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.

Report Year	20XX		Last Updated: Version:	3/31/2021 ICR RENEWAL 2021
Partner Name	SAMPLE PARTN	ER	1	
Facility Name	SAMPLE FACILI	TY		w version of the reporting form only. The Methane Challenge Reporting
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.	System will no should always o System.	at accept reports submitted on this version of the reporting form. Partners download 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 m e-GGRT.		
Industry Segment	00000000	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:		

Reporting Year 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

Table of Contents

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.

Ο

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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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	Return to Table of Contents

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



dditional information about the data being requested, and	u loi luinei delan on quantification metric					
rtner Name	Facility Name		Report Year			
AMPLE PARTNER	SAMPLE FACILITY		20XX		Return to Table of Contents	
Blowdowns	Applicable Segments: Production	on, Transmission Pipeline, Dis	tribution			
	Jump te	o: <u>Production</u>	Transmission Pipeline	Distribution		
Table 1. Production						
/essel Blowdowns						
Actual count of blowdowns (optional)						
Actual count of vessels						
Annual CH, emissions (mt CH,)						
Compressor Blowdowns						
Actual count of blowdowns (optional)						
cctual count of compressors	• 1					
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Met l	Mothodology used to guantify		tify reductions (details)			
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Met l	• 1		tify reductions (details)			
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Metl	• 1		tify reductions (details)			
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Met l	• 1		tify reductions (details)			
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Met l	• 1		tify reductions (details)			
Actual count of biowdowns (optional) Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Metl Mitigation actions implemented to reduce methane emissi Emission reductions from voluntary action (mt CH,)	• 1		tify reductions (details)			
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Metl Mitigation actions implemented to reduce methane emissi	• 1		tify reductions (details)			
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Meth Mitigation actions implemented to reduce methane emissi Mitigation actions from voluntary action (mt CH,)	Methodology used to quantify reductions (type)	Methodology used to quar	ttify reductions (details)			
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Metl Mitigation actions implemented to reduce methane emissi	Methodology used to quantify reductions (type)		tify reductions (details)			
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Meth Mitigation actions implemented to reduce methane emissi Mitigation actions from voluntary action (mt CH,)	Methodology used to quantify reductions (type)	Methodology used to quar				
Actual count of compressors Annual CH, emissions (mt CH,) Table 2. Voluntary Actions Taken to Reduce Meth Mitigation actions implemented to reduce methane emissi Mitigation actions from voluntary action (mt CH,)	Methodology used to quantify reductions (type) essor Stations) Emissions calculated by	Methodology used to quar <u>Return to top</u> Emissions calculated usir	g a Alternate Calculation			

	A compressor or capture system for beneficial use	
	A flare	
	A low-pressure system	
	of hot taps utilized that avoided the need to blowdown gas mosphere	
Number	of blowdowns utilizing other emissions control technique	
	Specify emissions control methodology	
Emissio	n reductions from voluntary action (mt CH,)	

Miles of distribution pipeline mains
Miles of distribution pipeline services
Annual CH, emissions (mt CH,)

Return to top

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 CH4)		

Additional Information

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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

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

Blowdown Vent Stacks

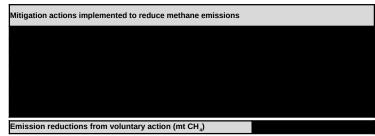
Applicable Segments: Gathering & Boosting, Processing, Transmission Compression, LNG Import/Export

Table 1. Blowdown Vent Stacks

	Actual count of blowdowns by	Annual CH ₄ emissions by	
	equipment or event type	equipment or event type (mt CH₄)	
Facility piping			
Pipeline venting			
Compressors			
Scrubbers/strainers			
Pig launchers and receivers			
Emergency shutdowns			
All other equipment with a physical volume greater than or equal 50 cubic feet			
Annual total CH_4 emissions calculated by flow meter (mt CH_4) (emissions calculated using flow meters)			
Annual total CH_{4} emissions calculated using the alternate calculation method (mt $\mathrm{CH}_{4})$			
Annual CH_4 emissions (mt CH_4)		This cell will automatically calculate	the total emissions

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



Based on your segment, please fill out all of th	e fields below. Hitting the tab key after data entry will automatically take you to the new	t 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	Technik 🔘
Partner Name	Facility Name	Report Year	
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents
Combustion Units	Applicable Segments: Production, Gathering & Boosting, Dist	ribution	
	Jump to: Large Internal Units	Large External Units	
Table 1. Small Units			

