Reference period:

January 1 - December 31, 2005

OBJECTIVE

Accurate tracking of greenhouse gas (GHG) emissions is an important part of assessing Canada's overall environmental performance. By providing a more precise picture of the sources and amounts of Canada's GHG emissions, mandatory reporting will contribute to the development, implementation, and evaluation of climate change and energy use policies and strategies.

The federal government continues to work in partnership with the provinces and territories to develop an efficient, harmonized, "single-window" domestic reporting system for GHG emissions that supports four complementary objectives:

- to provide Canadians with information on GHG emissions:
- to enhance the level of detail of the National GHG Inventory;
- to support the federal system for large final emitters (LFEs); and
- to meet provincial and territorial reporting requirements for GHG emissions and related in formation.

Mandatory reporting will help to ensure timely and accurate reporting of GHG emissions, support public confidence in the transparency and integrity of domestic reporting, and provide a consistent bacis of reporting across jurisdictions, sectors and sources.

AUTHORITY

This information is collected under the authority of the *Statis ics Act*, r. evised Statutes of Canada 1985, c.S-19, as well as under the authority of the *Canadian Environmental Protects in Act*, S.C. 1999, c. 33 (CEPA, 1999) and, in addition for facilities in Alberta, the *Climate Change Emissions Inc.* 2003, c. C-16.7. Submission of a report is a legal requirement under these Acts.

DATA SHARING AGREEMENTS

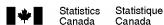
In order to avoid duplication and to ease response burden, Statistics Canada has entered into data sharing agreements, under the provisions of Section 1.3 of the Statistics Act, whereby the collected information will be provided to Environment Canada and, in addition, to Alberta Environment for facilities in Alberta. This information is being collected by Statistics Canada for statistical and research purposes, by Environment Canada pursuant to CEPA 1999, and by Alberta Environment pursuant to the Climate Change and Emissions Management Act and the Specified Gas Reporting Regulation.

CONFIDENTIALITY

Statistics Canada is p. hibited by law from divulging information collected for its own purposes, that relate to any identifiable business, without the previous knowledge or consent of the business. The information being collected for Statistics Canada will be treated in strict confidence, used for statistical purposes and will only be published in aggregate form, in accordance with the *Statistics Act*. The confidentiality provisions of the *Statistics Act* are not affected by either the *Access to Information Act* or any other legislation.

Environment Canada will release the collected information to other government organizations and the public in general, in accordance with the provisions of the *Canadian Environmental Protection Act, S.C. 1999, c. 33* (CEPA). For facilities in Alberta, the information may also be released in accordance with the *Climate Change Emissions Management Act, S.A. 2003, c. C-16.7* and the Specified Gas Reporting Regulation. Reporters can request that their information be treated as confidential by Environment Canada and, if in Alberta, by Alberta Environment (refer to Section VIII of this report for more information).

5-3100-5081.1: 2006-04-18 STC/IND-310-75372





Instructions for completing the report

This Greenhouse Gas Emissions Report collects data at the facility level.

- 1. **Complete** one report for <u>each</u> facility that emitted 100 kilotonnes or more (in CO₂ equivalent units) of GHGs in 2005.
- 2. Return Date: Please submit the completed report no later than June 1, 2006.
- 3. Read the instructions provided on each page.
- 4. **Definitions** are provided on page 15 for terms marked with an asterisk (*).
- 5. Chemical Abstract Service (CAS) Numbers and Global Warming Potentials (GWP) are provided in the glossary on page 24.

First name L	ast name		
Position/Title			
Felephone number (Maximum of 5 digits) E-mail address (e.g. abcd@efghijk.ca)	Fax number		
Mailing address			
City/District/Municipality		Province/ i arritor	ry Postal code
Preferred language of correspondence: English Faceborting company* legal name*	French	J'	
Reporting company trade name*	O_{λ}		
Toponing company reactions	-		
Reporting company business number*			
Reporting company business number* SECTION II. FACILITY* INFORMATION		Facility I.D.	
Reporting company business number* SECTION II. FACILITY* INFORMATION Facility name* Facility location* (actual location, no*iin* audress)		Facility I.D.	
Reporting company business number* SECTION II. FACILITY* INFORMATION Facility name* Facility location* (actual location, no**inn* audress) Street or rural address* City/District/Municipality		Facility I.D. Province/Territor	ry Postal code
Reporting company business number* SECTION II. FACILITY* INFORMATION Facility name* Facility location* (actual location, no*line audress) Street or rural address* City/District/Municipality NPRI ID* (if applica'ole)		Province/Territor	
Reporting company business number* SECTION II. FACILITY* INFORMATION Facility name* Facility location* (actual location, no**iiox acdress) Street or rural address* City/District/Municipality NPRI ID* (if applicable) For Alberta facilities only: It is mandatory for facilities subject to an Environma approval to include the approval number in this report. Alberta facilities that do not the field below. Complex facilities that are subject to a single EPEA approval enter their EPEA approval number for each submitted Greenhouse Gas Emission.	not have an <i>E</i> al but are repo	Province/Territor on and Enhancemer EPEA approval nunting several operation	ent Act (EPEA) nber may enter 0000 tions separately mus
Reporting company business number* SECTION II. FACILITY* INFORMATION Facility name* Facility location* (actual location, noaline audress) Street or rural address*	not have an <i>E</i> al but are repo	Province/Territor on and Enhancemer EPEA approval nunting several operation	ent Act (EPEA) nber may enter 0000 tions separately mus

First name	Last name
Position/Title	
Felephone number (Maximum of 5 digit	rs) Fax number
E-mail address (e.g. abcd@efghijk.ca)	
Mailing address	O >
City/District/Municipality	Province/Territory Postal code
Certifying Official* Same as Reporter (Check this box if Certifying Caricial info	y Y
	rmation is the same as Reporter information)
Same as Public Contact (Check this box if Certin, ing Official	
Same as Public Contact (Check this box if Certinying Official)	
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Parent Company 1				% ownership of
Legal name*				reporting company
Mailing address				%
City/District/Municipality		Prov	vince/Territory	Postal code
Business number* of parent company	DUNS number* of parent compan	y (if applica	able)	
Parent Company 2				% ownership of
Legal name				oorting company
Mailing address				%
City/District/Municipality		Prov	vince (Terric)ry	Postal code
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			·	
Parent Company 3				% ownership of
Legal name				reporting company
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Mailing address				
City/District/Municipality		Prov	vince/Territory	Postal code
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Parent Company 4				% ownership of
Legal name				reporting company
Mailing address	<u>/</u>			
City/District/Municipal. v		Prov	vince/Territory	Postal code
Business number of parent company	DUNS number of parent company	(if applica	ble)	
Parent Company 5				0/
Legal name				% ownership of reporting company %
Mailing address] 76
City/District/Municipality		Drov	vince/Territory	Postal code

