Form EIA-1605

Voluntary Reporting of Greenhouse Gases

Revised Pursuant to 10 CFR Part 300 Guidelines for Voluntary Greenhouse Gas Reporting

Energy Information Administration U.S. Department of Energy

TABLE OF CONTENTS

SCHEDULE I. ENTITY INFORMATION	
Section 1. Entity Statement	
Section 2. Entity Emissions Inventory	
Part A. Aggregated Emissions by Gas (for independently verified reports only)	
Aggregated Domestic Emissions by Gas	
Aggregated Foreign Emissions by Gas	
Part B. Inventory of Domestic Emissions and Carbon Flux	
1. Direct Emissions	10
Indirect Emissions from Purchased Energy	
3. Other Indirect Emissions	
4. Terrestrial Carbon Fluxes and Stocks	
5. De Minimis Emissions Sources	
Part C. Inventory of Foreign Emissions and Carbon Flux	
Part D. Total Emissions and Carbon Flux	
1. Total Domestic Emissions and Carbon Flux	
Total Foreign Emissions and Carbon Flux	
Part E. Emissions Inventory Rating Summary	
Section 3. Emissions Offsets	
Part A. Offsets Obtained by Agreement with Another Reporter	
Part B. Offsets Obtained by Agreement with a Non-reporter	29
Section 4. Entity-level Emission Reductions	30
SCHEDULE II. SUBENTITY INFORMATION	_
Section 1. Subentity Statement	
Section 2. Subentity Emissions Inventory	
Section 3. Summary of Emission Reductions from Subentities	34
COLUMN THE THEORY DEPLICATIONS OF THE TABLE	
SCHEDULE III. EMISSION REDUCTIONS SUMMARY	
Section 1. Registered Emission Reductions	
Part A. Domestic Net Entity-level Reductions and Carbon Storage	
Part B. Foreign Net Entity-level Reductions and Carbon Storage	
Section 2. Reported Emission Reductions Part A. Domestic Net Entity-level Reductions and Carbon Storage	
Part A. Domestic Net Entity-level Reductions and Carbon Storage	
Part B. Foreign Net Entity-level Neductions and Carbon Storage	39
SCHEDULE IV. VERIFICATION AND CERTIFICATION	41
Section 1. Independent Verification	
Section 2. Reporter Self-certification	
Addendum A. Inventory of Foreign or Subentity Emissions	A1
Part A. Aggregated Emissions by Gas (for independently verified reports only)	A1
Part B. Inventory of Emissions and Carbon Flux	A3
1. Direct Emissions	A3
2. Indirect Emissions from Purchased Energy	A9
3. Other Indirect Emissions	A10
4. Terrestrial Carbon Fluxes and Stocks	A11
5. De Minimis Emissions Sources	
Part C. Total Foreign or Subentity Emissions and Carbon Flux	A16
Addendum B. Emission Reduction Methods	
B1. Changes in Emissions Intensity	
B2. Changes in Absolute Emissions	
B3. Changes in Carbon Storage	B7
B4. Changes in Avoided Emissions	В9

	B5. Emission Reductions from Energy Generation and Distribution	B11
	B6. Reductions from Coal Mine Methane Gas Recovery	
	B7. Landfill Methane Recovery	B18
	B8. Geologic Sequestration	
	B9. Electricity Transmission and Distribution Improvements	
	B10. Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities	B29
	B11. Capture of Methane from Anaerobic Digestion of Animal Waste	B34
	B12. Recycling of Fly Ash	B37
	B13. Demand-Side Management and Other Reduction Programs	B40
	B14. Combined Heat and Power	B43
	B15. Other Action-Specific Methods	B47
	B16. Destruction of Chlorofluorocarbons	B50
Αc	ddendum C. Country-specific Factors Used to Estimate Emissions from Foreign Sources	C1

NOTE: 18 U.S.C. §1001 makes it a criminal offense for any person knowingly and willfully to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

(Re	porti	TING YEARng Year is the calendar year for which you are reporting emissions. If this is a Start Year report, e Start Year, which is the last calendar year of the initial Base Period.)
SC	HEI	DULE I. ENTITY INFORMATION
SE	СТІО	N 1. ENTITY STATEMENT
1.	Entit Add Add City	er Entity Identification: ty Name: ress 1: ress 2: State: Zip: ty URL : ty Tax Payer Identification Number (optional):
2.	Con Title Add Add City Tel: Fax:	er Contact Information: tact Name: Contact address is the same as Entity Address ress 1: ress 2: State: State: Zip:
3.	a.	er Report Characteristics Report Type <i>(please check one)</i> : □ Start Year Report □ Reporting Year Report
		Entity Type (please check one): □ Large emitter (more than 10,000 metric tons carbon dioxide equivalent annually) intending to register emission reductions □ Small emitter (less than or equal to 10,000 metric tons carbon dioxide equivalent annually) intending to register emission reductions □ If this is a Start Year Report, enter the total entity-wide Base Period annual emissions for the entity: □ metric tons CO₂ equivalent □ fithis is a Reporting Year report, enter the total entity-wide Reporting Year emissions for the entity, if required, and check the box indicating the reason emissions were estimated: □ metric tons CO₂ equivalent □ Five years have elapsed since last estimate of entity-wide emissions were reported □ Emissions have changed significantly since previous report □ Emitter intending to report but not register emission reductions
		Scope of Inventory: □ Entity-wide

				cate the selected ele d/or excluded below		seled	cted gases	s, or s 	elected sources
	d.			ease check one): udes subentity report	s:	_ `	Yes		No
	e.			erification n verified by an inder	pendent third party:	"	Yes		No
4.	Ind	The en	tity has	cant Changes to Prenot undergone significates report					
			report w Data a	undergone significant as filed. Please chec being resubmitted For the entire entity For one or more subseption has been seen the entire entity.	k the appropriate bo for the base period: pentities selected:	x be	low:		
			Change	one or more subenties have been made in grature: Acquisition or divestiplants Describe:	n the entity's scope of titure of discrete bus	or org	ganization	al bou	undaries, of the
				Closure or opening Describe: Transfer of econom previous report	ic activity to or from	spec		ions o	covered by a
			<u> </u>		egation than in the pes now included, inc nd the specific count	revio cludir tries	ous year. ng a listing in which th	ne for	
				Changes in activity Change in c		e spe nents esses rcing uenc	cify: s s of signific e on repoi	ant a	missions or
				on reduction calculati hange, not listed abo					

5.	lde Sy: Pri	entify the Entity's Primary Economic Activities (NAICS Code) entify the primary (and secondary, if applicable) 3-digit North American Industrial Classificatio stem (NAICS) code for the entity (a list of NAICS codes is offered in Appendix A): mary NAICS: condary NAICS:
6.		ter the Entity Category lect the category below that describes the entity:
		Corporation Corporation Type (check one) Corporation (i.e., C Corporation; most corporations) S Corporation Limited Liability Corporation (LLC) Limited Liability Partnership (LLP) Partnership Sole Proprietorship Other, specify:
		Public or Private Status (check one) □ Publicly Traded (Stock ticker symbol:) □ Privately Held
		Ownership Status (check one) ☐ Wholly Owned Subsidiary ☐ Joint Venture (partners:) ☐ Other Subsidiary
		Utility (Non-Investor Owned) (check one) Cooperative Municipal Utility Municipal Cooperative
		☐ Other, specify:
		☐ Other, specify:
		Other, specify: Non-Profit Organization □ Cooperative (e.g., non-profit electric cooperative) □ Trade Association (specify type): □ Reporting on behalf of its members, specified in attached list □ Reporting on its own achievements
		All other Non-Profit Organizations (charities, fraternal orders, etc. Specify:)
		Individual or Household Other, specify:

7.	Is your	entity	e Entity Organizati a holding compa entity's Parent or		□ No if applicable:		
8.	a. Me	ethod		ational Boundaries Organizational Boun	daries		
				explain how the use from results of the		approach results in organol approach:	nizational
	_			how the use of this of the financial cor		ch results in organization :	nal boundaries
						s other approach results financial control approa	
	b. Lis	t All L		ed Subsidiaries Inc	luded in this F	•	
			Subsidiary	Name		Primary NAIC	S
			Large Partially O		oint Venture, a	and Leased or Operated	Emissions
	1		2	3	4	5	6
D	Name o escripti Emissi Source	on ons	Relationship to Reporting Entity	Partners	% Interest Held By Reporting Entity	Method for Determining Inclusion in Report	% of Emissions Included in This Report
D	escripti Emissi	on ons	to Reporting	Partners	Held By Reporting	Determining	Emissions Included in This
D	d. Ad	on ons e	to Reporting Entity al Description of one any emissions s		Held By Reporting Entity Indaries (pleas	Determining Inclusion in Report e describe, including cri	Emissions Included in This Report

	 Nationwide (if operating in all 10 U.S. Census Regions) Multiple States (if not nationwide, enter states using 2-letter abbreviations from Appendix E
	□ Single State (enter 2-letter abbreviation for state from Appendix B:)
	 □ This report covers U.S. and Non-U.S. activities □ U.S. Activities: □ Nationwide (if operating in all 10 U.S. Census Regions) □ Multiple States (if not nationwide, enter states using 2-letter abbreviations from Appendix Expressions)
	□ Single State (enter 2-letter abbreviation for state from Appendix B:)
	Foreign Activities: List all foreign countries in which reported activities occurred using the 3-digition codes found in Appendix C, and the NAICS code that best corresponds to the primary activity in that country from Appendix A:
	Country Primary NAICS code
10.	Describe the Scope of the Emissions Inventory Check the types of emission sources or sinks that are covered in the emissions inventory: ☐ Stationary source combustion ☐ Fugitive emissions from geologic reservoirs ☐ Mobile source combustion ☐ Indirect emissions from purchased energy ☐ Industrial processes ☐ Other indirect emissions ☐ Agricultural sources ☐ Terrestrial carbon fluxes and stocks
11.	Describe the Entity Base Period Indicate number of years in the Base Period: □ 1 □ 2 □ 3 □ 4 Enter last year in Base Period: □ □ Check here if you are reporting subentities that use a different base period from the entity
12.	Describe Any Entity Program Affiliation(s) Domestic Voluntary Initiatives List the voluntary GHG-reduction initiative(s) with which the entity has an affiliation (see list of codes in Appendix D):
	Domestic Registries and Exchanges List the U.S. GHG registry(ies) and/or exchange(s) with which the entity has an affiliation (see list of codes in Appendix D):
	International Registries and Exchanges List the non-U.S. GHG registry(ies) and/or exchange(s) with which the entity has an affiliation (see list of codes in Appendix <i>D</i>): Other, specify:

13.	Check box if applicable: Requesting confidential treatment for the information reported on this form. (NOTE that if you request confidentiality, you must, in the space below, explain, on an element-by-element basis, the reasons why your reported information should be kept confidential. To assist in this determination, respondents should demonstrate that their information contains trade secrets or commercial or financial information whose release would be likely to cause substantial harm to their company's competitive position.)
14.	Enter Supplementary Information for Entity Use this space (and attach additional sheets if necessary) to supply any supporting information you feel helps explain your entity or report that is not accommodated directly in this reporting form.

SECTION 2. ENTITY EMISSIONS INVENTORY

☐ Check box if all methods used to estimate emissions and sequestration have a B rating or higher. If checked, do not complete "Weighted Rating" column of Parts A, B, C, and D, and skip Part E completely.

Part A. Aggregated Emissions by Gas (for independently verified reports only)

1. Ente	. Enter Aggregated Domestic Emissions by Gas (for independently verified reports only)	(tor inde	ependen	ııy verinec	reports o	JNIy)				
-	2	3	4	2	9	7	8	6	10	11
				Bas	e Period E	Base Period Emissions or Carbon Flux	or Carbor	ר Flux	Reporting	
								Base Period	Year Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating
∢	Direct Emissions									
A 1	Carbon Dioxide	CO_2								
A2	Methane	CH⁴								
A3	Nitrous Oxide	N_2O								
A4	Sulfur Hexafluoride	SF_6								
A5	HFC (Specify)									
A6	PFC (Specify)									
A7	CFC (Specify)									
В	Indirect Emissions from Purchased Energy (Inventory)									
B1	Carbon Dioxide	CO_2								
B2	Methane	CH⁴								
B3	Nitrous Oxide	N_2O								
O	Indirect Emissions from Purchased Energy (Reductions)									
C	Carbon Dioxide	CO_2								
C2	Methane	CH⁴								
C3	Nitrous Oxide	N_2O								
Ω	Carbon Flux	CO_2								
В	Other Indirect Emissions									
F1	Carbon Dioxide	CO_2								
F2	Methane	CH⁴								
F3	Nitrous Oxide	N_2O								
F4	Sulfur Hexafluoride	SF_6								
F5	HFC (Specify)									
F6	PFC (Specify)									
F7	CFC (Specify)									

-	2	က	4	2	9	7	80	6	10	11
				Ba	se Period	Base Period Emissions or Carbon Flux	or Carboi	Flux ר	Reporting	
								Base Period	Year Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating
9	Captured CO ₂ Sequestered in an onsite Geologic Reservoir	CO2								
I	Captured CO ₂ Transferred to Another Entity for Sequestration in a Geologic Reservoir	CO ₂								

2. Enter Aggregated Foreign Emissions by Gas (for independently verified reports only)

Z. Ent	z. Enter Aggregated Foreign Emissions by Gas (1	ror Indep	endenti	y veriried	(ror independentily verified reports only,	_				
1	2	3	4	5	9	7	8	9	10	11
				Bas	Base Period Emissions or Carbon Flux	Emissions	or Carbor	า Flux	Reporting	
								Base Period	Year Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating
4	Direct Emissions									
A1	Carbon Dioxide	CO_2								
A 2	Methane	CH⁴								
A3	Nitrous Oxide	N_2O								
A4	Sulfur Hexafluoride	${\sf SF}_6$								
A5	HFC (Specify)									
A6	PFC (Specify)									
A7	CFC (Specify)									
В	Indirect Emissions from Purchased Energy (Inventory)				_					
B	Carbon Dioxide	CO ₂								
B2		CH⁴								
B3		N_2O								
O	Indirect Emissions from Purchased Energy (Reductions)									
C	Carbon Dioxide	CO_2								
C2		CH⁴								
C3	Nitrous Oxide	N_2O								
D	Carbon Flux	CO_2								
Ш	Other Indirect Emissions									
F1	Carbon Dioxide	CO_2								
F2	Methane	CH⁴								
F3	Nitrous Oxide	N_2O								
F4	Sulfur Hexafluoride	${\sf SF}_6$								

_	2	က	4	2	9	7	∞	တ	10	Ξ
				Bas	se Period	Base Period Emissions or Carbon Flux	or Carbo	ר Flux	Reporting	
								Base	Year	
								Period	Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating
F5	HFC (Specify)									
P6	PFC (Specify)									
F7	CFC (Specify)									
Ŋ	Captured CO ₂ Sequestered in an Onsite Geologic Reservoir	CO2								
I	Captured CO ₂ Transferred to Another Entity for Sequestration in a Geologic Reservoir	CO2								

Part B. Inventory of Domestic Emissions and Carbon Flux (optional for independently verified reports)

1. Enter Direct Emissions

a. Stationary Combustion (incorporate all emissions, including CO₂ captured from stationary combustion for geologic sequestration)

\dot{a} : Otational) combastion (morpholate all emissions, moraling \dot{o}) captaled not stationally combastion for geologic sequestiation	neerporate	מוווסטור	יייטיייייייייייייייייייייייייייייייייי	g OOZ Capit	מים ייים וו מסור	nonay com	ש וכוו ווכווצטע	cologic sequer	וושווי	
-	2	3	4	2	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
							Base Period	Reporting Year	Estimation	
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	Rating
Fossil Fuel Combustion	CO_2									
	CH⁴									
	N_2O									
Non-Standard Fuel	CO_2									
Combustion	CH⁴									
	N_2O									
Waste Fuels Combustion	CO_2									
	CH⁴									
	N_2O									
Biomass Combustion	CH⁴									
	N_2O									
Nonfuel Use of Fossil Fuels	CO_2									
Subtotal	CO ₂ e									

b. Mobile Sources (incorporate all emissions, including CO_2 captured from mobile sources for geologic sequestration)	ate all emiss	ions, inc	luding CO_2 c	aptured fror	n mobile sou	irces for gec	logic seques	stration)		
-	2	ဗ	4	5	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
							Base Period	Reporting Year	Estimation	
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	Rating
Highway Vehicles	CO_2									
	CH_4									
	N_2O									
Off-Road Vehicles	CO_2									
	CH⁴									
	N_2O									
Marine Vessels	CO_2									
	CH_4									
	N_2O									
Aircraft	CO_2									
	CH₄									
	N_2O									
Mobile Refrigeration and Air	HFC-134a									
Conditioning										
Subtotal	CO_2e									