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

Table 2. Large Units - Internal

Actual count of internal fuel combustion units that are not compressor-drivers, with a rated heat capacity greater than 1 million Btu/hr	
Annual CH ₄ emissions (mt CH ₄) for internal fuel combustion units that are not compressor-drivers, with a rated heat capacity greater than 1 million Btu/hr	
Actual count of internal fuel combustion units of any heat capacity that are compressor-drivers	
Annual CH_4 emissions (mt CH_4) for internal fuel combustion units of any heat capacity that are compressor-drivers	

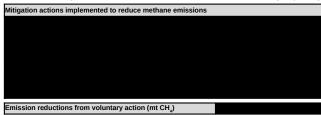
Table 3. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year

Ν	Aitigation actions implemented to reduce methane emissions
1	
Ē	mission reductions from voluntary action (mt CH ₄)
- 54	

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.

Return to top

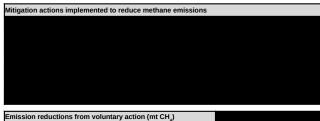
Based on your segment, please fill out all of the fields below. Hitt	ng the tab key after data entry will automatically take you t	o the next data-entry field.	0
For additional information about the data being requested, and for	r further detail on quantification methodologies, please refe	er to the "ONE Future Commitment Optic	ion Technik
Partner Name	Facility Name	Report Year	
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents
Combustion Units - Subpart C	Applicable Segments: Processing, Transmission Cor	npression, Storage, LNG Storage, LNG	Import/Export
Table 1. Combustion Units- Subpart C (GHGRP)			

Total number of individual combustion units	
Total annual CH ₄ emissions (mt CH ₄) from all individual combustion units	
gation of combustion units (98.36(c)(1))	
Total number of aggregated groups	
Total annual CH, emissions (mt CH,) from aggregated	units
Total annual On ₄ emissions (mc On ₄) from aggregated	
ustion units sharing a common stack or duct that is a Total number of combustion units sharing the common	monitored by CO2 CEMS (98.36
ustion units sharing a common stack or duct that is i	monitored by CO2 CEMS (98.36
ustion units sharing a common stack or duct that is in Total number of combustion units sharing the common or duct Total annual CH ₄ emissions (mt CH ₄) for all units sharing	monitored by CO2 CEMS (98.36 stack Ig a
ustion units sharing a common stack or duct that is a Total number of combustion units sharing the common or duct Total annual CH ₄ emissions (mt CH ₄) for all units sharin common stack or duct	monitored by CO2 CEMS (98.36 stack Ig a

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

Combustion Units (alternate calculation method)			
Fuel type	Total volume of gas consumed	Total annual CH₄ emissions (mt CH₄)	

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



Additional Information





Report Year 20XX

Return to top

Based on your seament.	please fill out all of the fields below.	Hitting the tab key after data ent	try will automatically take you to the next data-entry field	1.

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

Return to Table of Contents

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Centrifugal Compressors

Jump to: Production or Gathering & Boosting

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

Table 1. Centrifugal Compressors - Production, Gathering & Boosting

Table 2. Centrifugal Compressors - Other Segments

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)	

	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 utilizir	o the alternate calculation method)	
Annual CH_4 emissions using the alternate calculation method (mt CH	· ,	

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 meinoù to calculate emissions nom 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

Return to top

		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

		tomatically take you to the next data-entry	field.	0
For additional information about the data being requested, and for	or further detail on quantification meth	nodologies, please refer to the "ONE Future	e Commitment Optic	n Technica O
Partner Name	Facility Name	Rep	ort Year	
SAMPLE PARTNER	SAMPLE FACILITY		20XX	Return to Table of Contents
Reciprocating Compressors	Applicable Segments: Produc	tion, Gathering and Boosting, Processing,	Transmission Comp	ression, Storage, LNG Storage, LNG Import/Export
	Jump	to: Production or Gathering & Boosting		Processing, Transmission, Compression, Storage, LNG Storage, or LNG Import/Export
Table 1. Reciprocating Compressors - Production,	Gathering & Boosting			
Number of reciprocating compressors				
Annual CH, emissions (mt CH,)				
ių v ių.				
Table 2. Reciprocating Compressors - Other Segm			Deturn to to a	
Table 2. Reciprocating Compressors - Other Segm	ents		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		Subpart W (reporting of detailed		
Number of compressors with rod packing emissions vented to the	Subpart W	Subpart W (reporting of detailed		
Number of reciprocating compressors Number of compressors with rod packing emissions vented to th atmosphere Number of manifolded groups of compressor sources: isolation valves, blowdown valves, and rod packing	Subpart W	Subpart W (reporting of detailed		
Number of compressors with rod packing emissions vented to th atmosphere Number of manifolded groups of compressor sources: isolation	Subpart W	Subpart W (reporting of detailed		
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	Subpart W e	Subpart W (reporting of detailed		
Number of compressors with rod packing emissions vented to th 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 flare	Subpart W e	Subpart W (reporting of detailed		

