

# A Carbon Neutral Report

For Canadian Standards Association (CSA) Global Operations  
2007/2008

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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 2007/2008 fiscal year, as quantified in the corporate greenhouse gas inventory. The emissions in this inventory have been calculated for the reporting period from April 1<sup>st</sup> 2007 to March 31<sup>st</sup> 2008, and covered global emissions in the following 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 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 2007/2008 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 the company GDTs.

## 2. Carbon footprint table for carbon neutral reporting

Carbon Footprint (tonnes of CO <sub>2</sub> e)							
(Note: CSA does not perform biomass combustion at any of its facilities)							
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFC	PFC	SF <sub>6</sub>	Total
Direct GHG Emissions	2,765.36	1.16	35.86	n/a	n/a	n/a	2,802.38
Energy Indirect Emissions	3,980.36	1.06	16.5	n/a	n/a	n/a	3,997.92
Other Indirect Emissions	n/a	n/a	n/a	n/a	n/a	n/a	4,303.50
Total Emissions	n/a	n/a	n/a	n/a	n/a	n/a	11,103.80

### 3. Directed Actions

Whilst no documented directed actions were taken to reduce greenhouse gas emissions during the 2007/2008 fiscal year, CSA has a strong interest in reducing its greenhouse gas emissions in future years.

The 2007/2008 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.

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 2007 Annual Conference's delegate travel.

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

- CSA is offering a \$1000 rebate for 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
- The 2008 Annual Conference is to be carbon neutral for delegate travel, as well as future Annual Conferences. 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

<b>Energy Type:</b>	Solar Energy
<b>Specifications:</b>	10 kW roof-top solar energy panel system
<b>Location:</b>	Rexdale headquarters in Toronto, Ontario
<b>Data Collection:</b>	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 <sub>2</sub> 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.

<b>Energy Type:</b>	Windmill
<b>Specifications:</b>	Installed in 2006
<b>Location:</b>	Rexdale headquarters in Toronto, Ontario
<b>Data Collection:</b>	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 2007/2008 fiscal year has been estimated to be 25.26 kg CO <sub>2</sub> e.

## 5. Projects

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

## 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 11,103.30 tonnes of CO<sub>2</sub>e. Offsets of 11,104 tonnes of CO<sub>2</sub>e have been purchased to offset these emissions. The emissions were offset by purchasing 5,552 tonnes of CO<sub>2</sub>e reduction credits from a Canadian project, and 5,552 tonnes of CO<sub>2</sub>e 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.

Canadian Project:

**Name:** Minas Basin  
**Project Type:** Energy Efficiency  
**Location:** Nova Scotia, Canada  
**Website:** [http://www.ghgregistries.ca/cleanprojects/masterprojectdetails\\_e.cfm?pid=823](http://www.ghgregistries.ca/cleanprojects/masterprojectdetails_e.cfm?pid=823)  
**Project Description:** This project consists in quantifying greenhouse gas emissions attributed to the enhancement of the speed and the drying capacity of the Paper Machine.

**Serialized VERRs for this Project that have been Retired**

2690-5813-000-000-000-101 to 2690-5813-000-000-005-652	2007	CSA Group	Recipient	5,552
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US-Based Project:

**Name:** Natural Gas Combined Cycled Power Generation Plant  
**Project Type:** Electricity Generation  
**Location:** West Texas, United States  
**Website:** [http://www.ghgregistries.ca/cleanprojects/masterprojectdetails\\_e.cfm?pid=764](http://www.ghgregistries.ca/cleanprojects/masterprojectdetails_e.cfm?pid=764)  
**Project Description:** The construction of the natural gas combined cycle power generation plant replaces significant consumption of grid-based electricity in the state of Texas, where the power generation sector is heavily coal-based.

**Serialized VERRs for this Project that have been Retired**

7732-0939-000-000-015-038 to 7732-0939-000-000-020-589	2007	CSA Group	Recipient	5,552
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In conclusion, CSA has purchased 11,104 tCO<sub>2</sub>e to offset the greenhouse gas emissions quantified in the 2007/2008 inventory and maintain a carbon neutral status.