Legal name		% ownership of
		reporting company %
Mailing address		
City/District/Municipality	Province/Territory	Postal code
Business number of parent company	DUNS number of parent company (if applicable)	
Parent Company 7		% ownership of
Legal name	3	porting company
Mailing address		%
City/District/Municipality	Province/Terri, rry	Postal code
Business number of parent company	DUNS number of parent company (if applicable)	
Parent Company 8		% ownership of
Legal name		reporting company
Mailing address		/6
City/District/Municipality	Province/Territory	Postal code
D.:	SUN (III)	
Business number of parent company	DUNS nul be, of parent company (if applicable)	
		% ownership of
Parent Company 9		
		reporting company
Legal name		reporting company %
Legal name Mailing address	Province/Territory	%
Legal name Mailing address City/District/Municipal.		
Legal name Mailing address City/District/Municipal.	Province/Territory DUNS number of parent company (if applicable)	%
Legal name Mailing address City/District/Municipal.		%Postal code
Legal name Mailing address City/District/Municipal. Business number of parent company Parent Company 10		% ownership of reporting company
Legal name Mailing address City/District/Municipali / Business number of parent company Parent Company 10 Legal name		Postal code % ownership of
Legal name Mailing address City/District/Municipality Business number of parent company	DUNS number of parent company (if applicable)	% ownership of reporting company

SECTION V. MAIN SECTOR OF ACTIVITY Please select the main sector of activity for this facility. Oil & Gas* - Bitumen production by extraction from mined bituminous sands - Bitumen production by in-situ extraction from bituminous sands - Conventional heavy crude oil production - Conventional light/medium crude oil production - Frontier light/medium oil production - Natural gas distribution - Natural gas processing - Natural gas production - Natural gas transmission - Petroleum refining - Synthetic crude oil production (or upgrading) Manufacturing & Mining* - Aluminium and alumina - Cement - Chemical fertilizer - Chemicals - Glass - Lime - Mining of iron ore - Mining of other materials - Pulp & paper - Smelting and refining - Steel Electricity* - Thermal electricity generation - Useful thermal energy for sale generation Other - Municipality and government - Other industrial, commercial, and institutional activities - Other

SECTION VI. GHG EMISSIONS INFORMATION

This section consists of:

PART A. GHG Emissions for 2005

PART B. GHG Emissions Calculation Methods

PART C. Total GHG Emissions

For PART A:

- Report Carbon Dioxide (CO₂), Methane (CH₄) and Nitrous Oxide (N₂O), Emissions by Source:
 - Stationary Fuel Combustion Emissions*
 - Industrial Process Emissions*
 - Venting and Flaring Emissions*
 - Other Fugitive Emissions*
 - On-site Transportation Emissions*
 - Waste and Wastewater Emissions*
- Report CO₂ emissions from biomass* combustion as a separate item.
- Alberta facilities may also report geological injection of CO 2.
- Report hydrofluorocarbon* (HFC), perfluorocarbon* (PFC) and sulphus hearfluoride* (SF 6) emissions by species.

SECTION VI. GHG EMISSIONS INFORMATION (continued)

PART A - GHG Emissions for 2005

INSTRUCTIONS

Report the direct* greenhouse emissions for this facility from January 1 to December 31, 2005.

An entry is required for the total emissions for each gas type and emission category below.

(1) Enter the appropriate quantity in tonnes.

(You may enter up to 8 digits in front of the decimal point and up to 4 digits after the decimal point);

- Enter a "0" (zero) if the emission was measured and the result was zero;
- <u>Check</u> "N/A" (not applicable*) if the emissions are not present <u>or</u> the emissions are not measured due to a lack of data.
- (2) Calculate the quantity in tonnes of CO₂ equivalent units* by multiplying the quantity you entered in tonnes . y the Global Warning Potential (GWP)* of the given GHG.

The CAS (Chemical Abstract Service) number* for each gas can be viewed on page 24.

Stationary Fuel Combustion Emissions	*		Y	
	(1)	1		(2)
	N/A Tonnes	GWP		Tonnes (in CO ₂ e)
Carbon dioxide (CO ₂)		X 1	=	
Methane (CH ₄)		21	=	
Nitrous oxide (N ₂ O)		X 310	=	
		To	otal:	
Industrial Process Emissions*				
Carbon dioxide (CO ₂)		X 1	=	
Methane (CH ₄)		X 21	=	
Nitrous oxide (N ₂ O)		X 310	=	
		To	otal:	
Venting & Flaring Emissions*				
Carbon dioxide (CO ₂)		X 1	=	
Methane (CH ₄)		X 21	=	
Nitrous oxide (N ₂ 기)		X 310	=	
Y		To	otal:	
Other Fugitive Emissions*				
Carbon dioxide (CO ₂)		X 1	=	
Methane (CH ₄)		X 21	=	
Nitrous oxide (N ₂ O)		X 310	=	

Total:

On-site Transportation Emissions*	N1/A	(1) Topped		CIME		(2)
Carbon dioxide (CO ₂)	N/A	Tonnes	X	GWP 1	=	Tonnes (in CO ₂ e)
Methane (CH ₄)			X	21	=	
Nitrous oxide (N ₂ O)			X	310	=	
				То	tal:	
Waste and Wastewater Emissions*						
Carbon dioxide (CO ₂)			X	1	=	
Methane (CH ₄)			X	21	=	
Nitrous oxide (N ₂ O)			X	310	=	
				7	tal:	
Memo Item CO ₂ Emissions from Biomass* (Do I	not include in total,))	
Carbon dioxide from biomass combustion* (CO ₂)			×	1	=	
Geological Injection of CO ₂						
(not mandatory)			X	1	=	
		om g. plogical injection a				otals.
(not mandatory) Note: CO ₂ emissions from biomass		om g. plogical injection a				otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission		om g. ological injection a	are <u>no</u>	<u>t</u> included	in the t	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃)		om genlogical injection a	are <u>no</u>	t included	in the to	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃) HFC-32 (CH ₂ F ₂)		om gunlogical injection a	x X	11700 650	= = =	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃) HFC-32 (CH ₂ F ₂) HFC-41 (CH ₃ F)		om gual injection a	X X X	11700 650 150	= = =	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃) HFC-32 (CH ₂ F ₂) HFC-41 (CH ₃ F) HFC-43-10mee (C ₅ H ₂ F ₁₀)		om & ological injection a	x x x x	11700 650 150	= = = =	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃) HFC-32 (CH ₂ F ₂) HFC-41 (CH ₃ F) HFC-43-10mee (C ₅ H ₂ F ₁₀) HFC-125 (C ₂ HF ₅)		om genlogical injection a	x x x x x	11700 650 150 1300 2800	= = = = =	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃) HFC-32 (CH ₂ F ₂) HFC-41 (CH ₃ F) HFC-43-10mee (C ₅ H ₂ F ₁₀) HFC-125 (C ₂ HF ₅) HFC-134 (CHF ₂ CHF ₂)		om g. plog cal injection a	X X X X X	11700 650 150 1300 2800 1000	= = = = =	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃) HFC-32 (CH ₂ F ₂) HFC-41 (CH ₃ F) HFC-43-10mee (C ₅ H ₂ F ₁₀) HFC-125 (C ₂ HF ₅) HFC-134 (CHF ₂ CHF ₂) HFC-134a (CH ₂ FCF ₂)		om g. plogral injection a	X X X X X X	11700 650 150 1300 2800 1000	= = = = = =	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃) HFC-32 (CH ₂ F ₂) HFC-41 (CH ₃ F) HFC-43-10mee (C ₅ H ₂ F ₁₀) HFC-125 (C ₂ HF ₅) HFC-134 (CHF ₂ CHF ₂) HFC-134a (CH ₂ FCF ₂)		om genlogical injection a	x x x x x x x	11700 650 150 1300 2800 1000 1300 300	= = = = = =	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃) HFC-32 (CH ₂ F ₂) HFC-41 (CH ₃ F) HFC-43-10mee (C ₅ H ₂ F ₁₀) HFC-125 (C ₂ HF ₅) HFC-134 (CHF ₂ CHF ₂) HFC-134a (CH ₂ FCF ₂) HFC-143 (CHF ₂ CH ₂ F) HFC-143 (CHF ₂ CH ₃ F)		om & alogical injection a	x x x x x x x	11700 650 150 1300 2800 1000 1300 300 3800	= = = = = =	otals.
Note: CO ₂ emissions from biomass Hydrofluorocarbon (HFC) Emission HFC-23 (CHF ₃) HFC-32 (CH ₂ F ₂) HFC-41 (CH ₃ F) HFC-43-10mee (C ₅ H ₂ F ₁₀) HFC-125 (C ₂ HF ₅) HFC-134 (CHF ₂ CHF ₂) HFC-134a (CH ₂ FCF ₂) HFC-143 (CHF ₂ CH ₂ F) HFC-143a (CF ₃ CH ₃) HFC-152a (CH ₃ CHF ₂)		om & alogical injection a	x x x x x x x x	11700 650 150 1300 2800 1000 1300 300 3800 140	= = = = = = =	otals.

Perfluorocarbon (PFC) Emissions*						
	NI/A	(1) Tonnes		GWP		(2) Tonnes (in CO ₂ e)
Perfluoromethane (CF ₄)	N/A	Torines	Х	6500	=	Torines (iii CO ₂ e)
Perfluoroethane (C ₂ F ₆)			Х	9200	=	
Perfluoropropane (C ₃ F ₈)			Х	7000	=	
Perfluorobutane (C ₄ F ₁₀)			х	7000	=	
Perfluorocyclobutane (c-C ₄ F ₈)			х	8700	=	4
Perfluoropentane (C ₅ F ₁₂)			x	7500	=	
Perfluorohexane (C ₆ F ₁₄)			х	7400		
					rtai:	0.0000
Sulphur Hexafluoride (SF6) Emission	ons*					
Sulphur hexafluoride (SF ₆)			X	23900	=	
				Y	T - 4 - 1	
					Total	:
	∧C					
	C					
	EC.					
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SECTION VI. GHG EMISSIONS	INFORMATION (concluded)	
PART B - GHG emission calculation	methods	
Indicate the method(s) used to calculate	te the emissions reported. (Check all that a	apply)
Monitoring or Direct Measurement*		
Mass Balance*		
Emission Factors*		
Engineering Estimates*		
PART C - Total GHG Emissions		4
		A Y
 Calculate the total quantity (in tonnes) for (in tonnes) recorded in Part A. 	r each GHG type, except for HFCs and PFCs, b	by adding the indivious of quantities
(2) Calculate the total quantity (in tonnes of continuous of CO2 equivalent) recorded in	CO_2 equivalent) for each GHG type by adding the Part A.	he ir dividu. I quantities
Determine the total GHG emissions for the (in tonnes of CO ₂ equivalent) recorded by	he facility (in tonnes of CO_2 equivalent) by addir elow for each GHG type.	ng the total quantities
Note: CO ₂ emissions from biomass combustic	on and from geological injection are no. included	d in the totals (record as separate items).
Total GHG Emissions for the Facility		
Greenhouse Gas	Tonnes	(2) Tonnes <i>(in CO ₂ e)</i>
Carbon dioxide (CO ₂)		
Methane (CH ₄)		
Nitrous oxide (N ₂ O)		
Hydrofluorocarbons (HFCs)		
Perfluorocarbons (PFCs)	7	
Sulphur Hexafluoride (SF-)		
		(3) Total:
CO ₂ emissions from L'omass		
Geological Injection		