Form EIA-1605 – Schedule I, Section 2. Entity Emissions Inventory

c. Sector-Specific Industrial Process Emissions (incorporate all emissions, including CO₂ captured from industrial process emissions for geologic sequestration)

sequestiation)	٥	œ	7	ע	y	7	α	σ	10	11
	I	,			Base Period Emissions	sions))	2	
Process/Fugitive Emissions	9	Inite	>	>	>	× ×	Base Period	Reporting Year	Estimation Method	Reting
	222	2	-	Industrial	Industrial Processes	+	Average		5000	S I I
Adipic Acid production	N ₂ O									
Aluminum Production (CO ₂ only)	CO ₂									
Ammonia Production	CO2									
Cement Production	CO ₂									
Hydrogen Production	CO ₂									
Iron and Steel	CO ₂									
	CH⁴									
Lime Production	² O0									
Limestone and Dolomite Use	cO ₂									
Methanol Production	² 00									
Methane Emissions from Production of Other Petrochemicals	CH4									
Nitric Acid Production	N ₂ O									
Soda Ash Production and Use	² 00									

c. Sector-Specific Industrial Process Emissions (continued)	l Process Em	issions (co	ontinued)	ι	C	1	ď	ď		7
_	7	ກ	4	o I	ا ه	\ \ .	œ	S)	10	Ξ
			-	Base	Base Period Emissions	sions				
Process/Fugitive Emissions	Gas	Units	۲.	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating
				Energy	rgy					,
Coal Mines	CH⁴									
Oil and Natural Gas	CH⁴									
Industries	5 C									
) 3.			Waste Handling	andling					
Domestic and Industrial	CH⁴)					
Wastewater Handling	N_2O									
Landfills	CH⁴									
			•	High GWP Gases	P Gases					
Aluminum Production	PFC									
(for PFC, specify gas)	SF_6									
HCFC-22 Production	HFC-23									
SF ₆ Emissions form Electrical Equipment	SF_6									
Industrial Use and	HFCs									
PFCs, and SF6 (for	PFCs									
HFCs and PFCs, specify gas)	SF ₆									
Magnesium Production	${\sf SF}_6$									
Semiconductor	HFCs									
Manufacture (for HFCs	PFCs									
and PFCs, specify gas)	${\sf SF}_{\sf 6}$									
			Other	Industrial F	Other Industrial Process Sources	urces				
Other (for HFCs and	CO_2									
PFCs, specify gas)	CH⁴									
	N_2O									
	${\sf SF}_6$									
- 1	PFCs									
1	HFCs		1							
Subtotal	CO_2e									

Form EIA-1605 – Schedule I, Section 2. Entity Emissions Inventory

Rating Estimation Method d. Agricultural Sources (incorporate all emissions, including CO₂ captured from agricultural sources for geologic sequestration) Reporting Year **Emissions** Base Period Average Yr 4 **Base Period Emissions** Yr 3 Yr 2 ۲.1 Units CO_2e Gas CH₄ CH₹ N_2 N_2 0 CH₄ CH₄ CH₄ N_2 N_2 $\frac{1}{2}$ $\frac{2}{2}$ Agricultural Soils - Organic Soils Cultivation of Organic Soils Other agricultural sources (specify source and gas): **Enteric Fermentation** Rice Cultivation – 1st Harvest Rice Cultivation – 2nd ("ratoon") harvest Agricultural Soils – Nitrogen Application Source Residue Burning Lime Application Livestock Waste Subtotal

Form EIA-1605 – Schedule I, Section 2. Entity Emissions Inventory

e. Fugitive Emissions Associated With Geologic Reservoirs

e. I agilive Ellissions Associated Will deologic Heselvons	טמוכט ייווו	T GEOLOGIC	1 1000 1 101 0							
-	2	ო	4	വ	9	7	8	6	10	Ξ
				Base	Base Period Emissions	sions				
							Base			
							Period	Reporting	Estimation	
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Year		Rating
Fugitive Emissions From										
the Extraction of Naturally	CO_2e									
Occurring CO ₂										
Fugitive Emissions From										
the Extraction of CO ₂ From	CO_2e									
Anthropogenic Sources										
Fugitive Emissions During										
Transport and Processing	OO2E									
Fugitive Emissions During										
Injection and Extraction for	٥									
Enhanced Resource	D C C C									
Recovery										
Post-Injection Seepage										
From Permanent Geologic	CO_2e									
Storage Reservoir										

f. Captured CO₂ Emissions from Anthropogenic Sources *(captured CO₂ emissions should also be included as emissions in Questions 1a through 1d above).*

1	2	3	4	5	9	7	8	6
			Base Peric	Base Period Average Quantity	uantity	Reportir	Reporting Year Quantity	antity
Source	Gas	Gas Unit of Measure	Onsite	Offsite	Total	Onsite	Onsite Offsite Total	Total
1. Stationary Combustion	CO_2e	metric tons						
2. Sector-Specific Industrial Process Emissions	CO_2e	metric tons						
3. Other (Mobile & Agricultural Sources)	CO_2e	metric tons						
Subtotals	CO_2e	metric tons						

2. Enter Indirect Emissions From Purchased Energy

Physical Quantities of Energy Purchased

a. Triysical adamines of Ellergy Fulcitased	ומסכם							
1	2	8	4	2	9	2	8	6
			Base P	Base Period Consumption	mption			
Source	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Consumption	System Type/Fuel Used for Generation
Electricity								
Steam								
Hot Water								
Chilled Water								

 b. Emissions from Purchased Energy for Emissions Inventory 	sed Energy	y for Emis	sions Invent	ory						
-	2	ဇ	4	2	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
							Base Period	Reporting Year	Estimation	
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average		Method	Rating
Electricity (for emissions	CO ₂									
inventory)	CH⁴									
	N_2O									
Steam	CO_2									
	CH⁴									
	N_2O									
Hot Water	CO ₂									
	CH⁴									
	N_2O									
Chilled Water	CO_2									
	CH_4									
	N_2O									
Total	COse									

Emissions from Purchased Energy for Emission Reductions (Not included in emissions inventory. Complete only if calculating reductions at the entity-level using Addendum B1 or B2.) ပ

1	2	3	4	2	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
							Base Period	Reporting Year	Estimation	
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average		Method	Rating
Electricity (for emissions	CO_2									
reductions)	CH⁴									
	N_2O									
Steam, Hot Water, and	$\frac{1}{2}$									
Chilled Water*	CH⁴									
	N_2O									
Total	CO_2e									
*C notion. Oni province and the the continuous continuo	, ai 00001100 v	, do acitoci.	0,040							

*Sum emissions reported for these sources in Question 2b above.

3 Other Indirect Emissions*

3. Other Indirect Emissions										
-	2	က	4	2	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
							Base Period	Reporting Year		
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average		Method	Rating
Employee Commuting										
Manufacture & Sale of										
Energy Efficient Products										
Consumption of Energy-										
intensive Products										
Other:										
Subtotal	CO_2e									

*Do not include in emission inventory.

4. Enter Terrestrial Carbon Fluxes and Stocks

Forestry Activities

 a. Forestry Activities 								
1	2	3	4	5	9	7	8	6
				Carbon Stocks		Reporting		
			Base	Estimated Carbon Stocks in Year Prior to	Reporting Year Carbon	Year Stock Change or Carbon	Estimation	
Categories	Gas	Units	Average	Reporting Year		Flux ^{1,2}	Method ³	Rating
Afforestation, Mine Land								
Reclamation, and Forest	$\frac{1}{2}$							
Restoration								
Agroforestry	CO_2							
Forest Management ⁴	CO_2							
Short-rotation Biomass	CO,							
Energy Plantations	200							
Urban Forestry	CO_2							
Timber Harvesting ⁵	CO_2							
Other ⁶	CO_2							
Total	CO_2							

*Carbon flux can be positive or negative; positive values indicate a net increase in terrestrial carbon stocks; negative values indicate a net loss of carbon to the atmosphere, i.e., emissions. Carbon flux may be calculated directly using flux based approaches or as the change in carbon stocks between the reporting year and the previous year.

Reporters using methods that estimate carbon flux only should enter a carbon flux value in the column "Reporting Year Stock Change or Carbon Flux" and leave columns blank for Carbon Stock data.

³ Methods include lookup tables, models, measurement, or a combination of these methods. If using a model, please indicate the name.

⁴ Forest management includes management decisions taken at any stage of forest rotation. Forest preservation is a special case and is reported separately in Question 4c below.

⁵ Activities such as thinning should be included under Forest Management.

⁶ "Other" includes activities not covered in the previous categories practiced by landowners that may result in changes in carbon fluxes or stocks.

Wood Products: <u>.</u>

Method 1: Track and report emissions in year they occur.

1	2	3	7	5	9	7	8
Category	Gas	Units	Estimated Carbon Stocks in Harvested Wood Products in Year Prior to Reporting Year	Estimated Carbon Stocks in Harvested Wood Products in Reporting	Reporting Year Stock Change	Estimation Method	Rating
Wood Products	² 00						

Method 2: Estimate and report residual carbon after 100 years in reporting year. :=

-	7	က	4	2	9	7	
Category	Gas	Units	Stock of Carbon in Harvested Wood	100 year Residual Carbon Stock	Estimation Method	Rating	
lood products	² 00						

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Land Restoration and Forest Preservation

— Entity certifies that it has restored native habitat on land and placed administrative restrictions on the land to ensure that human-caused

releases of carbon from the lands do not occur in the future.

∞	Rating					
7	Estimation Method					
9	50% of Carbon Stock Accumulated in 50 Years from Inception of Preservation Activity					
2	Units					
4	Area (Acres)					
3	Year Protected					
2	Type of Restriction (e.g., Easement, Deed Restrictions, etc.)					
1	Name/Description of Tract of Land	1.	2.	3.	4.	Total

Ö.

Forest Land That Experiences Carbon Losses From Natural Disturbances This table documents carbon stock changes on each tract of disturbed lands and should be used until carbon stocks reach pre-disturbance מפעפו

J								
	11		Rating					
	10		Estimation Method					
	9		Loss					
	8		Reporting Year Carbon Stocks					
	7	Carbon Stocks	Carbon Stocks in Year Before Disturbance					
	9	Ö	Base Period Average					
	5		Units					
	4		Year					
	8		Type of Disturbance					
	2		Area (Acres)					
ומעמוס.	1		Name/Description Tract of Land	1.	2.	3.	4.	Total

Sustainably Managed Forests ď

e. Sustailladij Mallaged Folesis			
· ·	7	8	4
Name/Description of Tract of Land	Area (Acres)	Has Sustainability Been Verified by Third Party Certifier (Y/N)	Identify System Used to Determine Sustainability
-			
2.			
3.			
4.			
Total			

Incidental Lands Excluded From Terrestrial Carbon Fluxes and Stocks in Question 4a

	2	က
Name/Description of Tract of Land	Type of Land	Area (Acres)
1.		
2.		
3.		
4.		
Total		

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Other Terrestrial Carbon Fluxes
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g: (110) C C C C C C C	200	י						
-	2	3	4	5	9	7	8	6
				Carbon Stocks		Reporting		
			Base	Estimated Carbon Stocks in Year	Estimated Carbon Stock	Year Stock Change or		
Categories	Gas	Units	Average	Year	m reporting Year	Flux ^{1,2}	Estimation Method ³	Rating
Crops on Mineral Soils	CO_2							
Pasture/Grazing	CO_2							
Land Use Change	CO_2							
Other:	CO_2							
Total	CO_2							
		١.						

Carbon flux can be positive or negative; positive values indicate a net increase in terrestrial carbon stocks; negative values indicate a net loss of carbon to the atmosphere, i.e., emissions. Carbon flux may be calculated directly using flux based approaches or as the change in carbon stocks between the reporting year and the previous year.

Reporters using methods that estimate carbon flux only should enter a carbon flux value in the column "Reporting Year Stock Change or Carbon Flux" and leave columns blank for Carbon Stock data.

Carbon Stock data.

Methods include lookup tables, models, measurement, or a combination of these methods. If using a model, please indicate the name.

Terrestrial Carbon Flux Summary ے

II. Terrestrial Carbon Flux Summary				
-	2	3	7	2
			Reporting Year Stock Change or Carbon	
Categories	Gas	Units	Flux	Rating
Forestry Activities	CO ₂			
Wood Products Method 1	CO ₂			
Wood Products Method 2	CO ₂			
Land Restoration and Forest Preservation	CO ₂			
Sustainably Managed Forests	CO ₂			
Incidental Lands	CO ₂			
Other Terrestrial Carbon Fluxes	CO_2			
Total Reporting Year Terrestrial Carbon Flux	co,			

	2	•
	4	
issions Sources	3	
imate De Minimis Em	2	
5. Identify and Estir	1	

7	Year Last Estimated*						
9	Reporting Year De Minimis Emissions*						
2	Base Period Average De Minimis Emissions						
4	Unit of Measure						metric tons
3	Gas						$9^{7}OO$
1 2 3	De Minimis Emissions Source						
1	De Minimis Emissions Type						Total

*De minimis emissions must be re-estimated after any significant increase in such emissions, or every five years, whichever occurs first.

Part C. Inventory of Foreign Emissions and Carbon Flux (optional for independently verified reports)

Complete and attach one copy of Addendum A, Inventory of Foreign or Subentity Emissions.

Part D. Total Emissions and Carbon Flux

Η̈́	
arbon	
and <u>C</u>	
ions a	
Emissions	
omestic	
. Total E	
. Enter	

. I otal I	Enter I otal Domestic Emissions and Carbon Flux 1	2	က	4	2	9	7	000
	-	1	o	Base	Base Period Emissions	issions		o e
		Gas/					Base Period	Reporting Year Emissions or
So	Source	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux
Direct Emissions		$mtCO_2e$						
Indirect Emissions fron Emissions Inventory	Indirect Emissions from Purchased Energy for Emissions Inventory	mtCO ₂ e						
Indirect Emissions from Purcha Calculation of Emission Reduct	Indirect Emissions from Purchased Energy for Calculation of Emission Reductions	mtCO ₂ e						
Total Emissions (A + B)*	\ + B)*	mtCO ₂ e						
Carbon Flux		$mtCO_2e$						
Captured CO ₂ Sequestered in an Onsite Geologic Reservoir**	ered in an Onsite	mtCO ₂ e						
Total Inventory En	Total Inventory Emissions (D – E – F)	$mtCO_2e$						
Other Indirect Emissions	ns	$mtCO_2e$						
Captured CO ₂ Transferred to Another En Sequestration in a Geologic Reservoir**	Captured CO ₂ Transferred to Another Entity for Sequestration in a Geologic Reservoir**	mtCO ₂ e						

mtCO₂e = metric tons carbon dioxide equivalent *Do not include Indirect Emissions from Purchased Energy for Calculation of Emission Reductions (Item C) in Total Emissions. **Do not include CO₂ extracted and captured from natural sources or CO₂ recycled during enhanced resource recovery operations.

2. Enter Total Foreign Emissions and Carbon Flux

		2	3	4	2	9	7	80
_				Base	Base Period Emissions	issions		
		Gas/					Base Period	Reporting Year Emissions or
ltem	Source	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux
Α	Direct Emissions	$mtCO_2e$						
В	Indirect Emissions from Purchased Energy for Emissions Inventory	mtCO ₂ e						
С	Indirect Emissions from Purchased Energy for Calculation of Emission Reductions	mtCO ₂ e						
D	Total Emissions (A + B)*	mtCO ₂ e						
Е	Carbon Flux	mtCO ₂ e						
F	Captured CO ₂ Sequestered in an Onsite Geologic Reservoir**	mtCO ₂ e						
G	Total Inventory Emissions (D – E – F)	mtCO ₂ e						
Н	Other Indirect Emissions	mtCO ₂ e						
_	Captured CO ₂ Transferred to Another Entity for Sequestration in a Geologic Reservoir**	mtCO ₂ e						

mtCO₂e = metric tons carbon dioxide equivalent *Do not include Indirect Emissions from Purchased Energy for Calculation of Emission Reductions (Item C) in Total Emissions. **Do not include CO₂ extracted and captured from natural sources or CO₂ recycled during enhanced resource recovery operations.

Part E. Emissions Inventory Rating Summary

Do not complete Part E if all the methods used to estimate reductions were rated B or higher.

If this is a Start Year Report, complete Question 1 only. If this is a Reporting Year Report, complete Question 2 for reporting year data; complete Question 1 only if you have submitted revised base period emissions data.

Enter Base Dariod Data (enter dom

1. Enter Base F	eriod Data (ente	r domestic and toreign	1. Enter Base Period Data (enter domestic and toreign sources separately)	LC.	ď	7
-	I	,	Indirect Emissions	•		
Rating	Weighting	Direct	from Purchased			Weighted Total
Category	Factor	Emissions	Energy	Carbon Flux	Total Emissions	Emissions ²
			Domestic Sources	Si		
A	4					
В	ဇ					
O	0					
Ω	-					
Totals ³						
Weighted Average						
חמוווק			Foreign Sources			
A	4					
В	ဗ					
O	2					
Ω	-					
Totals ³						
Weighted						
Rating ⁴						

Sum Columns 3, 4 and 5 and enter result in Column 6 to get Total Emissions by Rating Category. Note: Enter carbon flux as a positive value, regardless of whether it was positive or

negative carbon flux
²Calculate Weighted Emissions by Rating Category by multiplying Column 2 by Column 6.
³ Sum values for Total Emissions (Column 6) and Weighted Total Emissions (Column 7) and enter in the Totals row.
⁴ Calculate Inventory Weighted Average Rating by dividing Weighted Total Emissions (Column 6) in the Totals row.

