# **Form EIA-1605**

## **Voluntary Reporting of Greenhouse Gases**

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

This report is voluntary under Public Law 102-486 (42 USC 13385).

# U.S. Energy Information Administration U.S. Department of Energy

July 29, 2010

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B5. Energy Generation and Distribution	B12
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B11. Anaerobic Digestion of Animal Waste	
B12. Recycling of Fly Ash	
B13. Demand-Side Management and Other Reduction Programs	
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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. Public reporting burden for this collection of information is estimated to average 60 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data, and completing and reviewing the collection of information.

(Re	PORTING YEAR  Proporting Year is the calendar year for which you are reporting emissions. If this is a Start Year report, er the Start Year, which is the last calendar year of the initial Base Period.)
SC	HEDULE I. ENTITY INFORMATION
SEC	CTION 1. ENTITY STATEMENT
	Enter Entity Identification:  Entity Name:  Address 1:  Address 2:  City:  Entity URL:  Entity URL:  Entity Tax Payer Identification Number (optional):
	Enter Contact Information:  Contact Name:  Title:  Contact address is the same as entity address above  Entity Name:  Address 1:  Address 2:  City:  State:  Zip:   Tel: ()  Fax: ()  E-Mail:
3.	Enter Report Characteristics  a. Report Type (check one):  ☐ Start Year Report  ☐ Reporting Year Report  ☐ 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 annual average entity-wide Base Period emissions for the entity:  ☐ metric tons CO₂ equivalent  ☐ If this 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

			ter intending to report but not register emissions and/or emission reductions  ☐ Emitter intending to report but not register emission reductions  ☐ Emitter intending to report emissions only
C.		Entit Part	Inventory: y-wide al. Indicate the selected elements of the entity, selected gases, or selected sources ded and/or excluded below:
d.	Thi If y	es, id	es: ort includes subentity reports <i>(check one)</i>
	1	No.	Subentity Name
	_	1	
		3	
	H	4	
		5	
		6	
		7	
		8	
		9	
	L	10	
e.	Thi If y₁	is repo es, in This	dent Verification:  ort has been verified by an independent third party:  dicate the level of detail provided in the report's emissions inventory:  report includes aggregated emissions data by gas; or  report includes detailed emissions data by gas and source.
Ind	The	e enti	Significant Changes to Previous Entity Statement (not applicable for Start Year reports) y has not undergone significant changes since the last Voluntary Reporting of use Gases report
		ses re	y has undergone significant changes since the last Voluntary Reporting of Greenhouse eport was filed. Check the appropriate box below:  Data are being resubmitted for the base period:  For the entire entity  For one or more subentities  New base period has been selected:  For the entire entity (describe):
		(	For one or more subentities (describe in relevant subentity statement in Schedule II)  Changes have been made in the entity's scope or organizational boundaries, of the following nature:  Acquisition or divestiture of discrete business units, subsidiaries, facilities or

Describe: \_

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4.

			Closure or opening of significant facilities  Describe:
			Transfer of economic activity to or from specific operations covered by a previous report  Describe:
			Significant changes in land holdings
			Higher level of aggregation than in the previous year.  Describe (List subsidiary entities now included, including a listing of any non-U.S operations added and the specific countries in which the foreign operations are located):
			Changes in activity or operations, specify:  Change in output  Change in contractual arrangements  Change in equipment and processes  Change in outsourcing or insourcing of significant activities  Describe the change and explain its influence on reported emissions or sequestration:
			sion reduction calculation method changed change, not listed above, describe:
6.	Primary I	NAICS: _ ry NAICS	S:
Ο.			ry below that describes the entity:
	□ C □ S □ L □ P □ S	oration 7 corporation Corporation imited Lia imited Lia artnershi ole Prop	ability Corporation (LLC) ability Partnership (LLP)
	ΠР		ate Status (check one) raded (Stock ticker symbol:) Held
	□ H □ W □ J □ C □ Utility □ C □ M	olding/Pa /holly Ov pint Vent other Sub y (Non-In cooperation lunicipal	vestor Owned) (check one)

3

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_)
s in organizational
ganizational boundaries

		Gov	Other, specify: vernment (check one) Federal	
			State	
			Regional (e.g., multi-state) Local (e.g., city, county, or other sub-state level gove	rnment)
			Native American Tribal Government	- ,
	П	Gov	Other, specify: vernment Corporation or Authority (check one)	
	_		- Federal	
			State Regional <i>(e.g., multi-state)</i>	
			cegional (e.g., main-state) _ocal (e.g., city, county, or other sub-state level gover	nment)
			Other, specify: n-Profit Organization	
	ш		Cooperative (e.g., non-profit electric cooperative)	
			Trade Association (specify type):	L. Dear
			Reporting on behalf of its members, specified in attac Reporting on its own achievements	ned list
		All (	other Non-Profit Organizations (charities, fraternal org	lers, etc.
		Spe Indiv	ecify:ridual or Household	)
			er, specify:	<del></del>
7.	De	scrib	e the Entity Organization	
•	ls y	our	entity a holding company: ☐ Yes ☐ No	
	If y	our e	entity is a subsidiary, identify your entity's Parent or H	olding Company:
8.		Me¹	e the Entity's Organizational Boundaries hod for Determining Organizational Boundaries Financial control  Operational control. Explain how the use of this othe	
			boundaries that differ from results of the financial cor	ntroi approach:
			Equity share. Explain how the use of this other approach that differ from results of the financial control approach.	
			Other. Describe method and explain how the use of organizational boundaries that differ from results of t	
	b.	List	All Large Wholly Owned Subsidiaries Included in Thi	s Report:
			Subsidiary Name	Primary NAICS

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c. List Any Large Partially Owned Subsidiary, Joint Venture, and Leased or Operated Emissions Source Included in This Report:

1	2	3	4	5	6
Name or Description of Emissions Source	Relationship to Reporting Entity	Partners	% Interest Held By Reporting Entity	Method for Determining Inclusion in Report	% of Emissions Included in This Report

L												
	d. Additional Description of Organizational Boundaries (describe, including criteria used for excluding any emissions sources, if applicable):    Describe the Geographic Scope of Activities (check one)											
								<del> </del>				
9.		This	report Natio	the Geographic Scope of Activities (check one) cort covers U.S. activities only titionwide (if operating in all 10 U.S. Census Regions) ultiple States (if not nationwide, enter states using 2-letter abbreviations from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ctivities: titionwide (if operating in all 10 U.S. Census Regions) ultiple States (if not nationwide, enter states using 2-letter abbreviations from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-letter abbreviation for state from Appendix B:  ngle State (enter 2-l								
					,			)				
			Single	State	(enter 2-le	etter abbrevia	ation fo	r state from A	Apper	ndix B:		)
		U.S	. Activ	rities: nwide (i	f operatin	g in all 10 U.	S. Cen			abbrevia	tions from	Appendix B:
			Single	State	(enter 2-le	etter abbrevia	ation fo	r state from A	Apper	ndix B:		)
		codes found in Appendix C, and the NAICS code that best corresponds to the primary activity in										
			Coun	try	Primary	NAICS code	<b>:</b>					
						<del></del>						
10.		eck tl S S In	he typ Station Nobile ndustr	es of er ary sou source ial proc	mission so rce comb combusti esses	ources or sinlustion	ks that □ Fug □ Ind □ Ott	gitive emissio irect emissio ner indirect ei	ons fro ons fro missi	om geolo om purch ons	ogic reservo ased enero	oirs

11. Describe the Entity Base Period

#### Voluntary Reporting of Greenhouse Gases

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
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 D): Other, specify:
Request Confidentiality of Entity Information 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.)
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.

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#### **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. Enter Aggregated Domestic Emissions by Gas (for independently verified reports only)

1	1 2		4	5	6	7	8	9	10	11
				Bas	Base Period Emissions or Carbon Flux				Reporting	
								Base	Year	
								Period	Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating
Α	Direct Emissions									
A1	Carbon Dioxide	CO <sub>2</sub>	mt							
A2	Methane	CH <sub>4</sub>								
A3	Nitrous Oxide	N <sub>2</sub> O								
A4	Sulfur Hexafluoride	SF <sub>6</sub>								
A5	HFC (Specify)									
A6	PFC (Specify)									
A7	CFC (Specify)									
В	Indirect Emissions From Purchased									
	Energy (Inventory)									
B1	Carbon Dioxide	CO <sub>2</sub>	mt							
B2	Methane	CH₄								
B3	Nitrous Oxide	N <sub>2</sub> O								
С	Indirect Emissions From Purchased Energy (Reductions)	CO <sub>2</sub> e	mt							
D	Carbon Flux	CO <sub>2</sub>	mt							
Е	Other Indirect Emissions									
E1	Carbon Dioxide	CO <sub>2</sub>	mt							
E2	Methane	CH₄								
E3	Nitrous Oxide	N <sub>2</sub> O								
E4	Sulfur Hexafluoride	SF <sub>6</sub>								
E5	HFC (Specify)									
E6	PFC (Specify)									
E7	CFC (Specify)									
F	Captured CO <sub>2</sub> Sequestered in an onsite Geologic Reservoir	CO <sub>2</sub>	mt							

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1	2	3	4	5	6	7	8	9	10	11
				Bas	se Period	<b>Emissions</b>	s or Carbo	n Flux	Reporting	
								Base	Year	
								Period	Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating
	Captured CO <sub>2</sub> Transferred to Another									
G	Entity for Sequestration in a Geologic	$CO_2$	mt							
	Reservoir									

mt = metric ton

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

1_	2	3	4	5	6	7	8	9	10	11
				Bas	se Period	Emissions	or Carbo	n Flux	Reporting	
								Base	Year	
								Period	Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating
Α	Direct Emissions									
A1	Carbon Dioxide	CO <sub>2</sub>	mt							
A2	Methane	CH₄								
A3	Nitrous Oxide	N <sub>2</sub> O								
A4	Sulfur Hexafluoride	SF <sub>6</sub>								
A5	HFC (Specify)									
A6	PFC (Specify)									
A7	CFC (Specify)									
В	Indirect Emissions From Purchased									
	Energy (Inventory)									
B1	Carbon Dioxide	CO <sub>2</sub>	mt							
B2	Methane	CH₄								
B3	Nitrous Oxide	N <sub>2</sub> O								
С	Indirect Emissions From Purchased Energy (Reductions)	CO <sub>2</sub> e	mt							
D	Carbon Flux	CO <sub>2</sub>	mt							
Е	Other Indirect Emissions									
E1	Carbon Dioxide	CO <sub>2</sub>	mt							
E2	Methane	CH₄								
E3	Nitrous Oxide	N <sub>2</sub> O								
E4	Sulfur Hexafluoride	SF <sub>6</sub>								
E5	HFC (Specify)									
E6	PFC (Specify)									
E7	CFC (Specify)									
F	Captured CO <sub>2</sub> Sequestered in an Onsite Geologic Reservoir	CO <sub>2</sub>	mt							

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oorting /ear		

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1	2	3	4	5	6	7	8	9	10	11
				Bas	se Period	Emissions	Reporting			
								Base	Year	
								Period	Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating
	Captured CO <sub>2</sub> Transferred to Another									
G	Entity for Sequestration in a Geologic	CO <sub>2</sub>	mt							
	Reservoir									

mt = metric ton

#### 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 CO<sub>2</sub> captured from stationary combustion for geologic sequestration)

a. Stationary Com	1A	2	3	4	5	6	7	8	9	10	11	12
		Specific				Base	Period Em	issions	•			
		Facility/Source Name			V. 4	Y. 0	Y. 0	V. 4	Base Period	Reporting Year	Estimation	<b>D</b>
Source Category	Fuel Type	(optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	Rating
Fossil Fuel Combustion			CO <sub>2</sub>	mt								
Combustion			CH <sub>4</sub>	kg								
			N <sub>2</sub> O CO <sub>2</sub>	kg mt								
			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
Nonstandard Fuel			CO <sub>2</sub>	mt								
Combustion			CH₄	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH₄	kg								
			N <sub>2</sub> O	kg								
Waste Fuels			CO <sub>2</sub>	mt								
Combustion			CH₄	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
Biomass			CH <sub>4</sub>	kg								
Combustion			N <sub>2</sub> O	kg								
Nonfuel Use of Fossil Fuels			CO <sub>2</sub>	mt								
Subtotal			CO <sub>2</sub> e	mt								

b. Mobile Sources (incorporate all emissions, including CO<sub>2</sub> captured from mobile sources for geologic sequestration)

1	, 1A	2	3	4	5	6	7	8	9	10	11	12
		Specific				Bas	se Period	Emissio	ns			
Source Category	Fuel Type	Vehicle Class/Fleet Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Esti- mation Method	Rating
Highway Vehicles	-	` .	CO <sub>2</sub>	mt								
			CH₄	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH₄	kg								
			N <sub>2</sub> O	kg								
Off-Road Vehicles			CO <sub>2</sub>	mt								
			CH₄	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
Water Borne			CO <sub>2</sub>	mt								
Vessels			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH <sub>4</sub>	kg								
A:			N <sub>2</sub> O	kg								<u> </u>
Aircraft			CO <sub>2</sub>	mt								<del>                                     </del>
			CH <sub>4</sub> N <sub>2</sub> O	kg								
			CO <sub>2</sub>	kg mt								-
			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
Mobile Refrigeration			HFC-	kg								
and Air-Conditioning			134a	9								
				İ								
Subtotal			CO <sub>2</sub> e	mt								

# c. Sector-Specific Industrial Process Emissions (incorporate all emissions, including CO<sub>2</sub> captured from industrial process emissions for geologic sequestration)

1	2	3	4	5	6	7	8	9	<u>10</u>	11	12
	Specific				Bas	se Period	Emission	าร			
Process/Fugitive Emissions	Facility/ Source Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating
				<u>l</u>	ndustria	<b>Proces</b>	ses				
Adipic Acid Production		N <sub>2</sub> O									
Aluminum Production (CO <sub>2</sub> only)		CO <sub>2</sub>	mt								
Ammonia Production		CO <sub>2</sub>	mt								
Cement Production  – Clinker Production		CO <sub>2</sub>	mt								
Cement Production  – Cement Kiln Dust		CO <sub>2</sub>	mt								
Hydrogen Production		CO <sub>2</sub>	mt								
Iron and Steel Production – All Processes*		CO <sub>2</sub>	mt								
Iron and Steel Production – Reducing Agents		CO <sub>2</sub>	mt								
Iron and Steel Production – Furnace Additives		CO <sub>2</sub>	mt								
Iron and Steel Production – Crude Iron Production		CO <sub>2</sub>	mt								
Iron and Steel Production – Conversion of Iron to Steel		CO <sub>2</sub>	mt								

c. Sector-Specific Industrial Process Emissions (continued)

1	2	3	4	5	6	7	8	9	10	11	12
	Specific Facility/				Bas	e Period I	Emissions	s			
Process/Fugitive	Source Name					¥ 6	V. 4	Base Period	Reporting Year	Estimation	
Emissions	(optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	Rating
Iron and Steel			inausti	riai Proc	esses –	ron and	Steel Pro	oduction			<u> </u>
Production – Electrode Consumption in Electric Arc Furnaces		CO <sub>2</sub>	mt								
Iron and Steel Production – Secondary Steel Production in Electric Arc Furnaces		CO <sub>2</sub>	mt								
Iron and Steel		CO <sub>2</sub>	mt								
Production – Other		CH <sub>4</sub>									
Lime Production		CO <sub>2</sub>	mt								
Limestone and Dolomite Use		CO <sub>2</sub>	mt								
Methanol		CO <sub>2</sub>	mt								
Production		CH <sub>4</sub>									
Methane Emissions From Production of Other Petrochemicals		CH₄									
Nitric Acid Production		N <sub>2</sub> O									
Soda Ash Production		CO <sub>2</sub>	mt								
Soda Ash Use		CO <sub>2</sub>	mt								

<sup>&</sup>lt;sup>1</sup>Use this line only if specific data on reducing agent, additive, iron ore and/or crude iron consumption are not available.