Annual CH₄ emissions vented to the atmosphere from isolation valves, blowdown valves, and rod packing (including estimated fraction of CH₄ from manifolded compressor sources) (mt CH₂) Number of compressors not reported to Subpart W (i.e., those utilizing the alternate calculation method) Annual CH₄ emissions using the alternate calculation method (mt CH₂) Total Annual CH₄ emissions (mt CH₂) Total Annual CH₄ emissions (mt CH₂)

Table 3. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year Return to top			
	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	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 fu	rther detail on quantification methodologies, please refer to the "ONE F	Euture 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	he 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 fur	ther detail on quantification methodologies, please refer to the "ONE F	-uture Commitment Option Technic	0
	Facility Name SAMPLE FACILITY	Report Year 20XX	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_{a} emissions (mt CH_{a})	

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





	Small glycol dehydrators	Large glycol dehydrators	Desiccant dehydrators
For Calculation Method 1 and Calculation Method 2, actual count of glycol dehydrators			
For Calculation Method 3, actual count of desiccant dehydrators			
Count of dehydrators venting to a flare or regenerator firebox/fire tubes			
Count of dehydrators at the facility that vented to a vapor recovery device			
Annual CH ₄ emissions from dehydrators venting to a flare or regenerator firebox/fire tubes (mt CH ₄)			
Annual CH ₄ emissions from all dehydrators that were not vented to a lare or regenerator firebox/fire tubes (mt CH ₄)	a		
Table 2. Dehydrators (GHGI)	If data are provided in the Table 2 does not need to complete the Gi	1 above for Transmission Compress HGI methodology table.	sion or Storage facilities, the facili
Volume of gas dehydrated (MMscf/yr) in Transmission Compression	1		
and Storage segments			
and Storage segments Annual CH, emissions from dehydrators in Transmission Compression and Storage segments (mt CH,)			
Annual CH ₄ emissions from dehydrators in Transmission Compression and Storage segments (mt CH ₄)		ng Year	
Annual CH ₄ emissions from dehydrators in Transmission Compression and Storage segments (mt CH ₄)		ng Year Methodology used to quantify reductions (type)	Methodology used to quantify reductions (details)
Annual CH, emissions from dehydrators in Transmission Compression and Storage segments (m CH,) Table 3. Voluntary Actions Taken to Reduce Methane	e Emissions During Reportir	Methodology used to quantify	Methodology used to quantify reductions (details)
Annual CH, emissions from dehydrators in Transmission	e Emissions During Reportir	Methodology used to quantify	Methodology used to quantify reductions (details)
Arnual CH, emissions from dehydrators in Transmission Compression and Storage segments (mt CH,) Table 3. Voluntary Actions Taken to Reduce Methane Dehydrators routed to Vapor Recovery Units	e Emissions During Reportir	Methodology used to quantify	Methodology used to quantify reductions (details)

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

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	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 fu	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 PARTNER	SAMPLE FACILITY		20XX	Return to Table of Contents
Distribution Mains & Services	Applicable Segments: Distribution	1		
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)]	

Table 2. Distribution Services	i otai munibei	
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		
	nains replaced with plastic, protected steel, or lastic pipe inserts or cured-in-place liners	
	ed steel mains cathodically protected, replaced ected steel, or rehabilitated with pipe inserts or rs	
Emission reduction	ns from voluntary action for mains (mt CH_4)	
SERVICES		
	st iron services replaced with plastic, protected shabilitated with plastic pipe inserts	
steel, copper, or re Actual count of un	habilitated with plastic pipe inserts protected steel services cathodically protected otected steel, plastic, copper, or rehabilitated	

Additional Information





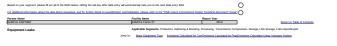


Table 1. Major Equipment Type



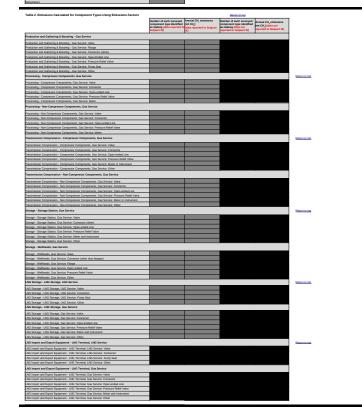


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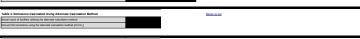


Table 5. Voluntary Actions Taken to Reduce Methane Errissions During Reporting Year