Enter Reporting Year Data (enter domestic and foreign sources separately) ٥i

		•			•	
1	2	3	4	5	9	7
			Indirect Emissions			Weighted Total
Rating	Weighting	Direct	from Purchased		Total Emissions	Emissions and
Category	Factor	Emissions	Energy	Carbon Flux	and Carbon Flux	Carbon Flux ²
			Domestic Sources	Sé		
A	4					
В	ဇ					
O	2					
Ω	-					
Totals ³						
Weighted Average Rating ⁴						
			Foreign Sources	S		
A	4					
В	က					
0	2					
Q	-					
Totals ³						
Weighted						
Average Rating ⁴						
¹ Sum Columns 3 4	and 5 and enter resi	It in Column 6 to get Tota	Sum Columns 3. 4 and 5 and enter result in Column 6 to det Total Emissions by Batina Catenory. Note: Enter carbon flux as a positive value renardless of whether it was positive or	Note: Enter carbon flux as	s a nositive value regardless	of whether it was positive or

Sum Columns 3, 4 and 5 and enter result in Column 6 to get Total Emissions by Rating Category. Note: Enter carbon flux as a positive value, regardless of whether it was positive or

negative carbon flux.

² Calculate Weighted Emissions and Carbon Flux by Rating Category by multiplying Column 2 by Column 6.

³ Sum values for Total Emissions (Column 6) and Weighted Total Emissions and Carbon Flux (Column 7) and enter in the Totals row.

⁴ Calculate Inventory Weighted Average Rating by dividing Weighted Total Emissions (Column 6) in the Totals row.

SECTION 3. EMISSION OFFSETS

This	s Report Includes Offsets Obtained by Agreement With (check all that apply):
	Other reporters to the Voluntary Reporting of Greenhouse Gases Program (complete Part A)
	Non-reporters (complete Part B)

Part A. Offsets Obtained by Agreement with Other Reporters. (Offsets may only be registered, or reported but not registered, in this part if the reporter has an agreement with the other reporting entity to register or report the reduction.) Identify the entities from which you have obtained offsets and enter the quantity or quantities of emission reductions obtained in metric tons CO₂e.

1. Enter Information in the Table Below for Offsets Obtained From Other Reporters

1. Litter informa	2	3	4	5	6	7
Name of Other	Name of Other Reporter's Subentity	Domestic		Unit of		Registered by Other Reporter?
Reporter	(If Applicable)	or Foreign	Gas	Measure	Quantity	(Y/N)
•						

^{*}If you are registering reductions, the offsets obtained from another reporter must have been registered by that other reporter.

Part B. Offset Obtained by Agreement With a Non-Reporter. Complete and attach one copy of Addendum A for each offset obtained by agreement with a non-reporter included in this report. Also attach Schedules I, II (if applicable), and III completed by, or on behalf of, the non-reporter.

1. Enter Information in the Table Below for Offsets Obtained From Non-reporters

	n in the Table Below I					_
1	2	3	4	5	6	7
Name of Non-reporter	Name of Non-reporter's Subentity (If Applicable)	Domestic or Foreign	Gas	Unit of Measure	Quantity	Non-Reporter Has Met Requirements for Registration?* (Y/N)
			1			·

^{*}If you are registering reductions, the non-reporters providing offsets must meet all the requirements for registering reductions.

SECTION 4. ENTITY-LEVEL EMISSION REDUCTIONS

If this is a Reporting Year report and you are estimating reductions for the entire entity or for just one portion of your entity, complete and attach one copy of the appropriate addendum (Addendum B1-B16) for the method used to estimate the reduction. If you are estimating reductions for two or more subentities, proceed to Schedule II.

SCHEDULE II. SUBENTITY INFORMATION

SECTION 1. SUBENTITY STATEMENT

1.	Enter the Subentity Identification: Subentity Name: Description: Relationship to Entity (describe):
2.	Enter the Reason for Delineation of Subentity (please check all that apply and explain below): Distinct Estimation Method; indicate method employed (check only one) Changes in Emissions Intensity Changes in Absolute Emissions Changes in Carbon Storage Changes in Avoided Emissions Action-Specific Emission Reductions Emission Reductions from Energy Generation and Distribution Distinct Output Metric (for intensity calculation), indicate Metric used: Foreign Country Operations, specify country(ies): Distinct Base Period from Other Subentities (for new or acquired operations) Emission Reduction Calculation Method Changed Small Emitter Registering Emission Reductions Associated with More Than One Specific Activity Reporting But Not Registering Emission Reductions Associated with More Than One Specific Activity Not Practicable to Assess Change in Net Emissions for the Following Reasons:
3.	Enter Any Significant Changes to Previous Subentity Statement (if applicable): ☐ The subentity has not undergone significant change since the last Voluntary Reporting of Greenhouse Gases report. ☐ The subentity was not included in the previous report ☐ The subentity's primary activity is new ☐ The subentity's primary activity existed prior to this report ☐ The subentity was not included in any other entity's previous reports ☐ The subentity was included in another entity's previous reports, please explain:
	 □ The subentity was included in the previous report, but has undergone significant changes, as follows: □ Data are being resubmitted for previous baseline years □ New baseline year(s) have been selected. Briefly describe the significant changes since the most recent Voluntary Reporting of Greenhouse Gases Program report filed:
4.	Describe the Subentity's Primary Economic Activities (NAICS Code): Enter the primary (and secondary, if applicable) 3-digit North American Industrial Classification System (NAICS) code for the subentity (A list of NAICS codes is provided in Appendix A): Primary NAICS: Secondary NAICS:

5.	Describe the Organizational Boundaries of Subentity:
6.	Describe the Scope of the Emissions Inventory Check the types of emission sources or sinks that are covered in the emissions inventory: ☐ Stationary Source Combustion ☐ Fugitive Emissions from Geologic Reservoirs ☐ Mobile Source Combustion ☐ Indirect Emissions from Purchased Energy ☐ Industrial Processes ☐ Other Indirect Emissions ☐ Agricultural Sources ☐ Terrestrial Carbon Fluxes and Stocks
7.	Describe the Geographic Scope of Activities (check the applicable box) ☐ This report covers U.S. activities only ☐ Nationwide (if operating in all 10 U.S. Census Regions) ☐ Multiple States (if not nationwide, select state codes from Appendix B: ☐ Single State (select state code from Appendix B: ☐ This subentity covers only non-U.S. activities (Required, if applicable) List the foreign country in which reported activities occurred, using the 3-digit codes found in Appendix C: ☐ This subentity covers only non-U.S. activities
8.	Indicate the Inclusion of Emission Reductions Are emission reductions included in this year's subentity report? ☐ Yes ☐ No, please explain:
9.	Define the Subentity Base Period Indicate number of years in the Base Period: □ 1 □ 2 □ 3 □ 4 Enter last year in Base Period:
10.	Enter Any Supplementary Information for the Subentity Use this space (and attach additional sheets if necessary) to supply any supporting informationyou feel helps explain your entity or report that isn't accommodated directly in this reporting form.

SECTION 2. SUBENTITY EMISSIONS INVENTORY

Complete and attach Addendum A, Inventory of Foreign or Subentity Emissions.

SECTION 3. SUMMARY OF EMISSION REDUCTIONS FROM SUBENTITIES

Complete and attach the appropriate form from Addendum B1-B16 for each subentity.

SCHEDULE III. EMISSION REDUCTIONS

SECTION 1. REGISTERED EMISSION REDUCTIONS

Part A. Enter Domestic Net Entity-Level Registered Reductions and Carbon Storage (metric tons CO₂e)

CO ₂ e)	1	2	3	4
			ission Reduction	•
Item	Method/Source	Gross Registered Reductions	Registered Reductions Distributed to Other Reporters	Net Registered Reductions (Subtract column 3 from column 2)
Α	Changes in Emissions Intensity		•	,
A1	Direct			
A2	Indirect from Purchased Energy			
В	Changes in Absolute Emissions			
B1	Direct			
B2	Indirect from Purchased Energy			
С	Changes in Carbon Storage			
D	Changes in Avoided Emissions			
Е	Energy Generation and Distribution			
F	Coal Mine Methane Gas Recovery			
G	Landfill Methane Recovery			
Н	Geologic Sequestration			
I	Transmission and Distribution Improvements			
J	Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities			
К	Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network			
L	Recycling of Fly Ash			
М	Demand-Side Management or Other Emission Reduction Programs			
N	Combined Heat and Power			
0	Other Action-specific Methods			
O1	Direct			
O2	Indirect from Purchased Energy			
Р	Subtotal (Sum rows A1 through O)			
Q	Offsets			
Q1	Offsets Obtained from Other Reporters			
Q2	Offsets Obtained from Non-reporters			
R	Subtotal (Sum rows P through Q2)			
S	Reduction Deficits Carried Over from Last Year's Report (From Schedule III, Section 1, Part A, Item T in Last Year's Report. If negative, enter value. If zero or positive, enter zero.)			
Т	TOTAL (Add row R to row S)			

Part B. Enter Foreign Net Entity-level Registered Reductions and Carbon Storage (metric tons

CO₂e) **Emission Reductions** Net Registered Registered Reductions Reductions Gross Distributed (Subtract Registered to Other column 3 from Item Method/Source Reductions Reporters column 2) Α Changes in Emissions Intensity Α1 Direct Indirect from Purchased Energy A2 В Changes in Absolute Emissions Direct B1 B2 Indirect from Purchased Energy С Changes in Carbon Storage D Changes in Avoided Emissions Ε Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery Н Geologic Sequestration I Transmission and Distribution Improvements Capture of Methane from Anaerobic Digestion at J Wastewater Treatment Facilities Supply of Methane from Anaerobic Digestion of Κ Animal Waste to a Natural Gas Distribution Network Recycling of Fly Ash L Demand-Side Management or Other Emission Μ Reduction Programs Ν Combined Heat and Power 0 Other Action-specific Methods 01 Direct 02 Indirect from Purchased Energy Р Subtotal (Sum rows A1 through O) Offsets Q Offsets Obtained from Other Reporters Q1 Offsets Obtained from Non-reporters Q2 R Subtotal (Sum rows P through Q2) Reduction Deficits Carried Over from Last Year's Report (From Schedule III, Section 1, Part B, Item S T in Last Year's Report. If negative, enter value. If zero or positive, enter zero.) Т TOTAL (Add row R to row S)

SECTION 2. REPORTED BUT NOT REGISTERED EMISSION REDUCTIONS

Part A. Enter Domestic Net Entity-level Reported but not Registered Reductions and Carbon

Temperature Temperature	Storage				, , , , , , , , , , , , , , , , , , , ,
Method/Source		1	2 Fm	3 ission Reduction	4 one
A Changes in Emissions Intensity A1 Direct A2 Indirect from Purchased Energy A3 Other Indirect B Changes in Absolute Emissions B1 Direct B2 Indirect from Purchased Energy B3 Other Indirect C Changes in Carbon Storage D Changes in Avoided Emissions E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	Carbon	Dioxide, Methane, Nitrous Oxide, Hydrofluoi	Gross Reported Reductions	Reported Reductions Distributed to Other Reporters	Net Reported Reductions (Subtract column 3 from column 2)
A1 Direct A2 Indirect from Purchased Energy A3 Other Indirect B Changes in Absolute Emissions B1 Direct B2 Indirect from Purchased Energy B3 Other Indirect C Changes in Carbon Storage D Changes in Avoided Emissions E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements C Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect		·			
A3 Other Indirect B Changes in Absolute Emissions B1 Direct B2 Indirect from Purchased Energy B3 Other Indirect C Changes in Carbon Storage D Changes in Avoided Emissions E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect		,			
A3 Other Indirect B Changes in Absolute Emissions B1 Direct B2 Indirect from Purchased Energy B3 Other Indirect C Changes in Carbon Storage D Changes in Avoided Emissions E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	A2	Indirect from Purchased Energy			
B1 Direct B2 Indirect from Purchased Energy B3 Other Indirect C Changes in Carbon Storage D Changes in Avoided Emissions E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities X Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	A3	Other Indirect			
B2 Indirect from Purchased Energy B3 Other Indirect C Changes in Carbon Storage D Changes in Avoided Emissions E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities Wastewater Treatment Facilities K Recycling of Fly Ash Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	В	Changes in Absolute Emissions			
B3 Other Indirect C Changes in Carbon Storage D Changes in Avoided Emissions E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	B1	Direct			
C Changes in Carbon Storage D Changes in Avoided Emissions E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	B2	Indirect from Purchased Energy			
D Changes in Avoided Emissions E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	В3	Other Indirect			
E Energy Generation and Distribution F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	С	Changes in Carbon Storage			
F Coal Mine Methane Gas Recovery G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	D	Changes in Avoided Emissions			
G Landfill Methane Recovery H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	Е	Energy Generation and Distribution			
H Geologic Sequestration I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	F	Coal Mine Methane Gas Recovery			
I Transmission and Distribution Improvements J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	G	Landfill Methane Recovery			
J Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities K Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	Н	Geologic Sequestration			
Wastewater Treatment Facilities Supply of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	I	Transmission and Distribution Improvements			
K Animal Waste to a Natural Gas Distribution Network L Recycling of Fly Ash M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	J				
M Demand-Side Management or Other Emission Reduction Programs N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	К	Animal Waste to a Natural Gas Distribution			
N Combined Heat and Power O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	L	Recycling of Fly Ash			
O Other Action-specific Methods O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	М				
O1 Direct O2 Indirect from Purchased Energy O3 Other Indirect	N	Combined Heat and Power			
O2 Indirect from Purchased Energy O3 Other Indirect	0	Other Action-specific Methods			
O3 Other Indirect	01	Direct			
	O2	Indirect from Purchased Energy			
P Subtotal (Sum rows A1 through O)	O3	Other Indirect			
	Р	Subtotal (Sum rows A1 through O)			

	1	2	3	4
	ı		ission Reduction	·
Item	Method/Source	Gross Reported Reductions	Reported Reductions Distributed to Other Reporters	Net Reported Reductions (Subtract column 3 from column 2)
	n Dioxide, Methane, Nitrous Oxide, Hydrofluor Joride (metric tons CO ₂ e)	ocarbons, Perf	luorocarbons, a	and Sulfur
Q	Offsets			
Q1	Offsets Obtained from Other Reporters			
Q2	Offsets Obtained from Non-reporters			
R	Subtotal (Sum rows P through Q2)			
S	Reduction Deficits Carried Over from Last Year's Report (From Schedule III, Section 2, Part A, Item T in Last Year's Report. If negative, enter value. If zero or positive, enter zero.)			
Т	TOTAL (Add row R to row S)			
U	Emission Reductions Also Registered as Emission Intensity Reductions			
	fluorocarbons (CFCs) (Kilograms of native gas ons in domestic emissions of more than one CFC		al copies of Part	A if reporting
V	Destruction of CFCs. Specify CFC:			
W	Reduction Deficit for this CFC Carried Over from Last Year's Report (From Schedule III, Section 2, Part A, Item X in Last Year's Report. If negative, enter value. If zero or positive, enter zero.)			
Х	TOTAL (Add row V to row W)			

Part B. Enter Foreign Net Entity-level Reported but not Registered Reductions and Carbon Storage

Storage		T -	T	· · · · · · · · · · · · · · · · · · ·
	1	2 Fm	ांssion Reductio	one 4
	Method/Source Dioxide, Methane, Nitrous Oxide, Hydrofluo	Gross Reported Reductions	Reported Reductions Distributed to Other Reporters	Net Reported Reductions (Subtract column 3 from column 2)
A	Changes in Emissions Intensity			
A1	Direct			
A2	Indirect from Purchased Energy			
A3	Other Indirect			
В	Changes in Absolute Emissions			
B1	Direct			
B2	Indirect from Purchased Energy			
В3	Other Indirect			
С	Changes in Carbon Storage			
D	Changes in Avoided Emissions			
Е	Energy Generation and Distribution			
F	Coal Mine Methane Gas Recovery			
G	Landfill Methane Recovery			
Н	Geologic Sequestration			
I	Transmission and Distribution Improvements			
J	Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities			
К	Supplu of Methane from Anaerobic Digestion of Animal Waste to a Natural Gas Distribution Network			
L	Recycling of Fly Ash			
М	Demand-Side Management or Other Emission Reduction Programs			
N	Combined Heat and Power			
0	Other Action-specific Methods			
01	Direct			
O2	Indirect from Purchased Energy			
O3	Other Indirect			
Р	Subtotal (Sum rows A1 through O)			
Q	Offsets			

	1	2	3	4
		_	ission Reduction	· ·
Item	Method/Source	Gross Reported Reductions	Reported Reductions Distributed to Other Reporters	Net Reported Reductions (Subtract column 3 from column 2)
	n Dioxide, Methane, Nitrous Oxide, Hydrofluor uoride (metric tons CO ₂ e)	ocarbons, Perf	luorocarbons, a	and Sulfur
Q1	Offsets Obtained from Other Reporters			
Q2	Offsets Obtained from Non-reporters			
R	Subtotal (Sum rows P through Q2)			
S	Reduction Deficits Carried Over from Last Year's Report (From Schedule III, Section 2, Part B, Item T in Last Year's Report. If negative, enter value. If zero or positive, enter zero.)			
Т	TOTAL (Add row R to row S)			
U	Emission Reductions Also Registered as Emission Intensity Reductions			
	fluorocarbons (CFCs) (Kilograms of native gas) ons in foreign emissions of more than one CFC.	Attach addition	al copies of Part	B if reporting
V	Destruction of CFCs. Specify CFC:			
W	Reduction Deficit for this CFC Carried Over from Last Year's Report (From Schedule III, Section 2, Part B, Item X in Last Year's Report. If negative, enter value. If zero or positive, enter zero.)			
Х	TOTAL (Add row V to row W)			

SCHEDULE IV. VERIFICATION AND CERTIFICATION

SECTION 1. INDEPENDENT VERIFICATION (To be completed by Independent Verifier)

If your report has been independently verified by a qualified verifier in accord with Section 300.11 of 10 CFR Part 300, Guidelines for Voluntary Greenhouse Gas Reporting, that verifier must complete Schedule IV, Section 1. Otherwise, please skip to Section 2 of Schedule IV, Reporter Self Certification.