#### c. Sector-Specific Industrial Process Emissions (continued)

c. Sector-Specific Indus											
1	2	3	4	5	6	7	8	9	10	11	12
	Specific				Base	Period E	missions				
Process/Fugitive	Facility/ Source Name			<b>.</b>				Base Period	Reporting Year	Esti- mation	
Emissions	(optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	Rating
		1			Energy	1		1		1	
Coal Mines		CH₄									
Oil and Natural Gas		CH <sub>4</sub>									
Industries		CO <sub>2</sub>	mt								
madstries		N <sub>2</sub> O									
				Wa	aste Hand	dling					
Domestic and		CH <sub>4</sub>									
Industrial Wastewater		N <sub>2</sub> O									
Handling											
Landfills		CH₄									
				Hig	h GWP G	ases					
Aluminum Production		PFC:									
(for PFC, specify gas)		SF <sub>6</sub>									
HCFC-22 Production		HFC-23									
SF <sub>6</sub> Emissions From Electrical Equipment		SF <sub>6</sub>									
Industrial Use and Production of HFCs,		HFC:									
PFCs, and SF <sub>6</sub> (for HFCs and PFCs,		PFC:									
specify gas)		SF <sub>6</sub>									
Magnesium Production		SF <sub>6</sub>									
Semiconductor		HFC:									
Manufacture (for		PFC:									
HFCs and PFCs, specify gas)		SF <sub>6</sub>									
1 7 3 /		CO <sub>2</sub>	mt								
0.1 // 1:=0		CH <sub>4</sub>									
Other (for HFCs,		N <sub>2</sub> O									
PFCs, and CFCs		SF <sub>6</sub>									
specify gas)		PFC:									
		HFC:									
		CFC:									
Subtotal		CO <sub>2</sub> e	mt								

d. Agricultural Sources (incorporate all emissions, including CO<sub>2</sub> captured from agricultural sources for geologic sequestration)

u. Agriculturai Sources 1	2	3	4	5	6	7	8	9	10	11	12
	Specific				Base	Period Er	nissions				
Source Category	Source Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating
Enteric Fermentation		CH <sub>4</sub>									
Livestock Waste		CH <sub>4</sub>									
Livestock waste		N <sub>2</sub> O									
Residue Burning		N <sub>2</sub> O									
Residue Bullillig		CH <sub>4</sub>									
Rice Cultivation – 1 <sup>st</sup> Harvest		CH <sub>4</sub>									
Rice Cultivation – 2 <sup>nd</sup> ("Ratoon") Harvest		CH₄									
Nitrous Oxide From Agricultural Soils – Nitrogen Application		N <sub>2</sub> O									
Nitrous Oxide From Agricultural Soils – Organic Soils		N <sub>2</sub> O									
Lime Application		CO <sub>2</sub>	mt								
Cultivation of Organic Soils		CO <sub>2</sub>	mt								
Other Agricultural Sources (specify source and gas):											
Subtotal		CO <sub>2</sub> e	mt								

e. Fugitive Emissions Associated With Geologic Reservoirs

1	2	3	4	5	6	7	8	9	10	11	12
	Specific				Base	Period Emi	ssions				
Source Category	Source/ Reservoir Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year	Estimation Method	Rating
Fugitive Emissions From the Extraction of Naturally Occurring CO <sub>2</sub>		CO <sub>2</sub>	mt								
Fugitive Emissions During Extraction of CO <sub>2</sub> From Anthropogenic Sources		CO <sub>2</sub>	mt								
Fugitive Emissions During Transport and Processing		CO <sub>2</sub>	mt								
Fugitive Emissions of CO <sub>2</sub> During Injection and Extraction for Enhanced Resource Recovery		CO <sub>2</sub>	mt								
Post-Injection Seepage of Carbon Dioxide to the Atmosphere		CO <sub>2</sub>	mt								

mt = metric ton

f. Captured CO<sub>2</sub> Emissions from Anthropogenic Sources (captured CO<sub>2</sub> emissions should also be included as emissions in Questions 1a through 1d above).

1	2	3	4	5	6	7	8	9
			Base Per	iod Average Q	uantity	Reporti	ing Year Qu	antity
Source	Gas	Unit of Measure	Onsite	Offsite	Total	Onsite	Offsite	Total
Stationary Combustion	CO <sub>2</sub>	metric tons						
Sector-Specific Industrial Process Emissions	CO <sub>2</sub>	metric tons						
Other (Mobile & Agricultural Sources)	CO <sub>2</sub>	metric tons						
Subtotals	CO <sub>2</sub>	metric tons						

#### 2. Enter Indirect Emissions From Purchased Energy

a. Physical Quantities of Energy Purchased

1	2	3	4	5	6	7	8	9
			Base I	Period Consu				
Energy Type	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Consumption	System Type/Fuel Used for Generation
Electricity	MWh							
Steam	MMBtu							
Hot Water	MMBtu							
Chilled Water	Ton-Hours Cooling							

b. Emissions From Purchased Energy for Emissions Inventory

1	2	3	4	5	6	7	8	9	10	11	12
	Specific				Bas	e Period E	missions				
Source	Facility/ Region Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating
Electricity		CO <sub>2</sub>	mt								
		CH₄	kg								
		$N_2O$	kg								
Steam		CO <sub>2</sub>	mt								
		CH₄	kg								
		$N_2O$	kg								
Hot Water		$CO_2$	mt								
		CH₄	kg								
		$N_2O$	kg								
Chilled Water		CO <sub>2</sub>	mt								
		CH₄	kg								
		N <sub>2</sub> O	kg								
Total		CO <sub>2</sub> e	mt								

c. 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.)

1	2	3	4	5	6	7	8	9	10	11
				Base	<b>Period Emis</b>	ssions				
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating
Electricity	CO <sub>2</sub> e	mt								
Steam, Hot Water, and Chilled Water*	CO <sub>2</sub> e	mt								
Total	CO <sub>2</sub> e	mt								

mt = metric ton

#### 3. Enter Other Indirect Emissions\*

1	2	3	4	5	6	7	8	9	10	11
				Base Period Emissions						
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating
Employee Commuting										
Manufacture & Sale of Energy Efficient Products										
Consumption of Energy- intensive Products										
Nitrous Oxide Emissions from Fertilizer Application	N <sub>2</sub> O									
Other:										
Subtotal	CO <sub>2</sub> e	mt								

mt = metric ton

<sup>\*</sup>Sum emissions reported for these sources in Question 2b above.

<sup>\*</sup>Do not include in emission inventory.

#### 4. Enter Terrestrial Carbon Fluxes and Stocks

#### a. Forestry Activities

1	2	3	4	5	6	7	8	9	10
					Carbon Stocks				
Categories	Specific Source/ Area Name (optional)	Gas	Units	Base Period	Estimated Carbon Stocks in Year Prior to Reporting Year	Reporting Year Carbon Stocks	Reporting Year Stock Change or Carbon Flux <sup>1,2</sup>	Estimation Method <sup>3</sup>	Rating
Afforestation, Mine Land Reclamation, and Forest Restoration		CO <sub>2</sub>	mt						
Agroforestry		CO <sub>2</sub>	mt						
Forest Management <sup>4</sup>		CO <sub>2</sub>	mt						
Short-Rotation Biomass Energy Plantations		CO <sub>2</sub>	mt						
Urban Forestry		CO <sub>2</sub>	mt						
Timber Harvesting <sup>5</sup>		CO <sub>2</sub>	mt						
Other <sup>6</sup>		CO <sub>2</sub>	mt						
Total		CO <sub>2</sub>	mt						

mt = metric ton

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> Methods include lookup tables, models, measurement, or a combination of these methods. If using a model, indicate the name.

<sup>&</sup>lt;sup>4</sup> 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.

<sup>&</sup>lt;sup>5</sup> Activities such as thinning should be included under Forest Management.

<sup>&</sup>lt;sup>6</sup> "Other" includes activities not covered in the previous categories practiced by landowners that may result in changes in carbon fluxes or stocks.

#### b. Wood Products:

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

1	2	3	4	5	6	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 Year	Reporting Year Stock Change	Estimation Method	Rating
Wood Products	CO <sub>2</sub>	mt					

mt = metric ton

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

1	2	3	4	5	6	7
Category	Gas	Units	Stock of Carbon in Harvested Wood	100 year Residual Carbon Stock	Estimation Method	Rating
Wood products	CO <sub>2</sub>	mt				

mt = metric ton

#### c. 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.

1	2	3	4	5	6	7	8
Name/Description of Tract of Land	Type of Restriction (e.g., Easement, Deed Restrictions, etc.)	Year Protected	Area (Acres)	Units	50% of Carbon Stock Accumulated in 50 Years from Inception of Preservation Activity	Estimation Method	Rating
1.							
2.							
3.							
4.							
Total							

20

#### d. Forest Land That Experiences Carbon Losses From Natural Disturbances

This table documents carbon stock changes on each tract of disturbed lands and should be completed for each year after the disturbance until carbon stocks reach pre-disturbance levels.

1	2	3	4	5	6	7	8	9	10	11
						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										

e. Sustainably Managed Forests

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1	2	3	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
1.			
2.			
3.			
4.			
Total			

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

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

#### g. Other Terrestrial Carbon Fluxes

1	2	3	4	5	6	7	8	9	10
					Carbon Stock	(S			
Categories	Specific Source/ Area Name (optional)	Gas	Units	Base Period	Estimated Carbon Stocks in Year Prior to Reporting Year	Estimated Carbon Stocks in Reporting Year	Reporting Year Stock Change or Carbon Flux <sup>1,2</sup>	Estimation Method <sup>3</sup>	Rating
Crops on Mineral Soils		CO <sub>2</sub>	mt						
Pasture/Grazing		CO <sub>2</sub>	mt						
Land-Use Change		CO <sub>2</sub>	mt						
Other:		CO <sub>2</sub>	mt						
Total		CO <sub>2</sub>	mt						

mt = metric ton

#### h. Terrestrial Carbon Flux Summary

1	2	3	4	5
Categories	Gas	Units	Reporting Year Stock Change or Carbon Flux	Rating
Forestry Activities	CO <sub>2</sub>	mt		
Wood Products Method 1	CO <sub>2</sub>	mt		
Wood Products Method 2	CO <sub>2</sub>	mt		
Land Restoration and Forest Preservation	CO <sub>2</sub>	mt		
Sustainably Managed Forests	CO <sub>2</sub>			
Incidental Lands	CO <sub>2</sub>			
Other Terrestrial Carbon Fluxes	CO <sub>2</sub>	mt		
Total Reporting Year Terrestrial Carbon Flux	CO <sub>2</sub>	mt		

mt = metric ton

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> Methods include lookup tables, models, measurement, or a combination of these methods. If using a model, indicate the name.

5. Identify and Estimate De Minimis Emissions Sources

1	2	3	4	5	6	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 <sub>2</sub> e	metric tons			

<sup>\*</sup>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 (*if applicable*). Also complete and attach one copy of Addendum C, Country-Specific Factors from Foreign Sources.

#### Part D. Total Emissions and Carbon Flux

#### 1. Enter Total Domestic Emissions and Carbon Flux

	1	2	3	4	5	6	7	8
				Base Period Emissions				
Item	Source	Gas/ Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Emissions or Carbon Flux
Α	Direct Emissions	mtCO <sub>2</sub> e						
В	Indirect Emissions From Purchased Energy for Emissions Inventory	mtCO <sub>2</sub> e						
С	Indirect Emissions From Purchased Energy for Calculation of Emission Reductions	mtCO <sub>2</sub> e						
D	Total Emissions (A + B)*	mtCO <sub>2</sub> e						
Е	Carbon Flux	mtCO <sub>2</sub> e						
F	Captured CO <sub>2</sub> Sequestered in an Onsite Geologic Reservoir**	mtCO <sub>2</sub> e						
G	Total Inventory Emissions (D – E – F)	mtCO <sub>2</sub> e						
Н	Other Indirect Emissions	mtCO <sub>2</sub> e						
I	Captured CO <sub>2</sub> Transferred to Another Entity for Sequestration in a Geologic Reservoir**	mtCO <sub>2</sub> e						

mtCO<sub>2</sub>e = metric tons carbon dioxide equivalent

<sup>\*</sup>Do not include Indirect Emissions from Purchased Energy for Calculation of Emission Reductions (Item C) in Total Emissions.

<sup>\*\*</sup>Do not include CO<sub>2</sub> extracted and captured from natural sources or CO<sub>2</sub> recycled during enhanced resource recovery operations.

2. Enter Total Foreign Emissions and Carbon Flux

	1	2	3	4	5	6	7	8
				Reporting Year				
	_	Gas/					Base Period	Emissions or
Item	Source	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux
Α	Direct Emissions	mtCO <sub>2</sub> e						
В	Indirect Emissions From Purchased Energy for Emissions Inventory	mtCO <sub>2</sub> e						
С	Indirect Emissions From Purchased Energy for Calculation of Emission Reductions	mtCO <sub>2</sub> e						
D	Total Emissions (A + B)*	mtCO <sub>2</sub> e						
Е	Carbon Flux	mtCO <sub>2</sub> e						
F	Captured CO <sub>2</sub> Sequestered in an Onsite Geologic Reservoir**	mtCO <sub>2</sub> e						
G	Total Inventory Emissions (D - E - F)	mtCO <sub>2</sub> e						
Н	Other Indirect Emissions	mtCO <sub>2</sub> e						
I	Captured CO <sub>2</sub> Transferred to Another Entity for Sequestration in a Geologic Reservoir**	mtCO₂e						

mtCO<sub>2</sub>e = metric tons carbon dioxide equivalent

<sup>\*</sup>Do not include Indirect Emissions from Purchased Energy for Calculation of Emission Reductions (Item C) in Total Emissions.

<sup>\*\*</sup>Do not include CO<sub>2</sub> extracted and captured from natural sources or CO<sub>2</sub> recycled during enhanced resource recovery operations.

#### Part E. Emissions Inventory Rating Summary

Do not complete Part E if all the methods used to estimate emissions 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.

1. Enter Base Period Data (enter domestic and foreign sources separately)

. Enter base Pr		domestic and foreig	n sources separately)		1 -	
1	2	3	4	5	6	7
Rating	Weighting	Direct	Indirect Emissions From Purchased	Corbon Elvy	Total Emissions <sup>1</sup>	Weighted Total Emissions <sup>2</sup>
Category	Factor	Emissions	Energy	Carbon Flux	Total Emissions	Emissions
			Domestic Source	es		
Α	4					
В	3					
С	2					
D	1					
Totals <sup>3</sup>						
Weighted Average Rating <sup>4</sup>						
			Foreign Sources	S		
Α	4					
В	3					
С	2					
D	1					
Totals <sup>3</sup>						
Weighted Average Rating⁴						

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.

<sup>&</sup>lt;sup>2</sup> Calculate Weighted Emissions by Rating Category by multiplying Column 2 by Column 6.

<sup>&</sup>lt;sup>3</sup> Sum values for Total Emissions (Column 6) and Weighted Total Emissions (Column 7) and enter in the Totals row.

<sup>&</sup>lt;sup>4</sup> Calculate Inventory Weighted Average Rating by dividing Weighted Total Emissions (Column 7) in the Totals row by Total Emissions (Column 6) in the Totals row.

2. Enter Reporting Year Data (enter domestic and foreign sources separately)

1	2	3	eign sources separately)  4	5	6	7
Rating	Weighting	Direct	Indirect Emissions From Purchased		Total Emissions	Weighted Total Emissions and
Category	Factor	Emissions	Energy	Carbon Flux	and Carbon Flux <sup>1</sup>	Carbon Flux <sup>2</sup>
			Domestic Source	es		
Α	4					
В	3					
С	2					
D	1					
Totals <sup>3</sup>						
Weighted Average Rating <sup>4</sup>						
			Foreign Sources	3		
Α	4					
В	3					
С	2					
D	1					
Totals <sup>3</sup>						
Weighted Average Rating <sup>4</sup>						

<sup>&</sup>lt;sup>1</sup>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.

<sup>&</sup>lt;sup>2</sup> Calculate Weighted Emissions and Carbon Flux by Rating Category by multiplying Column 2 by Column 6.

