

A Carbon Neutral Report

For Canadian Standards Association (CSA) Global Operations
2008/2009

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1. Summary

CSA Group 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 amount of carbon offsets purchased and documented in this report correspond to the total greenhouse gas emissions reported for the 2008/2009 fiscal year, as quantified in the corporate greenhouse gas inventory. The emissions in this inventory have been calculated for the reporting period from April 1st 2008 to March 31st 2009, and covered global emissions in the following categories:

1. Natural gas consumption for space heating
2. Electricity consumption
3. Employee business travel in personal vehicles
4. Employee business travel by air
5. Fleet Vehicles
6. Emissions resulting from testing gases

Based on the quantification in the greenhouse gas inventory, CSA Group has:

- Made recommendations for potential directed actions which may help to reduce greenhouse gas emissions in future years.
- Invested in renewable energy through the installation of solar panels on the headquarters of CSA group.
- Purchased emission reduction offsets for the 2008/2009 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.

This report was compiled at the CSA Group office in Toronto, and has undergone third-party verification with a reasonable level of assurance by Ecometrica.

2. Carbon footprint table for carbon neutral reporting

Carbon Footprint (tonnes of CO ₂ e)							
(Note: CSA does not perform biomass combustion at any of its facilities)							
	CO ₂	CH ₄	N ₂ O	HFC	PFC	SF ₆	Total
Direct GHG Emissions	1949.72	424.72	15.61	N/A	N/A	N/A	2390.05
Energy Indirect Emissions	4551.70	1.88	23.34	N/A	N/A	N/A	4576.92
Other Indirect Emissions	4860.92			N/A	N/A	N/A	4860.92
Total Emissions	N/A	N/A	N/A	N/A	N/A	N/A	11,827.89

3. Directed Actions

Whilst no documented directed actions were taken to reduce greenhouse gas emissions during the 2008/2009 fiscal year, CSA has a strong interest in reducing its greenhouse gas emissions in future years.

The 2008/2009 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 2009/2010 inventory period.

Some current environmental initiatives include:

- The Spectrum Way facility's Environmental Committee has encouraged Project Managers to allow members to participate in meetings through Webex, thus reducing the emissions resulting from travel.
- CSA has also demonstrated its commitment to the environment by purchasing offsets to ensure carbon neutrality for the 2008 Annual Conference's delegate travel.

For the fiscal year 2008/2009, the following actions have been undertaken to reduce CSA's greenhouse gas emissions:

- CSA is offering a \$1000 rebate to qualifying employees who purchase a hybrid vehicle, beginning April 1, 2008. By encouraging employees to purchase less emissions-intensive vehicles, CSA is helping to reduce the greenhouse gas emissions due to employee commuting. Although this is currently not quantified in CSA's GHG inventory, there are future plans to track and document these emissions and any subsequent reductions.
- The CSA Health & Fitness policy will reimburse employees up to \$300 for the purchase of fitness equipment, including a bike. This bike may be used in place of a gasoline-powered vehicle, and some managers have unofficially encouraged biking to work rather than driving
- For future conferences CSA is also considering carbon neutrality and the use of green conference venues.
- The Spectrum Way facility has set a goal to avoid 20% of travel for meetings during the fiscal year 2008/2009.

4. Renewable Energy Purchases

Energy Type:	Solar Energy
Specifications:	10 kW roof-top solar energy panel system
Location:	Rexdale headquarters in Toronto, Ontario
Data Collection:	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 CO ₂ 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. The reduction in emissions attributable to the use of the solar panels during the 2008/2009 fiscal year has been quantified to be 1613.81kg CO₂e.

Energy Type: Windmill
Specifications: Installed in 2006
Location: Rexdale headquarters in Toronto, Ontario
Data Collection: The windmill contains a meter that tracks the cumulative electricity generated since its installation. The overall electricity disrupted by this windmill has been incorporated into the electricity grid, and is thus automatically reflected through the invoices of this facility. The reduction in emissions attributable to the use of the windmill during the 2008/2009 fiscal year has been quantified to be 200.35 kg CO₂e.

5. Projects

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

6. Offsets

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 final total in the greenhouse gas emissions inventory for global operations was estimated at approximately 11,829 tonnes of CO₂e. Offsets of 11,829 tonnes of CO₂e have been purchased to offset these emissions. The emissions were offset by purchasing 5914 tonnes of CO₂e reduction credits from a Canadian project, and 5915 tonnes of CO₂e from a US-based project. This decision was based on the fact that a larger portion of CSA Group's operations are concentrated in North America.

US-Based Project:

Name: JB Hunt's Intermodal Transport Project
Project Type: Transportation Efficiency
Location: United States
Registry: Clean Projects
Website: http://www.ghgregistries.ca/cleanprojects/masterprojectdetails_e.cfm?pid=938
Project Description: JBI, the new intermodal business segment within J.B. Hunt made a financial investment to improve the efficiency of transportation of goods. The change in the employed transportation method from highway to intermodal resulted in a significant decrease of emissions. Reductions were quantified based on the difference in

fuel efficiency for the distance travelled by each form of transportation.

Total Purchased: 5915 tonnes of CO₂e
Serialized VERRs: 1840-6051-000-000-000-001 to 1840-6051-000-000-005-915
Vintage Year: 2008

Canadian Project:

Name: Heffley Creek Biomass Gasification Project
Project Type: Replacement of Fossil Fuels by Biomass
Location: British Columbia
Registry: Clean Projects
Website: http://www.ghgregistries.ca/cleanprojects/masterprojectdetails_e.cfm?pid=922
Project Description: A gasification system has been employed to convert approximately 13,000 bone dry tonnes per year of wood residues into renewable syngas, which is used to the natural gas used at a mill.

Total Purchased: 5914 tonnes of CO₂e
Serialized VERRs: 3048-9943-000-000-015-642 to 3048-9943-000-000-021-555
Vintage Year: 2008

Therefore, CSA has purchased 11,829 tCO₂e from the vintage year 2008 to offset the greenhouse gas emissions quantified in the 2008/2009 inventory and maintain a carbon neutral status.