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.

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

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 Into 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:	
Report Year	20XX		Version:	ICR RENEWAL 2021
Partner Name	SAMPLE PARTN	ER		
Facility Name	SAMPLE FACILI	γ	This is a preview	w version of the reporting form only. The Methane Challenge Reporting t accept reports submitted on this version of the reporting form. Partners
Methane Challenge Partner ID Numbe	r	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.	should always o System.	to accept reports summate on mis version or an ecopy ing form haves lownload their facility-specific reporting forms directly from the Reporting
Methane Challenge Facility ID Number	r	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	000000000	Production Gathering & Boosting Processing Transmission Compression Storage LNG Storage LNG Import/Export Transmission Pipeline Distribution		
	Reporting Year:	Pre-populated using certified Part 98 Subpart W annual report:		

Version: Date Certified:

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2060-0722). Responses to this collection of information are voluntary 42 USC 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 recordisepting burden for this collection of information is estimated to be 00 hours per response. Send comments on the Agency's need for this Environment and 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 a utomatically.

Sources
Acid Gas Removal Vents
Associated Gas Venting & Flaring
Blowdowns
Blowdown Vent Stacks
Combustion Units
Combustion Units - Subpart C
Compressors - Centrifugal
Compressors - Reciprocating
Compressor Starts
<u>Damages</u>
Dehydrator Vents
Distribution Mains & Services
Equipment Leaks
Equipment Leaks - Distribution
Equipment Leaks - Gathering and Transmission Pipelines
Flare Stacks
Liquids Unloading
<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 Docume

Partner Name	Facility Name	Report Year	
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents
Acid Gas Removal Vents	Applicable Segments: Processing		

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

Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)

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. Hitting the tab key after data entry will automatically take you to the next data-entry field.
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Partner Name	Facility Name	Report Year	
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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)

Additional Information



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ased on your segment, please fill out all of the fields below. Hitting	the tab key after data entry will aut	omatically take you to the next dat	a-entry field.		\cap
or additional information about the data being requested, and for fi	urther detail on quantification metho	dologies, please refer to the "ONE	Future Commitment Option Te	echnical Docur	ŏ
Partner Name	Facility Name		Report Year		0
AMPLE PARTNER	SAMPLE FACILITY		20XX		Return to Table of Content
Blowdowns	Applicable Segments: Production	n, Transmission Pipeline, Distribut	ion		
	Jump to	Production	Transmission Pipeline	Distribution	
Table 1. Production					
Vessel Blowdowns]			
Actual count of blowdowns (optional)					
Actual count of vessels					
Annual CH, emissions (mt CH,)					
Compressor Blowdowns	_				
Actual count of blowdowns (optional)					
Actual count of compressors					
Annual CH, emissions (mt CH,)					
Table 2. Voluntary Actions Taken to Reduce Methane		g Year			
Mitigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify i	eductions (details)		
Emission reductions from voluntary action (mt CH ₄)					
	_				
Table 3.Transmission Pipeline (Between Compressor	Stations)	Return to top			
				-	
	Emissions calculated by equipment or event type	Emissions calculated using a flow meter	Alternate Calculation Method		
	equipment or event type	now meter	Method		
Actual count of blowdowns					
Annual CH ₄ emissions (mt CH ₄)					
Table 4. Voluntary Actions Taken to Reduce Methane	Emissions During Reportin	g Year			
Number of blowdowns that routed gas to:	· · · · · · · · · · ·	ī			

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	
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

	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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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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Partner Name	Facility Name	Report Year	
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Blowdown Vent Stacks

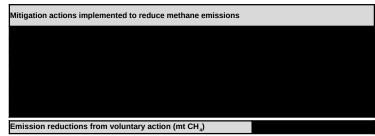
Applicable Segments: Gathering & Boosting, Processing, Transmission Compression, LNG Import/Export

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 ${\rm CH}_{\rm a}$ emissions calculated using the alternate calculation method (mt ${\rm CH}_{\rm a})$			
Annual CH_4 emissions (mt CH_4)		This cell will automatically calculate	the total emissio

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



Additional Information



Partner Name	Facility Name	Report Year		
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents	
Combustion Units	Applicable Segments: Production, Gathering & Boosting, E	Distribution		
	Jump to: Large Internal Units	Large External Units		

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	

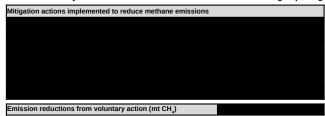
Table 3. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

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

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



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.