1.		of Entity Report Ind			
2.	Describe the Ide	entity of the Indepen ng Company or Indiv	dent Verifier		
	Street:			P.O. E	Box:
	City:		S	tate:Zip: ַ	
	Contact Name:				
	Telephone: (Fav. (()	
	E-Mail Address	<i>/</i> :		\/	
3.	a. Corporate A Californ America CDM E: United I Internat Other, A	xecutive Board Kingdom Accreditational Standards Orgolease specify:	ck all that apply): egistry ds Institute and Re on Scheme lanization (ISO)	egistrar Accreditation E	, – ,
	b. Independer	t Verifier Personnel	Accreditation(s):		
	Name	Title	Relevant Degree	Accreditation	Meets Requirements of §300.11(b) of 10 CFR Part 300
		Lead Verifier			☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
	The indeper Strategic Ass Rev Rev Cor Rev State Rev State Rev Cor Rev State Rev Cor Rev Cor Rev Cor Rev Cor Rev Cor Rev Cor	c Review and Assessurance that all source view of greenhouse giview of greenhouse giview of data collection firmation of required dit view for accuracy, contempts sessment of any significance.	data on this form isment ces have been incigas data manager gas inventory train on quality assurant direcords maintenational training and couracy, internal cactivity data for a seminal couracy, internal cactivity data for a seminal couracy, internal cactivity data for a seminal cactivity data for a semina	ncluded the following and luded ment systems ing procedures be/quality control procedurce consistency with DOE entity boundaries onsistency and plausity sample of sources	edures guidelines of entity

 ☐ Field Audit ☐ Independent measurements at a sample of sources ☐ Independent measurement for all sources
Include the Certification of Independent Verification
We are an independent <i>verifier</i> of
This is to certify thathas had its greenhouse gas emissions report covering the periodtoverified according to the Voluntary Reporting of Greenhouse Gases Guidelines found in 10 CFR Part 300.11(d). We have found that the report meets the requirements of 10 CFR 300.11(e), including the following:

• The information reported on this form is accurate and complete;

4.

- The information reported on this form has been compiled in accordance with the Voluntary Reporting of Greenhouse Gases Guidelines found in 10 CFR Part 300;
- The information reported on this form is consistent with information submitted in prior years, if any, or any inconsistencies with prior year's information are documented and explained in Schedule I, Entity Statement;
- The reporting entity has taken due diligence to ensure that emissions, emission reductions, or sequestration reported in this EIA-1605(b) report are not double counted in this report, or reported by any other entity;
- For any emissions, emission reductions, or sequestration included in this report that were achieved by a third-party entity, there exists a written agreement with each third party indicating that it has agreed that the reporting entity should be recognized as the entity entitled to report these emissions, emission reductions, or sequestration;
- None of the emissions, emission reductions, or sequestration reported was produced by shifting emissions to other entities or to non-reporting parts of the entity;
- None of any reported changes in avoided emissions associated with the sale of electricity, steam, hot or chilled water generated from non-emitting or low-emitting sources are attributable to the acquisition of a generating facility that has been previously operated, unless the base year generation values are derived from records of the facility's operation prior to its acquisition; and
- The reporting entity will maintain sufficient records to document the analysis and calculations underpinning this verification for a period of no less than three years.

Lead Certifier of Verifying Firm (Print Name)	Lead Certifier of Verifying Firm (Signature)	Date
Corporate Officer of Verifying Firm (Print Name)	Corporate Officer of Verifying Firm (Signature)	Date

NOTE: 18 U.S.C. §1001 makes it a criminal offense for any person knowingly and willfully to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

SECTION 2. REPORTER SELF-CERTIFICATION

Signature: Date:

1.			ation to the best of my knowledge and belief that:
		Th	is form meets the following three requirements for reporting reductions.
		•	The information reported on this form is accurate and complete;
		•	The information reported on this form has been compiled in accordance with the Voluntary Reporting of Greenhouse Gases Guidelines found in 10 CFR Part 300; and
		•	The information reported on this form is consistent with information submitted in prior years, if any, or any inconsistencies with prior year's information are documented and explained in Schedule I, Entity Statement.
			is form meets the above three requirements for reporting reductions and the five additional quirements for registering reductions listed below.
		•	Reasonable steps have been taken to ensure that direct emissions, emission reductions, and/or sequestration reported are neither double counted nor reported by any other entity;
		•	Any emission reductions reported or registered by the entity that were achieved by another entity (other than a very small emitter that participated in a demand-side management program) are included in this report only if: the other entity does not intend to report or register theses reductions directly; there exists a written agreement with each other entity providing that the reporting entity is the entity entitled to report or register these emission reductions; and the information reported on the other entity would meet the requirements of this part if the entity were reporting directly to DOE/EIA.
		•	None of the emissions, emission reductions, or sequestration were produced by shifting emissions to other entities or to non-reporting parts of the entity;
		•	None of any reported changes in avoided emissions associated with the sale of electricity, steam, hot or chilled water generated from non-emitting or low-emitting sources are attributable to the acquisition of a generating facility that has been previously operated, unless the entity's base period includes generation values from the acquiring facility's operation prior to its acquisition; and
		•	The entity maintains records documenting the analysis and calculations underpinning the data reported on this form and records documenting the analysis and calculations underpinning the base values used in calculating annual reductions are maintained in accordance with 10 CFR 300.9(d).
Ceι Γitl	rtifyi e: _	ng (Official's Name:
Иα	iling		dress: eet or P.O. Box
		Cit	y: State: Zip Code:
Γel Ξ-N	eph //ail:	one	y: State: Zip Code: : ()
			

NOTE: 18 U.S.C. §1001 makes it a criminal offense for any person knowingly and willfully to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

Addendum A. Inventory of Foreign or Subentity Emissions

		ity:
This emissions inventory is for:	☐ Entity-wide foreign operations	□ A domestic or foreign subentity. Enter Name of Subentity

Complete part A if an independent third party has verified this report and you wish to report aggregated emissions by gas rather than source category. Otherwise, complete part B.

Part A. Aggregated Emissions by Gas (for independently verified reports only)

1. Ente	1. Enter Aggregated Emissions by Gas (for independently verified reports only)	endently	verified	l reports o	nly)					
-	2	3	4	2	9	7	8	6	10	11
				Bas	e Period E	Base Period Emissions or Carbon Flux	or Carbo	Flux ר	Reporting	
								Base Period	Year Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating*
٧	Direct Emissions									
A1	Carbon Dioxide	CO_2								
A2	Methane	CH4								
A3	Nitrous Oxide	N_2O								
A4	Sulfur Hexafluoride	SF ₆								
A5	HFC (Specify)									
A6	PFC (Specify)									
A7	CFC (Specify)									
Ф	Indirect Emissions from Purchased Energy (Inventory)									
B1	Carbon Dioxide	CO_2								
B2	Methane	CH⁴								
B3	Nitrous Oxide	N_2O								
ပ	Indirect Emissions from Purchased Energy (Reductions)									
ပ	Carbon Dioxide	CO_2								
C2	Methane	CH⁴								
C3	Nitrous Oxide	N_2O								
Ω	Carbon Flux	$\frac{1}{2}$								
Ш	Other Indirect Emissions									

-	2	3	4	2	9	7	8	6	10	11
				Ba	se Period	Base Period Emissions or Carbon Flux	or Carbo	n Flux	Reporting	
								Base Period	Year Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating*
F1	Carbon Dioxide	CO ₂								
F2	Methane	CH⁴								
F3	Nitrous Oxide	N_2O								
F4	Sulfur Hexafluoride	${\sf SF}_6$								
F5	HFC (Specify)									
F6	PFC (Specify)									
F7	CFC (Specify)									
g	Captured CO ₂ Sequestered in an onsite Geologic Reservoir	CO2								
т	Captured CO ₂ Transferred to Another Entity for Sequestration in a Geologic Reservoir	CO2								

*Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subentity, domestic or foreign.

Part B. Inventory of Domestic Emissions and Carbon Flux (optional for independently verified reports)

1. Enter Direct Emissions

Stationary Combustion (incorporate all emissions, including CO₂ captured from stationary combustion for geologic sequestration) a.

a. Stationally combustion (incorporate all emissions, incidually CO_2 captured from stationally combustion for geologic sequestialions)	שומיושלולילילילי	י מוו הווואאור	ביויטטיטיוו, אווס	プラシ こながら	וופת ווחוו אומ	מווסט לומוסט	של וכו ווכווצה	rought seques	וומושווי	
-	2	3	4	2	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
o o	9	- - - -	**	,	2,7	, , <u>, , , , , , , , , , , , , , , , , </u>	Base Period	Reporting Year	Estimation Method	D * 201
Fossil Fuel Combustion	SO	2	-	7	2	•	200		5	n S
	QH ⁷									
	N ₂ O									
Non-Standard Fuel	CO ₂									
Combustion	CH ₄									
	N_2O									
Waste Fuels Combustion	CO ₂									
	CH⁴									
	N_2O									
Biomass Combustion	CH⁴									
	N_2O									
Nonfuel Use of Fossil Fuels	CO ₂									
Subtotal	CO ₂ e									

^{*} Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subenitity, domestic or foreign.

b. Mobile Sources (incorporate all emissions, including CO₂ captured from mobile sources for geologic seguestration)

b. Mobile Sources (incorporate an emissions, including CO_2 captured norm mobile sources for geologic sequestration)	สเซ สม ซากรร	ions, inc	C_2 is C_2	captureu nor	n mobile sou	ices ioi geo	ıogıc seques	וושווטוו)		
1	2	3	4	2	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
							Base	Reporting	;	
Sollice	Sac.	o tic	, ,	۷, ۶	, ,	V. A	Average	Year Fmissions	Estimation Method	Rating*
Highway Vehicles	CO		-	:)				5	6
)))))	ŽĘ									
	2 S									
Off-Road Vehicles) S									
	CH ₄									
	N ₂ O									
Marine Vessels	COS									
	CH⁴									
	N ₂ O									
Aircraft	COS									
	CH⁴									
	N ₂ O									
Mobile Refrigeration and Air	HFC-134a									
Conditioning										
Subtotal	CO_2e									

* Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subenitity, domestic or foreign

c. Sector-Specific Industrial Process Emissions (incorporate all emissions, including CO_2 captured from industrial processes emissions for geologic sequestration)

1	2	က	4	2	9	7	80	6	10	11
					Base Period Emissions	sions				
Process/Fugitive	1	,					Base Period	Reporting Year	Estimation	; ;
Emissions	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	Rating*
				Industrial	Industrial Processes					
Adipic Acid production	N_2O									
Aluminum Production (CO ₂ only)	² O0									
Ammonia Production	CO ₂									
Cement Production	CO ₂									
Hydrogen Production	² O0									
Iron and Steel	CO ₂									
	CH⁴									
Lime Production	² 00									
Limestone and Dolomite Use	² 00									
Methanol Production	² 00									
Methane Emissions from the Production of Other Petrochemicals	CH4									
Nitric Acid Production	N ₂ O									
Soda Ash Production and Use	°CO									

^{*} Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subentity, domestic or foreign.

c. Sector-Specific Industrial Process Emissions (continued)

	2	က	4	2	9	2	8	6	10	1
					Base Period Emissions	sions				
Process/Fugitive Emissions	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating*
				Energy	rgy					ı
Coal Mines	CH ₄									
	CH⁴									
Oll and Ivatural Gas	CO_2									
2000000	N_2O									
				Waste Handling	andling					
Domestic and Industrial	CH ⁴									
wastewater Handling	OH,									
	!			High GWP Gases	P Gases					
Aluminum Production	PFCs)						
(specify gas)	${\sf SF}_6$									
HCFC-22 Production	HFC-23									
SF ₆ Emissions form Electrical Equipment	${\sf SF}_{\sf 6}$									
Industrial Use and Production of HFCs,	HFCs									
PFCs, and SF ₆ (for	PFCs									
specify gas)	${\sf SF}_6$									
Magnesium Production	SF_6									
Semiconductor	PFCs									
Manufacture (for HFCs	HFCs SF _s									
(200 f.:			Other	Other Industrial Process Sources	Process Sol	urces				
Other (for HFCs and	CO ₂									
PFCs, specify gas)	CH⁴									
)	N_2O									
1	SF_6									
1	PFCs									
	HFCs									
* Complete polyment 11 monitoring if this source of Addocadum A is being completed for pattern and consistence.	CO ₂ e	Thursday to			Signal object white	(i+0)	Slamon ton of			. v

* Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subentity, domestic or foreign.

d. Agricultural Sources (incorporate all emissions. including CO₂ captured from agricultural sources for geologic seguestration)

d. Agricultural sources (incorporate all emissions, including CO_2 captured from agricultural sources for geologic sequestration)	orporate al	'i emission.	s, inciuaing	CO_2 capture	ed Irom agrıc	ultural sour	ses ror geolo	gic sequestrat	ion)	
1	2	3	4	2	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
							Base Period	Reporting Year	Estimation	
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	Rating*
Enteric Fermentation	CH_4									
0,500,000,000,000,000,000,000,000,000,0	¢HO									
LIVESIOCA VVASIG	N_2O									
Boolding Burging	N_2O									
	CH ⁵									
Rice Cultivation – 1 st Harvest	CH⁴									
Rice Cultivation – 2 nd ("ratoon") harvest	CH⁴									
Agricultural Soils – Nitrogen Application	O ^z N									
Agricultural Soils – Organic Soils	N_2O									
Lime Application	CO ₂									
Cultivation of Organic Soils	CO ₂									
Other agricultural sources (specify source and gas):										
Subtotal	CO_2e									
	. 11 3.	1 0 3	V				-	1. 3. 77].

* Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subentity, domestic or foreign.

e. Fugitive Emissions Associated With Geologic Reservoirs

	11		Rating*	6														
	10		Estimation Method															
	6		Reporting Vear															
	8		Base Period	065														
	7	sions	VrA	:														
	9	Base Period Emissions	٧٢.3) :														
	2	Base	648	I :														
Reservoirs	4		7.7	:														
പരാധവുദ	ε		II A															
iated vviit	7		o C	255	CO ₂ e			CO_2e		0.00	OO2e			CO ₂ G			CO_2e	
e. Fugitive Emissions Associated With Geologic Reservoirs	-		asinos	Fucitive Emissions From	the Extraction of Naturally	Occurring CO ₂	Fugitive Emissions From	the Extraction of CO ₂ From	Anthropogenic Sources	Fugitive Emissions During	Transport and Processing	Fugitive Emissions During	Injection and Extraction for	Enhanced Resource	Recovery	Post-Injection Seepage	From Permanent Geologic	Storage Reservoir

**Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subenitiy, domestic or foreign.

f. Captured CO_2 Emissions from Anthropogenic Sources (captured CO_2 emissions should also be included as emissions in Questions 1a through 1d above).