 Bitter to tree
 Bitter to tree

 Mitigation actions implemented to reduce methane emissions
 Bitter to tree



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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.	

ligation 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)

Return to top

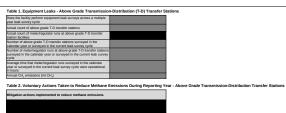
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00 psig)			
able 4. Voluntary Actions Taken to Reduce Methane	Emissions During Reporting Y	ear - Below Grade Transmis	sion-Distribution Transfer Sta
litigation actions implemented to reduce methane emissions	Methodology used to quantify reductions (type)	Methodology used to quantify re-	ductions (details)

-rade T-D transfer stations (gas service, inlet pressure <

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



 Partner Name
 Report Year

 SAMPLE PARTNER
 SAMPLE FACILITY
 20XX
 Equipment Leaks - Distribution Applicable Segments: Distribution Jump to station-type: Above grade T-D transfer Below grade T-D transfer Below grade T-D transfer

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.

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Return to Table of Contents

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

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

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



Based on your segment, please fill out all of the fields below. Hitting	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			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 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 Technic			0	
Partner Name	Facility Name	Report Year		
SAMPLE PARTNER	SAMPLE FACILITY	20XX	Return to Table of Contents	
Liquids Unloading	Applicable Segments: Production			
Table 1. Liquids Unloading for Wells				
Actual count of wells conducting liquids unloading without plunger lifts that are vented to the atmosphere				
Count of unloadings for all wells without plunger lifts				
Annual CH_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_a emissions from wells conducting liquids unloading with plunger lifts that are vented to the atmosphere (mt CH_a)				
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_a)	

Additional Information



Based on your segment, please fill out all of the fields below. Hittin	ata-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 Techr.			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)	

Actual count of commercial/industrial meters Annual CH ₄ emissions (mt CH ₄)	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, Gath	nering & Boosting, Transmission Compression, or Storage	Processing	

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

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 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.



Return to Top

Return to Top

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			0
Partner Name SAMPLE PARTNER	Facility Name SAMPLE FACILITY	Report Year 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_a emissions (mt CH_a)	

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.

Ο

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 are
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



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" t

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_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.

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

Ο

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	re Commitment Option Technical D	0					
Partner Name SAMPLE PARTNER							
Storage Tank Venting	Applicable Segments: Production, Gathering & Boosting, Transmission Compression						
	Jump to: Production or Gathering & Boosting	Transmission Compression					

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

Using Calculation Methods 1 & 2		
Total volume of oil sent to tanks from all gas-liquid separators or gath equipment or wells flowing directly to atmospheric tanks with oil throu		
Number of wells sending oil to gas-liquid separators or directly to atm	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 CH ₄ emissions (mt CH ₄)	

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

Number of tanks routed to VRU or beneficial use	
Number of tanks routed to flare	This cell will automatically calculate the total number of tanks routed to flare, summing the values in cells C18 and C31
Emission reductions from voluntary action (mt CH_{4})	

Table 4. Storage Tank Vents - Transmission Compression

Return to top

	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

147205300 ell Drilling Source Form Complete 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. Exe additional information about the data being requested, and for further detail on quantification methodologies, please refer to the "DNE Future Commitment Dation Technical Document" found on the Meth Report Year 20XX O I Venting During Well Completions/Workovers with Hydraulic Fracturing Source Form Complete Facility Name SAMPLE PARTNER SAMPLE FACILITY O /ell Venting During Well Completions/Workovers with Hydraulic Fracturing Source Not Applicable Applicable Segments: Production Nell Venting During Well Completions/Workovers without Hydraulic Fracturing Source Form Complete Well Drilling, Testing, and Completions Well Venting During Well Completions/Workovers without Hydraulic Fracturing Source Not Applicable Jump to: Well Drilling Completions/Workovers with HydraCompletions/Workovers with/Well Testing O all Testing Venting and Flaring Source Form Complete Owell Testing Venting and Flaring Source Not Applicable Return to Table of Contents Table 1. Well Drilling Actual count of wells drilled Annual CH_c emissions (mt CH_c) Table 2. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Well Drilling Mitigation actions implemented to reduce methane emissions Methodology used to quantify reductions (type) Methodology used to quantify reductions (details) Emission reductions from voluntary action (mt CH_a) Table 3. Well Venting During Well Completions/Workovers, with Hydraulic Fracturing Return to Top Well Venting During Well Completions, with Hydraulic Fracturing Actual count of completions in the calendar year Actual count of wells that conduct flaring Actual count of wells that have reduced emission completions Well Venting During Well Workovers, with Hydraulic Fracturing Total count of workovers Actual count of wells that conduct flaring Annual CH, emissions (mt CH,) Table 4. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Well Venting During Well Completions/Workovers, with Hydraulic Fracturing ber of well completion kovers utilizing flaring Number of well completions/workovers utilizing reduced emission completions Number of well completions/workovers utilizing other emissions control technique Specify emissions control methodology ission reductions from voluntary action (mt CH,) Table 5. Well Venting During Well Completions/Workovers, without Hydraulic Fracturing Return to Top Well Venting During Well Completions, without Hydraulic Fracturing Total count of completions that vented directly to atmosphere without flaring otal count of completions with flaring Annual CH₄ emissions that resulted from venting gas directly to the atmosphere for completions (mt CH₄) ual CH₂ emissions that resulted from flares for comple Well Venting During Well Workovers without Hydraulic Fracture vers that vented directly to atmosphere wi flaring Total count of workovers with flaring Annual CH_a emissions that resulted from venting gas directly to the atmosphere for workovers (mt CH_a) CH,) Table 6. Voluntary Actions Taken to Reduce Methane Emissions During Reporting Year - Well Venting During Well Completions/Workovers, without Hydraulic Fracturing Number of completions/workovers utilizing flaring Number of completions/workovers utilizing other emissi technique Specify emissions control methodology sion reductions from voluntary action (mt CH.) Table 7. Well Testing Venting and Flaring Return to Top Actual count of wells tested in a calendar year that vented emission to the atmosphere. al count of wells tested in a calendar year that flared emi rage number of days wells were tested that flared emis