SECTION VII. COMMENTS This section is optional. Enter any comments you wish to include related to the information you have reported. If you are a reporter in Alberta, you must include any additional EPEA approval numbers to which the submitting facility is subject to. You may also use this comment field to provide information referred to in Section 6 of the Specified Gas Reporting Standard - Additionnal Specified Gas Emission Information. (e.g. emission intensity, indirect emissions, further details of emission calculation methods, etc.) Enter your company or facility website if you wish to provide more information. (e.g. contextual information on environmental activities, etc.) Comments: Website: **SECTION VIII. CONFIDENTIALITY REQUEST** The 2005 Gazette Notice indicated that the Minister of the Environment in ends to publish the information collected on 2005 emissions. Under the Canadian Environmental Protection Act (CEPA 19s.) and the Alberta Climate Change and Emissions Management Act, you can request that part or all of the information that you have provided in this report be treated as confidential. You must provide appropriate justification to support this request. (see Confidentiality Request* in the Definitions section (page 23) for more information) Are you requesting confidentiality of this report unour CFPA 1999? Yes If yes, you must submit a written request with appropriate justification and supporting documentation by mail to Environment Canada with your report submission. Environment Canada will be in contact with you regarding your request. Environment Carracta GHG Division Place Vincent Mc ssey, 19th Floor 351 £4-Jc seph blvd. Gatineat Quebec (1A 0₁ '3 For Alberta faciliuns only: Are you requesting confidentiality of this report under the Alberta Yes No If yes, you must submit a written request with appropriate justification and supporting documentation by mail to Alberta government with your report submission. The Alberta government will be in contact with you regarding your request. Director **Environmental Monitoring and Evaluation Branch Environmental Assurance** Alberta Environment 11th Floor, Oxbridge Place 9820-106 Street Edmonton, Alberta T5K 2J6

SECTION IX. STATEMENT OF CERTIFICATION

A signed and dated Statement of Certification* (SoC) must be submitted for the 2005 GHG report.

This statement contains facility information, total GHG emissions, and the name and contact information for the Certifying Official for the report.

Before completing the Statement of Certification:

1. **Review** the GHG report and make any required corrections.

To complete the Statement of Certification:

- 1. Print the Statement of Certification (SoC) that was sent to you on company letterhead.
- 2. **Complete** the SoC by copying the appropriate information from the GHG report.
- 3. **Have** the completed SoC signed by the Certifying Official.

(NOTE: If this facility is in Alberta, prepare and sign 2 copies.)

SECTION X. SUBMIT YOUR REPORT

You have now completed the GHG report.

The GHG report, the Statement of Certification and the request for confidency lity, including justification and supporting documentation (if applicable), are to be submitted no later than **Jun 1, 2006**.

- 1. Retain a copy of all information submitted and all other information upon which this report is based.
- 2. Send the report by mail to Statistics Canada.

GHG Reporting Statistics Canada 11th Floor, Section D-2, Jean Talon Building, Ottawa, Ontario

3. **Send** the signed Statement of Certification by mail to Environment Canada. If the facility is located in Alberta, **send** a second signed Statement of Certification to Alberta Environment.

Environment Canada
GHG Division
Place Vincent Massey, 19th Floor
351 7t-3 seph Blvd.
Satine au, Quebec
Kull 9H3

Environmental Monitoring and Evaluation Branch
Environmental Assurance
Alberta Environment
11th Floor, Oxbridge Place
9820-106 Street
Edmonton, Alberta
T5K 2J6

DEFINITIONS / EXPLANATORY INFORMATION

SECTION I. REPORTER INFORMATION

Reporter

The individual who will serve as the main contact for the reporting company or reporting facility. This individual should be the person completing the report and he/she will receive all information, mailings and inquiries regarding this reporting requirement.

Reporting Company

The person or company that operates the facility that is required to submit a GHG report. If your company operates more than one reporting facility, ensure that the company name is used consistently for all facilities. In Alberta, the reporting company is the person responsible for the facility.

Legal Name

For corporations, it is the corporate name appearing on either the Articles or Certificate of Incorporation or the Memorandum of Association. The legal name for partnerships may vary, depending on the province in which the partnership is based. Provincial statutory requirements may exist for the legal names of both limited partnerships and limited liability partnerships. If there is no provincial statutory requirement, the legal name of the partnership may require the inclusion of every name belonging to the partnership. For individuals operating a business trust is neither a corporation nor a partnership, it is the individual's first and last name. Enter the legal name effective or December 31 of the year the emissions took place.

Trade Name

The name under which an individual, partnership or corporation chooses to create. It is synonymous with "Operating Name". The operating name is the name by which the company may be I nown to its customers or clients. It may be the same as the Legal Name but this is not always the case. Enter the trace rice me effective on December 31 of the year the emissions took place.

Business Number (BN)

A nine-digit registration number issued by the Canada Revenue Agoricy (CRA) to Canadian businesses that register for one or more of the following: corporate income tax; imported exporter account number; payroll (source) deductions (trust accounts); or good and services tax. This number carries found on all forms issued to a business by the CRA. The first nine digits that appear on these forms is the Business Number. This registration number will stay the same no matter how many or what types of accounts a business has.

SECTION II. FACILITY INFORMATION

Facility

A contiguous facility, a pipeline transponation system or an offshore installation.

Contiguous Facility

All buildings (including on ce buildings), equipment, structures and stationary items that are located on a single site or on contiguous or adjacent sites, that are owned or operated by the same person and that function as a single integrated site, and includes vastevater collection systems that discharge treated or untreated wastewater into surface waters.

Equipment

Transportation machinery integral to the production process(es) carried out at the facility.

Pipeline Transportation System

All pipelines transporting processed natural gas and their associated installations (including storage facilities but excluding straddle plants or other processing installations) that are under single ownership within a province or territory. For example, a natural gas transmission company that has several pipeline operations or networks within and across several provinces is to use the provincial boundaries to identify its "pipeline transportation systems".

Offshore Installation

An offshore drilling unit, production platform or ship, or sub-sea installation attached or anchored to the continental shelf of Canada in connection with the exploitation of oil or gas.