-	2	3	4	2	9	2	8	6
			Base Peri	Base Period Average Quantity	uantity	Reportir	Reporting Year Quantity	antity
Source	Gas	Gas Unit of Measure	Onsite	Offsite	Total	Onsite Offsite Total	Offsite	Total
1. Stationary Combustion	CO_2e	metric tons						
2. Sector-Specific Industrial Process Emissions	CO_2e	metric tons						
3. Other (Mobile and Agricultural Sources)	CO_2e	metric tons						
Subtotals	CO_2e	metric tons						

2. Enter Indirect Emissions From Purchased Energy*

Physical Quantities of Energy Purchased *ц*

1	2	8	4	2	9	2	8	6
			Base F	Base Period Consumption	mption			
Source	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Consumption	System r Type/Fuel Used for Generation
Electricity								
Steam								
Hot Water								
Chilled Water								

 Emissions from Purchased Energy for Emissions inventory 	ed Errerg)		SIOUS ILIVELI	ory						
-	2	3	4	2	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
							Base Period	Reporting Year	Estimation	
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	Rating*
Electricity (for emissions	CO ₂									
inventory)	CH⁴									
	N_2O									
Steam	CO_2									
	CH⁴									
	N_2O									
Hot Water	CO_2									
	CH⁴									
	N_2O									
Chilled Water	CO_2									
	CH⁴									
	N_2O									
Total	CO_2e									
]

* Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subentity, domestic or foreign.

Emissions from Purchased Energy for Calculating Emissions Reductions in Addendum B (Not included in emissions inventory. Complete only if calculating reductions for this subentity using Addendum B1 or B2.) ပ

-	0	က	4	2	9	7	∞	6	10	Ξ
				Base	Base Period Emissions	sions				
							Base Period	Reporting Year E	Estimation	
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average		Method	Rating*
Electricity (for emissions	CO_2									
reductions)	CH⁴									
	N_2O									
Steam, Hot Water, and	CO_2									
Chilled Water**	CH⁴									
	N_2O									
Total	CO_2e									

^{*} Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subentity, domestic or foreign.
**Sum emissions reported for these sources in Question 2b above.

Other Indirect Emissions* က်

Other Indirect Emissions*										
1	2	3	4	2	9	7	8	6	10	11
				Base	Base Period Emissions	sions				
							Base Period	Reporting Year	Estimation	
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	Rating**
Employee Commuting										
Manufacture & Sale of										
Energy Efficient Products										
Consumption of Energy-										
intensive Products										
Other:										
Subtotal	CO_2e									

^{*}Do not include in emission inventory.
** Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subentity, domestic or foreign.

4. Enter Terrestrial Carbon Fluxes and Stocks

Forestry Activities

a. Forestry Activities								
1	2	3	4	2	9	7	8	6
				Carbon Stocks		Reporting		
			Base Period	Estimated Carbon Stocks in Year Prior to	Reporting Year Carbon	Year Stock Change or Carbon	Estimation	
Categories	Gas	Units	Average	Reporting Year		Flux ^{1,2}	Method ³	Rating*
Afforestation, Mine Land								
Reclamation, and Forest	CO							
Restoration								
Agroforestry	CO_2							
Forest Management ⁴	CO_2							
Short-rotation Biomass	CO.							
Energy Plantations	$\frac{1}{2}$							
Urban Forestry	CO_2							
Timber Harvesting ⁵	CO_2							
Other ⁶	CO_2							
Total	CO_2							

¹Carbon flux can be positive or negative; positive values indicate a net increase in terrestrial carbon stocks; negative values indicate a net loss of carbon to the atmosphere, i.e., emissions. Carbon flux may be calculated directly using flux based approaches or as the change in carbon stocks between the reporting year and the previous year.

²Reporters using methods that estimate carbon flux only should enter a carbon flux value in the column "Reporting Year Stock Change or Carbon Flux" and leave columns blank for Carbon Stock data.

³Methods include lookup tables, models, measurement, or a combination of these methods. If using a model, please indicate the name.

⁴Forest management includes management decisions taken at any stage of forest rotation. Forest preservation is a special case and is reported separately in Question 4c below.

⁵Activities such as thinning should be included under Forest Management.

⁶Other" includes activities not covered in the previous categories practiced by landowners that may result in changes in carbon fluxes or stocks.

* Complete column 9, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 9 if this copy of Addendum A is being done for a subentity, domestic or foreign.

Wood Products: <u>.</u>

Method 1: Track and report emissions in year they occur.

1	2	3	7	2	9	2	8
Category	Gas	Units	Estimated Carbon Stocks in Harvested Wood Products in Year Prior to Reporting Year	Estimated Carbon Stocks in Harvested Wood Products in Reporting Year	Reporting Year Stock Change	Estimation Method	Rating*
Wood Products	CO ₂						

* Complete column 8, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 8 if this copy of Addendum A is being done for a subentity, domestic or foreign.

Method 2: Estimate and report residual carbon after 100 years in reporting year :=

1 :00:00:		35500	יייים ויייסים ב: בסוויותנט מיום וסף ווייסיותמת סמיסיון מוסן זיסיו ווייסים ווייים איייין איייין אייייין אייייין			
-	2	က	4	5	9	7
Category	Gas	Units	Stock of Carbon in Harvested Wood	100 year Residual Carbon Stock	Estimation Method	Rating*
Wood products	CO ₂					

* Complete column 7, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 7 if this copy of Addendum A is being done for a subentity, domestic or foreign.

ပ

Land Restoration and Forest Preservation

□ Entity certifies that it has restored native habitat on land and placed administrative restrictions on the land to ensure that human-caused releases of carbon from the lands do not occur in the future.

8	Rating*					
7	Estimation Method					
9	50% of Carbon Stock Accumulated in 50 Years from Inception of Preservation Activity					
2	Units					
4	Area (Acres)					
3	Year Protected					
2	Type of Restriction (e.g., Easement, Deed Restrictions, etc.)					
1	Name/Description of Tract of Land	1.	2.	3.	4.	Total

" Complete column 8, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 8 if this copy of Addendum A is being done for a subentity, domestic or foreign.

Ö.

Forest Land That Experiences Carbon Losses From Natural Disturbances This table documents carbon stock changes on each tract of disturbed lands and should be used until carbon stocks reach pre-disturbance levels.

1	2	3	4	2	9	7	8	6	10	11
					0	Carbon Stocks				
Name/Description Tract of Land	Area (Acres)	Type of Disturbance	Year	Units	Base Period Average	Carbon Stocks in Year Before Disturbance	Reporting Year Carbon Stocks	Loss	Estimation Method	Rating*
1.										
2.										
3.										
4.										
Total										

* Complete column 11, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 11 if this copy of Addendum A is being done for a subentity, domestic or foreign.

Sustainably Managed Forests e.

1	2	8	4
Name/Description of Tract of Land	Area (Acres)	Has Sustainability Been Verified by Third Party Certifier (Y/N)	Identify System Used to Determine Sustainability
-			
2.			
3.			
4.			
Total			

f. Incidental Lands Excluded From Terrestrial Carbon Fluxes and Stocks in Question 4a

I. IIIOIGENIAI FANGACO I IOIN TENESTIAI CARSONI I IAVES ANA CIOCAS IN CACSNON TA	ווייסטס מוומ סנסכעס ווו פעסטוסו	٥ -	
-	2	8	
Name/Description of Tract of Land	Type of Land	Area (Acres)	
-			
2.			
3.			
4.			
Total			

		,						
1	2	3	4	2	9	7	8	6
				Carbon Stocks		Reporting		
			Base	Estimated Carbon Stocks in Year	_	Year Stock Change or		
Categories	Gas	Units	Period Average	Prior to Reporting Year	in Reporting Year	Carbon Flux ^{1,2}	Estimation Method ³	Rating*
Crops on Mineral Soils	CO							
Pasture/Grazing	CO ₂							
Land Use Change	CO ₂							
Other:	CO_2							
Total	CO ₂							

¹ Carbon flux can be positive or negative; positive values indicate a net increase in terrestrial carbon stocks; negative values indicate a net loss of carbon to the atmosphere, i.e., emissions. Carbon flux may be calculated directly using flux based approaches or as the change in carbon stocks between the reporting year and the previous year.

Reporters using methods that estimate carbon flux only should enter a carbon flux value in the column "Reporting Year Stock Change or Carbon Flux" and leave columns blank for

Carbon Stock data.

³ Methods include lookup tables, models, measurement, or a combination of these methods. If using a model, please indicate the name.
* Complete column 9, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 9 if this copy of Addendum A is being done for a subentity, domestic or foreign.

Terrestrial Carbon Flux Summary _

1	2	3	4	2
			Reporting Year Stock Change or Carbon	
Categories	Gas	Units	Flux	Rating*
Forestry Activities	CO_2			
Wood Products Method 1	CO ₂			
Wood Products Method 2	CO_2			
Land Restoration and Forest Preservation	CO_2			
Sustainably Managed Forests	CO_2			
Incidental Lands	CO_2			
Other Terrestrial Carbon Fluxes	CO_2			
Total Reporting Year Terrestrial Carbon Flux	co,			

* Complete column 5, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 5 if this copy of Addendum A is being done for a subentity, domestic or foreign.

Identify and Estimate De Minimis Emissions Sources

5. Identify and Est	5. Identify and Estimate De Minimis Emissions Sources	issions Sources	,	ı	(ı
1	2	3	4	5	9	7
De Minimis Emissions Type	De Minimis Emissions Source	Gas	Unit of Measure	Base Period Average De Minimis Emissions	Reporting Year De Minimis Emissions*	Year Last Estimated*
TOTAL		CO_2e	metric tons			

*De minimis emissions must be re-estimated after any significant increase in such emissions, or every five years, whichever occurs first.

Part C. Total Foreign or Subentity Emissions and Carbon Flux

1. Enter Total Emissions and Carbon Flux

	יי ביונכן י כומו ביוונסטטוס מומ כמוסטו י ימי							
	1	2	3	4	5	9	7	8
				Base	Base Period Emissions	issions		Reporting Year
		Gas/					Base Period	Emissions or
ltem	Source	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux
٨	Direct Emissions	mtCO ₂ e						
В	Indirect Emissions from Purchased Energy for Emissions Inventory	mtCO ₂ e						
O	Indirect Emissions from Purchased Energy for Calculation of Emission Reductions	mtCO ₂ e						
O	Total Emissions (A + B)*	mtCO ₂ e						
Ш	Carbon Flux	mtCO ₂ e						
Щ	Captured CO ₂ Sequestered in an Onsite Geologic Reservoir**	mtCO ₂ e						
g	Total Inventory Emissions (D – E – F)	mtCO ₂ e						
Н	Other Indirect Emissions	mtCO ₂ e						
_	Captured CO ₂ Transferred to Another Entity for Sequestration in a Geologic Reservoir**	mtCO ₂ e						
000	**************************************							

mtCO₂e = metric tons carbon dioxide equivalent *Do not include Indirect Emissions from Purchased Energy for Calculation of Emission Reductions (Item C) in Total Emissions. **Do not include CO₂ extracted and captured from natural sources or CO₂ recycled during enhanced resource recovery operations.

Addendum B1. Changes in Emissions Intensity

	•	J	s, Enter Name	or casone	···y·				
Pa	rt A. (Output							
1.	Ente	er Physical, Ec	onomic, or Ind		ut Measure		ase Period a	and Reporti	
		1	2	3	4	5 D owies	6	7	8
		Output	Unit of			Base Period			Reporting
li	tem	Measure	Measure	Yr 1	Yr 2 ysical Mea	Yr 3	Yr 4	Avg.	Year
	Α				yorour mou				
				Eco	nomic Mea	asure			
	В		Current \$						
			Constant						
	С		Year						
			(\$2000)	Inc	lexed Meas	SUITE			
	D		[Physical or		loxou mou				
			Economic]						
2.	Rea: □ In	son Why Alter	tput Measure I native Measur roup standard reports	e Was Sele	ected (checorted to sta	k all that ap			2), Indicate
3.		ne and Descril ected:	be the Output	Measure U	sed and Pr	ovide a Ra	tionale for V	Vhy the Me	asure Was

Part B. Emissions, Emissions Intensity, and Emission Reductions

1. Enter Base Period and Reporting Year Emissions (metric tons CO₂e) 3 4 Indirect **Emissions** from Other Direct **Purchased** Indirect Item Description Emissions* Energy* **Emissions** Base Period Emissions Ε Reporting Year Emissions *Include CO₂ captured and sequestered in geologic reservoirs. **Calculate indirect emissions from purchased electricity using electricity end use factors for emission reductions from Appendix F. 2. Calculate and Enter Base Period and Reporting Year Intensity (metric tons CO2e per unit of output) Indirect **Emissions** from Other Direct **Purchased** Indirect Item **Emissions** Description **Emissions Energy** Base Period Intensity (E / (A7, C7, or D7)) Reporting Year Intensity (F / (A8, C8, or D8)) 3. Calculate and Enter Emission Reductions (metric tons CO2e) 3 Source of Reductions Indirect **Emissions** Other from **Direct Purchased** Indirect Description **Item Emissions* Emissions Energy** Emission Reductions ((G - H) * A8, C8, or D8) *Reductions of Other Indirect Emissions may not be registered. 4. Identify Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M] Describe Actions That Were the Likely Causes of the Reductions Achieved:

6.	Identify Cause(s) of the Emission Reduction(s) (check all that apply): ☐ Voluntary action ☐ Plant closing ☐ Government requirement ☐ Federal requirement ☐ State requirement ☐ Local requirement
7.	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part C. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1 1	2	3	4	5
Name of Recipient	Emissions Type*	Gas	Units	Amount
		CO ₂ e	metric	
		0020	tons	
		CO ₂ e	metric	
		0026	tons	
		CO ₂ e	metric	
		0026	tons	
		CO₂e	metric	
		0020	tons	
Total Direct Emission Reductions		CO ₂ e	metric	
Total Direct Ellission Headctions		0026	tons	
Total Indirect Emission Reductions		CO ₂ e	metric	
from Purchased Energy		00 ₂ e	tons	
Total Other Indirect Emission		CO ₂ e	metric	
Reductions		0026	tons	

^{*}Direct, Indirect from Purchased Energy, Other Indirect.

Addendum B2. Changes in Absolute Emissions

gre	ater t	than the Base	Method to Reg Period output.			permig rea			
Pa	rt A. (Output							
1.	Ente	er Physical, Ec	onomic, or Inde	xed Output	t Measures	for Base F	Period and	Reporting 7	Year 8
	Rase Period						, ,		
lt	em	Output Measure	Unit of Measure	Yr 1	Yr 2	Yr 3	Yr 4	Avg.	Reporting Year
			1	Phys	ical Meas	ure	<u> </u>	1	
	Α								
				Econo	pmic Meas	sure	ı	1	
	В		Current \$						
	С		Constant						
			Year (\$2000)	Inde	∣ xed Meası	ure			
	D		[Physical or Economic]						
3. 4.	☐ Yes (Skip Question 4 and go to question 5) ☐ No (Go to Question 4)								
5.	the I	Reason Why A	tput Measure No Alternative Meas roup standard reports	ure Was S	elected (cl	neck all tha	t apply):		.2), Indicate
6.		ne and Describ	oe the Output M	easure Us	ed and Pro	ovide a Rat	ionale for V	Vhy the Me	easure Was

Part B. Emissions and Emission Reductions

1. Er	nter Emissions and Calculate Emission Reductions (metric tons CO ₂ e	e)	
	1	2	3	4
		Soi	urce of Emission	ns
			Indirect	
			Emissions	Other
		Direct	from Purchased	Other Indirect
Item	Description	Direct Emissions*	Energy**	Emissions
E	Base Period	Lilliggions	Lifergy	Lillissions
F	Reporting Year			
G	Registered Emission Reductions (E – F)			
H	Reported Emission Reductions (E – F)			
	• CO ₂ captured and sequestered in geologic reservoirs (onsite and	d offsite).		
**Calcul	ate indirect emissions from purchased electricity using electricity	end use factors for e		
	entify Types of Actions That Were the Likely Cause of Pendix M]	of the Reduction	s Achieved [En	ter codes from
3. De	escribe Actions That Were the Likely Causes of the F	Poduotions Achie	avod:	
3. De	escribe Actions That were the Likely Gauses of the r	Teductions Acrile	eveu.	
4 lal.	antify the Course(s) of the Emissien Deduction(s) (ch	ماد ماا المعد مصماه	λ.	
	entify the Cause(s) of the Emission Reduction(s) (ch	еск ан тат арргу	/):	
	Voluntary action			
	Plant closing			
Ц	Government requirement			
	☐ Federal requirement			
	☐ State requirement			
	☐ Local requirement			
	ımmarize Benefits and Costs of the Actions Taken to ptional):	Reduce Green	house Gas Emi	ssions
, ,	1			

Part C. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1	2	3	4	5
Name of Recipient	Emissions Type*	Gas	Units	Amount
		CO₂e	metric	
		0026	tons	
		CO₂e	metric	
		0026	tons	
		CO₂e	metric	
		0026	tons	
		CO₂e	metric	
		0026	tons	
Total Direct Emission Reductions		CO₂e	metric	
		0026	tons	
Total Indirect Emission Reductions from		CO₂e	metric	
Purchased Energy		0020	tons	
Total Other Indirect Emission		CO ₂ e	metric	
Reductions		CO ₂ e	tons	

^{*}Direct, Indirect from Purchased Energy, Other Indirect.