<sup>&</sup>lt;sup>3</sup> Sum values for Total Emissions (Column 6) and Weighted Total Emissions and Carbon Flux (Column 7) and enter in the Totals row.

<sup>&</sup>lt;sup>4</sup> Calculate Inventory Weighted Average Rating by dividing Weighted Total Emissions (Column 7) in the Totals row by Total Emissions (Column 6) in the Totals row.

#### **SECTION 3. EMISSION OFFSETS**

Co	mplete Section 3 only if this is a Reporting Year report.
Thi	is 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 CO<sub>2</sub>e.

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

1. Enter Information	<u>in the Table Below fo</u>	or Offsets Obta	ained From	Other Repo		
1	2	3	4	5	6	7
Name of Other Reporter	Name of Other Reporter's Subentity (If Applicable)	Domestic or Foreign	Gas	Unit of Measure	Quantity	Registered by Other Reporter?* (Y/N)
	(, (pp.1100.010)	5 c. c. g.,				( ' ' ' ' '
	1					

<sup>\*</sup>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 Part B if you have obtained emission offsets from a non-reporter to the 1605(b) Program. Also complete and attach one copy of Schedules I, II (if applicable), III, and the form for the appropriate emission reduction method (Addendum B1-B16) completed by, or on behalf of, the non-reporter.

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

1	2					
		3	4	5	6	7
	Name of Non-reporter's	Domestic				Non-reporter Has Met Requirements for
Name of	Subentity	or		Unit of	Quantity	Registration?*
	(If Applicable)		Gas	Measure	quantity	(Y/N)
Non-reporter	(п Аррисавіе)	Foreign	Gas	ivieasure		(1/N)
*If you are registering reduc						

<sup>\*</sup>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 the requested copies 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.

1. Indicate the method used (or, in the case of a Start Year report, the method that will be used) to

	estimate entity-wide emission reductions for the entity. In the event that emission reductions are not being reported for this entity, check last box below:
	<ul> <li>□ Changes in Emissions Intensity (Addendum B1)</li> <li>□ Changes in Absolute Emissions (Addendum B2)</li> <li>□ Changes in Carbon Storage (Addendum B3)</li> <li>□ Changes in Avoided Emissions (Addendum B4)</li> <li>□ Energy Generation and Distribution (Addendum B5)</li> <li>□ Coal Mine Methane Recovery (Addendum B6)</li> <li>□ Landfill Methane Recovery (Addendum B7)</li> <li>□ Geologic Sequestration (Addendum B8)</li> <li>□ Electricity Transmission and Distribution Improvements (Addendum B9)</li> <li>□ Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities (Addendum B10)</li> <li>□ Anaerobic Digestion of Animal Waste (Addendum B11)</li> <li>□ Recycling of Fly Ash (Addendum B12)</li> <li>□ Demand-Side Management and Other Emission Reduction Programs (Addendum B13)</li> <li>□ Combined Heat and Power Generators (Addendum B14)</li> <li>□ Other Action-Specific Methods (Addendum B15)</li> <li>□ Destruction of Chlorofluorocarbons (Addendum B16)</li> <li>□ Emission reductions are not being reported for this entity</li> </ul>
2.	If registering reductions on Addendum B1 or B5 for this entity, are you also reporting but not registering reductions using the Changes in Absolute Emissions method (Addendum B2)?* ☐ Yes ☐ No
3.	Complete and attach one copy of the appropriate emission reduction addendum (Addendum B1-B16) for the method used to estimate entity-level reductions of domestic emissions
4.	If you are reporting non-U.S. emissions within one entity-level report, attach one copy of the appropriate emission reduction addendum for your foreign emission reductions. If you choose to use a different emission reduction estimation method or Base Period for foreign emissions, you must create a separate subentity. Likewise, if you choose to disaggregate foreign emissions by region or country, you must create a separate subentity for each region or country.

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<sup>\*</sup> You may choose to supplement your report of registered reductions using an intensity-based method with a report of reductions in absolute emissions even if the output of the entity is declining. The absolute emission reductions included in this supplemental report are not eligible for registration.

### 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 the Subentity (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 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  Distinct organizational unit or other component of entity (e.g., discrete business line, facility, plant, vehicle fleet, or energy using system).  Not practicable to assess change in net emissions for the following reasons:
3.	<ul> <li>Enter Any Significant Changes to Previous the Subentity Statement (if applicable):</li> <li>□ The subentity has not undergone significant change since the last Voluntary Reporting of Greenhouse Gases report.</li> <li>□ The subentity was not included in the previous report</li> <li>□ The subentity's primary activity is new</li> <li>□ The subentity's primary activity existed prior to this report</li> <li>□ The subentity was not included in any other entity's previous reports</li> <li>□ The subentity was included in another entity's previous reports, explain:</li> </ul>
	□ The subentity was included in the previous report, but has undergone significant changes, as follows: □ Data are being resubmitted for the Base Period □ A new Base Period (using a different year or years) has been established. 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:

10. Enter Any Supplementary Information for the Subentity

Use this space (and attach additional sheets if necessary) to supply any supporting information you feel helps explain your entity or report that isn't accommodated directly in this reporting form.

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### **SECTION 2. SUBENTITY EMISSIONS INVENTORY**

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

### **SECTION 3. SUBENTITY EMISSION REDUCTIONS**

If this is a Reporting Year report, complete and attach the appropriate form from Addendum B1-B16 for this subentity.

	estim	eate the method used (or, in the case of a Start Year report, the method that will be used) to nate emission reductions for this subentity. In the event that emission reductions are not being rted for this subentity, check the last box below:
		Changes in Emissions Intensity (Addendum B1) Changes in Absolute Emissions (Addendum B2) Changes in Carbon Storage (Addendum B3) Changes in Avoided Emissions (Addendum B4) Energy Generation and Distribution (Addendum B5) Coal Mine Methane Recovery (Addendum B6) Landfill Methane Recovery (Addendum B7) Geologic Sequestration (Addendum B8) Electricity Transmission and Distribution Improvements (Addendum B9) Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities (Addendum B10) Anaerobic Digestion of Animal Waste (Addendum B11) Recycling of Fly Ash (Addendum B12) Demand-Side Management and Other Emission Reduction Programs (Addendum B13) Combined Heat and Power Generators (Addendum B14) Other Action-Specific Methods (Addendum B15) Destruction of Chlorofluorocarbons (Addendum B16) Emission reductions are not being reported for this subentity
2.	regis	gistering reductions on Addendum B1 or B5 for this entity, are you also reporting but not stering reductions using the Changes in Absolute Emissions method (Addendum B2)?* Yes No

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<sup>\*</sup> You may choose to supplement your report of registered reductions using an intensity-based method with a report of reductions in absolute emissions even if the output of the subentity is declining. The absolute emission reductions included in this supplemental report are not eligible for registration.

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### **SCHEDULE III. EMISSION REDUCTIONS**

### **SECTION 1. REGISTERED EMISSION REDUCTIONS**

Part A. Enter Domestic Net Entity-Level Registered Reductions and Carbon Storage (metric tons CO<sub>2</sub>e)

CO <sub>2</sub> e)		T	Γ	<del> </del>
	1	2 Em	ission Reduction	d one
		Gross Registered	Registered Reductions Distributed to Other	Net Registered Reductions (Subtract Column 3 from
Item	Method/Source	Reductions	Reporters	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 Recovery			
G	Landfill Methane Recovery			
Н	Geologic Sequestration			
I	Electricity Transmission and Distribution Improvements			
J	Anaerobic Digestion at Wastewater Treatment Facilities			
K	Anaerobic Digestion of Animal Waste			
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			
02	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.)			
T	TOTAL (Add row R to row S)			

# Part B. Enter Foreign Net Entity-Level Registered Reductions and Carbon Storage (metric tons COge)

	1	2 <b>Em</b>	3 ission Reduction	4
		<b>E</b> M		ne
Item	Method/Source	Gross Registered Reductions	Registered Reductions Distributed to Other Reporters	Net Registered Reductions (Subtract Column 3 from Column 2)
	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 Recovery			
G	Landfill Methane Recovery			
	Geologic Sequestration			
	Electricity Transmission and Distribution Improvements			
J	Anaerobic Digestion at Wastewater Treatment Facilities			
K	Anaerobic Digestion of Animal Waste			
L	Recycling of Fly Ash			
	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 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)			

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### SECTION 2. REPORTED BUT NOT REGISTERED EMISSION REDUCTIONS

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

	1	2 <b>Em</b>	3	4
			ission Reduction	ons
	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			
А3	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 Recovery			
G	Landfill Methane Recovery			
Н	Geologic Sequestration			
I	Electricity Transmission and Distribution Improvements			
J	Anaerobic Digestion at Wastewater Treatment Facilities			
K	Anaerobic Digestion of Animal Waste			
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			
O3	Other Indirect			
Р	Subtotal (Sum rows A1 through O)			
Q	Offsets			

	1	2	3	4
		Em	ission Reduction	ons
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 <sub>2</sub> 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 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) and Other Gases (Kilog if reporting reductions in domestic emissions of n			onal copies of
V	Destruction of CFCs or Reductions of Other Gases. Specify Gas:			
W	Reduction Deficit for this CFC or Other Gas 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)			

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Method/Source  Dioxide, Methane, Nitrous Oxide, Hydrofluor oride (metric tons CO <sub>2</sub> e)  Changes in Emissions Intensity	Gross Reported Reductions	ission Reduction Reported Reductions Distributed to Other Reporters	Net Reported Reductions (Subtract Column 3 from
Dioxide, Methane, Nitrous Oxide, Hydrofluor oride (metric tons CO <sub>2</sub> e)	Gross Reported Reductions	Reported Reductions Distributed to Other Reporters	Net Reported Reductions (Subtract
,		luorocarbons, a	Column 2)
Direct			
Indirect From Purchased Energy			
Other Indirect			
Changes in Absolute Emissions			
Direct			
Indirect From Purchased Energy			
Other Indirect			
Changes in Carbon Storage			
Changes in Avoided Emissions			
Energy Generation and Distribution			
Coal Mine Methane Recovery			
Landfill Methane Recovery			
Geologic Sequestration			
Electricity Transmission and Distribution Improvements			
Anaerobic Digestion at Wastewater Treatment Facilities			
Anaerobic Digestion of Animal Waste			
Recycling of Fly Ash			
Demand-Side Management or Other Emission Reduction Programs			
Combined Heat and Power			
Other Action-Specific Methods			
Direct			
Indirect From Purchased Energy			
Other Indirect			
Subtotal (Sum rows A1 through O)			
Offsets			
Offsets Obtained From Other Reporters			
	Direct Indirect From Purchased Energy Other Indirect Changes in Absolute Emissions Direct Indirect From Purchased Energy Other Indirect Changes in Carbon Storage Changes in Avoided Emissions Energy Generation and Distribution Coal Mine Methane Recovery Landfill Methane Recovery Geologic Sequestration Electricity Transmission and Distribution Improvements Anaerobic Digestion at Wastewater Treatment Facilities Anaerobic Digestion of Animal Waste Recycling of Fly Ash Demand-Side Management or Other Emission Reduction Programs Combined Heat and Power Other Action-Specific Methods Direct Indirect From Purchased Energy Other Indirect Subtotal (Sum rows A1 through O) Offsets	Changes in Emissions Intensity  Direct  Indirect From Purchased Energy  Other Indirect  Changes in Absolute Emissions  Direct  Indirect From Purchased Energy  Other Indirect  Changes in Carbon Storage  Changes in Avoided Emissions  Energy Generation and Distribution  Coal Mine Methane Recovery  Landfill Methane Recovery  Geologic Sequestration  Electricity Transmission and Distribution  Improvements  Anaerobic Digestion at Wastewater Treatment Facilities  Anaerobic Digestion of Animal Waste  Recycling of Fly Ash  Demand-Side Management or Other Emission Reduction Programs  Combined Heat and Power  Other Action-Specific Methods  Direct  Indirect From Purchased Energy  Other Indirect  Subtotal (Sum rows A1 through O)  Offsets	Changes in Emissions Intensity  Direct  Indirect From Purchased Energy  Other Indirect  Changes in Absolute Emissions  Direct  Indirect From Purchased Energy  Other Indirect  Changes in Carbon Storage  Changes in Avoided Emissions  Energy Generation and Distribution  Coal Mine Methane Recovery  Landfill Methane Recovery  Leandfill Methane Recovery  Geologic Sequestration  Electricity Transmission and Distribution  Improvements  Anaerobic Digestion at Wastewater Treatment Facilities  Anaerobic Digestion of Animal Waste  Recycling of Fly Ash  Demand-Side Management or Other Emission Reduction Programs  Combined Heat and Power  Other Action-Specific Methods  Direct  Indirect From Purchased Energy  Other Indirect  Subtotal (Sum rows A1 through O)  Offsets

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	1	2	3	4	
		Em	ission Reducti		
	Method/Source n Dioxide, Methane, Nitrous Oxide, Hydrofluoi uoride (metric tons CO₂e)	Gross Reported Reductions ocarbons, Perf	Reported Reductions Distributed to Other Reporters	Net Reported Reductions (Subtract Column 3 from Column 2) and Sulfur	
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) or Other Gases (Kilogra if reporting reductions in foreign emissions of mo			nal copies of	
V	Destruction of CFCs or Reductions of Other Gases. Specify Gas:				
W	Reduction Deficit for this CFC or Other Gas 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)				

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### 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, skip to Section 2 of Schedule IV, Reporter Self Certification.

1.		of the Entity Whose	-	Independently Verifie	ed
2.	Name of Verifyi Street:		vidual:	P.O. B	Box:
	Contact Name:_ Contact Title: Telephone: (		Fax: (		
3.	a. Corporate A  Californ  America  CDM E:  United I  Internat  Other, s	pendent Verifier's Quaccreditation(s) (che lia Climate Action Rean National Standard xecutive Board Kingdom Accreditational Standards Org specify:	ck all that apply): egistry ds Institute and Re on Scheme ganization (ISO)	gistrar Accreditation E	Board (ANSI-RAB)
	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 Strategion Ass Rev Corn Corn Rev State Ass Corn Rev Corn Corn Corn Corn Corn Corn Corn Corn	c Review and Assessurance that all source in the control of the co	data on this form in sment ces have been included gas data managent gas inventory train on quality assurance directords maintenation may be the conference of the couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy, internal confectivity data for a significant changes in a couracy changes in a couracy changes in a couracy change change changes in a couracy change ch	ncluded the following a uded nent systems ing procedures e/quality control proce ance consistency with DOE entity boundaries onsistency and plausik ample of sources	edures guidelines of entity

4.

☐ Field Audit☐ Independent n☐ Independent n		•	ırces
Certification of Independe	nt Verification		
any financial interest in the [entity]	e outcome of this nor do we pr except servic	s audit. We are r ovide any ongoi ces consistent w	's emissions report. We do not hold not owned in whole or in part by ing operational or support services to vith independent financial accounting or r private standards.
	to elines found in 10	verified a control of the control of	ts greenhouse gas emissions report ccording to the Voluntary Reporting of 11(d). We have found that the report e following:

- 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;
- The information reported on this form is consistent with information submitted in prior years, if any, or any inconsistencies with prior year 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.

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OMB No. 1905-0194

**Expiration Date: TBD** 

U.S. Department of Energy U.S. Energy Information Administration Form EIA-1605

### Voluntary Reporting of Greenhouse Gases

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.

Form Approved OMB No. 1905-0194

Expiration Date: TBD

Cartification

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#### **SECTION 2. REPORTER SELF CERTIFICATION**

- ☐ This 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 information are documented and explained in Schedule I, Entity Statement.
- ☐ This form meets the above three requirements for reporting reductions and the five additional requirements 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 these 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).