Facility pursuant to Alberta's Specified Gas Reporting Regulation

- (i) any plant, structure or thing where an activity listed in section 2 of the Schedule of Activities to the Environmental Protection and Enhancement Act occurs, and
- (ii) a site or one or more contiguous or adjacent sites that are operated and function in an integrated fashion where an activity listed in any of sections 3 to 11 of the Schedule of Activities to the Environmental Protection and Enhancement Act occurs, including all the buildings, equipment, structures, machinery and vehicles that are an integral part of the activity.

Facility Name

The name of the facility or any other information which, in addition to the "Reporting Company" name, completely identifies the facility. For example:

REPORTING COMPANY NAME
Specialty Pharmaceuticals

XYZ Airlines

Calgary

Calgary

ABC Refineries Alberta Processing Plant International Manufacturing ABC Manufacturing Division

Facility Location

The site address of the facility (i.e. where the facility is physically located). Enter the sireet address (street number, street name and other identifiers such as suite number or building designation) or run, address for the facility. **Do not use** a mailing address (e.g. post office box). If a street or rural address is not av. lable, enter latitude and longitude information (using the format: degrees, minutes, seconds) See the Technical Guidan a document (questions 22 and 23 in Appendix A) for additional details.

Rural Address

Information that describes the land on which the facility is located. For example:

- Quarter, Section, Township, Range, Meridian or
- Lot, Concession, Township, County or
- · Lot, Range, Parish, County or
- · Land descriptions used in the region.

Alberta (AB) Approval Number

The number of the approval or registration given to your facility in the province of Alberta if it is subject to an *Environmental Protection and Enhancement Act* (EPEA) approval or registration. This is only applicable to facilities located in the province of Alberta. This number will consist of a family approval number (up to 8 digits), followed by the renewal number (2 digits if you have had a renewal of your approval), followed by an amendment number (2 digits if you have had amendments) (e.g. 12345678-12-12) **Cally er ter the family approval number.** From the above example, this would be: 12345678.

National Pollutant Release Inventory Identification (NPRI ID)

A permanent number that was assigned to your facility if an NPRI report was previously submitted for your facility. The NPRI ID is specific to the facility, at a particular location, and does not change even if ownership or the name of the facility does.

North American Industry Classification System (NAICS) Code

A six-digit code that was developed by Statistics Canada, the U.S. Office of Management and Budget and Mexico's Instituto Nacional de Estadistica Geografia e Informatica, to enable the respective national agencies to collect comparable statistical data. The NAICS code in Canada consists of 20 sectors, 99 subsectors, 321 industry groups, 734 industries and 921 national industries. Industries within these sectors are grouped according to their production processes. Enter the classification code that best describes the primary activity at the facility by using the NAICS code search tool.

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SECTION III. ADDITIONAL CONTACT INFORMATION

Public Contact

The Public Contact does not have to be the same person who prepares the report or signs the Statement of Certification and does not necessarily need to be someone at the reporting facility. However, this person should be able to answer questions from the public about the report. The public contact will be identified in the GHG report that is released to the public.

Certifying Official

The authorized company official who is signing the required Statement of Certification to be submitted with the GHG report. This person must have delegated powers to accept legal responsibility for the information provided. Some facilities may choose the CEO, the environmental coordinator or the plant manager. The name of the certifying official will not appear in the public report.

SECTION IV. PARENT COMPANY INFORMATION

Parent Company

The person or highest level company or group of companies that owns the repending ompany.

Business Number

A nine-digit registration number issued by the Canada Revenue Agency (CRA) to Canadian businesses that register for one or more of the following: corporate income tax; importer/exporter account number; payroll (source) deductions (trust accounts); or good and services tax. This number can be found of all forms issued to a business by the CRA. The first nine digits that appear on these forms is the Business Number. This registration number will stay the same no matter how many or what types of accounts a business has.

DUNS Number

A unique nine-digit number that D&B (formerly Dun and Bradstreet) uses to identify companies in its financial database. The internationally recognized numbering Lystem is developed and maintained by the private firm of D&B. This information will help to identify the corporate Support sometimes relating reporting companies to their parent companies. Enter the D-U-N-S number for your parent company if available. This number may be available from your company's treasurer or financial officer.

SECTION V. MAIN SECTOR OF ACTIVITY

The activities defined below represent the primary sources of emissions likely to be subject to GHG reduction targets under the proposed federal Large Final Emitter (LFE) system.

Oil & Gas

Conventional Light/Medium Crude Oil Production

The production of crude oil that has a density of less than 900 kg/m3 (greater than 25° API) obtained via "conventional" recovery methods (i.e., normal primary, secondary or tertiary processes) from a "conventional" source (i.e., not from bituminous sands, shales or carbonates) in a "conventional" location (i.e., not from the frontier, including the offshore).

Frontier Light/Medium Oil Production

The production of crude oil that has a density of less than 900 kg/m³ (greater than 25° API) obtained via "conventional" recovery methods (i.e., normal primary, secondary or tertiary processes) from a "conventional" ource (i.e., not from bituminous sands, shales or carbonates) in a frontier (including an offshore) location.

Conventional Heavy Crude Oil Production

The production of crude oil that has a density of greater than 900 kg/m3 (less than 25 API) but less than 1,000 kg/m3 (more than 10° API) obtained via "conventional" recovery methods (i.e., normal primary, secondary or tertiary processes) from a "conventional" source (i.e., not from bituminous sands, shales or carbonates) in a "conventional" location (i.e., not from the frontier, including the offshore).

Bitumen production by extraction from mined bituminous sands

The production of bitumen that has a density of 1,000 kg/m3 or greater (10° API or less) and a viscosity of 10,000 centipoises or greater by extraction from mined bituminous sands.

Bitumen production by in-situ extraction from bituminous sends

The production of bitumen (a very heavy form of crude c.1) that has a density of 1,000 kg/m3 or greater (10° API or less) and a viscosity of 10,000 centipoises or greater by "in-situ" extraction from bituminous sands.

Synthetic crude oil production (or upgradir g)

The production of synthetic crude oil ("SCC") obtained via the upgrading of heavy oil, including but not limited to, bitumen.

Natural gas production

The production of natural gas (".'GP;od") encompasses the collection of the natural gas, as it comes from the ground, into field batteries, which again the process of separating out the impurities and heavier hydrocarbon components.