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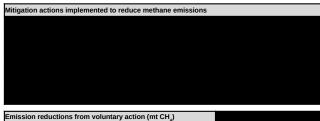
Based on your segment, please fill out all of the fields below. Hitting the tab key after data entry will automatically take you to the next data-entry field.			
Partner Name SAMPLE PARTNER	Facility Name SAMPLE FACILITY	Report Year	Return to Table of Contents
Combustion Units - Subpart C	Applicable Segments: Processing, Transmission Com	npression, Storage, LNG Storage, LNG Im	port/Export
Table 1. Combustion Units- Subpart C (GHGRP)			
Individual combustion units (98.36(b))			

nits
m all individual
)
m aggregated units
or duct that is monitored by CO2 CEMS (98.36(c)(2)
g the common stack
r all units sharing a
supply line (98.36(c)(3))
tions
all units served by

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

Combustion Units (alternate calculation method)				
Fuel type Total volume of gas consumed (mt CH, emissions (mt CH,)				

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



Additional Information





Report Year 20XX

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

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.

Facility Name

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 SAMPLE PARTNER

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Centrifugal Compressors

Jump to: Production or Gathering & Boosting

ting Processing, Transmission, Compression, Storage, LNG Storage, or LNG Import/Export

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

Return to top

	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 utilizin	g the alternate calculation method)	
Annual CH_4 emissions using the alternate calculation method (mt CH	J	

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

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

Additional Information

Partner Name	Facility Name		Report Year				
SAMPLE PARTNER	SAMPLE FACILITY		20XX	Re	turn to Table of Contents		
Reciprocating Compressors	Applicable Segments: Product	ion, Gathering and Boosting, Proces	sing, Transmission Comp	pression, Storage, LNG	Storage, LNG Import/Expo	ort	
	Jump t	o: Production or Gathering & Boostin	ĝ	Processing, Transmi	ission, Compression, Stora	age, LNG Storage, or LNG Imp	ort/Expo
Table 1. Reciprocating Compressors - Production, Ga	thering & Boosting						
Number of reciprocating compressors							
Annual CH, emissions (mt CH,)							
Table 2. Reciprocating Compressors - Other Segment	ts		Return to top				
Table 2. Reciprocating Compressors - Other Segment	ts Compressors reported to Subpart W	Compressors not reported to Subpart W (reporting of detailed activity data is optional)	Return to top				
	Compressors reported to	Subpart W (reporting of detailed	Return to top				
Number of reciprocating compressors Number of compressors with rod packing emissions vented to the atmosphere	Compressors reported to	Subpart W (reporting of detailed	Return to top				
Number of reciprocating compressors Number of compressors with rod packing emissions vented to the atmosphere Number of manifolded groups of compressor sources: isolation	Compressors reported to	Subpart W (reporting of detailed	Return to top				
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,	Compressors reported to	Subpart W (reporting of detailed	Return to top				
Number of reciprocating compressors	Compressors reported to	Subpart W (reporting of detailed	Return to top				
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 (tuel or thermal oxidizer), or vapor recovery Number of compressors routing blowdown valve leakage to flares,	Compressors reported to	Subpart W (reporting of detailed	Return to top				

Annual $\mathsf{CH}_{\!_4}$ emissions using the alternate calculation method (mt $\mathsf{CH}_{\!_4})$

Total Annual CH₄ emissions (mt CH₄)

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

Table 3. Voluntary Actions Taken to Reduce Methane	Table 3. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year		
	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 CH₄)