27 of 35

Annual CH, emissions from venting (mt CH,) Annual CH, emissions from flaring (mt CH,)

Emission reductions from voluntary action (mt CH,)

Additional Information

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

Iditional 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"

Biogus Project ID (il known)	What is the destinated market for the RNG (regionkity/state/facility) [if known]?	What is the designated end use?	 Notume of RNC going to this end use, this year (sci gas) [if known]	own the environmental	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 environmental attributes	

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

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

Table 3. Information About the Pipeline Interconnect(s)



 Based on your regresser, please Bi col al of the falls blace mixed plea along you due avery set automatically used you to the rest colds are you fall.
 So along you want to be the falls blace mixed please along you be the rest colds are you fall.
 So along you want to be the fall of blace to be the f

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

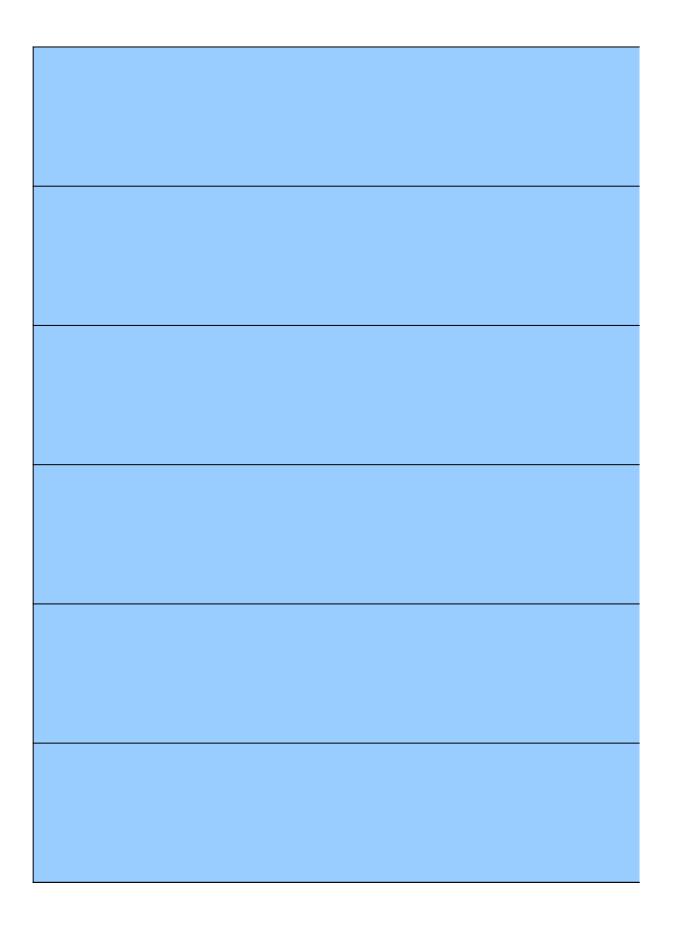
nes to mitigate emissions from existing emission sources in the program, or for emission sources not on this form, or as a standalone Word document/PDF. If using a Microsoft Word document or PDF,

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





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Return to Table of Contents

IE TOPIC