane emissions		Methodology used to quantify reductions (details)
Commercial/Industrial Meters Mitigation actions implemented to reduce methane emissions Emission reductions from voluntary action (mt CH ₄)		Methodology used to quantify reductions (details)
Commercial/Industrial Meters	reductions (type)	

		1128	30100		
Based on your segment, please fill out all of the fields below	0				
For additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "ONE Future Commitment Option Technical Document" found on the Meth					0
Partner Name SAMPLE PARTNER	Facility Name SAMPLE FACILITY		Report Year 20XX		Return to Table of Contents
Pneumatic Devices	Applicable Segments: Production, 0	Gathering & Boosting, Processing, Transm	ssion Compression, Storage		
	Jump to:	Production, Gathering & Boosting, Trans	smission Compression, or Storage	Processing	
Table 1. Natural Gas Pneumatic Device (Contro	oller) Vents - All Segments (ex	cept 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 (Contro	oller) Vents - Processina		Return to Top		
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 M	ethane Emissions During Pen	orting Vear	Return to Top		
Number of high-bleed controllers converted to low-bleed	ethane Emissions burning Rep	orting real	ixetain to 10p		
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					

Additional Information

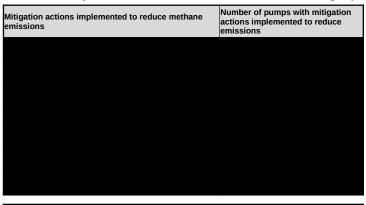
Emission reductions from voluntary action (mt CH₄)

Based on your segment, please fill out all of the fields bel	O		
For additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "ONE Future Commitment Option Technical Document"			ment O
Partner Name	Facility Name	Report Year	
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents
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



Emission reductions from voluntary action (mt CH₄)

Additional Information

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Based on your segment, please fill out all of the fields below. Hittin	ng the tab key after data entry will automatically tak	e you to the next data-entry field.
For additional information about the data being requested, and for	further detail on quantification methodologies, plea	ase refer to the "ONE Future Commitment Option Technical Document":
Partner Name	Facility Name	Report Year
SAMPLE PARTNER	SAMPLE FACILITY	20XX
Pressure Relief Valves	Applicable Segments: Production, Distribution	
Table 1. Pressure Relief Valves		
Pressure Relief Valve Releases		
Actual count of PRVs (production)		Per Annex Table 3.6-1 in the GHGI, Pressure Relief Valve releases are
Miles of main (distribution)		categorized as Upsets for the Production segment and Routine Maintenance for the Distribution segment.
Annual CH, emissions (mt CH,)		
Mitigation actions implemented to reduce methane emissions	(type)	Methodology used to quantify reductions (details)
Emission reductions from voluntary action (mt CH,)		
Emission reductions from voluntary action (int Cit ₄)		
Additional Information		
This space provides an opportunity for reporting optional, qualitative elements which communicates progress on the applicable committee.		ta

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Basea on vour seament.	piease tili out all of the fields below.	Hitting the tab key after data entry v	viii automaticaliv take vou	i to tne 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 Document" (

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

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Station Venting

Applicable Segments: Storage, LNG Storage

Table 1. Station Venting (GHGI)

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)		

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

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

Jump to: Production or Gathering & Boosting Transmission Compression

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.

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For additional information about the data being requested		

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

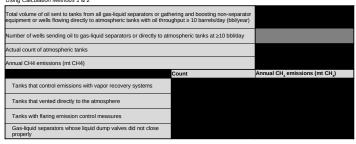
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Storage Tank Venting

Applicable Segments: Production, Gathering & Boosting, Transmission Compression

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

Using Calculation Methods 1 & 2



Using Calculation Method 3

Total annual oil/condensate throughput that is sent to all atmospheric tanks from wells, separate non-separator equipment with oil throughput <10 barrels/day (bbl/year)	ors, and
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

		•				,		•		
Actual cou	nt of flo	ating	roof	tanks						
Annual CH	, emiss	ons	(mt C	H ₄)						

Return to ton

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 th
Emission reductions from voluntary action (mt CH ₄)	

the total number of tanks routed to flare, summing the values in cells C18 and C31

Table 4. Storage Tank Vents - Transmission Compression

Annual CH, emissions (mt CH,) Count 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

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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 CH₄)

Additional Information

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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.

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urtner Name	Facility Name	refer to the "ONE Future Commitment Option Technical Document" found on the Report Year	Venting During Well Completions/Workovers with Hydraulic Fracturing Source Form Complete
MPLE PARTNER	SAMPLE FACILITY	20XX	of lell Venting During Well Completions/Workovers with Hydraulic Fracturing Source Not Applicable
	Analizable Community Conductor		Mell Venting During Well Completions/Workovers without Hydraulic Fracturing Source Form Complete
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Based on your segment, phase III out all of the fields below. Priting the tab key after data entry will automatically table you to the next data-entry field.
For additional information about the data being requested, phase refer to the "COSE Public Commitment Datas Technical Document", found on the Methanic Challenge weekley. Partner Name SAMPLE PARTNER Facility Name Report Year
SAMPLE FACILITY 2000 8

Renewable Natural Gas	Applicable Segments: Transmission Pipeline, Distribution					
Table 1. General Information	Investing in biogas projects	Directly interconnecting with	Delivering RNG to end users	h		
	Investing in biogas projects	Directly interconnecting with biogas project	Delivering RNG to end users	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						

Name the specific municipal solid waste landfill or digester from which the RNG was generated

Table 3. Information About the Pipeline Interconnect(s)

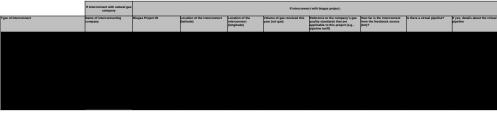


Table 4. Information about the end use(s) and environmental attributes

Table 4. Information about the end use(s) and en	vironmental attributes								
	What is the destinated market for the RNG (region/city/state/facility) [if anousi]?	What is the designated end use?	Specify "Other" and use	Volume of RNG going to this end use, this year (scf gas) [if known]	own the environmental	environmental attributes now.	one point did, own the attributes for RNC, does your supply contract for "renewable" natural gas include conveyance of	supply to another downstream entity (e.g., distributor, end consumer etc.), have you contractually conveyed the RNG environmental attributes	

What pipeline types does your company inject hydro into (material and pressure)?



Partners may provide information on technologies/practices/approach currently included in the program. This information may be provided c 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
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 methan emissions
Any other information needed to fully understand the technology/practice/approach

nes to mitigate emissions from existing emission sources in the program, or for emission sources not on 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

Report Year

Facility Name

MPLE FACILITY	PA.GOV FOR APPROVA	
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