Additional Information



Based on your segment, please fill out all of the fields below. Hitting t	d 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.			
additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "ONE Future Commitment Option Technic			0	
	Facility Name SAMPLE FACILITY	Report Year 20XX	Return to Table of Contents	
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,)

Additional Information



Based on your segment, please fill out all of the fields below. Hitting t	ed 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.			
or additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "ONE Future Commitment Option Technic			0	
	Facility Name SAMPLE FACILITY	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 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





Table 1. Dehydrators (GHGRP; alternate calculation r	nethod for Transmission Co	ompression and Storage seg	gments)	
	Small glycol dehydrators	Large glycol dehydrators	Desiccant dehydrators	This table can be filled out opti
For Calculation Method 1 and Calculation Method 2, actual count of glycol dehydrators				Subpart W - Calculation Metho Subpart W - Calculation Metho
For Calculation Method 3, actual count of desiccant dehydrators				Subpart W - Calculation Metho
Count of dehydrators venting to a flare or regenerator firebox/fire ubes				
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_{q} emissions from all dehydrators that were not vented to a flare or regenerator firebox/fire tubes (mt CH_{q})	a			
Table 2. Dehydrators (GHGI)	If data are provided in the Table 1 does not need to complete the GI	t above for Transmission Compress HGI methodology table.	sion or Storage facilities, the facility	
Volume of gas dehydrated (MMscf/yr) in Transmission Compression and Storage segments	n			
Annual CH_{g} emissions from dehydrators in Transmission Compression and Storage segments (mt CH_{g})				
Table 3. Voluntary Actions Taken to Reduce Methane	Emissions During Reportin	ng Year		
	Count	Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)	
Dehydrators routed to Vapor Recovery Units				
Dehydrators routed to Vapor Recovery Units Dehydrators routed to Flare or Regenerator Firebox/Fire Tubes Dehydrators utilizing other emissions control technique				
Dehydrators routed to Flare or Regenerator Firebox/Fire Tubes				

ly for Transmission Compression or Storage facilities if data are available. using computer modeling for glycol dehydrators using EFs and population counts for glycol dehydrators using engineering calculations for desiccant dehydrators

Additional Information

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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.			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 D			0	
	Facility Name Report Year SAMPLE FACILITY 20XX		Return to Table of Contents	
	Applicable Segments: Distributio	n	2000	
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				

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

I	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 $CH_{\!_4}\!)$	
I	SERVICES	
I		
	Actual count of cast iron services replaced with plastic, protected steel, copper, or rehabilitated with plastic pipe inserts	

Additional Information







Table 1. Major Equipment Type



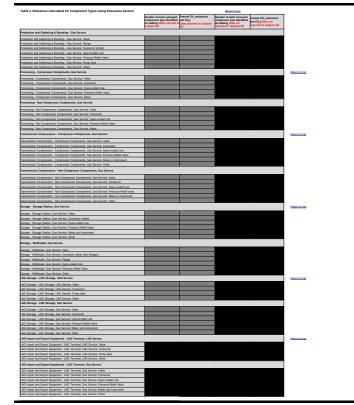


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Table & Exclusions Calculated Using Jikewan Calculation Nathod Based and Annual Section of Indiane adults for administ calculate method total Calculated administ calculated method (In Col.) Table & Calculated administration of the Col.)

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

 Bitter to tree
 Bitter to tree

 Mitigation actions implemented to reduce methane emissions
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dditional Information	
his space provides an opportunity for reporting optional, qualitative information that was not covered in e above data elements which communicates progress on the applicable commitment.	