Certifying Official's Name:		
Mailing Address:		
Street or P.O. Box		
City:	State: Zip Code:	
Telephone: ( ) E-Mail:		
Signature:		
Date:		

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### Addendum A. Inventory of Foreign, Subentity Emissions, or Offset Emissions

This er	missions inventory is for:
	Entity-wide foreign operations
	A domestic or foreign subentity. Enter Name of Subentity:
	A domestic or foreign offset provider. Enter Name of Offset Provider:

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

1	2	3	4	5	6	7	8	9	10	11
				Bas	se Period	Emissions	or Carbo	n Flux	Reporting	
								Base	Year	
								Period	Emissions or	Weighted
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Carbon Flux	Rating*
Α	Direct Emissions									
A1	Carbon Dioxide	CO <sub>2</sub>	mt							
A2	Methane	CH <sub>4</sub>								
А3	Nitrous Oxide	N <sub>2</sub> O								
A4	Sulfur Hexafluoride	SF <sub>6</sub>								
A5	HFC (Specify)									
A6	PFC (Specify)									
A7	CFC (Specify)									
В	Indirect Emissions From Purchased Energy (Inventory)									
B1	Carbon Dioxide	CO <sub>2</sub>	mt							
B2	Methane	CH₄								
B3	Nitrous Oxide	N <sub>2</sub> O								
С	Indirect Emissions From Purchased Energy (Reductions)	CO <sub>2</sub> e	mt							
D	Carbon Flux	CO <sub>2</sub>	mt							
Е	Other Indirect Emissions									
E1	Carbon Dioxide	CO <sub>2</sub>	mt							

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10	11									
orting ear sions or on Flux	Weighted Rating*									

1	2	3	4	5	6	7	8	9	10	11
				Bas	se Period	Emissions	or Carbo	n Flux	Reporting	
								Base	Year	347. 1. 1. 4. 1
Item	Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Period Average	Emissions or Carbon Flux	Weighted Rating*
E2	Methane	CH <sub>4</sub>	Onits		112	11.5	11.4	Average	Carbon i lux	Rating
E3	Nitrous Oxide	N <sub>2</sub> O								
E4	Sulfur Hexafluoride	SF <sub>6</sub>								
E5	HFC (Specify)									
E6	PFC (Specify)									
E7	CFC (Specify)									
F	Captured CO <sub>2</sub> Sequestered in an Onsite Geologic Reservoir	CO <sub>2</sub>	mt							
G	Captured CO <sub>2</sub> Transferred to Another Entity for Sequestration in a Geologic Reservoir	CO <sub>2</sub>	mt							

mt = metric ton

<sup>\*</sup>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 Emissions and Carbon Flux (optional for independently verified reports)

1. Enter Direct Emissions

a. Stationary Combustion (incorporate all emissions, including CO<sub>2</sub> captured from stationary combustion for geologic sequestration)

1	1A	2	3	4	5	6	7	8	9	10	11	12
		Specific				Bas	se Perio	Emissio	ns			
		Facility/Source								Reporting		
	Fuel	Name							Base Period	Year	Estimation	
Source Category	Type	(optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	<b>Emissions</b>	Method	Rating*
Fossil Fuel	•		CO <sub>2</sub>	mt								
Combustion			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH₄	kg								
			$N_2O$	kg								
			CO <sub>2</sub>	mt								
			CH₄	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
Nonstandard Fuel			CO <sub>2</sub>	mt								
Combustion			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
Waste Fuels			CO <sub>2</sub>	mt								
Combustion			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
			CO <sub>2</sub>	mt								
			CH <sub>4</sub>	kg								
			N <sub>2</sub> O	kg								
Biomass			CH <sub>4</sub>	kg								
Combustion			N <sub>2</sub> O	kg								
Nonfuel Use of Fossil Fuels			CO <sub>2</sub>	mt								
Subtotal			CO <sub>2</sub> e	mt								

mt = metric ton; kg = kilogram

<sup>\*</sup>Complete column 12, 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 domestic or foreign subentity.

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b. Mobile Sources (incorporate all emissions, including CO<sub>2</sub> captured from mobile sources for geologic sequestration)

1	1A	2	3	4	5	6	7	8	9	<u>10</u>	11	12
		Specific				Base	e Period E	missions				
Source Category	Fuel Type	Vehicle Class/Fleet Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Esti- mation Method	Rating*
Highway			CO <sub>2</sub>	mt								
Vehicles			CH₄	kg								
			N <sub>2</sub> O	kg								
Off-Road			CO <sub>2</sub>	mt								
Vehicles			CH₄	kg								
			N <sub>2</sub> O	kg								
Water Borne			CO <sub>2</sub>	mt								
Vessels			CH₄	kg								
			N <sub>2</sub> O	kg								
Aircraft			CO <sub>2</sub>	mt								
			CH₄	kg								
			N <sub>2</sub> O	kg								
Mobile Refrigeration			HFC- 134a	kg								
and Air-												
Conditioning												
												<u> </u>
												<del>                                     </del>
Subtotal			CO <sub>2</sub> e	mt								+

mt = metric ton; kg = kilogram

<sup>\*</sup>Complete column 12, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 12 if this copy of Addendum A is being completed for a domestic or foreign subentity.

c. Sector-Specific Industrial Process Emissions (incorporate all emissions, including CO<sub>2</sub> captured from industrial processes emissions for geologic sequestration)

1	2	3	4	5	6	7	8	9	<u>10</u>	11	12
	Specific				Base	Period E	missions				
Process/Fugitive Emissions	Facility/ Source Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating*
				Indu	ustrial Pro	ocesses					
Adipic Acid Production		N₂O									
Aluminum Production (CO <sub>2</sub> only)		CO <sub>2</sub>	mt								
Ammonia Production		CO <sub>2</sub>	mt								
Cement Production – Clinker Production		CO <sub>2</sub>	mt								
Cement Production – Cement Kiln Dust		CO <sub>2</sub>	mt								
Hydrogen Production		CO <sub>2</sub>	mt								
Iron and Steel Production – All Processes*		CO <sub>2</sub>	mt								
Iron and Steel Production – Reducing Agents		CO <sub>2</sub>	mt								
Iron and Steel Production – Furnace Additives		CO <sub>2</sub>	mt								
Iron and Steel Production – Crude Iron Production		CO <sub>2</sub>	mt								
Iron and Steel Production – Conversion of Iron to Steel		CO <sub>2</sub>	mt								

mt = metric ton

\*Complete column 12, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 12 if this copy of Addendum A is being completed for a domestic or foreign subentity.

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1	2	3	4	5	6	7	8	9	<u>10</u>	11	12
	Specific				Base	e Period E	missions				
Process/Fugitive Emissions	Facility/ Source Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating**
			Industria	I Process	ses – Iror	and Stee	el Produc	ction			
Iron and Steel Production – Electrode Consumption in Electric Arc Furnaces		CO <sub>2</sub>	mt								
Iron and Steel Production – Secondary Steel Production in Electric Arc Furnaces		CO <sub>2</sub>	mt								
Iron and Steel		CO <sub>2</sub>	mt								
Production – Other		CH <sub>4</sub>									
Lime Production		CO <sub>2</sub>	mt								
Limestone and Dolomite Use		CO <sub>2</sub>	mt								
Mathanal Deaduation		CO <sub>2</sub>	mt								
Methanol Production		CH₄									
Methane Emissions From the Production of Other Petrochemicals		CH <sub>4</sub>									
Nitric Acid Production		N <sub>2</sub> O									
Soda Ash Production		CO <sub>2</sub>	mt								
Soda Ash Use		CO <sub>2</sub>	mt								

<sup>\*</sup> Use this line only if specific data on reducing agent, additive, iron ore and/or crude iron consumption are not available.

\*\* Complete column 12, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 12 if this copy of Addendum A is being completed for a domestic or foreign subentity.

1	2	3	4	5	6	7	8	9	10	11	12
	Specific			_	Base	Period E	missions				
Process/Fugitive Emissions	Facility/ Source Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating*
					Energ	y					
Coal Mines		CH₄									
Oil and Natural Gas		CH₄									
Industries		CO <sub>2</sub>	mt								
industries		N <sub>2</sub> O									
				١	Vaste Han	dling					
Domestic and		CH <sub>4</sub>									
Industrial Wastewater		N <sub>2</sub> O									
Landfills		CH <sub>4</sub>									
				Н	igh GWP	Gases					
Aluminum Production		PFCs									
(specify gas)		SF <sub>6</sub>									
HCFC-22 Production		HFC-23									
SF <sub>6</sub> Emissions From		SF <sub>6</sub>									
Industrial Use and		HFCs									
Production of HFCs, PFCs, and SF <sub>6</sub> (for		PFCs									
HFCs and PFCs,		SF <sub>6</sub>									
Magnesium		SF <sub>6</sub>									
Semiconductor		PFCs									
Manufacture (for HFCs and PFCs,		HFCs									
specify gas)		SF <sub>6</sub>									
		CO <sub>2</sub>	mt								
		CH <sub>4</sub>									
Other (for HFCs		N <sub>2</sub> O									
PFCs, and CFCs,		SF <sub>6</sub>									
specify gas)		PFC:									
		HFC:									
		CFC:									
Subtotal		CO <sub>2</sub> e	mt								

<sup>\*</sup>Complete column 12, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 12 if this copy of Addendum A is being completed for a domestic or foreign subentity.

d. Agricultural Sources (incorporate all emissions, including CO<sub>2</sub> captured from agricultural sources for geologic sequestration)

1	2	3	4	5	6	7	8	9	<u>10</u>	11	12
	Specific				Base	Period Emis	ssions				
Source Category	Source Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating*
Enteric Fermentation		CH <sub>4</sub>									
		CH <sub>4</sub>									
Livestock Waste		N <sub>2</sub> O									
		N <sub>2</sub> O									
Residue Burning		CH₄									
Rice Cultivation – 1 <sup>st</sup> Harvest		CH₄									
Rice Cultivation – 2 <sup>nd</sup> ("ratoon") harvest		CH <sub>4</sub>									
Nitrous Oxide From Agricultural Soils – Nitrogen Application		N <sub>2</sub> O									
Nitrous Oxide From Agricultural Soils – Organic Soils		N <sub>2</sub> O									
Lime Application		CO <sub>2</sub>	mt								
Cultivation of Organic Soils		CO <sub>2</sub>	mt								
Other Agricultural Sources (specify source and gas):											
Subtotal		CO <sub>2</sub> e	mt								

<sup>\*</sup>Complete column 12, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 12 if this copy of Addendum A is being completed for a domestic or foreign subentity.

e. Fugitive Emissions Associated With Geologic Reservoirs

1	2	3	4	5	6	7	8	9	10	11	12
	Specific				Bas	e Period E	missions	1			
Source Category	Source/ Reservoir Name (optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year	Estimation Method	Rating*
Fugitive Emissions From the Extraction of Naturally Occurring CO <sub>2</sub>	(optional)	CO <sub>2</sub>	mt		11 2	11.0		Avelage	roui	Metriod	rating
Fugitive Emissions During Extraction of CO <sub>2</sub> From Anthropogenic Sources		CO <sub>2</sub>	mt								
Fugitive Emissions During Transport and Processing		CO <sub>2</sub>	mt								
Fugitive Emissions of CO <sub>2</sub> During Injection and Extraction for Enhanced Resource Recovery		CO <sub>2</sub>	mt								
Post-Injection Seepage of Carbon Dioxide to the Atmosphere		CO <sub>2</sub>	mt								

mt = metric ton

## f. Captured CO<sub>2</sub> Emissions From Anthropogenic Sources (captured CO<sub>2</sub> emissions should also be included as emissions in Questions 1a through 1d above).

1	2	3	4	5	6	7	8	9
			Base Period Average Quantity			Reporting Year Quantity		
Source	Gas	Unit of Measure	Onsite	Offsite	Total	Onsite	Offsite	Total
Stationary Combustion	CO <sub>2</sub>	metric tons						
Sector-Specific Industrial Process Emissions	CO <sub>2</sub>	metric tons						
Other (Mobile and Agricultural Sources)	CO <sub>2</sub>	metric tons						
Subtotals	CO <sub>2</sub>	metric tons						

<sup>\*</sup>Complete column 12, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 12 if this copy of Addendum A is being done for a domestic or foreign subentity.

### 2. Enter Indirect Emissions From Purchased Energy\*

a. Physical Quantities of Energy Purchased

1	2	3	4	5	6	7	8	9
			Base I	Period Const	umption			
Source	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Consumption	System Type/Fuel Used for Generation
Electricity	MWh							
Steam	MMBtu							
Hot Water	MMBtu							
Chilled Water	Ton-Hours Cooling	•						

b. Emissions From Purchased Energy for Emissions Inventory

1	2	3	4	5	6	7	8	9	<u>10</u>	11	12
	Specific				Base	Period Emis	ssions		Reporting Year Emissions		
_	Facility/ Region Name	Region						Base Period	Year	Estimation	Rating
Source	(optional)	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Average	Emissions	Method	*
Electricity		$CO_2$	mt								
		CH₄	kg								
		N <sub>2</sub> O	kg								
Steam		CO <sub>2</sub>	mt								
		CH <sub>4</sub>	kg								
		N <sub>2</sub> O	kg								
Hot Water		CO <sub>2</sub>	mt								
		CH <sub>4</sub>	kg								
		N <sub>2</sub> O	kg								
Chilled Water		CO <sub>2</sub>	mt								
		CH <sub>4</sub>	kg								
		N <sub>2</sub> O	kg								
Total		CO <sub>2</sub> e	mt								

mt = metric ton; kg = kilogram

<sup>\*</sup>Complete column 12, weighted rating, if this copy of Addendum A is being completed for entity-wide foreign operations. Do not complete column 12 if this copy of Addendum A is being done for a domestic or foreign subentity.

c. 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.)

ii calculating reductions	101 11110 00	bornery ac	nig riadenae	2 . 0. 22	/					
1	2	3	4	5	6	7	8	9	10	11
				Base	<b>Period Emis</b>	sions				
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating*
Electricity	CO <sub>2</sub> e	mt								
Steam, Hot Water, and Chilled Water**	CO <sub>2</sub> e	mt								
Total	CO <sub>2</sub> e	mt								

mt = metric ton

### 3. Enter Other Indirect Emissions\*

1	2	3	4	5	6	7	8	9	10	11
				Base	Period Emis	ssions				
Source	Gas	Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Reporting Year Emissions	Estimation Method	Rating**
Employee Commuting										
Manufacture & Sale of Energy Efficient Products										
Consumption of Energy- intensive Products										
Nitrous Oxide Emissions from Fertilizer Application	N <sub>2</sub> O									
Other:										
Subtotal	CO <sub>2</sub> e	mt								

mt = metric ton

<sup>\*</sup>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 domestic or foreign subentity.

<sup>\*\*</sup>Sum emissions reported for these sources in Question 2b above.

<sup>\*</sup>Do not include in emission inventory.

<sup>\*\*</sup>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 domestic or foreign subentity.

#### 4. Enter Terrestrial Carbon Fluxes and Stocks

#### a. Forestry Activities

1	2	3	4	5	6	7	8	9	10
					Carbon Stocks	3			
Categories	Specific Source/ Area Name (optional)	Gas	Units	Base Period	Estimated Carbon Stocks in Year Prior to Reporting Year	Reporting Year Carbon Stocks	Reporting Year Stock Change or Carbon Flux <sup>1,2</sup>	Estimation Method <sup>3</sup>	Rating*
Afforestation, Mine					-				
Land Reclamation, and		$CO_2$	mt						
Forest Restoration									
Agroforestry		$CO_2$	mt						
Forest Management <sup>4</sup>		$CO_2$	mt						
Short-Rotation Biomass Energy Plantations		CO <sub>2</sub>	mt						
Urban Forestry		CO <sub>2</sub>	mt						
Timber Harvesting <sup>5</sup>		CO <sub>2</sub>	mt						
Other <sup>6</sup>		CO <sub>2</sub>	mt						
Total		CO <sub>2</sub>	mt	_					

<sup>&</sup>lt;sup>1</sup>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.

<sup>&</sup>lt;sup>2</sup>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.

<sup>&</sup>lt;sup>3</sup>Methods include lookup tables, models, measurement, or a combination of these methods. If using a model, please indicate the name.

<sup>&</sup>lt;sup>4</sup>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. <sup>5</sup>Activities such as thinning should be included under Forest Management.