Natural gas processing

The processing of latura gas encompasses the facilities (processing plants) located between the field batteries and the beginning of the long-naul transmission pipelines, which separate out more of the impurities and heavier hydrocarbon components until the transmission pipeline specifications are met.

Petroleum refining

The production of refined petroleum products ("RPPs") from natural gas liquids and a mixture of various types of crude oil using any of a wide variety of particular refining equipment and installations.

Natural gas transmission

Natural gas transmission comprises the transport and ancillary storage of marketable natural gas from a natural gas battery or natural gas plant to the head of a natural gas local distribution system.

Natural gas distribution

Natural gas distribution comprises the transport and ancillary storage of marketable natural gas from the terminus of a natural gas transmission system to the end-use consumers of the marketable natural gas.

Manufacturing & Mining

Aluminum and alumina

The production of alumina from bauxite or primary aluminum from alumina. This includes the anode making process and excludes secondary activities such as rolling, drawing, casting or extruding aluminum into basic shapes.

Cement

Production of cement from limestone. The activity of quarrying limestone and shipping this to the kiln is excluded.

Chemicals

The production of ethylene, propylene, benzene, toluene, xylene and other petrochemicals. Also includes the production of alpha olefins, terephthalic acid, styrene, ethylene glycol, methanol, adipic acid, diamine, TiO2 pigment, carbon black, chlorine, iso-butane, linear alkyl benzene, methylamine, hydrogen. Emissions related to the production of resins, pharmaceuticals, adhesives and other chemicals not defined above are excluded.

Chemical Fertilizer

The production of nitrogenous fertilizer materials. Also includes the production of nitric acid. whether or not for use as a fertilizer material.

Glass

Production of glass from sand and cullet.

Lime

The production of lime from limestone. The activity of quarrying limeston, and shipping this to the kiln is excluded.

Mining of Iron Ore

The production of iron ore pellets including the processing an angelomeration of iron ore concentrate into iron ore pellets (both flux and acid pellets).

Mining of Other Materials

Mining of other materials.

Pulp and Paper

The production of newsprint, pulp, pape poard and other paper products. This does not include any emissions associated with the production of wood products, paper converting activities; wastewater effluent treatment equipment or landfill sites.

Smelting and Refining

The smelting of non-ferrous modals, except aluminium, from ores or recycled materials; and refining these metals by electrolytic or other processes. Emissions from secondary activities, such as rolling or extruding basic shapes, from metal are not included.

Steel

The production of steel from iron ore and/or scrap iron. This includes production from blast furnaces, electric arc furnaces and direct reduced iron furnaces and any related coke or lime making operations. This does not include emissions associated with the production of cold rolled steel products.

Electricity Production

Thermal Electricity Generation

The generation of electricity from fossil fuels or fuels derived from fossil fuels.

<u>Useful Thermal Energy for Sale Generation</u>

Useful thermal energy means thermal energy, including, but not limited to, steam, used in any heating or cooling application, or in any industrial or commercial process, with the exception of on-site electricity production.

SECTION VI. GREENHOUSE GAS EMISSION INFORMATION

Direct emissions

GHG emissions from sources that are located at the reporting facility.

Carbon dioxide equivalent (CO₂ eq.)

A unit of measure used to allow the addition of or the comparison between gases that have different Global Warming Potentials (GWPs). Since many GHGs exist and their GWPs vary, the emissions are added in a common unit, CO $_2$ equivalent. To express GHG emissions in units of CO $_2$ equivalent, the quantity of a given GHG (expressed in units of mass) is multiplied by its GWP.

Global Warming Potential (GWP)

A relative measure of the warming effect that the emission of a GHG might have on the Earth's atmough are. Calculated as the ratio of the time-integrated radiative forcing (i.e. the amount of heat-trapping potential) that would result from the emission of 1 kg of a given GHG to that from the emission of 1 kg of carbon dioxide. For example, the GWP for nitrous oxide (N_2O) is 310, which means that 1 kg of N_2O emissions is equivalent to 310 kg of CO_2 emissions.

CAS number (or CAS registry number)

Refers to the Chemical Abstract Service number, a unique numerical identifier that is given to every chemical that has been described in the literature. The Chemical Abstracts Service, a division of the American Chemical Society, assigns these identifiers.

Not Applicable (N/A)

You may only select the N/A box in those cases where:

- the emission source or emission type does not occur at your facility or
- the emissions from a given source are not estimated due to unavailability of data.

Enter the digit "0" in the numeric field if you have calculated the emissions and they are zero.

Stationary Fuel Combustion Emissions

Direct emissions resulting from non-vehicular fuel composition occurring at the facility for the purpose of producing energy (e.g. to generate electricity, heat or steam). This is cludes on-site waste incineration if the waste is combusted for energy. Emissions from waste incineration used as a disposal method are included under the Waste and Wastewater Emissions category. (See Memo Item - CO₂ Emissions from Biomass for special consideration of CO₂ emissions from the combustion of biomass).

Industrial Process Emissions

Direct emissions from an industrial process involving chemical reactions other than combustion, and where the primary purpose of the industrial process is not energy production. Examples of industrial processes that represent sources of this category of emissions include mineral production (e.g. cement, lime), metal production (e.g. iron & steel, aluminium) and chemical production (e.g. adipic acid, nitric acid). See Technical Guidance document for further details.

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Venting and Flaring Emissions

<u>Venting</u> emissions are defined as the intentional release to the atmosphere of a waste gas or liquid stream. These include, but are not limited to, emissions of casing gas, associated (or solution) gas, treater, stabilizer, dehydrator off gas and blanket gas as well as emissions from pneumatic devices that use natural gas as a driver, compressor start-up, pipeline and other blowdowns, and metering and regulation station control loops.

<u>Flaring</u> emissions are defined as intentional releases of gases from industrial activities from the controlled combustion of a gas and/or liquid stream produced on site not for the purpose of producing energy. They may arise from waste petroleum incineration, hazardous emission

prevention systems (whether in pilot or active mode), well testing, natural gas gathering systems, processing plant operations, crude oil production, pipeline operations, petroleum refining as well as chemical fertilizer and steel production. **Note:** Flaring of landfill gas is to be accounted for under the Waste and Wastewater Emissions category.