Addendum B3. Changes in Carbon Storage

If Reporting Subentities, Enter Name of Subentity:										
Part A. Terrestrial Carbon Flux										
Enter Reporting Year Inventory of Terrestrial Carbon Flux										
Item	1 Categories	2 Units of Measure	Reporting Year Stock Change or Carbon Flux*							
Α	Forestry Activities	metric tons								
	1 diestry Activities	CO₂e								
В	Wood Products – Method 1	metric tons CO ₂ e								
С	Wood Products – Method 2	metric tons CO ₂ e								
D	Land Restoration and Forest Preservation	metric tons CO ₂ e								
E	Sustainably Managed Forests	metric tons CO₂e								
F	Incidental Lands	metric tons CO ₂ e								
G	Other Terrestrial Carbon Fluxes	metric tons CO ₂ e								
Н	Total Reporting Year Terrestrial Carbon Flux	metric tons CO ₂ e								
*From S subentity	chedule I, Section 2, Part B, Question 4, if reporting for entity only. Fr	rom Addendum A, Par	t B, Question 4, if reporting for a							
	entify Types of Actions That Were the Likely Cause of the opendix M]	e Reductions Ach	nieved [Enter codes from							
3. De	escribe the Actions That Were the Likely Causes of the F	Reductions Achiev	/ed:							
	entify the Cause(s) of the Emission Reduction(s) <i>(check</i> Voluntary action Plant closing Government requirement □ Federal requirement □ State requirement □ Local requirement	all that apply):								

5.	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part B. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
	TOTAL	CO ₂ e	metric tons	

Ad	de	ndum B4.	Change	es ir	ı Avo	ide	d En	nis	sions	•					
If R	If Reporting Subentities, Enter Name of Subentity:														
Coi	Complete one copy of Addendum B4 for each energy product sold.														
Par	t A	. Generated	Energy S	our	e and	Cha	racte	eris	tics						
1.	ac	Did the Entity or Subentity Emit Greenhouse Gases in the Base Period (including any capacity acquired since the Base Period)? ☐ Yes (If Yes, you must estimate reductions using Addendum B5, Emission Reductions from Energy Generation and Distribution) ☐ No													
2.		Has the Entity or Subentity Acquired or Divested Generation Capacity Since the Base Period? ☐ Yes (Go to Question 3) ☐ No (Go to Question 4)													
3.	Was the Acquired or Divested Capacity Operational During the Base Period for the Entity or Subentity? ☐ Yes (If Yes, you must adjust Base Period generation to reflect any capacity that was acquired or divested) ☐ No														
4.		☐ Hot water													
		. Energy Gen										l Emissi	on Redı	uctions	
			,		1		,					2			3
Ite:		Base Period	Enoraly S		criptio	n					Un	its of M	leasure	G	uantity
<u></u>		Reporting Ye			sions										
C						1									
D	1 0 07														
E	Reporting Year Energy Sold														
	F Reporting Year Incremental Energy Sold (E-A)														
G	Avoided Emissions Intensity Benchmark														
Н		Emission Red	duction ((G - D) * F)						m	etric ton	s CO ₂ e		
2.		entify Types of opendix M]	Actions	That	Were t	the Li	ikely	Cai	use of	the	Reduct	ions Ac	hieved [Enter o	codes from

3.	Describe Actions That Were the Likely Causes of the Reductions Achieved:
4.	Identify the Cause(s) of the Emission Reduction(s) (check all that apply): ☐ Voluntary ☐ Plant closing ☐ Government requirement ☐ Federal requirement ☐ State requirement ☐ Local requirement
5.	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part C. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO₂e	metric tons	
TOTAL	CO₂e	metric tons	

Adde	endum B5. Emission Reductions from Energy	Generation and I	Distribution					
If Rep	orting Subentities, Enter Name of Subentity:							
Complete one copy of Addendum B5 for each energy product sold.								
Part A	. Energy Generation and Emissions							
	nergy Product Type Exported (check one) Electricity Steam Hot water Chilled water issions, Energy Generation, and Emissions Intensity		3					
Item	Description	Units of Measure	Quantity					
A	Base Period Emissions	metric tons CO ₂ e	Quantity					
В	Base Period Exported Energy	MWh or MMBtu						
С	Base Period Emissions Intensity (A/B)							
D	Reporting Year Emissions	Metric tons CO ₂ e						
E	Reporting Year Exported Energy	MWh or MMBtu						
F	Reporting Year Emissions Intensity (D/E)							
G	Reporting Year Incremental Exported Energy (E - B)	MWh or MMBtu						
Н	Avoided Emissions Benchmark							
	s. Emission Reductions alculate and Enter Emission Reductions	2	3					
Item	Description	Units of Measure	Quantity					
I	Emission Reductions from Improvements in Historical Emissions Intensity [(C - F) * B]	metric tons CO ₂ e						
J	Emission Reductions from Incremental Exported Energy [(H - F) * G]	metric tons CO ₂ e						
K	Total Emission Reductions from Energy Generation and Exports (I + J)	metric tons CO ₂ e						
	entify Types of Actions That Were the Likely Cause(s) of the or Appendix M]	e Reductions Achieved	l [Enter codes					

3.	Describe the Actions That Were the Likely Causes of the Reductions Achieved:
4.	Identify the Cause(s) of the Emission Reduction(s) (check all that apply): Voluntary Plant closing Government requirement Federal requirement State requirement Local requirement
5.	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part C. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO_2e)

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO₂e	metric tons	
	CO₂e	metric tons	
	CO₂e	metric tons	
	CO ₂ e	metric tons	
TOTAL	CO₂e	metric tons	

Addendum B6. Reductions from Coal Mine Methane Recovery

If Reporting Subentities, Enter Name of Subentity:	
Part A. Action Identification	

1. Enter Location of Coal Mine(s):

1	2	3	4
Name		Location	
	City	State (if domestic subentity)	Country (if foreign subentity)

2.	Enter Date Methane Recovery Began:	Month	Year
3.	Describe Action:		
4.	Was the Action Reported Last Year?		

Part B. Action Quantification

□ No

☐ Yes

1. Enter Action Characteristics

1	2	3	4
Coal Mine Name	Seam Affected	Month Cut Through	Year Cut Through

2. Enter Volume of Gas Captured by Source and Disposition (Mscf)

Enter Volume of Gas Captured by Source and Disposition (Mscf)						
1	2	3	4	5	6	7
Base Period						
					Base	
					Period	Reporting
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Average	Year
	DEGASIF	ICATION DU	IRING MININ	G		
	V	entilation Sy	stems			
Flared						
Electricity used onsite						
Electricity sold to grid						
Injected into pipeline						
Direct use onsite						
Total Ventilation Systems						
	Other I	Degasification	on Methods			
Flared						
Electricity used onsite						
Electricity sold to grid						
Injected into pipeline						
Direct use onsite						
Total Other Degasification						
	PRE-MI	NING DEGA	SIFICATION			
Flared						
Electricity used onsite						
Electricity sold to grid						
Injected into pipeline						
Direct use onsite						
Total Pre-Mining Degasification						
Total All Methods		·		-		<u> </u>

3. Enter Average Heat Content of Gas Captured (Btu/scf)

1	2	3	4	5	6	7
	Base Period					
					Base	
					Period	Reporting
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Average	Year
	DEGASII	FICATION DU	JRING MININ	G		
	V	entilation Sy	/stems			
Flared						
Electricity used onsite						
Electricity sold to grid						
Injected into pipeline						
Direct use onsite						
	Other	Degasificati	on Methods			
Flared						
Electricity used onsite						
Electricity sold to grid						
Injected into pipeline						
Direct use onsite						
	PRE-M	INING DEGA	SIFICATION			
Flared						
Electricity used onsite						
Electricity sold to grid						
Injected into pipeline						
Direct use onsite						

4. Enter Total Energy Content of Gas Captured and Combusted (MMBtu)

4. Enter Lotal Energy Content	oi Gas Cap		ombusieu (N		1 -	_
1	2	3	4	<u>5</u>	6	7
		T	Base Period	1	T	
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year
			RING MINING		7110.ugo	
		entilation Sy		-		
Flared						
Electricity used onsite						
Electricity sold to grid						
Injected into pipeline						
Direct use onsite						
	Other	Degasification	n Methods			
Flared						
Electricity used onsite						
Electricity sold to grid						
Injected into pipeline						
Direct use onsite						
	PRE-M	INING DEGA	SIFICATION			
Flared						
Electricity used onsite						
Electricity sold to grid						
Injected into pipeline						
Direct use onsite						
Total						

5. Enter Mass of Methane Captured (metric tons CO₂e)

1	2	3	4	5	6	7
	Base Period					
					Base	
					Period	Reporting
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Average	Year
Total Methane Captured						

Part C. Emission Reductions

1. Calculate Changes in Methane Capture

	1	2	3
Item	Description	Units of Measure	Quantity
Α	Average Annual Quantity of Methane Captured in Base Period	metric tons CO₂e	
В	Methane Captured in Reporting Year	metric tons CO₂e	
С	Change in Methane Captured (B – A)	metric tons CO ₂ e	

2. Calculate Changes in Disposition of Electricity Generation from Captured Methane (MWh)

	alodiate onanges in Disposition of Er	outhorty of	on or anon	nom cap	taroa mot	name (mirring	
	1	2	3	4	5	6	7
				Base Peri	od		
Item	Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year
D	Electricity Used Onsite						
E	Electricity Sales						
F	Total Generation						

3. Calculate Carbon Dioxide Displaced from Electricity Used Onsite (avoided emissions)

	1	2	3
Item	Description	Units of Measure	Quantity
G	Base Period Average Electricity Used Onsite	MWh	
Н	Reporting Year Electricity Used Onsite	MWh	
I	Reporting Year Incremental Electricity Used Onsite (H – G)	MWh	
J	Reporting Year Total Emissions from Electricity Used Onsite*	metric tons CO ₂ e	
K	Reporting Year Emissions Intensity of Electricity Used Onsite (J/H)	metric tons CO ₂ e /MWh	
L	Avoided Emissions Benchmark	metric tons CO ₂ e /MWh	
М	Emission Reductions ((L - K) * I)	metric tons CO ₂ e	

^{*}Include emissions from supplemental fossil fuel use only.

4. Calculate Carbon Dioxide Displaced from Electricity Sales (avoided emissions)

	1	2	3
Item	Description	Units of Measure	Quantity
N	Base Period Average Electricity Sold	MWh	
0	Reporting Year Electricity Sold	MWh	
Р	Reporting Year Incremental Electricity Sold (O – N)	MWh	
Q	Reporting Year Total Emissions from Electricity Sold	metric tons CO₂e	
R	Reporting Year Emissions Intensity of Electricity Sold (Q/O)	metric tons CO ₂ e /MWh	
S	Avoided Emissions Benchmark	metric tons CO ₂ e /MWh	
Т	Emission Reductions ((S – R) * P)	metric tons CO2e	

5. Calculate Carbon Dioxide Emissions from Flaring

	1	2	3
Item	Description	Units of Measure	Quantity
U	Base Period Average Methane Flared	MMBTU	
V	Reporting Year Methane Flared	MMBTU	
W	Incremental Methane Flared (V – U)	MMBTU	
Х	Change in Carbon Dioxide Emissions from Flaring	metric tons CO₂e	

6. Summarize Emission Reductions

	1	2	3	4	5
		Units of	Emi	ssion Reduct	ions
Item	Description	Measure	Direct	Avoided	TOTAL
Υ	Change in Methane Captured and	metric tons			
	Combusted	CO₂e			
Z	Carbon Dioxide Displaced from	metric tons			
	Electricity Used Onsite	CO₂e			
AA	Carbon Dioxide Displaced from	metric tons			
	Electricity Sales	CO₂e			
BB	Carbon Dioxide Emissions from	metric tons			
	Flaring	CO₂e			
CC	Net Change in Greenhouse Gas	metric tons			
	Emissions (Y + Z + AA – BB)	CO ₂ e			

7.	Identify Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]
8.	Describe Actions That Were the Likely Causes of the Reductions Achieved:
9.	Identify Cause(s) of the Emission Reduction(s) (check all that apply): ☐ Voluntary action ☐ Plant closing ☐ Government requirement ☐ Federal requirement ☐ State requirement ☐ Local requirement
10.	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part D. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
TOTAL	CO ₂ e	metric tons	

Addendum B7. Landfill Methane Recovery

If Reporting Subentities, Enter Name of Sube	pentity:

Part A. Action Identification

1. Enter Location of Landfill(s):

1. Enter Education of Eartenings).	2	3	4	
	Location			
Name	City	State (if domestic subentity)	Country (if foreign subentity)	

2.	Enter Date Methane Recovery Began:	Month	Year
3.	Describe Action:		

4. Was the Action Reported Last Year?

	Yes	No
ш	165	

Part B. Action Quantification

1. Enter Action Characteristics

1	2	3	4	5
Name of Landfill Affected	Year Opened	Year Closed	Year Gas Recovery Installed	Waste in Place (MMT)

2. Enter Volume of Landfill Gas Captured by Disposition (Mscf)

1	2	3	4	5	6	7
			Base Per	iod		
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year
Flared						
Electricity used onsite						
Electricity sold offsite						
Injected into pipeline						
Direct use onsite						
Direct use offsite						
Total						

3. Enter Average Heat Content of Gas Captured (Btu/scf)

1	2	3	4	5	6	7
			Base Period	d		
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year
Flared						
Electricity used onsite						
Electricity sold offsite						
Injected into pipeline						
Direct use onsite						
Direct use offsite						

4. Enter Total Energy Content of Gas Captured and Combusted (MMBtu)

4. Enter Total Energy Content of Gas Captured and Combusted (MMbtu)							
1	2	3	4	5	6	7	
			Base Period	i			
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year	
Flared							
Electricity used onsite							
Electricity sold offsite							
Injected into pipeline							
Direct use onsite							
Direct use offsite							
Total							

5. Enter Mass of Methane Captured (metric tons CO₂e)

1	2	3	4	5	6	7
			Base Period	d		
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year
Flared						
Electricity used onsite						
Electricity sold offsite						
Injected into pipeline						
Direct use onsite						
Direct use offsite						
Total						

Part C. Emission Reductions

1. Calculate Changes in Methane Capture

	1	2	3
Item	Description	Units of Measure	Quantity
Α	Average Annual Quantity of Methane Captured in Base Period	metric tons CO ₂ e	•
В	Methane Captured in Reporting Year	metric tons CO₂e	
С	Change in Methane Captured (B – A)	metric tons CO ₂ e	

2. Calculate Changes in Disposition of Electricity Generation from Captured Methane (MWh)

	mediate enangee in Biopecition en		0.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ap (6) 00 111	011101110 (11111	,
	1	2	3	4	5	6	7
				Base Peri	iod		
Item	Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year
D	Electricity Used Onsite						
Е	Electricity Sales						
F	Total Generation						

3. Calculate Carbon Dioxide Displaced from Electricity Used Onsite (avoided emissions)

	1	2	3
Item	Description	Units of Measure	Quantity
G	Base Period Average Electricity Used Onsite	MWh	
Н	Reporting Year Electricity Used Onsite	MWh	
I	Reporting Year Incremental Electricity Used Onsite (H – G)	MWh	
J	Reporting Year Total Emissions from Electricity Used Onsite *	metric tons CO ₂ e	
K	Reporting Year Emissions Intensity of Electricity Used Onsite (J/H)	metric tons CO ₂ e /MWh	
L	Avoided Emissions Benchmark	metric tons CO ₂ e /MWh	
М	Emission Reductions ((L - K) * I)	metric tons CO ₂ e	

^{*}Include emissions from supplemental fossil fuel use only.