<sup>&</sup>lt;sup>6</sup>"Other" includes activities not covered in the previous categories practiced by landowners that may result in changes in carbon fluxes or stocks.

<sup>\*</sup>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 domestic or foreign subentity.

#### b. Wood Products:

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

1	2	3	4	5	6	7	8
Cotomorni	Con	Haita	Estimated Carbon Stocks in Harvested Wood Products in Year Prior to	Estimated Carbon Stocks in Harvested Wood Products in	Reporting Year	Estimation	Datin ex
Category	Gas	Units	Reporting Year	Reporting Year	Stock Change	Method	Rating*
Wood Products	CO <sub>2</sub>	mt					

mt = metric ton

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

1	2	3	4	5	6	7
Category	Gas	Units	Stock of Carbon in Harvested Wood	100 year Residual Carbon Stock	Estimation Method	Rating*
Wood products	CO <sub>2</sub>	mt				

mt = metric ton

#### c. 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.

1	2	3	4	5	6	7	8
Name/Description of Tract of Land	Type of Restriction (e.g., Easement, Deed Restrictions, etc.)	Year Protected	Area (Acres)	Units	50% of Carbon Stock Accumulated in 50 Years from Inception of Preservation Activity	Estimation Method	Rating*
1.							
2.							
3.							
4.							
Total							

<sup>\*</sup>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 domestic or foreign subentity.

<sup>\*</sup>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 domestic or foreign subentity.

<sup>\*</sup>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 domestic or foreign subentity.

d. Forest Land That Experiences Carbon Losses From Natural Disturbances

This table documents carbon stock changes on each tract of disturbed lands and should be completed for each year after the disturbance until carbon stocks reach pre-disturbance levels.

Carbon Stocks reac	ii pio diotalbo	1100 10 1010.								
1	2	3	4	5	6	7	8	9	10	11
			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										

<sup>\*</sup>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 domestic or foreign subentity.

e. Sustainably Managed Forests

1	2	3	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
1.			•
2.			
3.			
4.			
Total			

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

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

### g. Other Terrestrial Carbon Fluxes

1	2	3	4	5	6	7	8	9	10
					Carbon Stocks				
Categories	Specific Source/ Area Name (optional)	Gas	Units	Base Period Average	Estimated Carbon Stocks in Year Prior to Reporting Year	Estimated Carbon Stocks in Reporting Year	Reporting Year Stock Change or Carbon Flux <sup>1,2</sup>	Estimation Method <sup>3</sup>	Rating*
Crops on Mineral Soils		CO <sub>2</sub>	mt						
Pasture/Grazing		CO <sub>2</sub>	mt						
Land-Use Change		CO <sub>2</sub>	mt						
Other:		CO <sub>2</sub>	mt						
Total		CO <sub>2</sub>	mt						

mt = metric ton

h. Terrestrial Carbon Flux Summary

1	2	3	4	5
			Reporting Year Stock Change or Carbon	
Categories	Gas	Units	Flux	Rating*
Forestry Activities	CO <sub>2</sub>	mt		
Wood Products Method 1	CO <sub>2</sub>	mt		
Wood Products Method 2	CO <sub>2</sub>	mt		
Land Restoration and Forest Preservation	CO <sub>2</sub>	mt		
Sustainably Managed Forests	CO <sub>2</sub>			
Incidental Lands	CO <sub>2</sub>			
Other Terrestrial Carbon Fluxes	CO <sub>2</sub>	mt		
Total Reporting Year Terrestrial Carbon Flux	CO <sub>2</sub>	mt		

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup>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.

<sup>&</sup>lt;sup>3</sup> Methods include lookup tables, models, measurement, or a combination of these methods. If using a model, please indicate the name.

<sup>\*</sup>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 domestic or foreign subentity.

<sup>\*</sup>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 domestic or foreign subentity.

5. Identify and Estimate De Minimis Emissions Sources

1	2	3	4	5	6	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 <sub>2</sub> e	metric tons			

<sup>\*</sup>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, Subentity, or Offset Emissions and Carbon Flux

### 1. Enter Total Emissions and Carbon Flux

	1	2	3	4	5	6	7	8
				Base	Period Em	issions	•	Reporting Year
Item	Source	Gas/ Units	Yr 1	Yr 2	Yr 3	Yr 4	Base Period Average	Emissions or Carbon Flux
Α	Direct Emissions	mtCO <sub>2</sub> e						
В	Indirect Emissions From Purchased Energy for Emissions Inventory	mtCO <sub>2</sub> e						
С	Indirect Emissions From Purchased Energy for Calculation of Emission Reductions	mtCO <sub>2</sub> e						
D	Total Emissions (A + B)*	mtCO <sub>2</sub> e						
Е	Carbon Flux	mtCO <sub>2</sub> e						
F	Captured CO <sub>2</sub> Sequestered in an Onsite Geologic Reservoir**	mtCO₂e						
G	Total Inventory Emissions (D – E – F)	mtCO <sub>2</sub> e						
Н	Other Indirect Emissions	mtCO <sub>2</sub> e						
I	Captured CO <sub>2</sub> Transferred to Another Entity for Sequestration in a Geologic Reservoir**	mtCO₂e						

mtCO<sub>2</sub>e = metric tons carbon dioxide equivalent

<sup>\*</sup>Do not include Indirect Emissions from Purchased Energy for Calculation of Emission Reductions (Item C) in Total Emissions.

<sup>\*\*</sup>Do not include CO<sub>2</sub> extracted and captured from natural sources or CO<sub>2</sub> recycled during enhanced resource recovery operations.

## Addendum B1. Changes in Emissions Intensity

If Reporting Subentities, Enter Name of Subentity:

### Part A. Output

1. Enter Physical, Economic, or Indexed Output Measures for the Base Period and Reporting Year

	1 11 <b>yolo</b> al, <b>2</b> 0	2	3	4	5	6	7	8
	Output	Unit of		E	Base Perio	d		Reporting
Item	Measure	Measure	Yr 1	Yr 2	Yr 3	Yr 4	Avg.	Year
	Physical Measure							
Α								
			Eco	nomic Me	asure			
В		Current \$						
С		Constant Year (\$2000)						
Indexed Measure								
D		[Physical or Economic]						

2.	If Providing an Output Measure Not Described in the Technical Guidelines (see Table 2.2), Indicate Reason Why Alternative Measure Was Selected (check all that apply):  ☐ Industry/trade group standard ☐ Reported to state/federal government agencies ☐ Used in annual reports ☐ Other
3.	Define and Describe the Output Measure Used and Provide a Rationale for Why the Measure Was Selected:

### Part B. Emissions, Emissions Intensity, and Emission Reductions

1. Enter Base Period and Reporting Year Emissions (metric tons CO<sub>2</sub>e)

	1	2	3	4
Item	Description	Direct Emissions*	Indirect Emissions From Purchased Energy**	Other Indirect Emissions
Е	Base Period Emissions		<u> </u>	
F	Reporting Year Emissions			

<sup>\*</sup>Include CO<sub>2</sub> captured and sequestered in geologic reservoirs.

2. Calculate and Enter Base Period and Reporting Year Intensity (metric tons CO<sub>2</sub>e per unit of output)

	4	0	20 20 20 40. 0	4
	1	2	3	4
			Indirect Emissions From	Other
		Direct	Purchased	Indirect
Item	Description	<b>Emissions</b>	Energy	<b>Emissions</b>
G	Base Period Intensity [E / (A7, C7, or D7)]			
Н	Reporting Year Intensity [F / (A8, C8, or D8)]			

3. Calculate and Enter Emission Reductions (metric tons CO<sub>2</sub>e)

<u>3. Cal</u>	alculate and Enter Emission Reductions (metric tons CO <sub>2</sub> e)					
	1	2	3	4		
		Sou	rce of Reduct	ions		
		Dinast	Indirect Emissions From	Other		
		Direct	Purchased	Indirect		
Item	Description	<b>Emissions</b>	Energy	Emissions*		
I	Emission Reductions [(G - H) * A8, C8, or D8]					

<sup>\*</sup>Reductions of Other Indirect Emissions may not be registered.

4. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]

Enter Action Type Code	Describe Action

<sup>\*\*</sup>Calculate indirect emissions from purchased electricity using electricity end use factors for emission reductions from Appendix F.

5.	Identify Cause(s) of the Emission Reduction(s) (check all that apply):  ☐ Voluntary action ☐ Plant closing ☐ Government requirement ☐ Federal requirement ☐ State requirement ☐ Local requirement
6.	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<sub>2</sub>e)

1	2	3	4	5
Name of Recipient	Emissions Type*	Gas	Units	Amount
		CO <sub>2</sub> e	metric	
		CO <sub>2</sub> e	tons	
		CO <sub>2</sub> e	metric	
		CO <sub>2</sub> e	tons	
		CO <sub>2</sub> e	metric	
		0026	tons	
		CO <sub>2</sub> e	metric	
		OO <sub>2</sub> e	tons	
Total Direct Emission Reductions		CO <sub>2</sub> e	metric	
		OO <sub>2</sub> e	tons	
Total Indirect Emission Reductions		CO <sub>2</sub> e	metric	
From Purchased Energy		CO <sub>2</sub> e	tons	
Total Other Indirect Emission		CO₂e	metric	
Reductions		0026	tons	

<sup>\*</sup>Direct, Indirect from Purchased Energy, Other Indirect.

Addendum B2.	Changes in	<b>Absolute</b>	<b>Emissions</b>
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Reporting Subertities, Effet Name of Subertity.	f Reporting Subentities,	Enter Name of Subentity:	
---	--------------------------	--------------------------	--

Requirement for Using Method To Register Reductions: Reporting Year output must be equal to or greater than the Base Period output.

### Part A. Output

1. Enter Physical, Economic, or Indexed Output Measures for Base Period and Reporting Year 3 4 2 5 6 8 **Base Period** Output Unit of Reporting Yr 1 Yr 2 Yr 3 Year Item Measure Measure Yr 4 Avg. **Physical Measure** Α **Economic Measure** В Current \$ Constant С Year (\$2000) **Indexed Measure** [Physical or

	D		Economic]						
2.		Yes	ear Output Equa				Period Aver	age Output	?
3.	the □ Ir	Reason Why A	put Measure No Iternative Meas Toup standard Teports	sure Was S	Selected (chorted to stat	eck all that	t apply): `		2), Indicate
4.		ine and Describ	e the Output M	leasure Us	ed and Pro	vide a Rati	onale for W	hy the Mea	asure Was

F R G R H R	<b>Description</b> Base Period Reporting Year	Direct Emissions*	Japan Survey of Emission Indirect Emissions From Purchased	Other
E B F R G R H R	Base Period	Direct	Indirect Emissions From Purchased	Other
F R G R H R			Energy**	Indirect Emissions
G R H R				
H R	Registered Emission Reductions (E - F)		-	
	Reported Emission Reductions (E - F)			
	2 captured and sequestered in geologic reservoirs (	onsite and offsite)		
alculate in	ndirect emissions from purchased electricity using e	lectricity end use factors for e		
[Enter	codes from Appendix M]	. Word the Energ Gade	- Critic Reddolle	
nter Act		Decembe Astism		
Туре Со	ode	Describe Action		
□ Volu □ Plar □ Gov □	ry the Cause(s) of the Emission Reduction untary action nt closing vernment requirement Federal requirement State requirement Local requirement	n(s) (check all that apply	ሳ:	
Summ (Option	narize Benefits and Costs of the Actions T	aken To Reduce Green	house Gas Emi	ssions

### 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<sub>2</sub>e)

1	2	3	4	5
Name of Recipient	Emissions Type*	Gas	Units	Amount
		CO <sub>2</sub> e	metric	
		CO <sub>2</sub> e	tons	
		CO <sub>2</sub> e	metric	
		CO <sub>2</sub> e	tons	
		CO <sub>2</sub> e	metric	
		CO <sub>2</sub> e	tons	
		CO <sub>2</sub> e	metric	
		OO <sub>2</sub> e	tons	
Total Direct Emission Reductions		CO <sub>2</sub> e	metric	
Total Direct Eliiission Neductions		OO <sub>2</sub> e	tons	
Total Indirect Emission Reductions		CO <sub>2</sub> e	metric	
From Purchased Energy		CO26	tons	
Total Other Indirect Emission		CO <sub>2</sub> e	metric	
Reductions		CO <sub>2</sub> e	tons	

<sup>\*</sup>Direct, Indirect from Purchased Energy, Other Indirect.

### Addendum B3. Changes in Carbon Storage

If Reporting Subentities,	Enter Name of Subentity	y:

### Part A. Terrestrial Carbon Flux

1. Enter Reporting Year Inventory of Terrestrial Carbon Flux

		2	3
Item	Categories	Units of Measure	Reporting Year Stock Change or Carbon Flux*
А	Forestry Activities	metric tons CO <sub>2</sub> e	
В	Wood Products – Method 1	metric tons CO <sub>2</sub> e	
С	Wood Products – Method 2	metric tons CO <sub>2</sub> e	
D	Land Restoration and Forest Preservation	metric tons CO <sub>2</sub> e	
Е	Sustainably Managed Forests	metric tons CO <sub>2</sub> e	
F	Incidental Lands	metric tons CO <sub>2</sub> e	
G	Other Terrestrial Carbon Fluxes	metric tons CO <sub>2</sub> e	
Н	Total Reporting Year Terrestrial Carbon Flux	metric tons CO <sub>2</sub> e	

<sup>\*</sup>From Schedule I, Section 2, Part B, Question 4, if reporting for entity only. From Addendum A, Part B, Question 4, if reporting for a subentity.

2. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]

Enter Action Type Code	Describe Action

3.	Identify	/ the (	Cause(	s) (	of the	Emission	Reduction	า(ร	) (	checi	k al	l that	app	IJγ	):

	Vo	lunta	ary	action	วท
--	----	-------	-----	--------	----

☐ Plant closing

☐ Government requirement

☐ Federal requirement

☐ State requirement

☐ Local requirement

4.	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 CO<sub>2</sub>e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
TO	OTAL	CO <sub>2</sub> e	metric tons	

# Addendum B4. Changes in Avoided Emissions

lf F	Repor	ting Subenti	ties, Enter Name of S	ubentity:					
Pa	rt A.	Generated	Energy Source and (	Characteristics					
1.	<ul> <li>Did the Entity or Subentity Emit Greenhouse Gases in the Base Period (including any capacity acquired since the Base Period)?</li> <li>☐ Yes (If Yes, you must estimate reductions using Addendum B5, Emission Reductions from Energy Generation and Distribution)</li> <li>☐ No</li> </ul>								
2.			Question 3)	or Divested Generation Capacity Since the Base Period?					
3.		s the Acquire entity?	ed or Divested Capaci	ty Operational During the Base Period for the Entity or					
		Yes (If Yes divested)	, you must adjust Bas	e Period generation to reflect any capacity that was acquired or					
4.	<ul> <li>Identify Energy Product Type Sold (check all that apply)</li> <li>□ Electricity</li> <li>□ Steam</li> <li>□ Hot water</li> <li>□ Chilled water</li> </ul>								
Ра	rt B.	Energy Ger	neration, Emissions,	and Emission Reductions					
1.	Activ	vity Data, Er	mission Coefficients, C	Conversion Factors, and Emission Reductions					
	<ul> <li>a. Select Geographic Scope of the Avoided Emissions Benchmark(s) (based on the regions in Appendix F):</li> <li>Single Domestic Region</li> <li>Multiple Domestic Regions</li> <li>Foreign Region(s)</li> </ul>								
	<ul> <li>b. If Reporting Reductions for a Single Domestic Region, Enter the Number of the Region (1 throug 15) from Appendix F:</li> </ul>								
				le or Foreign Regions, Enter the Weighted Avoided Emissions ow It Was Calculated:					
	Ben	chmark Type	Avoided Emissions Benchmark	Explanation					
	lectric	city (metric O <sub>2</sub> e/MWh)							
TI (k	herma ilogra	al*							

