

A Carbon Neutral Report

for

Canadian Standards Association (CSA) Group
North American Operations – 2006/2007

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1. Summary

CSA completed its first corporate greenhouse gas inventory for the 2006/2007 fiscal year. This inventory covered North American emissions in five primary categories:

1. Employee air travel
2. Energy use in buildings
3. CSA vehicle fleet usage
4. Road travel by auditors and inspectors
5. Direct emissions from testing facilities.

Based on the quantification in the greenhouse gas inventory, CSA has made recommendations for potential directed actions which may help to reduce greenhouse gas emissions in future years. Renewable energy has been purchased in the form of the installation of solar panels on the headquarters of CSA group. Emission reduction offsets have been purchased for the 2006/2007 fiscal year inventory emissions total, in order for CSA to be able to claim carbon neutrality. These actions are detailed further in the sections below.

CSA is committed to continued carbon management. The CSA climate change division considers itself to be an adviser of choice to governments and organisations in the field of climate change mitigation, adaptation and carbon accounting and management. As such, CSA is enthusiastic in its pursuit of attaining carbon neutrality and implementing changes that will reduce overall greenhouse gas emissions. The level of carbon neutrality is linked to the greenhouse gas emissions which are documented in the corporate greenhouse gas inventory. For the 2006/2007 fiscal year, this includes North American operations, in particular employee air travel, CSA fleet vehicle usage, emissions related to energy use in buildings, direct emissions from testing facilities and emissions from road travel by auditors and inspectors, as mentioned above.

This document was compiled by the CSA Climate Change office in Ottawa.

This document covers the reporting period from April 1st 2006 to March 31st 2007. This aligns with the first CSA Greenhouse Gas inventory, which was completed for this time period.

This document has undergone third-party verification by the company GDS and a reasonable level of assurance of the asserted emissions was received. The verification report is available for review.

2. Directed Actions

Whilst no documented directed actions were taken to reduce greenhouse gas emissions during the 2006/2007 fiscal year, CSA has a strong interest in trying to reduce greenhouse gas emissions in future years. The 2006/2007 inventory will be used for comparative purposes in the future, to measure any progress that is made. Amongst directed actions being considered are reducing employee business travel and introducing efforts to make conferences and training sessions less emission intensive. These measures will come into effect for the 2008/2009 inventory period.

3. Renewable Energy Purchases

Whilst no action was taken during the 2006/2007 fiscal year to utilise renewable energy sources, since the results of the first greenhouse gas inventory have been released, CSA Group has made the decision

to invest in roof top solar energy panels for its Rexdale headquarters (a 250,000 sq. ft. building in Toronto, Ontario). A 10 kW system has been installed. There will be capacity to monitor the impact of the use of the solar energy through a web-based high-end monitoring system which will measure and display environmental value (displaced CO₂ emissions, displaced particulate emissions, equivalent cars off the road, equivalent acres of trees planted and equivalent number of homes powered for one year). The system will be fully configured and will be connected to the electricity grid through the Ontario Renewable Energy Standard Offer Program.

4. Projects

CSA purchased emissions reductions from two greenhouse gas projects in order to obtain carbon neutrality status. See section five.

5. Offsets

Whilst CSA is committed to finding ways to reduce greenhouse gas emissions as much as possible, there are some remaining emissions which are unavoidable in the daily operations of the organisation.

CSA has purchased emission reductions from the following projects posted on the publicly available GHG CleanProjects™ Registry to offset these remaining emissions. The listings show that the emission reductions have been: verified by a third-party and the verification report is available for viewing, serialized with unique serial numbers, and have been retired.

The Canadian portion of the greenhouse gas emissions inventory was initially calculated at approximately 5,521 tonnes of CO₂ e. These initially calculated emissions were offset by a Canadian-based recycling project. Details for this project are available below:

Recyc RPM GHG Emission Reductions Recycling Project

Website: http://www.ghgregistries.ca/cleanprojects/masterprojectdetails_e.cfm?pid=761

This project consists of three plants recycling plastic wastes to produce PEHD, PET and other types of plastic. This project is additional to the landfill management alternative.

Serialized VERRs for this Project that have been Retired

9818-8372- 000-000-000-001 to 9818-8372- 000-000-002-000	2006	CSA Group	Recipient	2,000 t CO₂e
9818-8372- 000-000-003-001 to 9818-8372- 000-000-006-521	2006	CSA Group	Recipient	3,521 t CO₂e

The US portion of the greenhouse gas emissions inventory was initially calculated to be 4,758.00 tonnes of CO₂e; however, a total of 5,037 tonnes of CO₂e were purchased in emission reductions in order to offsets the quantity; therefore, 279 tonnes of CO₂e were purchased in excess. Details for this project are available below:

Natural Gas Combined Cycled Power Generation Plant

Website: http://www.ghgregistries.ca/cleanprojects/masterprojectdetails_e.cfm?pid=764.

Serialized VERRs for this Project that have been Retired

7732-0939- 000-000-010-001 to 7732-0939- 000-000-013-199	2007	CSA Group	Recipient	3,199 t CO₂e
7732-0939- 000-000-013-200 to 7732-0939- 000-000-015-037	2007	CSA Group	Recipient	1,838 t CO₂e
7732-0939-000-000-020-631 to 7732-0939-000-000-020-784	2007	CSA Group	Recipient	154 t CO₂e
7732-0939- 000-000-020-785 to 7732-0939- 000-000-020-825	2007	CSA Group	Recipient	41 t CO₂e

Recalculation due to methodological changes indicated that additional emissions were present, in a quantity of 154 tonnes of CO₂e for Canadian-based emissions, and 319.3 tonnes of CO₂e for US-based emissions, leading to an additional amount of 473.3 tonnes of CO₂e. Using the excess amount purchased (279 tonnes of CO₂e) to offset part of these emissions, the additional new amount required to maintain a carbon neutral status is 194.3 tonnes of CO₂e. This additional amount was purchased from the US project mentioned above (Natural Gas Combined Cycled Power Generation Plant).

This is the CSA Group North America's first corporate inventory. During 2007/2008 there were different actions undertaken in the effort to further account for the emissions related to operations and reduce emissions:

- CSA Rexdale, Toronto, Ontario, Canada: purchase and installation of solar panels to produce part of the facilities electricity; see section three.
- CSA Spectrum, Mississauga, Ontario, Canada: Pilot project on introducing carbon neutral committee meetings. CSA Spectrum's portion of the CSA Group Inventory for the 2006/2007 year was 846 t CO₂e related to the Employee travel (air), Building and Fleet vehicles. The commitment to add the emissions related to the member travel for Spectrum to the Spectrum GHG inventory has already been established for the 2007/2008 fiscal year. A preliminary estimate of 6,000 t CO₂e was calculated.

6. Carbon footprint table for carbon neutral reporting

Carbon Footprint (tonnes of CO ₂ e)							
	CO ₂	CH ₄ (t CO ₂ e)	N ₂ O (t CO ₂ e)	HFC (t CO ₂ e)	PFC (t CO ₂ e)	SF ₆ (t CO ₂ e)	Total (t CO ₂ e)
Direct GHG emissions by gas	2,658.88	9.36	0.10	N/A	0	0	2,886.17
Energy Indirect Emissions by gas	215.98	0.0042	0.004	N/A	0	0	4,300.12
Other Indirect Emissions by gas	3,458.58	0.11	0.34	N/A	0	0	3,565.98
CO₂ from biomass combustion	0	0	0	N/A	0	0	0

Total Emissions	6,333.44	9.47	0.44	N/A	0	0	10,752.27
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