4. Calculate Carbon Dioxide Displaced from Electricity Sales (avoided emissions)

	1	2	3
Item	Description	Units of Measure	Quantity
N	Base Period Average Electricity Sold	MWh	
0	Reporting Year Electricity Sold	MWh	
Р	Reporting Year Incremental Electricity Sold (O – N)	MWh	
Q	Reporting Year Total Emissions from Electricity Sold*	metric tons CO₂e	
R	Reporting Year Emissions Intensity of Electricity Sold (Q/O)	metric tons CO ₂ e /MWh	
S	Avoided Emissions Benchmark	metric tons CO ₂ e /MWh	
Т	Emission Reductions ((S - R) * P)	metric tons CO ₂ e	

^{*}Include emissions from supplemental fossil fuel use only

5. Calculate Carbon Dioxide Displaced by Methane Supplied to a Natural Gas Distribution Network

	1	2	3
Item	Description	Units of Measure	Quantity
U	Base Period Average Methane Supplied to a Natural Gas Distribution Network	MMBTU	
V	Reporting Year Methane Supplied to a Natural Gas Distribution Network	MMBTU	
W	Incremental Methane Supplied to a Natural Gas Distribution Network (V-U)	MMBTU	
Х	Methane Emissions Factor	metric tons CO ₂ e/MMBtu	
Y	Change in Carbon Dioxide Emissions from Methane Supplied to a Natural Gas Distribution Network (W * X)	metric tons CO ₂ e	

6. Summarize Emission Reductions

	1	2	3	4	5	6
		Units of		Emission I	Reductions	
Item	Description	Measure	Direct	Indirect	Avoided	TOTAL
Z	Change in Methane Captured and	metric tons				
	Combusted	CO ₂ e				
AA	Carbon Dioxide Displaced from	metric tons				
AA	Electricity Used Onsite	CO₂e				
BB	Carbon Dioxide Displaced from	metric tons				
ВВ	Electricity Sales	CO₂e				
	Carbon Dioxide Displaced by	metric tons				
CC	Methane Supplied to a Natural	CO ₂ e				
	Gas Distribution Network					
DD	Net Change in Greenhouse Gas	metric tons				
טט	Emissions (Z + AA + BB + CC)	CO ₂ e				

7.	Identify Types of Actions that Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]
8.	Describe the Actions that Were the Likely Causes of the Reductions Achieved:
Ω.	Identify the Cause(s) of the Emission Reduction(s) (check all that apply):
9.	Identify the Cause(s) of the Emission Reduction(s) <i>(check all that apply)</i> : Use Voluntary action
	□ Plant closing
	☐ Government requirement ☐ Federal requirement
	☐ State requirement
	□ Local requirement

10. Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part D. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
	TOTAL	CO₂e	metric tons	

Addendum B8. Geologic Sequestration

If Reporting Subentities	s, Enter Name of Sub	entity:			
Part A. Action Identif	ication				
1. Enter Name and Loc	cation of CO ₂ Injection	Project:			
1	2	3	4	5	6
	Locati	ion			Wells
					Sealed
			Storage		or Plan
		State	Onsite?	If Onsite,	to Seal
Name	City	or Country	(Y/N)	Agreement?	Wells?
	,	,	,	<u> </u>	
2. Enter the Date CO ₂	Injection Began: Mont	th	Year		
3. Describe the Action:	:				
4. Was the Action Rep ☐ Yes ☐ No	orted Last Year?				
5. Is the Reporting En ☐ Yes ☐ No	tity Responsible for th	e Injection of CO ₂	Into a Permaner	nt Storage Reser	voir?
6. If the Answer to Qu Sequestering Party All ☐ Yes ☐ No	owing the Reporter to	he Reporter Have Claim the Reducti ble, explain:	ions?		

Part B. Action Quantification

1. Enter Source of Carbon Dioxide Sequestered in Current Reporting Year (metric tons CO₂e)

	1	2	3	4	5	6
			CO ₂	CO ₂ Acquired	Total CO ₂	
			Extracted/	Via Transfer	Captured or	Name of
Item	Name of Source	Location of Source	Captured	or Purchase	Acquired	Storage Site
Α			-		-	_
В						
С						
D						
E						
F	Totals (sum o	f items A-E)				

2. Enter Amount Sequestered in Current Reporting Year (metric tons CO₂e)

	1	2	3	4	5	6	7
		Location			Post-Injection Leakage/Seepage During Current Reporting Year		Total CO ₂
Ite	Name of Storage	of Storage	Enhanced Resource	CO ₂ Injected in Current	Monitoring		Sequestered in Current Reporting
m	Site	Site	Recovery?	Reporting Year	Method	Quantity	Year
	CO₂ Sequestered by Reporting Entity						
G			Yes/No				
Н			Yes/No				
ı			Yes/No				
	CO₂ Sequestered by Third Party						
J			Yes/No				
K			Yes/No				
L			Yes/No				
М	Totals	s (sum of ite	ms G-L)				

3. Enter Amount Sequestered in Base Year (metric tons CO₂e)

	1	2	3	4	5	6	7	
	Name of	Location	Enhanced		Post-Injection Lea During Ba		Total CO₂	
Item	Storage Site	of Storage Site	Resource Recovery?	Amount Injected in Base Year	Monitoring Method	Quantity	Sequestered in Base Year	
			CO	O₂ Sequestered by Re	eporting Entity			
N			Yes/No					
0			Yes/No					
Р			Yes/No					
				CO2 Sequestered by	Third Party			
Q			Yes/No					
R			Yes/No					
S			Yes/No					
Totals (sum of items N-S)								

Part C. Emission Reductions

1. Calculate Emission Reductions

	1	2	3
Item	Description	Unit of Measure	Quantity
U	Emission Reductions (M7-T7)	metric tons CO ₂ e	

ne Reductions Achieved [Enter codes tro	ਮ the Red	Cause	LIKEIY	ere the	inat w	Actions	s ot	ту гурез	iaen	2.
								endix M]	Арре	
							JL			

3.	Describe Actions That Were the Likely Causes of the Reductions Achieved:
4.	Identify the Cause(s) of the Emission Reduction(s) (check all that apply): Voluntary action Plant closing Government requirement Federal requirement State requirement Local requirement
5.	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part D. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO₂e	metric tons	
TOTAL	CO ₂ e	metric tons	

Addendum B9. Electricity Transmission and Distribution Improvements

If R	f Reporting Subentities, Enter Name of Subentity:					
Par	t A. Action Identification					
1.	Date Action Was Initiated: Month Year					
2.	Did You Report Transmission and Distribution Improvements Last Year? ☐ Yes ☐ No					
3.	Are You Reporting as a Control Area or as a Member of a Control Area? ☐ Yes ☐ No					

Part B. Activity Data

1. Enter Activity Data

	1	2	3
	<u>'</u>	Units of	<u> </u>
		Measure	
Item	Description	(kWh or kVAh)	Quantity
	Base Period	,	
Α	Electricity Entering T&D System From Own Generation		
В	Electricity Delivered Through T&D System to End Users (NOTE: Should Equal Total Wholesale and Retail Sales)		
С	Electricity Imported into T&D System		
D	Electricity Exported from T&D System		
E	Net Imports of Electricity (C – D)		
F	Actual Net Interchange (ANI) If Reporting on Control		
Г	Area Basis		
G	Loss Ratio $(A + E - B)/(A + E)$ or $(A - (B + F))/(A - F)\uparrow$		
	Reporting Year		
Н	Electricity Entering T&D System from Own Generation		
ı	Electricity Delivered Through T&D System to End Users (NOTE: Should Equal Total Wholesale and Retail Sales)		
J	Electricity Imported into T&D System		
K	Electricity Exported from T&D System		
L	Net Imports of Electricity (J-K)		
М	Actual Net Interchange (ANI) If Reporting on Control		
	Area Basis		
N	Loss Ratio $(H + L - I)/(H + L)$ or $(H - (I + M))/(H - M)\uparrow$		
0	Change In Loss Intensity $(G-N)$ * $(H+L)$ or $(G-N)$ * $(H-M)$ †	kWh or kVAh	

[↑]Use second equation if reporting on a control area basis

Part C. Emission Reductions

1. Calculate Emission Reductions

	1	2	3
Item	Description	Units of Measure	Quantity
Р	U.S. Avoided Emissions Benchmark for Electricity	metric tons CO ₂ e/MWh	
Q	System Power Factor (If Loss Intensity Calculated In kVAh)		
R	Total Emission Reductions [(O * P) / 1000] or [(O * (P * Q))/1000]↑	metric tons CO₂e	
S	Direct Emission Reductions [R * (I/(I + L))]	metric tons CO ₂ e	
Т	Avoided Emissions (from Avoided Electricity Imports) [R * (L/(I + L))]	metric tons CO ₂ e	

S	Direct Emission Reductions [R ^ (I/(I + L))]	metric tons CO ₂ e	
Т	Avoided Emissions (from Avoided Electricity Imports) [R * (L/(I + L))]	metric tons CO₂e	
†Use s	econd equation if calculating losses in kVAh		
	lentify Types of Actions That Were the Likely Cause of the Reppendix M]	eductions Achieved [Enter codes from
3. D	escribe the Actions That Were the Likely Causes of the Redu	uctions Achieved:	
4. ld	Plant closing	hat apply):	
	ummarize Benefits and Costs of the Actions Taken to Reduce optional):	e Greenhouse Gas E	imissions

Part D. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO_2e)

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
TOTAL	CO ₂ e	metric tons	

Addendum B10. Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities

If F	Reporting Subentities, Enter Na	me of Subentity:		
Pa	rt A. Action Identification			
1.	Enter Locations of Wastewate	r Treatment Facilities:		
	1	2	Location 3	4
	Name	City	State (if domestic subentity)	Country (if foreign subentity)
2.	Enter Date Anaerobic Digeste			
4.	Was the Action Reported Last ☐ Yes ☐ No	: Year?		

Part B. Action Quantification

1. Enter Volume of Gas Captured and Disposition (Mscf)

1	2	3	4	5	6	7		
		Base Period						
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year		
Flared								
Electricity generation								
Injected into pipeline/sale to supply network								
Direct use onsite								
Direct use offsite								
Total								

2. Enter Average Heat Content of Gas Captured and Utilized (Btu/scf)

1	2	3	4	5	6	7	
		Base Period					
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year	
Flared							
Electricity generation							
Injected into pipeline/sale to supply network							
Direct use onsite							
Direct use offsite							

3. Enter Total Energy Content of Gas Captured and Utilized (MMBtu)

3. Lines rotal Lifergy Conten	ent of das daptured and offinzed (MMDtd)							
1	2	3	4	5	6	7		
		Base Period						
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year		
Flared								
Electricity generation								
Injected into pipeline/sale to supply network								
Direct use onsite								
Direct use offsite								
Total								

4. Enter Mass of Methane Captured and Utilized (metric tons CO₂e)

1	2	3	4	5	6	7
					Base	
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Period Average	Reporting Year
•	I Cai I	I Cal Z	I cai 3	i Cai 4	Average	i cai
Total Methane Captured						

5. Enter Nitrous Oxide Emissions From Aerobic Conditions During the Base Period and Reporting Year (metric tons CO₂e)

		Base Period		J	
Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year
	Year 1	Year 1 Year 2			Base Period

Part C. Emission Reductions

1. Calculate Changes in Methane Captured and Utilized

	1	2	3
Item	Description	Units of Measure	Quantity
Α	Base Period Average Annual Quantity of Methane Captured	metric tons CO ₂ e	-
В	Reporting Year Methane Captured	metric tons CO₂e	
С	Change in Methane Captured (B – A)	metric tons CO₂e	

2. Calculate Changes in Disposition of Electricity Generation from Captured Methane (MWh)

2: Galediate Changes in Disposition of Electricity deficitation from Captarea Methane (MVVII)						• • • • • • • • • • • • • • • • • • • •		
	1	2	3	4	5	6	7	
			Base Period					
Item	Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year	
D	Electricity Used Onsite							
Ē	Electricity Sold							
F	Total Generation							

3. Calculate Carbon Dioxide Displaced from Electricity Used Onsite (avoided emissions)

	1	2	3
Item	Description	Units of Measure	Quantity
G	Base Period Average Electricity Used Onsite	MWh	
Ι	Reporting Year Electricity Used Onsite	MWh	
I	Reporting Year Incremental Electricity Used Onsite (H – G)	MWh	
J	Reporting Year Total Emissions from Electricity Used Onsite*	metric tons CO ₂ e	
K	Reporting Year Emissions Intensity of Electricity Used Onsite (J/H)	metric tons CO ₂ e /MWh	
L	Avoided Emissions Benchmark	metric tons CO ₂ e /MWh	
М	Emission Reductions ((L – K) * I)	metric tons CO ₂ e	

^{*}Include emissions from supplemental fossil fuel use only. If biogas was co-combusted with fossil fuels in Base Period, use Addendum B5 (Emission Reductions from Energy Generation and Distribution) to report/register reduction associated with exported electricity.

4. Calculate Carbon Dioxide Displaced from Electricity Sales (avoided emissions)

	1	2	3
Item	Description	Units of Measure	Quantity
N	Base Period Average Electricity Sold	MWh	
0	Reporting Year Electricity Sold	MWh	
Р	Reporting Year Incremental Electricity Sold (O – N)	MWh	
Q	Reporting Year Total Emissions from Electricity Sold*	metric tons CO2e	
R	Reporting Year Emissions Intensity of Electricity Sold (Q/O)	metric tons CO ₂ e /MWh	
S	Avoided Emissions Benchmark	metric tons CO ₂ e /MWh	
Т	Emission Reductions ((S – R) * P)	metric tons CO2e	

^{*}Include emissions from supplemental fossil fuel use only. If biogas was co-combusted with fossil fuels in Base Period, use Addendum B5 (Emission Reductions from Energy Generation and Distribution) to report/register reduction associated with exported electricity.

5. Calculate Carbon Dioxide Displaced by Methane Supplied to a Natural Gas Distribution Network

	1	2	3
Item	Description	Units of Measure	Quantity
U	Base Period Average Methane Supplied to a Natural Gas Distribution Network	ммвти	-
V	Reporting Year Methane Supplied to a Natural Gas Distribution Network	ммвти	
W	Incremental Methane Supplied to a Natural Gas Distribution Network (V-U)	MMBTU	
Х	Methane Emissions Factor	metric tons CO ₂ e/MMBtu	
Y	Change in Carbon Dioxide Emissions from Methane Supplied to a Natural Gas Distribution Network (W * X)	metric tons CO₂e	

6. Calculate Changes in Nitrous Oxide Emissions from Use of Anaerobic Digester

	1	2	3
Item	Description	Units of Measure	Quantity
Z	Base Period Average Annual Nitrous Oxide Emissions	metric tons CO ₂ e	
AA	Reporting Year Quantity of Nitrous Oxide Emissions	metric tons CO ₂ e	
BB	Change in Nitrous Oxide Emissions (A – Z)	metric tons CO ₂ e	

7. Summarize Emission Reductions

	1	2	3	4	5	6
		Units of		Emission F	Reductions	
Item	Description	Measure	Direct	Indirect	Avoided	TOTAL
СС	Increase in Methane Captured and Utilized	metric tons CO ₂ e				
DD	Carbon Dioxide Displaced from Electricity Used Onsite	metric tons CO ₂ e				
EE	Carbon Dioxide Displaced from Electricity Sales	metric tons CO ₂ e				
FF	Carbon Dioxide Displaced by Methane Supplied to a Natural Gas Distribution Network	metric tons CO ₂ e				
GG	Change in Nitrous Oxide Emissions	metric tons CO ₂ e				
НН	Net Change in Emissions (CC + DD + EE + FF – GG)	metric tons CO ₂ e				

8.	Identify Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]
9.	Describe the Actions That Were the Likely Causes of the Reductions Achieved:
10.	Identify the Cause(s) of the Emission Reduction(s) (check all that apply): ☐ Voluntary action ☐ Plant closing ☐ Government requirement ☐ Federal requirement ☐ State requirement ☐ Local requirement
11.	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part D. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
TO	TAL	CO ₂ e	metric tons	

Addendum B11. Capture of Methane from Anaerobic Digestion of Animal Waste If Reporting Subentities, Enter Name of Subentity: Part A. Action Identification 1. Enter Location of Livestock Management Facilities: Location State Country (if domestic (if foreign Name subentity) City subentity) Date Anaerobic Digester Use Began: Month_____ Year____ 3. Describe Action: _____ 4. Was the Action Reported Last Year? ☐ Yes □ No Part B. Action Quantification 1. Enter Action Characteristics 2 3 **Species of Animals Producing Waste Handled** No. of Animals Name of Facility by the Digester of the Species

Part C. Emission Reductions

1. Calculate Carbon Dioxide Displaced by Methane Supplied to a Natural Gas Distribution Network

	1	2	3
ltem	Description	Units of Measure	Quantity
Α	Base Period Average Methane Supplied to a Natural Gas Distribution Network	MMBTU	-
В	Reporting Year Methane Supplied to a Natural Gas Distribution Network	MMBTU	
С	Incremental Methane Supplied to a Natural Gas Distribution Network (B – A)	MMBTU	
D	Methane Emissions Factor	metric tons CO ₂ e/MMBtu	
Е	Change in Carbon Dioxide Emissions from Methane Supplied to a Natural Gas Distribution Network (C * D)	metric tons CO ₂ e	

3.	Identify Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M] Describe the Actions That Were the Likely Causes of the Reductions Achieved:
4 . 5 .	□ Voluntary action □ Plant closing □ Government requirement □ Federal requirement □ State requirement □ Local requirement Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions
	(optional):

Part D. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
TOTAL	CO ₂ e	metric tons	

Addendum	B12.	Recycling	of FI	/ Ash
Audelidulli	D L.	ILCGYCIIIIG	VI I I	<i>,</i> 7311

If Reporting 9	Subentities, E	Enter Name of	Subentity:	•

Part A. Action Identification

1. Enter Name and Location of Concrete Manufacturing Facilities Where Fly Ash Was Recycled:

1	2	3	4			
	Location					
Name	City	State (if domestic subentity)	Country (if foreign subentity)			