<sup>\*</sup>Complete this row only if you are reporting avoided emissions from foreign chilled water generation. If you are producing chilled water from both electric and natural gas chillers, enter a weighted factor and explain above.

d. Enter Activity Data, Emission Coefficients, Conversion Factors, and Emission Reductions

	1	2	3	4	5	6
Item	Description	Electricity	Steam	Hot Water	Chilled Water	Total
Α	Base Period Energy Sold	MWh	MMBtu	MMBtu	ton hours	
В	Reporting Year Total Emissions (metric tons CO <sub>2</sub> e)					
С	Reporting Year Energy Generated	MWh	MMBtu	MMBtu	ton hours	
D	Reporting Year Emissions Intensity (B / C)	metric tons CO₂e/MWh	metric tons CO₂e/MMBtu	metric tons CO₂e/MMBtu	metric tons CO <sub>2</sub> e/ton hour	
Е	Reporting Year Energy Sold	MWh	MMBtu	MMBtu	ton hours	
F	Reporting Year Incremental Energy Sold (E - A)	MWh	MMBtu	MMBtu	ton hours	
G	Avoided Emissions Intensity Benchmark	metric tons CO₂e/MWh	metric tons CO <sub>2</sub> e/MMBtu	metric tons CO <sub>2</sub> e/MMBtu	metric tons CO₂e/ton hour	
Н	Emission Reduction [(G - D) * F] (metric tons CO <sub>2</sub> e)					

2. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]

Enter Action Type Code	Describe Action

3.	Identify the	Cause(s) of the	Emission	Reduction(s)	(check all	that apply):
----	--------------	-----------------	----------	--------------	------------	--------------

- □ Voluntary
- ☐ Plant closing
- ☐ Government requirement
  - ☐ Federal requirement
  - ☐ State requirement
  - □ Local requirement

4.	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<sub>2</sub>e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
	TOTAL	CO <sub>2</sub> e	metric tons	

## Addendum B5. Energy Generation and Distribution

If F	Reporting Subentities, Enter Name of Subentity:
Pa	rt A. Energy Generation and Emissions
1.	Energy Product Type Exported (check all that apply)  ☐ Electricity ☐ Steam ☐ Hot water ☐ Chilled water
2.	Select Geographic Scope of Avoided Emissions Benchmark(s) (based on the regions in Appendix F)  ☐ Single Domestic Region  ☐ Multiple Domestic Regions  ☐ Foreign Region(s)
3.	If Reporting Reductions for a Single Domestic Region, Enter Number of the Region (1 through 15) from Appendix F:

4. If Reporting Reductions for Multiple or Foreign Regions, Enter the Weighted Avoided Emissions Benchmark and Briefly Explain How It Was Calculated:

Benchmark Type	Avoided Emissions Benchmark	Explanation
Electricity (metric tons CO <sub>2</sub> e/MWh)		
Thermal* (kilograms CO <sub>2</sub> e/ton-hour)		

<sup>\*</sup>Complete this row only if you are reporting avoided emissions from foreign chilled water generation. If you are producing chilled water from both electric and natural gas chillers, enter a weighted factor and explain above.

5. Emissions, Energy Generation, and Emissions Intensity

	1	2	3	4	5
Item	Description	Electricity	Steam	Hot Water	Chilled Water
Α	Base Period Emissions (metric tons CO <sub>2</sub> e)				
В	Base Period Exported Energy	MWh	MMBtu	MMBtu	ton hours
С	Base Period Emissions Intensity (A / B)	metric tons CO <sub>2</sub> e/ MWh	metric tons CO <sub>2</sub> e/ MMBtu	metric tons CO <sub>2</sub> e/ MMBtu	metric tons CO <sub>2</sub> e/ ton hours
D	Reporting Year Emissions (metric tons CO <sub>2</sub> e)				
E	Reporting Year Exported Energy	MWh	MMBtu	MMBtu	ton hours
F	Reporting Year Emissions Intensity (D / E)	metric tons CO <sub>2</sub> e/ MWh	metric tons CO <sub>2</sub> e/ MMBtu	metric tons CO <sub>2</sub> e/ MMBtu	metric tons CO <sub>2</sub> e/ ton hours
G	Reporting Year Incremental Exported Energy (E - B)	MWh	MMBtu	MMBtu	ton hours
Н	Avoided Emissions Benchmark	metric tons CO <sub>2</sub> e/ MWh	metric tons CO <sub>2</sub> e/ MMBtu	metric tons CO <sub>2</sub> e/ MMBtu	metric tons CO <sub>2</sub> e/ ton hours

#### Part B. Emission Reductions

1. Calculate and Enter Emission Reductions

	1	2	3	4	5	6
				Hot	Chilled	
Item	Description	Electricity	Steam	Water	Water	Total
I	Emission Reductions From Improvements in Historical Emissions Intensity [(C - F) * B] (metric tons CO <sub>2</sub> e)					
J	Emission Reductions From Incremental Exported Energy [(H - F) * G] (metric tons CO <sub>2</sub> e)					
К	Total Emission Reductions From Energy Generation and Exports (I + J) (metric tons CO <sub>2</sub> e)					

2. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]

Described Assistan
Describe Action

Enter Action Type Code		Describe Action
	71	
3.	☐ Voluntary☐ Plant clos☐ Governm☐ Fede☐ State	
4.	Summarize (optional):	Benefits and Costs of the Actions Taken To Reduce Greenhouse Gas Emissions

## 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 <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
TOTAL	CO <sub>2</sub> e	metric tons	

## Addendum B6. Coal Mine Methane Recovery

If Reporting Subentities,	Enter Name of Suben	ity:

#### Part A. Action Identification

1. Enter Location of Coal Mine(s):

<ol> <li>Enter Location of Coal Mine(s)</li> </ol>	:					
1	2	3	4			
	Location					
		State	Country			
		(if domestic	(if foreign			
Name	City	subentity)	Country (if foreign subentity)			
Tunio .	- Only	- Cabonary)	- Cabonaty)			
			<u> </u>			

3.	Describe Action:

Month\_\_\_\_\_

Year\_\_\_\_\_

4. Was the Action Reported Last Year?

2. Enter Date Methane Recovery Began:

☐ Yes ☐ No

#### Part B. Action Quantification

1. Enter Action Characteristics

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

2. 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	JRING MININ	G		
	V	entilation Sy	ystems			
Flared						
Electricity Used Onsite						
Electricity Sold to Grid						
Injected Into Pipeline						
Direct Use Onsite						
Total Ventilation Systems						
	Other	Degasificati	on Methods			
Flared						
Electricity Used Onsite						
Electricity Sold to Grid						
Injected Into Pipeline						
Direct Use Onsite						
Total Other Degasification						
	PRE-M	INING DEGA	SIFICATION			
Flared						
Electricity Used Onsite						
Electricity Sold to Grid						
Injected Into Pipeline						
Direct Use Onsite						
Total Pre-Mining Degasification						
Total All Methods						

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
		FICATION DU		IG		
	\	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-N	IINING 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)

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
•	DEGASIF	ICATION DU	RING MINING	3		
	٧	entilation Sy	stems			
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 CO<sub>2</sub>e)

•	o. Enter Mass of Methane Cap	tarea (mem		,			
	1	2	3	4	5	6	7
			I	Base Period	i		
						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 CO <sub>2</sub> e	
В	Methane Captured in Reporting Year	metric tons CO <sub>2</sub> e	
С	Change in Methane Captured (B – A)	metric tons CO <sub>2</sub> e	

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

	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						
Е	Electricity Sales						
F	Total Generation						

3.	. Carbon Dioxide Displaced From Electricity Used Onsite (avoided emissions)						
	a.	Select Geographic Sco F):	pe of Avoided Emissions Benchmark	(based on the regions	s in Appendix		
		☐ Single Domestic Region					
		<ul><li>☐ Multiple Domestic</li><li>☐ Foreign Region(s)</li></ul>	Regions				
		L Torcigit (Cgion(3)					
	b.		s for a Single Domestic Region, Enter	Number of the Regio	n (1 through		
		15) from Appendix F: _					
	C.		s for Multiple or Foreign Regions, Ente Explain How It Was Calculated:	er the Weighted Avoic	led Emissions		
	Αv	oided Emissions					
(n	noti	Benchmark ric tons CO₂e/MWh)	Explan	ation			
_('''	ieu	ic tons co <sub>2</sub> e/wwin)	Схріаі	iation			
	d.	Calculate Carbon Diox	de Displaced From Electricity Used C	)nsite			
		Calculate Carbon Blox	1	2	3		
Ite			Description	Units of Measure	Quantity		
G			Electricity Used Onsite	MWh			
H	1	Reporting Year Electri		MWh			
I		G) "	ental Electricity Used Onsite (H –	MWh			
J	l	Reporting Year Total E Onsite*	Emissions From Electricity Used	metric tons CO <sub>2</sub> e			
k		Reporting Year Emiss Onsite (J / H)	ons Intensity of Electricity Used	metric tons CO <sub>2</sub> e /MWh			
L		Avoided Emissions Be	nchmark	metric tons CO <sub>2</sub> e			
				/MWh			
*Inc		Emission Reductions [ emissions from supplementa		metric tons CO <sub>2</sub> e			
0	iuuc	ciniosiono nom supplementa	Tooli ruci use only.				
4.	Cal	culate Carbon Dioxide I	Displaced From Electricity Sales (avoi	ded emissions)			
	a.	Select Geographic Sco F):	pe of Avoided Emissions Benchmark	(based on the regions	s in Appendix		
	☐ Single Domestic Region						
	☐ Multiple Domestic Regions						
		☐ Foreign Region(s)					
	b. If Reporting Reductions for a Single Domestic Region, Enter Number of the Region (1 through						
	υ.	15) from Appendix F:					
	c. If Reporting Reductions for Multiple or Foreign Regions, Enter the Weighted Avoided Emissions						
		Benchmark and Briefly	Explain How It Was Calculated:				
	Α	voided Emissions					
	mo	Benchmark	Funda	unation			
(	me	tric tons CO₂e/MWh)	Expia	nation			

d. Calculate Carbon Dioxide Displaced From Electricity Used Onsite (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 CO <sub>2</sub> e	
R	Reporting Year Emissions Intensity of Electricity Sold (Q / O)	metric tons CO <sub>2</sub> e /MWh	
S	Avoided Emissions Benchmark	metric tons CO <sub>2</sub> e /MWh	
Т	Emission Reductions [(S – R) * P]	metric tons CO <sub>2</sub> e	

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 CO <sub>2</sub> e	

#### 6. Summarize Emission Reductions

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

7.		Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved s from Appendix M]
	nter Action Type Code	Describe Action
8.	☐ Voluntary ☐ Plant clos ☐ Governm ☐ Fede ☐ State ☐ Loca	sing ent requirement ral requirement requirement requirement I requirement
9.	Summarize (optional):	Benefits and Costs of the Actions Taken To Reduce Greenhouse Gas Emissions
Pai	rt D. Distribu	ution of Emission Reductions to Other 1605(b) Reporters
1.	Where Appl	icable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons

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

## **Addendum B7. Landfill Methane Recovery**

If Reporting Subentities,	Enter Name of Subentity:	

#### Part A. Action Identification

1. Enter Location of Landfill(s):

1. Effet Location of Landini(s).						
1	2	3	4			
	Location					
		State	Country (if foreign subentity)			
		(if domestic	(if foreign			
Name	City	(if domestic subentity)	cubontity)			
Name	City	Suberitity)	Suberitity)			

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

4. Was the Action Reported Last Year?

	Yes		N	0
--	-----	--	---	---

#### 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 Period							
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						
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)

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 Used Onsite									
Electricity Sold Offsite									
Injected Into Pipeline									
Direct Use Onsite									
Direct Use Offsite									
Total									

5. Enter Mass of Methane Captured (metric tons CO<sub>2</sub>e)

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 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 <sub>2</sub> e	
В	Methane Captured in Reporting Year	metric tons CO <sub>2</sub> e	
С	Change in Methane Captured (B - A)	metric tons CO <sub>2</sub> e	

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

	1	2	3	4	5	6	7
				Base Peri	od		
Item	Source and Disposition	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year
D	Electricity Used Onsite						
Ē	Electricity Sales						
	Total Generation						

3. Calculate Carbon Dioxide Displaced From Electricity Used Onsite

a.	elect Geographic Scope of Avoided Emissions Benchmark (based on the regions in Appendix
	):

,			
П	Single	Domestic	Region

- ☐ Multiple Domestic Regions
- ☐ Foreign Region(s)

b.	If Reporting Reductions for a Single Domestic Region, Enter Number of the Region (1 through
	15) from Appendix F:

c. If Reporting Reductions for Multiple or Foreign Regions, Enter the Weighted Avoided Emissions Benchmark and Briefly Explain How It Was Calculated:

Avoided Emissions Benchmark	
(metric tons CO₂e/MWh)	Explanation

d. 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 <sub>2</sub> e	
K	Reporting Year Emissions Intensity of Electricity Used Onsite (J / H)	metric tons CO <sub>2</sub> e /MWh	
L	Avoided Emissions Benchmark	metric tons CO <sub>2</sub> e /MWh	
М	Emission Reductions [(L - K) * I]	metric tons CO <sub>2</sub> e	

<sup>\*</sup>Include emissions from supplemental fossil fuel use only.

4.	Calculate	Carbon	Dioxide	Displaced	From E	lectricity	Sales (	avoided	emissions)
----	-----------	--------	---------	-----------	--------	------------	---------	---------	------------

a.	Select Geographic Scope of Avoided Emissions Benchmark (based on the regions in Appendix F):
	□ Single Domestic Region
	☐ Multiple Domestic Regions
	☐ Foreign Region(s)
b.	If Reporting Reductions for a Single Domestic Region, Enter Number of the Region (1 through 15) from Appendix F:

c. If Reporting Reductions for Multiple or Foreign Regions, Enter the Weighted Avoided Emissions Benchmark and Briefly Explain How It Was Calculated:

Delicilitate and Dife	Benchmark and Bheny Explain flow it was Calculated.							
Avoided Emissions								
Benchmark								
(metric tons CO <sub>2</sub> e/MWh)	Explanation							

d. Calculate Carbon Dioxide Displaced From Electricity Sales

	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 CO <sub>2</sub> e	
R	Reporting Year Emissions Intensity of Electricity Sold (Q / O)	metric tons CO <sub>2</sub> e /MWh	
S	Avoided Emissions Benchmark	metric tons CO <sub>2</sub> e /MWh	
T	Emission Reductions [(S - R) * P]	metric tons CO <sub>2</sub> e	

<sup>\*</sup>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	Natural Gas Emissions Factor	metric tons CO <sub>2</sub> /MMBtu	
Y	Change in Carbon Dioxide Emissions From Methane Supplied to a Natural Gas Distribution Network (W * X)	metric tons CO <sub>2</sub>	

6. Summarize Emission Reductions

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

7. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M] **Enter Action Type Code Describe Action** 8. 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 9. 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 CO<sub>2</sub>e)

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
TOTAL	CO <sub>2</sub> e	metric tons	

If Reporting Subentities, Enter Name of Subentity:

#### Part A. Action Identification

1. Enter Name and Location of CO<sub>2</sub> Injection Project:

2	3	4	5	6	
	ation			Wells	
City	State or Country	Storage Onsite? (Y/N)	If Onsite, Agreement? (Y/N)	Sealed or Plan to Seal Wells? (Y/N)	
	Loc	Location State	Location Storage State Onsite?	Location  Storage If Onsite, Onsite? Agreement?	