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

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

actities 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)





ted to reduce methane emissions Methodology used to quantify reductions (type) Methodology used to quantify reduce Mitigation actions impl ions (details)

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

Actual Count of below grade T-D emission source type was transfer stations (mt CH.) emissions (mt CH.) (mt CH.) (mt CH.) 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)

Emission reductions from voluntary action (mt CH_a) Table 3. Equipment Leaks - Below Grade Transmission-Distribution (T-D) Transfer Stations Return to top

Table 1. Equipment Leads - Above Grade Transmission-Distribution (1-0) Transfer Stations
Does in table particular equipment table structure actions a maintee
and table structure actions and table st Table 2. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Above Grade Transmission-Distribution Transfer Stations litigation actions imple ented to reduce methane emissions

Equipment Leaks - Distribution Applicable Segments: Distribution Applicable Segments: Distribution Segments: Distr

0 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.
 Partner Name
 Report Year

 SAMPLE PARTNER
 SAMPLE FACILITY
 20XX

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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	
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		·	

Equipment Leaks

Applicable Segments: Gathering & Boosting, Transmission Pipeline

Table 1. Leaks - Gathering and Transmission Pipelines

Pipeline type	Total miles of nineline 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 CH₄)

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.					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				ion Technic	0	
Partner Name	Facility Name	R	eport 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 ₄)	

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.			0	0	
For additional information about the data being requested, and for fu	urther detail on quantification method	lologies, please refer to the "ONE Future Commitment Option Tech			
Partner Name	Facility Name	Report Year			
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents		
Liquids Unloading	Applicable Segments: Production	1			
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_a emissions from wells conducting liquids unloading without plunger lifts that are vented to the atmosphere (mt CH_a)					
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



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

	Commercial/Industrial Meters
Annual CH_4 emissions (mt CH_4)	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 CH₄)

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 CLL)					

Emission reductions from voluntary action (mt CH_4)

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.				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 Facility Name Report Year SAMPLE PARTNER SAMPLE FACILITY 20XX				Return to Table of Contents	
Pneumatic Devices	Applicable Segments: Production, Gathering & Boosting, Processing, Transmission Compression, Storage				
	Jump to:	Production, Gathering & Boosting, Trans	mission 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

Controller type	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

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

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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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.			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"		ment O	
Partner Name	Facility Name	Report Year	
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents

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



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	Return to Table of Contents

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 ar
Miles of main (distribution)	categorized as Upsets for the Production segment and Routine Maintenance for the Distribution segment.
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_{a})

Additional Information



0

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

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" f. 🔿

Applicable Segments: Storage, LNG Storage

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

Station Venting

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)		

Table 2. Station Venting (alternate calculation method)

	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_a emissions calculated by flow meter (mt CH_a) (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_)

Additional Information

Jump to: Production or Gathering & Boosting Transmission Compression

Based on your segment, please fill out all of the fields below. Hittin	0		
Eor additional information about the data being requested, and for	0		
Partner Name			
	Facility Name	Report Year 20XX	D
SAMPLE PARTNER	Return to Table of Contents		

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 (bbi/year)						
Number of wells sending oil to gas-liquid separators or directly to atn	nospheric 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 non-separator equipment with oil throughput <10 barrels/day (bbl/yea		
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 CH4 emissions (mt CH4)
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 count of floating roof tanks	Return to top
Annual CH4 emissions (mt CH4)	
	-

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 CH₄)

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. Return to top

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Partner Name	Facility Name	Report Year	Venting During Well Completions/Workovers with Hydraulic Fracturing Source Form Complete
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Well Drilling, Testing, and Completions	Applicable Segments: Production		Nell Venting During Well Completions/Workovers without Hydraulic Fracturing Source Form Complete
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			O ^{well} Testing Venting and Flaring Source Not Applicable
			O
Table 1. Well Drilling			Return to Table of Contents
Actual count of wells drilled			
Annual CH ₄ emissions (mt CH ₂)			
Table 2. Voluntary Actions Taken to Reduce Methan	e Emissions During Reporting Year - Well D	rilling	
Mitigation actions implemented to reduce methane emissions			
Emission reductions from voluntary action (mt CHa)			-
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Table 3. Well Venting During Well Completions/Wor	kovers, with Hydraulic Fracturing	Return to Top	
Well Venting During Well Completions, with Hydraulic Fracturi		LOUGHT IN LUCK	
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 _e emissions (mt CH _e)			
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 _a emissions (mt CH _a)			
Table 4. Voluntary Actions Taken to Reduce Methan	e Emissions During Reporting Year - Well V	enting During Well Completions/Workovers, with Hydraulic F	racturing
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dditional Information	
is space provides an opportunity for reporting optional, qual	litative information that was not covered in the above data elements.
Iditional information on the role(s) your company ays in the RNG process or 'green gas' offerings	
lditional information on the biogas project(s)/ grading process(es)	
tiditional information on the interconnect process	
iditional information on the end use(s)	
Iditional information about environmental attributes	