2.	Enter Date Fly Ash Recycling Began: Month Year
3.	Describe Action:

4. Was the Action Reported Last Year?

	Yes	Nο
ш	res	 INO

Part B. Action Quantification

1. Enter Total Quantity of Fly Ash Used and Portland Cement Displaced in Base Period and Reporting Year

	1	2	3	4	5	6	7	8
		Unit of	Base Period Quantity				Reporting	
Item	Description	Unit of Measure	Yr 1	Yr 2	Yr 3	Yr 4	Avg.	Year Quantity
А	Fly Ash Used in Place of Portland Cement	metric tons						

	1	2	3	4	5	6	7	8
		linit of		Base	Period Qu	antity		Reporting
Item	Description	Unit of Measure	Yr 1	Yr 2	Yr 3	Yr 4	Avg.	Year Quantity
В	Portland Cement Displaced	metric tons						

2. Calculate Substitution Ratio of Fly Ash for Portland Cement for Base Period and Reporting Year

	1	2	3
Item	Description	Unit of Measure	Quantity
С	Substitution Ratio for Base Period (B7/A7)		
D	Substitution Ratio for Reporting Year (B8/A8)		

Part C. Emission Reductions

1. Calculate Reduction in Indirect Emissions

	1	2	3
Item	Description	Unit of Measure	Quantity
Е	Net Emissions Factor for Virgin Cement	metric tons C equivalent/ton	0.2396
F	Net Emissions Factor for Fly Ash	metric tons C equivalent/ton	0.0021
G	Conversion Factor for Carbon Equivalent to CO₂e		3.667
Н	Emissions Displaced in Base Period (A7 * ((E/C) – F) * G))	metric tons CO₂e	
I	Emissions Displaced in Reporting Year (A8 * ((E/C) – F) * G))	metric tons CO₂e	
J	Indirect Emission Reductions (I – H)	metric tons CO ₂ e	

2.	Identify Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]
3.	Describe the Actions That Were the Likely Causes of the Reductions Achieved:
4.	Identify the Cause(s) of the Emission Reduction(s) (check all that apply): ☐ Voluntary action ☐ Plant closing ☐ Government requirement ☐ Federal requirement ☐ State requirement ☐ Local requirement

5.	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emission (optional):

Part D. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
	TOTAL	CO ₂ e	metric tons	

Addendum B13. Demand-Side Management and Other Reduction Programs

If Reporting Subentities, Enter Name of Subentity:								
Par	t A. Action Identification							
	ou are reporting more than one program, copy Part A and complete for each program.							
	Enter Name of Program:							
2. City	Enter Location of Demand-Side Management Program or: State (if domestic subentity): Country (if foreign subentity):							
3.	Enter Date Program Began: Month Year							
4.	Provide Summary Description of Program:							
5.	Check the Applicable Box(es) to Indicate What the Program Provides to Very Small Emitters (entities that typically emit below 500 tons of CO ₂ e per year): ☐ Information or other technical assistance ☐ Financial incentives ☐ Direct installation or investment ☐ Other non-commercial services							
6.	. Identify Sector(s) of Very Small Emitters Targeted (please check all that apply) □ Residential □ Small industrial □ Commercial □ Other, specify:							
7.	Describe Program Evaluation Method:							
8.	Enter Name and Describe Qualifications of 3 rd Party Verifier Name: Qualifications:							
9.	Enter Annual Energy Usage Reductions in Reporting Year (if not applicable, go to Question 10) Unit Quantity							
10.	Enter Greenhouse Gas Emission Reductions in Reporting Year (metric tons CO ₂ e)							
11.	Do the Reductions Qualify for Registration? Yes No To register reductions, the DSM or other program must meet all of the following criteria: The DSM or other program must be funded by the reporting entity. The estimated effects reported must first occur after the entity's start year and must cause a reduction of the total emissions of residential or other very small emitters. The qualifying program must provide information or other technical assistance, financial incentives, direct installation or investment, or other non-commercial services to very small emitters to assist them achieving emission reductions recognized by these guidelines. Program evaluations must be performed and/or certified by an independent and qualified third party							
	verifier. The third party must certify that the estimated annual energy usage or emission reductions were estimated in accordance with these guidelines							

Part B. Emission Reductions

1.	Summarize Energy Savings an			ctions by Progran		
	1	2	3	4	5	
				Total Emissio		
		Total Energy Savings		(CO ₂ e)		
	Program Name	Unit	Amount	Unit	Amount	
	Total Emission Reductions					
2.	Identify Types of Actions That V Appendix M]				Enter codes from	
3.	Describe the Actions That Were	e the Likely Cause	es of the Reduction	ons Achieved:		
 4. 5. 	Identify the Cause(s) of the Em Voluntary action Plant closing Government requirement State requirement Local requirement Summarize Benefits and Costs				missions	
	(optional):					

Part C. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO_2e)

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
	CO ₂ e	metric tons	
TOTAL	CO ₂ e	metric tons	

Addendum B14. Combined Heat and Power

If Reporting Subentities, Enter Name of Subentity:	
--	--

Part A. Action Quantification

1. Enter Plant Emissions Data

	1 2		3	
Item	Description	ion Units of Measure		
	Base Period Average			
Α	Total CHP Plant Fuel Use	MMBtu		
В	Total CHP Plant Emissions*	metric tons CO ₂ e		
	Reporting Year			
С	Total CHP Plant Fuel Use	MMBtu		
D	Total CHP Plant Emissions*	metric tons CO₂e		

^{*} Derive from fuel use (values A and C) using the methods in Chapter 1, Part C of the Technical Guidelines (Stationary Combustion).

2. Enter Activity Data

	1 2 3				
	1	3			
Item	Description	Units of Measure	Quantity		
	Base Period Average				
E	E Total Thermal Generation MMBtu				
F	Total Electrical Generation	MMBtu*			
G	Thermal Exports	MMBtu			
Н	Electricity Exports	MMBtu*			
ı	Thermal Generating Efficiency**	%			
J	Electrical Generating Efficiency***	%			
Reporting Year					
K	Total Thermal Generation	MMBtu			
L	Total Electrical Generation	MMBtu*			
M	Thermal Exports	MMBtu			
N	Electricity Exports	MMBtu*			
0	Thermal Generating Efficiency**	%			
Р	Electrical Generating Efficiency***	%			
Q	Thermal Avoided Emissions Benchmark	metric tons CO ₂ e /MMBtu			
R	Electricity Avoided Emissions Benchmark	metric tons CO ₂ e /MWh			

3. Calculate Emissions for Each Generating Stream

	1	2
		Emissions (Metric
Item	Description	Tons CO₂e)
	Base Period	
S	Total Thermal Generation Emissions = B * (E / I) / ((E / I) + (F / J))	
Т	Total Electricity Generation Emissions = B – S	
	Reporting Year	
U	Total Thermal Generation Emissions =	
	D * (K / O) / ((K / O) + (L / P))	
V	Total Electricity Generation Emissions = D – U	

^{*}If the efficiency of the thermal energy generation (Efficiency_{Thermal}) is unknown, reporters may use a default value of 0.8.

^{*} To convert electrical output to MMBtu, multiply electrical output in MWh by 3.412

** If the efficiency of the thermal energy generation (Efficiency_{Thermal}) is unknown, reporters may use a default value of 80 percent.

*** If the efficiency of the electrical energy generation (Efficiency_{Thermal}) is unknown, reporters may use a default value of 35 percent.

4. Calculate Emissions Associated With Thermal and Electrical Energy Exported and Used Onsite

	1 2		3
Item	Description	Units of Measure	Emissions
	Base Period		
W	Exported Thermal Generation Emissions ((G / E) * S)	metric tons CO2e	
Χ	Exported Electrical Generation Emissions ((H / F) * T)	metric tons CO ₂ e	
Υ	Onsite Thermal Generation Emissions (S – W)	metric tons CO ₂ e	
Z	Onsite Electrical Generation Emissions (T – X)	metric tons CO ₂ e	
	Reporting Year		
AA	Exported Thermal Generation Emissions ((M / K) * U)	metric tons CO ₂ e	
BB	Exported Electrical Generation Emissions ((N / L) * V)	metric tons CO ₂ e	
CC	Onsite Thermal Generation Emissions (U – AA)	metric tons CO ₂ e	
DD	Onsite Electrical Generation Emissions (V – BB)	metric tons CO ₂ e	

Part B. Emission Reductions

1. Calculate Direct Emission Reductions From Onsite Energy Use (*Note: Reductions can be calculated using either the Changes in Emissions Intensity method or the Changes in Absolute Emissions method. Reporters should select one method, and use the appropriate formulas provided*)

a. Calculate Changes in Emissions Intensity From Energy Used Onsite

	1	2	3
		Units of	Direct
Item	Description	Measure	Emissions
EE	Emission Reductions from Thermal Generation Used Onsite	metric tons	
	((S/E) - (U/K)) * (K - M)	CO₂e	
FF	Emission Reductions from Electrical Generation Used Onsite	metric tons	
""	((T / F) - (V / L)) * (L - N)	CO ₂ e	

b. Calculate Absolute Changes in Emissions From Energy Used Onsite

	1	2	3
Item	Description	Units of Measure	Direct Emissions
ItCIII			Lillissions
GG	Emission Reductions from Thermal Generation Used Onsite	metric tons	
dd	(Y – CC)	CO ₂ e	
НН	Emission Reductions from Electrical Generation Used Onsite	metric tons	
ПП	(Z - DD)	CO₂e	

- 2. Calculate Emission Reductions Associated With Energy Exports
 - a. Calculate Thermal Energy Emission Reductions Due to Improvements in Historical Emissions Intensity

	1	2	3
Item	Description	Units of Measure	Emission Reductions
II	Emission Reductions (((S / E) - (U / K)) * G)	metric tons CO ₂ e	

b.	Calculate Thermal Energy Emission Reductions Due to I	ncremental Changes			
	1	2	3		
Item	Description	Units of Measure	Emission Reductions		
JJ	Emission Reductions	metric tons CO ₂ e			
00	(Q - (U / K)) * (M - G))	metric tons CO2e			
C.	Calculate Electricity Emission Reductions Due to Improv	ements in Historical	Emissions Intensity		
	1	Units of	Emission		
Item	Description	Measure	Reductions		
KK	Emission Reductions (((T / F) - (V / L)) * H)	metric tons CO ₂ e			
d.	Calculate Electricity Emission Reductions Due to Increm	ental Changes in			
	1	Units of	3 Emission		
Item	Description	Measure	Reductions		
LL	Emission Reductions	metric tons CO ₂ e			
LL	(R - (V / L)) * (N - H))	metric tons oo ₂ e			
3 Sı	ummarize Emission Reductions				
0. 0.	1	2	3		
		Units of			
Item	Description	Measure	Quantity		
MM	Reductions Associated with Onsite Energy Use (EE + FF) or (GG + HH)	metric tons CO2e			
NN	Total Emission Reductions from Energy Generation and Exports (II + JJ + KK + LL)	metric tons CO ₂ e			
00	Total Emission Reductions (MM + NN)	metric tons CO ₂ e			
Aį	entify Types of Actions That Were the Likely Cause of the opendix M]		E [Enter codes from		
5. D	escribe Actions That Were the Likely Causes of the Reduct	tions Achieved:	1		
	6. Identify the Cause(s) of the Emission Reduction(s) (check all that apply): ☐ Voluntary action ☐ Plant closing ☐ Government requirement ☐ Federal requirement ☐ State requirement ☐ Local requirement				

/. 	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part C. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
		CO ₂ e	metric tons	
	TOTAL	CO ₂ e	metric tons	

Addendum B15. Other Action-specific Reductions

If Reporting Subentities, Enter Name of Subentity:				
Part A. Action Identification				
1. Explain Why It Is Not Possible to Use Any of The Methods in Addendum B1-B14				
2. Enter Date Action Was Initiated: Month Year				
3. Was the Action Reported Last Year? ☐ Yes ☐ No				
4. Identify Activities Affected by the Action:				
5. Identify Equipment Affected by the Action:				
6. Identify the Emission Sources Affected by the Action:				

Part B. Emission Reductions Computation

1. En	nter Activity Data, Emission Coefficien	to, and conve			
Item	1 Description	Units	of Measure	3 Quantity	
A	2000p			01 1110000010	aud
В					
C					
D					
E					
F					
G					
Н					
I.					
J					
2. En	nter Equation(s) Used to Calculate Em	viccions and E	mission Roduct	ione in Ouestie	n 2.
3. Ca	alculate Emission Reductions				
3. Ca	alculate Emission Reductions	2	3 Source	4	5
3. Ca	alculate Emission Reductions	2		of Emissions	
3. Ca	alculate Emission Reductions	2		of Emissions Indirect	
3. Ca	alculate Emission Reductions		Source	of Emissions Indirect Emissions from	Affected Other
3. Ca	1	2 Units of Measure		of Emissions Indirect Emissions from Purchased	Affected
	Description Base Period Emissions	Units of Measure metric tons	Source Direct	of Emissions Indirect Emissions from	Affected Other Indirect
Item	Description	Units of Measure metric tons CO ₂ e metric tons	Source Direct	of Emissions Indirect Emissions from Purchased	Affected Other Indirect
Item K	Description Base Period Emissions	Units of Measure metric tons CO ₂ e metric tons CO ₂ e metric tons	Source Direct	of Emissions Indirect Emissions from Purchased	Affected Other Indirect
Item K L	Description Base Period Emissions Reporting Year Emissions Registered Emission Reductions	Units of Measure metric tons CO ₂ e metric tons CO ₂ e	Source Direct	of Emissions Indirect Emissions from Purchased	Affected Other Indirect

5.	Describe the Actions That Were the Likely Causes of the Reductions Achieved:
6.	Identify the Cause(s) of the Emission Reduction(s) (check all that apply): Voluntary action Plant closing Government requirement Federal requirement State requirement Local requirement
7.	Summarize Benefits and Costs of the Actions Taken to Reduce Greenhouse Gas Emissions (optional):

Part C. Distribution of Emission Reductions to Other 1605(b) Reporters

1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons CO₂e)

1	2	3	4	5
Name of Recipient	Emissions Type*	Gas	Units	Amount
		CO ₂ e	metric	
			tons	
		CO₂e	metric	
			tons	
		CO₂e	metric	
			tons	
		CO₂e	metric	
			tons	
Total Direct Emission Reductions		CO₂e	metric	
Total Direct Emission Reductions			tons	
Total Indirect Emission Reductions from		CO₂e	metric	
Purchased Energy			tons	
Total Other Indirect Emission		CO₂e	metric	
Reductions			tons	

^{*}Direct, Indirect from Purchased Energy, Other Indirect.

Addendum B16. Destruction of Chlorofluorocarbons

If Reporting Subentities, Enter Name of Subentity:							
Part A. Action Identification							
1.	Enter Name and Location of Facility Where CFCs Were Destroyed:						
	1		2	3	4		
		-		Location State	Country		
	Name		City	(if domestic subentity)	(if foreign subentity)		
	_						
-	_						
		-					
				I			
2.	Enter Date CFC [Destruction Be	egan: Month	Year			
					_		
3.	Describe Action: _						
4.	Was the Action R □ Yes □	eported Last \ \(\)	Year?				
Pa	rt B. Emission Re	ductions					
1.	Enter Type and Q	uantity of CF(Cs Destroyed				
	1	2	3	Pid year Transfer the Dedu	ation to Anathon		
				Did you Transfer the Redu Reporting Entity			
CFC Gas Type Unit Amount (if yes, complete Part C)							

2.	Identify Types of Actions That Were the Likely Cause of t Appendix M]	he Reductions	s Achieved [E	nter codes from		
3.	Describe the Actions That Were the Likely Causes of the	Reductions A	chieved:			
4.	Identify the Cause(s) of the Emission Reduction(s) (check	k all that apply	<i>(</i>):			
	☐ Voluntary action ☐ Plant closing					
	☐ Government requirement					
	☐ Federal requirement☐ State requirement					
	☐ Local requirement					
5.	Summarize Benefits and Costs of the Actions Taken to R	educe Greenl	nouse Gas En	nissions		
	(optional):					
_						
Pa	Part C. Distribution of Emission Reductions to Other 1605(b) Reporters					
1.	1. Where Applicable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (kilograms)					
	Name of Recipient	2 Gas	3 Units	4 Amount		
	Hame of neolpicit	Gas	kilograms	Amount		
			kilograms			

kilograms kilograms kilograms

Addendum C. Country-specific Factors Used to Estimate Emissions from Foreign Sources

1. Enter Information on Emission Factors Used to Estimate Emissions for Foreign Subentities

1	2	3	4	5	6	7
Emissions	Emissions		Unit of	Factor		Factor
Type	Source	Gas	Measure	Value	Countries/ Regions	Source
					•	

2. Identify Publications and Other Sources for Factors Used to Estimate Foreign Emissions

Item	Source of Factors
Α	
В	
С	
D	
Е	
F	
G	
Н	
J	
K	
L	
М	
Ν	
0	
Р	
Q	
R	
S	

3. Document Reporter-defined Emission Factors.	