2.	Enter the Date CO <sub>2</sub> Injection Began: Month Year							
3.	Describe the Action:							
4.	Was the Action Reported Last Year? □ Yes □ No							
5.	Is the Reporting Entity Responsible for the Injection of $CO_2$ Into a Permanent Storage Reservoir? $\square$ Yes $\square$ No							
6.	If the Answer to Question 5 is No, Does the Reporter Have a Written Agreement With the Sequestering Party Allowing the Reporter To Claim the Reductions?  ☐ Yes ☐ No ☐ Not-applicable, explain:							

#### Part B. Action Quantification

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

	1	2	3	4	5	6
			CO <sub>2</sub>	CO <sub>2</sub> Acquired	Total CO <sub>2</sub>	
			Extracted/	Via Transfer	Captured or	Name of
Item	Name of Source	Location of Source	Captured	or Purchase	Acquired	Storage Site
A1						
A2						
А3						
A4						
A5						
В	Totals (sum of	items A1-A5)				

2. Enter Amount Sequestered in Current Reporting Year (metric tons CO<sub>2</sub>e)

	1	2	3	4	5	6	7
	Name					Post-Injection Leakage/Seepage During Current Reporting Year	
	of Storage	Location of Storage	Enhanced Resource	CO <sub>2</sub> Injected in Current	Monitoring		Sequestered in Current Reporting
Item	Site	Site	Recovery?	Reporting Year	Method	Quantity	Year
			CO	2 Sequestered by Re	eporting Entity		
C1			Yes/No				
C2			Yes/No				
C3			Yes/No				
			(	CO <sub>2</sub> Sequestered by	Third Party		
D1			Yes/No				
D2			Yes/No				
D3			Yes/No				
Е	Total	s (sum of item	s C1-D3)				

3. Enter Average Amount Sequestered in Base Period (metric tons CO<sub>2</sub>e)

	1	2	3	4	5	6	7
	Name of	Location of	Average Annual Post-Injection Leakage/Seepage in Base Period		Average Annual Net CO <sub>2</sub>		
Item	Storage Site	Storage Site	Resource Recovery?	Injected in Base Period	Monitoring Method	Quantity	Sequestered in Base Period
			CO	2 Sequestered by R	eporting Entity		
F1			Yes/No				
F2			Yes/No				
F3			Yes/No				
			(	CO <sub>2</sub> Sequestered by	Third Party		
G1			Yes/No				
G2			Yes/No				
G3			Yes/No				
H Totals (sum of items F1-G3)							

#### Part C. Emission Reductions

#### 1. Calculate Emission Reductions

	1	2	3
Item	Description	Unit of Measure	Quantity
	Emission Reductions (E7 - H7)	metric tons CO <sub>2</sub> e	

2.		Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved s from Appendix M]
	nter Action Type Code	Describe Action
<ol> <li>3.</li> <li>4.</li> </ol>	☐ Voluntary ☐ Plant clos ☐ Governm ☐ Fede ☐ State ☐ Loca	
4.	(optional):	Deficits and Costs of the Actions Taken To Reduce Greenhouse Gas Emissions
Par	t D. Distribu	ution of Emission Reductions to Other 1605(b) Reporters
1.	Where Appl CO <sub>2</sub> e)	icable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (metric tons

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
TOTA	L CO₂e	metric tons	

## Addendum B9. Electricity Transmission and Distribution Improvements

lf F	Reporting Subentities, Enter Name of Subentity:
Ра	rt 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?

#### Part B. Activity Data

1. Enter Activity Data

	1	2	3
		Units of	
		Measure	
Item	Description	(kWh or kVAh)	Quantity
	Base Period	T	
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		
Е	Net Imports of Electricity (C – D)		
F	Actual Net Interchange (ANI) If Reporting on Control		
	Area Basis		
G	Loss Ratio (A + E - B) / (A + E) or [A - (B + F)] / (A - F)↑		
	Reporting Year		
Н	Electricity Entering T&D System From Own Generation		
	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		
IVI	Area Basis		
N	Loss Ratio (H + L - I) / (H + L) or [H - (I + M)] / (H - M)†		_
	Change In Loss Intensity (G - N) * (H + L) or (G - N) * (H		
0	- M)↑	kWh or kVAh	

<sup>†</sup>Use second equation if reporting on a control area basis

1. Select Geographic Scope of Avoided Emissions Benchmark (based on the regions in Appendix F):

#### Part C. Emission Reductions

	□ Single Domestic Reg	noin
	☐ Multiple Domestic R	
	•	egions
	☐ Foreign Region(s)	
2.	If Reporting Reductions	for a Single Domestic Region, Enter Number of the Region (1 through 15)
	from Appendix F:	
3.	If Reporting Reductions	for Multiple or Foreign Regions, Enter the Weighted Avoided Emissions
Ο.		
_		xplain How It Was Calculated:
	Avoided Emissions	
	Benchmark	
(	metric tons CO <sub>2</sub> e/MWh)	Explanation
(	metric tons CO₂e/MWh)	Explanation
(	metric tons CO₂e/MWh)	Explanation

4. Calculate Emission Reductions

	1	2	3
Item	Description	Units of Measure	Quantity
Р	Avoided Emissions Benchmark for Electricity	metric tons CO <sub>2</sub> 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 <sub>2</sub> e	
T	Avoided Emissions (from Avoided Electricity Imports) {R * [L / (I + L)]}	metric tons CO <sub>2</sub> e	

<sup>†</sup>Use second equation if calculating losses in kVAh

5. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]

Describe Action

Form Approved
OMB No. 1905-0194
Expiration Date: TBD

lentify the Cause(s) of the Emission Reduction(s) <i>(check all that apply)</i> :
Voluntary action
l Plant closing
Government requirement
·
☐ State requirement
□ Local requirement
ummarize 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 CO<sub>2</sub>e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
	TOTAL	CO <sub>2</sub> e	metric tons	

## Addendum B10. Anaerobic Digestion at Wastewater Treatment Facilities

(if domestic (if foreign	<u> </u>		Location State (if domestic	Country (if foreign subentity
State Countr (if domestic (if foreign	Name	City	State (if domestic	(if foreig

#### Part B. Action Quantification

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

1	2	3	4	5	6	7
			Base Period	k		
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	t		
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)

1	2	3	4	5	6	7
			Base Period	k		
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 CO<sub>2</sub>e)

Enter made of methane day	riai oa ai ia o		0 10110 0 0 20	,		
1	2	3	4	5	6	7
			Base Period	k		
					Base	
					Period	Reporting
Source and Disposition	Year 1	Year 2	Year 3	Year 4	Average	Year
Total Methane Captured						

5. Enter Nitrous Oxide Emissions From Aerobic Conditions During the Base Period and Reporting Year (metric tons CO<sub>2</sub>e)

1	2	3	4	5	6	7
			<b>Base Period</b>			
Unit of Measure	Year 1	Year 2	Year 3	Year 4	Base Period Average	Reporting Year
Measure	Year 1	Year 2	Year 3	Year 4	Average	Ye

#### 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 <sub>2</sub> e	
В	Reporting Year Methane Captured	metric tons CO <sub>2</sub> e	
С	Change in Methane Captured (B - A)	metric tons CO <sub>2</sub> e	

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

	1	2	3	4	5	6	7
			ı	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 Sold						

- 3. Carbon Dioxide Displaced From Electricity Used Onsite (avoided emissions)
  - a. Select Geographic Scope of Avoided Emissions Benchmark (based on the regions in Appendix F):
     □ Single Domestic Region
    - ☐ Multiple Domestic Regions
    - ☐ Foreign Region(s)
  - b. If Reporting Reductions for a Single Domestic Region, Enter Number of the Region (1 through 15) from Appendix F: \_\_\_\_\_\_

c. If Reporting Reductions for Multiple or Foreign Regions, Enter the Weighted Avoided Emissions Benchmark and Briefly Explain How It Was Calculated:

Avoided Emissions Benchmark (metric tons CO₂e/MWh)	Explanation
	•

d. Calculate Carbon Dioxide Displaced From Electricity Used Onsite

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

<sup>\*</sup>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	Carbon Dioxide	Displaced From	Flectricity Sales	(avoided emissions)
┰.	Carbon Dioxido		Licellicity Cales	(avolucu citilosiono)

a.	Select Geographic Scope of Avoided Emissions Benchmark (based on the regions in Appendix
	F): Single Domestic Region
	Multiple Domestic Regions
	Foreign Region(s)
b.	If Reporting Reductions for a Single Domestic Region, Enter Number of the Region (1 through 15) from Appendix F:

c. If Reporting Reductions for Multiple or Foreign Regions, Enter the Weighted Avoided Emissions Benchmark and Briefly Explain How It Was Calculated:

	Denominant and Drieny Explaint for it true earediates.					
Avoided Emissions	Explanation					
Benchmark	•					
(metric tons CO₂e/MWh)						

d. Calculate Carbon Dioxide Displaced From Electricity Sales

	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 CO <sub>2</sub> e	
R	Reporting Year Emissions Intensity of Electricity Sold (Q	metric tons CO <sub>2</sub> e	
11	/ O)	/MWh	
S	Avoided Emissions Benchmark	metric tons CO <sub>2</sub> e	
3	Avolued Emissions Demontralik	/MWh	
Т	Emission Reductions [(S - R) * P]	metric tons CO <sub>2</sub> e	

<sup>\*</sup>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	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	Natural Gas Emissions Factor	metric tons CO <sub>2</sub> /MMBtu	
Υ	Change in Carbon Dioxide Emissions From Methane Supplied to a Natural Gas Distribution Network (W * X)	metric tons CO <sub>2</sub>	

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 <sub>2</sub> e	
AA	Reporting Year Quantity of Nitrous Oxide Emissions	metric tons CO <sub>2</sub> e	
BB	Change in Nitrous Oxide Emissions (AA - Z)	metric tons CO <sub>2</sub> e	

7. Summarize Emission Reductions

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

8. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]

Enter Action Type Code	Describe Action	
Type Code Describe Action		

U.S	Energy Informa m EIA-1605	ation Administration	Voluntary Reportin	ng of Greenhouse Gases	OMB No. 1905-01 Expiration Date: T	94
Enter Action Type Code				Describe Action		
9.	☐ Voluntary ☐ Plant clos ☐ Governm ☐ Fede ☐ State	action	mission Reductio	on(s) <i>(check all that a<sub>l</sub></i>	pply):	
10.	. Summarize (optional):	Benefits and Cos	ts of the Actions	Taken To Reduce Gr	eenhouse Gas Emissions	

## 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

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
TOTAL	CO <sub>2</sub> e	metric tons	

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## Addendum B11. Anaerobic Digestion of Animal Waste

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

#### Part A. Action Identification

1. Enter Location of Livestock Management Facilities:

1. Enter Location of Livestock Man					
1	2	3	4		
		Location			
	<b>.</b>	State (if domestic	Country (if foreign subentity)		
Name	City	subentity)	subentity)		

Date Anaerobic Digester Use Began: Month	Year
Describe Action:	

# 4. Was the Action Reported Last Year?□ Yes □ No

#### Part B. Action Quantification

1. Enter Action Characteristics

1	2	3
Name of Facility	Species of Animals Producing Waste Handled by the Digester	No. of Animals of the Species

#### Part C. Emission Reductions

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

	1	2	3
Item	Description	Units of Measure	Quantity
А	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	Natural Gas Emissions Factor	metric tons CO <sub>2</sub> e/MMBtu	
Е	Change in Carbon Dioxide Emissions from Methane Supplied to a Natural Gas Distribution Network (C * D)	metric tons CO <sub>2</sub> e	

	Suppli	ed to a Natural Gas Distribution Network (C * D)			
2.		Describe the Types of Actions That Were the Likely s from Appendix M]	Cause of the Reduct	ions Achieved	
	nter Action Type Code	tion			
3.	3. 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				
4.	Summarize (optional):	Benefits and Costs of the Actions Taken To Reduce	Greenhouse Gas En	nissions	

## 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 <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
TOTAL	. CO <sub>2</sub> e	metric tons	

Addendum B12. Recycling of Fly Ash	
If Reporting Subentities, 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		
	2	State (if domestic	Country (if foreign subentity)
Name	City	subentity)	subentity)

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

4. Was the Action Reported Last Year?

☐ Yes ☐ No

#### Part B. Action Quantification

 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
		11-26-6	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						
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 CO <sub>2</sub> e		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 CO <sub>2</sub> e	
J	Indirect Emission Reductions (I - H)	metric tons CO₂e	

2. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]

Enter Action Type Code	Describe Action
Type Code	Describe Action

3.	□ Voluntary action □ Plant closing □ Government requirement □ State requirement □ Local requirement
4.	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 CO<sub>2</sub>e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
		CO₂e	metric tons	
		CO₂e	metric tons	
TO	TAL	CO <sub>2</sub> e	metric tons	

## Addendum B13. Demand-Side Management and Other Reduction Programs

Repo	rting Subentities, E	Enter Name of Subentity:			
	Action Identificate reporting more to		Part A and complete for ea	ach program.	
. Ent	er Name of Progra scribe the Program	ım: ı:			
3. Ent	er All of the Follow	ring Information for the Pi	rogram Listed Above:		
Item		Program Characteris	stics	Values	
Α.	Enter City of Prog	ıram			
B.	Enter State of Pro	ogram (if domestic)			
C.	Enter Country of	Program (if foreign)			
D.	Enter Month Prog	ıram Began			
E.	Enter Year Progra	am Began			
F.	Describe Progran	n Evaluation Method			
G.	Enter Name of 3 <sup>rd</sup>	Party Verifier			
H.	Describe Qualifica	ations of 3 <sup>rd</sup> Party Verifier	r		
I.	Enter Unit of Anni (if applicable)	ual Energy Usage Reduc	ctions in RY		
J.	Enter Quantity of (if applicable)	Annual Energy Usage Ro	eductions in RY		
K.	Enter Greenhous (metric tons CO <sub>2</sub> e	e Gas Emission Reduction	ons in RY		
L.	Do the Reduction	s Qualify for Registration	?*	□ Yes □ No	
605 and earty mus juideline	I program evaluations n st certify that the estima s.	nust be performed and/or certifi ated annual energy usage or en	ied by an independent and quali nission reductions were estimate	of the Instructions for Form EIA- fied third party verifier. The third ed in accordance with these  t typically emit below 500 tons	
	CO <sub>2</sub> e per year):	2	3	4	
_	rmation/ Other	Financial Incentives	Direct Installation/ Investment	Other Non-Commercial Services	
	Yes □ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	
5. Ide	. Identify Sector(s) of Very Small Emitters Targeted:				
	1	2	3	4	
	Residential	Commercial	Small Industrial	If Other, Please Specify	
	Yes □ No	☐ Yes ☐ No	☐ Yes ☐ No	□ Yes,	

#### Part B. Emission Reductions

. Summarize	<b>Energy Savings and</b>			tions by Progran	
	1	2	3	4	5
					on Reductions
			rgy Savings		O <sub>2</sub> e)
Progr	ram Name	Unit	Amount	Unit	Amount
Total Emiss	sion Reductions				
Identify the	Causa(a) of the Emis	scion Poduction	(s) (check all that a	nnlu):	

	□ Voluntary action	
	☐ Plant closing	
	☐ Government requirement	
	☐ Federal requirement	
	☐ State requirement	
	☐ Local requirement	
4.	Summarize Benefits and Costs of the Actions Taken To Reduce Greenhouse Gas Emissio (optional):	ns

### 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<sub>2</sub>e)

1		2	3	4
Name of Recipient		Gas	Units	Amount
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
		CO <sub>2</sub> e	metric tons	
	TOTAL	CO <sub>2</sub> e	metric tons	

### Addendum B14. Combined Heat and Power

If Reporting Subentities,	Enter Name of Subentin	ntity:	

#### Part A. Action Quantification

1. Enter Plant Emissions Data

	1	2	3
ltem	Description	Units of Measure	Quantity
	Base Period Average		-
Α	Total CHP Plant Fuel Use	MMBtu	
В	Total CHP Plant Emissions*	metric tons CO <sub>2</sub> e	
	Reporting Year		
С	Total CHP Plant Fuel Use	MMBtu	
D	Total CHP Plant Emissions*	metric tons CO <sub>2</sub> e	

<sup>\*</sup>Derive from fuel use (values A and C) using the methods in Chapter 1, Part C of the Technical Guidelines (Stationary Combustion).