Table 5. Information about the Partner's strategy	for suppry 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 cortain year; covert vehicle facts to run on natural gas and use RNG for fuely, if applicable	
ts 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/nuclearistc.)	
s any upgrading/cleaning of the hydrogen required before injection?	
What pipeline types does your company inject hydrogen into (material and pressure)?	
Nave you done any related customer engagement?	
Mas anything been done to customer appliances (if yes, what)?	

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

	What is the designated end use?	 to this end use, this	own the environmental	who does? (If known)	one point did, own the attributes for RNC, does your supply contract for "renewable" natural gas include convexance of	"renewable" natural gas supply to another downstream entity (e.g., distributor, end consumer etc.), have you contractually conveyed the RNG enviconmental attributes	Is your company using a third party provide to centify or track attributes? If so, which one(s)?
						I	

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

	If interconnect with natural gas company	If interconnect with biogas project:							
Type of interconnect	Name of interconnecting company	gia Project D Location of the interconnect Location of the protocol of the interconnect Location of the							

Table 3. Information About the Pipeline Interconnect(s)



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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

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

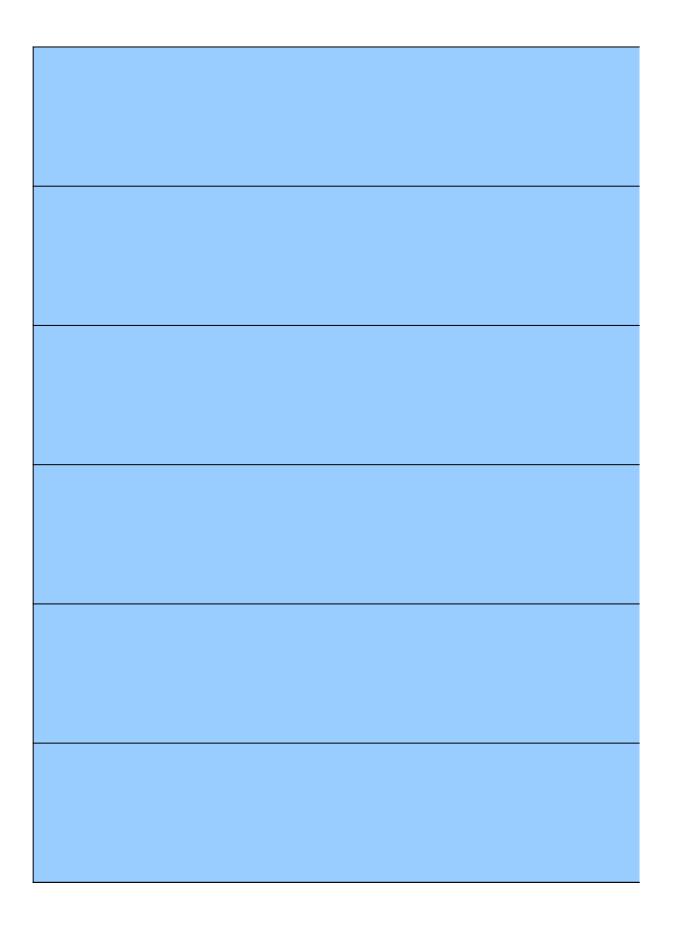
nes to mitigate emissions from existing emission sources in the program, or for emission sources not on this form, or as a standalone Word document/PDF. If using a Microsoft Word document or PDF,

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

Facility Name	Report Year
SAMPLE FACILITY	20XX

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3 MECHANISM, PLEASE EMAIL GASSTAR@EPA.GOV FOR APPROVAL OF TH





O to report this information

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