Other Fugitive Emissions

Other fugitive emissions are defined as intentional or unintentional (e.g. leaks) releases of gases from industrial activities, other than those that fall under Venting and Flaring Emissions described above. In general, other fugitive emissions are a result of the handling or processing of fue, in the fossil fuel industries. In particular, they may arise from the production, processing, transmission, storage and use of solid, liquid or gaseous fuels. Examples include leakage from patural gas transmission lines and processing plants, accidental release from oil and gas wells, and releases from the mining and handling of coal.

On-site Transportation Emissions

Direct emissions of CO_2 , CH_4 and N_2O resulting from fuel combustion in machinery used for the on-site (i.e. at the facility) transportation of products and material integral to the production process. The terminology "integral to the production process" means transporting raw or intermediate products and materials within the production process. Examples of such activities may include:

- equipment used at a steel mill to move molter, motal to different stages in the steel production process;
- equipment used at oil sands operations to mine and/or move oil sand or other materials to subsequent on-site processes (e.g. crushing, extraction); and
- equipment used at above- or believe found mining operations to mine and/or move mined materials or other intermediate products or materials to different on-site production processes.

Waste and Wastewater Emissions

Direct emissions from on-cite (i.e. at the facility) disposal of waste and waste or wastewater treatment. Sources of emissions from on-sice was e disposal and waste or wastewater treatment at a facility may include landfilling of solid waste, flaring of landfilling of solid waste and waste incineration.

GHG emissions from waste-to-energy conversion, where waste material is used directly as fuel or converted into fuel, must be calculated and reported under Stationary Fuel Combustion Emissions. There are emissions of CO₂, CH₄ and N₂O from waste disposal, and special consideration is necessary for CO₂ emissions originating from biomass materials in waste (see Memo Item - CO₂ Emissions from Biomass).

Biomass

Defined as plant materials, animal waste or any product made of either of these. This includes (but is not necessarily limited to): wood and wood products, charcoal, agricultural residues and wastes (including organic material above and below ground, both living and dead, such as trees, crops, grasses, tree litter, roots, etc), municipal and industrial wastes (where the organic material is biological in origin), landfill gas, bio-alcohols, black liquor, sludge gas, animal or plant-derived oils.

Memo Item - CO2 Emissions from Biomass

CO₂ emissions from the combustion of biomass are to be reported separately as a "Memo Item" and are not included in the facility's emission total. Enter in this field CO₂ emissions from:

- · combustion of biomass fuels
- incineration of the biomass portion of waste (CO₂ emissions from incineration of the fossil-based portion of waste are reported under Waste and Wastewater Emissions)
- · flaring of landfill gas

Please note that CH₄ and N₂O emissions from the combustion of biomass are included in the facility's emission total. Enter these emissions either under Stationary Fuel Combustion (if the biomass is burned for energy process), or under Waste and Wastewater (if it is burned as a disposal method).

Geologically Injected CO₂

Refers to CO₂ captured at a facility and injected into geological formations. Geologically injected CO₂ is not a direct emission. (Only Alberta facilities to voluntarily provide this information.)

Hydrofluorocarbon (HFC) Emissions

HFCs are a series of synthetic gases containing carbon, hydrogen and injuries. The main sources of HFC emissions from industrial processes and industrial product use include emissions arising from foam blowing and the use of HFCs as a cover gas in metal production.

Emissions of HFCs from other applications, such as refrige ation, air conditioning, propellants in aerosols, fire extinguishers and solvents, are not considered a dustrial process or industrial product use emissions under the mandatory reporting of GHG emissions and therefore are not to be reported.

Perfluorocarbon (PFC) Emissions

PFCs are a family of industrial gases, and they are to be reported by individual PFC gas. The main sources of PFC emissions from industrial processes and inclusival product use are attributed to two areas — aluminium production and foam blowing. PFC emissions are an underirable byproduct of aluminium production, while PFCs are purchased and used as foam-blowing agents

Emissions of PFCs from other applications, such as refrigeration, air conditioning, semiconductor manufacturing, solvents, aerosols and fire extinguishing, are not considered industrial process or industrial product use emissions under the mandatory reporting of GhC emissions and therefore are not to be reported.

Sulphur Hexafluoria (SF₆) Emissions

SF6 is a synthetic as with chemical properties that render it relatively inert, which makes it a preferred choice in various industrial application. The main sources of SF_6 emissions from industrial processes and industrial product use include SF_6 used as a cover gas in magnesium smelting and casting as well as for special foundry products in the aluminium industry. Use of SF_6 as an insulating gas in electrical equipment (e.g. gas-insulated switchgear, circuit breakers) is also considered as an industrial product use.

Emissions of SF₆ from other applications, such as fire suppression and explosion protection, leak detection and various electronic applications, are not considered industrial process or industrial product use emissions under the mandatory reporting of GHG emissions and therefore are not to be reported.

Monitoring or Direct Measurement

This type of method may involve continuous emission monitoring systems (CEMS) (emissions recorded over an extended and uninterrupted period), predictive emission monitoring (correlations developed between measured emission rates and process parameters) or source testing (e.g. stack sampling).

Mass Balance

This type of method involves the application of the law of conservation of mass to a facility, process or piece of equipment. Emissions are determined from the difference in the input and output of a unit operation where the accumulation and depletion of a substance are included in the calculations.

Emission Factors

This method uses emission factors (EF) to estimate the rate at which a pollutant is released into the atmosphere (or captured) as a result of some process activity or unit throughput. The EFs used may be average or general EFs, or technology-specific EFs.

Engineering Estimates

This type of method may involve estimating emissions from engineering principles and judgement, using knowledge of the chemical and physical processes involved, the design features of the source, and an understanding of the applicable physical and chemical laws.

SECTION VIII. CONFIDENTIALITY REQUEST

Confidentiality Request

A reporter may submit a written request (along with supporting information for justification) to at part, or all, of the submission be treated as confidential, based on the reasons set out in Section 52 of the CEPA 1999. A request for confidentiality must be submitted each year since a request for confidentiality only applies to the reporting year in which the request was made.