#### 2. Activity Data

a.	Select Geographic Scope of the Avoided Emissions Benchmark(s) (based on the regions in Appendix F):  ☐ Single Domestic Region ☐ Multiple Domestic Regions ☐ Foreign Region(s)
b.	If Reporting Reductions for a Single Domestic Region, Enter Number of the Region (1 through 15) from Appendix F:

C.	Enter the Weighted Electricity Avoided Emissions Benchmark (if applicable*) and/or the Thermal
	Avoided Emissions Benchmark and Briefly Explain How It Was Calculated:

Benchmark Type	Avoided Emissions Benchmark	Explanation
Electricity (metric		
tons CO <sub>2</sub> e/MWh)		
Thermal		
(kilograms		
CO₂e/ton-hour)		

<sup>\*</sup> Only enter a weighted emissions benchmark if you are reporting multiple or foreign regions.

d. Enter Activity Data

	1	2	3			
Item	Description	Units of Measure	Quantity			
	Base Period Average					
Е	Total Thermal Generation	MMBtu				
F	Total Electrical Generation	MMBtu*				
G	Thermal Exports	MMBtu				
Н	Electricity Exports	MMBtu*				
I	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 <sub>2</sub> e / MMBtu				
R	Electricity Avoided Emissions Benchmark	metric tons CO <sub>2</sub> e / MWh				

<sup>\*</sup>To convert electrical output to MMBtu, multiply electrical output in MWh by 3.412

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)	
it do a stra	inner of the thermal energy generation (Efficiency ) is unknown reporters may use a	l- ( lt l ( O O

<sup>\*</sup>If the efficiency of the thermal energy generation (Efficiency<sub>Thermal</sub>) is unknown, reporters may use a default value of 0.8.

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 CO <sub>2</sub> e	
Χ	Exported Electrical Generation Emissions [(H / F) * T]	metric tons CO <sub>2</sub> e	
Υ	Onsite Thermal Generation Emissions (S - W)	metric tons CO <sub>2</sub> e	
Z	Onsite Electrical Generation Emissions (T - X)	metric tons CO <sub>2</sub> e	
	Reporting Year		
AA	Exported Thermal Generation Emissions [(M / K) * U]	metric tons CO <sub>2</sub> e	
BB	Exported Electrical Generation Emissions [(N / L) * V]	metric tons CO <sub>2</sub> e	
CC	Onsite Thermal Generation Emissions (U - AA)	metric tons CO <sub>2</sub> e	
DD	Onsite Electrical Generation Emissions (V - BB)	metric tons CO <sub>2</sub> e	

<sup>\*\*</sup>If the efficiency of the thermal energy generation (Efficiency<sub>Thermal</sub>) is unknown, reporters may use a default value of 80 percent.

<sup>\*\*\*</sup>If the efficiency of the electrical energy generation (Efficiency<sub>Thermal</sub>) is unknown, reporters may use a default value of 35 percent.

#### 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
			Direct
Item	Description	Units of Measure	<b>Emissions</b>
EE	Emission Reductions From Thermal Generation Used Onsite [(S / E) - (U / K)] * (K - M)	metric tons CO <sub>2</sub> e	
FF	Emission Reductions From Electrical Generation Used Onsite [(T / F) - (V / L)] * (L - N)	metric tons CO <sub>2</sub> e	

b. Calculate Absolute Changes in Emissions From Energy Used Onsite

	1	2	3
			Direct
Item	Description	Units of Measure	<b>Emissions</b>
GG	Emission Reductions From Thermal Generation Used Onsite (Y - CC)	metric tons CO <sub>2</sub> e	
НН	Emission Reductions From Electrical Generation Used Onsite (Z - DD)	metric tons CO <sub>2</sub> e	

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 <sub>2</sub> e	

b. Calculate Thermal Energy Emission Reductions Due to Incremental Changes in Thermal Exports

	1	2	3
Item	Description	Units of Measure	Emission Reductions
JJ	Emission Reductions {[Q - (U / K)] * (M - G)}	metric tons CO <sub>2</sub> e	

c. Calculate Electricity Emission Reductions Due to Improvements in Historical Emissions Intensity

	1	2	3
Item	Description	Units of Measure	Emission Reductions
KK	Emission Reductions {[(T / F) - (V / L)] * H}	metric tons CO <sub>2</sub> e	

d. Calculate Electricity Emission Reductions Due to Incremental Changes in Electricity Exports

<u>u.</u>	Calculate Electricity Emission readditions but to instrumental Changes in Electricity Exports				
	1	2	3		
Item	Description	Units of Measure	Emission Reductions		
пеш	Description	Weasure	Reductions		
LL	Emission Reductions {[R - (V / L)] * (N - H)}	metric tons CO <sub>2</sub> e			

3. Summarize Emission Reductions

	1	2	3
		Units of	
Item	Description	Measure	Quantity
MM	Reductions Associated With Onsite Energy Use (EE + FF) or (GG + HH)	metric tons CO <sub>2</sub> e	
NN	Total Emission Reductions From Energy Generation and Exports (II + JJ + KK + LL)	metric tons CO <sub>2</sub> e	
00	Total Emission Reductions (MM + NN)	metric tons CO <sub>2</sub> e	

4. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]

Enter Action
Type Code

Describe Action

5. Identify the Cause(s) of the Emission Reduction(s) (check all that apply):

Voluntary action
Plant closing
Government requirement
Federal requirement
State requirement
Cocal requirement
Cocal requirement
Cocal requirement
State senefits 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<sub>2</sub>e)

1	2	3	4
Name of Recipient	Gas	Units	Amount
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
	CO <sub>2</sub> e	metric tons	
TOTAL	CO <sub>2</sub> 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. Enter Activity Data, Emission Coefficients, and Conversion Factors

	1	3	
Item	Description	Units of Measure	Quantity
Α			
В			
С			
D			
Е			
F			
G			
Н			
- 1			
J			

2.	Enter Equation(s) Used To Calculate Emissions and Emission Reductions in Question 3:		

3. Calculate Emission Reductions

	1	2	3	4	5	
			Source of Emissions Affected			
Item	Description	Units of Measure	Direct Emissions	Indirect Emissions From Purchased Energy	Other Indirect Emissions	
K	Base Period Emissions	metric tons CO <sub>2</sub> e				
L	Reporting Year Emissions	metric tons CO <sub>2</sub> e				
М	Registered Emission Reductions (K - L)	metric tons CO <sub>2</sub> e				
N	Reported Emission Reductions (K - L)	metric tons CO <sub>2</sub> e				

4. Identify and Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved [Enter codes from Appendix M]

Enter Action	з потгаррених му
Type Code	Describe Action

Enter Action Type Code		Describe Action				
5.	□ Voluntai □ Plant clo □ Governr □ Fed □ Stat					
6.	Summarize (optional):	Benefits and Costs of the Actions Taken To Reduce Greenhouse Gas Emissions				

### 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	5
Name of Recipient	Emissions Type*	Gas	Units	Amount
		CO <sub>2</sub> e	metric	
			tons	
		CO <sub>2</sub> e	metric	
			tons	
		CO <sub>2</sub> e	metric	
			tons	
		CO <sub>2</sub> e	metric	
			tons	
Total Direct Emission Reductions		CO <sub>2</sub> e	metric	
Total Direct Lillission Reductions			tons	
Total Indirect Emission Reductions		CO <sub>2</sub> e	metric	
From Purchased Energy			tons	
Total Other Indirect Emission		CO <sub>2</sub> e	metric	
Reductions			tons	

<sup>\*</sup>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. Enter Name and Location of Fa	2	3	4	
•	_	Location		
		State	Country	
Name	City	(if domestic subentity)	(if foreign subentity)	

2.	Enter Date CFC Destruction Began: Month Year
3.	Describe Action:

4. Was the Action Reported Last Year?

☐ Yes ☐ No

#### Part B. Emission Reductions

1. Enter Type and Quantity of CFCs Destroyed

1	2	3	4
			Did you Transfer the Reduction to Another
			Reporting Entity? (Y/N)
CFC Gas Type	Unit	Amount	(if yes, complete Part C)

2.		Describe the Types of Actions That Were the Likely Cause of the Reductions Achieved s from Appendix M]
	nter Action ype Code	Describe Action
	☐ Voluntary ☐ Plant clos ☐ Governm ☐ Fede ☐ State ☐ Loca	
4.	(optional):	Benefits and Costs of the Actions Taken To Reduce Greenhouse Gas Emissions
Par	rt C. Distribu	ution of Emission Reductions to Other 1605(b) Reporters
1.	Where App	icable, Enter Emission Reductions Distributed to Other 1605(b) Reporters (kilograms)

1	2	3	4
Name of Recipient	Gas	Units	Amount
		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
<b>Emissions</b>	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	
I	
J	
K	
L	
M	
N	
0	
Р	
Q	
R	
S	

Form Approved OMB No. 1905-0194

Expiration Date: TBD

## Addendum D. Non-Reporter Offset Entity Information (Only complete Addendum D if the offset provider is not a reporter to the program.)

#### **SECTION 1. OFFSET ENTITY STATEMENT**

1.	Enter Offse	et Er	ntity Identification	າ:					
	Address 1:								
	Address 2:								
	City:			State:	7in·	_			
	Eastle LIDI	_							
	Entity Tax	·	er Identification N	Number (onti	onal)·				
	Littly Tax	ayı	ci identinoation i	varriber (optiv	onar)				
_	F 0#								
۷.			ontact Informatio						
	Contact Na	ıme:	:						
	Title:								
			ddress is the sai			ove			
	Address 1:								
	Address 2:								
	City:			_ State:	Zip:				
	Tel: (	)	)	ext.: _					
	Fax: (		_)						
3.	Entity Type	(ch	neck one):						
٠.			ter (more than 10	0 000 metric	tons carbor	n dioxide e	equivalent	annually)	
			ter (less than or						nnually)
	LI Siliali e	71111U	tei (less tilali oli t	equal to 10,0	oo meme u	ons carbo	ii dioxide (	equivalent ai	iliualiy)
,	Indianta An	C:	ionificant Change	aa ta Draviav	a Fatitu Cta			bla for Ctart	Voor romontol
4.			ignificant Change						
			has not undergo	ne significant	cnanges s	since the ia	ast volunt	ary Reporting	g of
			se Gases report						
			has undergone s	significant cha	anges since	e the last \	√oluntary ∣	Reporting of	Greenhouse
	Gases	repo	ort was filed.						
	Check the t	type	of change and o	detail below:					
		Da	ita are being resi	ubmitted for t	he base pe	eriod:			
		Ne	w base period h	as been sele	cted (descr	ribe):			
			•		`	,			
		Ch	anges have bee	n made in the	e entity's so	cope or or	ganization	al boundarie	es, of the
	_		lowing nature:				gaa		,
			Acquisition or o	divestiture of	discrete hu	isingse uni	ite eubeid	iarias faciliti	ice or plante
		_	Describe:		discrete bu	isiriess uri	its, subsid	iaries, raciiiti	ies or plants
		П			icont faciliti				
			Closure or ope	ning of Signifi	icant faciliti	es			
		_	Describe: Transfer of eco						
			Transfer of eco	onomic activity	y to or from	n specific o	operations	covered by	a previous
			report						
			Describe:						
			Significant cha	nges in land	holdings				
			Describe:						
		_							
		Ш	Higher level of	aggregation	than in the	previous	year.		

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			Describe (List subsidiary entities now included, including a listing of operations added and the specific countries in which the foreign op located):	erations are
			Changes in activity or operations, specify:  ☐ Change in output ☐ Change in contractual arrangements ☐ Change in equipment and processes ☐ Change in outsourcing or insourcing of significant activities Describe the change and explain its influence on reported emission sequestration:	
			nission reduction calculation method changed ner change, not listed above, describe:	
5.	Identify System Primary	the print (NAICS)  NAICS	ity's Primary Economic Activities nary (and secondary, if applicable) 3-digit North American Industrial b) code for the entity (a list of NAICS codes is offered in Appendix A) code: CS:	
6.			Category gory below that describes the entity:	
		Govern Govern Non-Pi All other Specify Individual	Non-Investor Owned) Inment Inment Corporation or Authority Fofit Organization For Non-Profit Organizations (charities, fraternal orders, etc.	)
7.	Is the e	entity a h	ntity Organization lolding company:	
8.		thod for	ntity's Organizational Boundaries Determining Organizational Boundaries ial control	
			ional control. Explain how the use of this other approach results in o aries that differ from results of the financial control approach:	rganizational
			share. Explain how the use of this other approach results in organiza	ational boundaries
		that dif	fer from results of the financial control approach:	

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					other approach results inancial control approac	
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D. LIS	l All Lai	Subsidiary	d Subsidiaries Inclu	uded in This R	Primary NAIC	S
		ge Partially Own cluded in This Re		t Venture, and	Leased or Operated En	nissions
1	T	2	3	4	5	6
Name Descript of Emiss Sourc	tion ions	Relationship to Reporting Entity	Partners	% Interest Held By Reporting Entity	Method for Determining Inclusion in Report	% of Emissions Included in This Report
			rganizational Bound ources, if applicable		e, including criteria used	d for
☐ This☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Nation Multipl Single s report S. Activi	covers U.S. active wide (if operating le States (if not restates (if not restate)). State (enter 2-lecture) covers U.S. and ities:	g in all 10 U.S. Cen nationwide, enter statetter abbreviation for non-U.S. activities	nsus Regions) ates using 2-le ) or state from Ap	tter abbreviations from <i>i</i>	
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Voluntary Reporting of Greenhouse Gases

Check th □ S □ M □ In	e the Scope of the Ene types of emission tationary source collobile source combudustrial processes gricultural sources	n sources or si mbustion	nks that a □ Fug □ Indi □ Oth	itive emi	issions f ssions fi ct emiss	rom geo rom purc sions	logic reserve chased energ	oirs
Indio	e the Entity Base Percent of year	s in the Base I	Period:	□1	□2	□3	□ 4	

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#### **SECTION 2. OFFSET ENTITY EMISSIONS INVENTORY**

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

If this report is independently verified, you may choose to aggregate offset emissions by gas by completing and attaching one copy of Part A from Addendum A.

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

If this report is not independently verified, you must detail offset emissions by gas and source by completing and attaching all applicable inventory grids from Part B from Addendum A.

#### SECTION 3. OFFSET ENTITY-LEVEL REDUCTION METHODS AND REDUCTIONS

1.	Indicate the method used to estimate the offset emission reductions.
	<ul> <li>□ Changes in Emissions Intensity (Addendum B1)</li> <li>□ Changes in Absolute Emissions (Addendum B2)</li> <li>□ Changes in Carbon Storage (Addendum B3)</li> <li>□ Changes in Avoided Emissions (Addendum B4)</li> <li>□ Energy Generation and Distribution (Addendum B5)</li> <li>□ Coal Mine Methane Recovery (Addendum B6)</li> <li>□ Landfill Methane Recovery (Addendum B7)</li> <li>□ Geologic Sequestration (Addendum B8)</li> <li>□ Electricity Transmission and Distribution Improvements (Addendum B9)</li> <li>□ Capture of Methane from Anaerobic Digestion at Wastewater Treatment Facilities (Addendum B10)</li> <li>□ Anaerobic Digestion of Animal Waste (Addendum B11)</li> <li>□ Recycling of Fly Ash (Addendum B12)</li> <li>□ Demand-Side Management and Other Emission Reduction Programs (Addendum B13)</li> <li>□ Combined Heat and Power Generators (Addendum B14)</li> <li>□ Other Action-Specific Methods (Addendum B15)</li> <li>□ Destruction of Chlorofluorocarbons (Addendum B16)</li> </ul>
2.	If registering reductions on Addendum B1 or B5 for this entity, are you also reporting but not registering reductions using the Changes in Absolute Emissions method (Addendum B2)?* ☐ Yes ☐ No
3.	Complete and attach one copy of the appropriate emission reduction addendum (Addendum B1-B16) for the method used to estimate entity-level reductions of domestic emissions
4.	If you are reporting non-U.S. emissions within one entity-level report, attach one copy of the appropriate emission reduction addendum for your foreign emission reductions.

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<sup>\*</sup> You may choose to supplement your report of registered reductions using an intensity-based method with a report of reductions in absolute emissions even if the output of the entity is declining. The absolute emission reductions included in this supplemental report are not eligible for registration.