

Greenhouse Gas Protocol (Dual Reporting) Report for Dawson College

Assessment Period: July 2013 - June 2014

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Assessment Details

Consolidation Approach

Operational Control

Organisational Boundaries

Operations of Dawson College

Included

- Dawson College
- Dawson College

Operational Boundary

- Electricity
- Landfilled waste
- Natural gas
- Off-road vehicles and equipment
- Other fuel(s)
- Recycled waste

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Table of Contents

Introduction	
Data Quality and Availability	
Key Assumptions	
Assessment Summary for Dawson College	
Detailed Results	
Detailed Summary by WBCSD/WRI Scope	
Location-Based methodology	
Market-Based methodology	
Summary by Company Unit	1
Location-Based methodology	1
Market-Based methodology	1
Annual Activity Data	1
References	1

Introduction

A greenhouse gas (GHG) emissions assessment quantifies the total greenhouse gases produced directly and indirectly from a business or organisation's activities. Also known as a carbon footprint, it is an essential tool, providing your business with a basis for understanding and managing its climate change impacts.

A GHG assessment quantifies all seven Kyoto greenhouse gases where applicable and is measured in units of carbon dioxide equivalence, or CO_2e^1 . The seven Kyoto gases are carbon dioxide (CO_2) , methane (CH_4) , nitrous oxide (N_2O) , hydrofluorocarbons (HFCs), nitrogen trifluoride (NF_3) , sulphur hexafluoride (SF_6) and perfluorocarbons (PFCs). The global warming potential (GWP) of each gas is illustrated in the Table 1.

Table 1. GWP of Kyoto Gases (IPCC 2013, without climate-carbon feedback)

Assessment Summary for Dawson College Gross Overall Emissions (location-based): 783 tCO₂e Gross Overall Emissions (market-based): 783 tCO₂e

Key Performance Indicators

Absolute GHG emissions will vary over time and often correspond to the expansion or contraction of an organisation. It is useful therefore to use reporting metrics that take these effects into account and monitor relative GHG emissions intensity. A common emissions intensity metric is tonnes of CO₂e per full time equivalent. This has been calculated, along with other relevant metrics, in the table below:

Data	KPI
10,851 Number of students	0.0722 tCO ₂ e per student (Location-Based)
78,949 Floor area (square metres)	0.00992 tCO ₂ e per square metre (Location-Based)
783 Full Time Equivalent Employees	1 tCO ₂ e per Full Time Equivalent Employee (Location-Based)
10,851 Number of students	0.0722 tCO ₂ e per student (Market-Based)
78,949 Floor area (square metres)	0.00992 tCO ₂ e per square metre (Market-Based)
783 Full Time Equivalent Employees	1 tCO ₂ e per Full Time Equivalent Employee (Market-Based)

Summary by Activity (Location-Based, tCO2e)



Summary by Activity (Market-Based, tCO₂e)



Summary by WBCSD/WRI Scope (Location-Based, tCO2e)

Scope	tCO ₂ e/year	%
Scope 1	479	61.1
Scope 2	24.8	3.16
Scope 3	280	35.8
Total	783	100

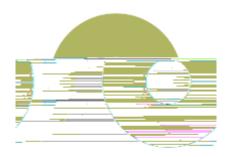
Summary of Scope 2 Market-Based Method for Dawson College

Energy Consumed and Emissions By Factor Type In Scope 2 Market-Based Method

Scope 2 Market-Based Energy

Scope 2 Market-Based Emissions





Emission Factor Type			Market-Based Emissions	
	MWh	%	tCO ₂ e	%

Summary by Company Unit

Location-Based methodology

July 2012 - June 2013 July 2013 - June 2014 Assessment

Total **Company Unit Emissions**

(tCO

Annual Activity Data

Source of Emissions	Value	Unit
Premises		
Electricity		
Electricity consumption	14,282,609	kWh
Landfilled waste		
Waste, landfilled, MSW	186	tonne
Natural gas		
Natural gas consumption (gross CV)	250,938	m3
Off-road vehicles and equipment		
Small utility mobile equipment and off-road vehicles, gasoline	80	I
Other fuel(s)		
Diesel	825	I
Recycled waste		
Waste, recycled	62	tonne

References

EC (2016). National Inventory Report, 1990-2014: Greenhouse Gas Sources and Sinks in Canada. Environment Canada.

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