CEPA Section 52 states the basis on which a confidentiality request can Le mac e:

- · the information constitutes a trade secret:
- public disclosure may cause material financial loss to, or projudice to the competitive position of the company; or
- interfere with contractual or other negotiations between to a company and others.

To be treated as confidential, the reporter must demonstrate that they treat the information as confidential and wish to continue to do so. They must also demonstrate that this information is not available to the general public through legal means.

A request for confidentiality is not determ. ative. A determination of whether the information is confidential will be based on an objective analysis of the facts (informatio, provided by the reporter in support of its confidentiality request).

Under the Alberta Regulation 251,2004, Climate Change and Emissions Management Act (CCEMA), Specified Gas Reporting Regulation, a report may include a written request that portions of the report be kept confidential, for a period of up to 5 years, on the basis that the information is commercial, financial, scientific or technical information that would reveal proprietary business competitive or trade secret information about a specific facility, technology or corporative initiative.

SECTION IX. STATEMENT OF CERTIFICATION

Statement of Certification

The Statement of Certification is a document with your company letterhead and signature of an authorized company official (Certifying Official) where the person who signs this statement acknowledges that:

- · He/she has reviewed the submitted report and any supporting documents;
- · He/she has exercised due diligence to ensure that the information provided is true and complete; and
- To the best of the signing officer's knowledge, the amounts and values provided in the report are accurate, based on reasonable estimates using available data and quantification methodology chosen by the reporting facility.

GLOSSARY

Chemical Abstract Service (CAS) number and Global Warming Potential (GWP) for the GHGs or GHG species

Greenhouse Gas	Formula	CAS number	GWP
Carbon dioxide	CO ₂	124-38-9	1
Methane	CH ₄	74-82-8	21
Nitrous oxide	N ₂ O	10024-97-2	310
Sulphur hexafluoride	SF ₆	2551-62-4	23 900
Hydrofluorocarbons (HFC):		1	
HFC-23 (trifluoromethane)	CHF ₃	75-46-7	11 700
HFC-32 (difluoromethane)	CH ₂ F ₂	75-10-5	650
HFC-41 (fluoromethane)	CH₃F	597-53-3	150
HFC-43-10mee (1,1,1,2,3,4,4,5,5,5-deca fluoropentane)	C ₅ H ₂ F ₁₀	138495-42-8	1 300
HFC-125 (pentafluoroethane)	C ₂ HF ₅	354-33-6	2 800
HFC-134	CHF ₂ CHF ₂	759-35-3	1 000
HFC-134a (1,1,1,2-tetrafluoroethane)	CH ₂ FCF ₃	811-97-2	1 300
HFC-143 (1,1,2-trifluoroethane)	CHF ₂ CH ₂ F	430-66-0	300
HFC-143a (1,1,1-trifluoroethane)	CF₃CH₂	420-46-2	3 800
HFC-152a (1,1-difluoroethane)	CH ₃ CH ₅	75-37-6	140
HFC-227ea (1,1,1,2,3,3,3-heptafluoropropane)	C ₃ YF ₇	431-89-0	2 900
HFC-236fa (1,1,1,3,3,3-hexafluoropropane)	C ₃ H ₂ F ₆	690-39-1	6 300
HFC-245ca (1,1,2,2,3-pentafluoropropane)	C ₃ H ₃ F ₅	679-86-7	560
Perfluorocarbons (PFC):		1	
Perfluoromethane (tetrafluoromethane)	CF ₄	75-73-0	6 500
Perfluoroethane (hexafluoroethane)	C ₂ F ₆	76-16-4	9 200
Perfluoropropane (octafluoropropane)	C ₃ F ₈	76-19-7	7 000
Perfluorobutane (decafluorobutane)	C ₄ F ₁₀	355-25-9	7 000
Perfluorocyclobutane (octafluorocyclobutane,	c-C ₄ F ₈	115-25-3	8 700
Perfluoropentane (dodecafluoropentarie)	C ₅ F ₁₂	678-26-2	7 500
Perfluorohexane (tetradecafluorohoxane)	C ₆ F ₁₄	355-42-0	7 400



Instructions for Statement of Certification

INSTRUCTIONS

You are required to mail the attached Statement of Certification (completed and signed) for the 2005 Greenhouse Gas (GHG) report to Environment Canada no later than June 1, 2006 (see mailing address listed below).

If this facility is in Alberta, you must also send a second completed and signed statement to Alberta Environment.

To complete the Statement of Certification:

- 1. Print the Statement of Certification (SoC) (next page) on company letterhead.
- 2. **Complete** the statement by copying the appropriate information from the GHG report.
- 3. **Have** the SoC **signed** by the certifying official (identified in Section 1, Additional Contact Information, of the reporting form.).

Mailing Addresses:

Environment Canada GHG Division Place Vincent Massey, 19th Floor 351 St-Joseph Blvd. Gatineau, QC K1A 0H3 Director
Environmental Monitoring and Evaluation Branch
Environmental Assurance
Alberta Environment
11th Floor, Oxbridge Place
9820-106 Street
Edmonton, Alberta
T5K 2J6

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			Facility I.D	
	Statement of	f Certific	ation	
Reporting company legal name				
Facility name				
Tuomi, namo				
Facility location			4	
City/District/Municipality		Prov	vince/Territory Postal co	9
NPRI ID	AB Approval Number			
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	reviewed the Greenhouse Ga			lue
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Carbon dioxide	Total Totalics	CO ₂	rotal rotines (iii	CO ₂ e
Methane		CH₄		CO ₂ e
Nitrous oxide		N₂O		CO ₂ e
Hydrofluorocarbons (HFC)				CO ₂ e
Perfluorocarbons (PFC)				CO ₂ e
Sulphur hexafluoride		SF ₆		CO ₂ e
Total Emissions				CO ₂ e
Carbon dioxide from	Y			
biomass combustion	-	CO ₂		CO ₂ e
Certifying Official				
	(Certifying Off	ficial), have the autho	ority to bind the reporti	ng company.
Signature of Certifying Official		Date		
First name		Last name		
Position/Title				
Telephone number	(Maximu	um of 5 digits) Fax	number	
	ext.			
E-mail address (e-mail of certif	ying official)			