



Carbon Neutral Action Report 2012

School District No. 51 (Boundary)

Executive Summary

School District No. 51 (Boundary) believes in the importance of Education and that incorporating respect for the environment and ourselves is imperative for a quality life today and in the future. As such, the "Board of Education believes that the maintenance of our environment is necessary to the quality of our lives. Further, it believes that the District and its schools have the responsibility of fostering and reinforcing positive environmental concepts, that will enhance the relationship between living things and their natural and built surroundings. The introduction of these concepts must begin early in the life of each child in order to develop a responsible environment ethic which will be sustained throughout life."



Once again our District continued to reduce its greenhouse gas emissions in 2012. As a District we continued to strive to be an integral part of the solution to the ongoing concerns that face our environment. Along with added stress of aging facilities and financial constrictions, these changes often take place more slowly than we would like. Efforts continued to be made to conserve energy and natural resources while pursuing sound financial management. In 2012 we put into place plans to upgrade our fleet as well as continue to proceed with energy audits on our existing facilities as we strive to become more energy efficient. We also continue to partner with our community through a shared fibre network. This project is ongoing and continued to be a focus in 2012.

The District endeavoured to work with community and government agencies in supporting good environmental practices. We continued to move forward towards implementing policies and programs within our schools that encouraged healthy living and participation in the restoration and protection of the environment. Schools partnered with their communities to foster a respect for the environment and to provide and instruct on healthy alternatives. The District encourages consideration of environmental impact in the planning of all operational and educational programs.

A handwritten signature in blue ink that reads "Jeanette Hanlon".

Jeanette Hanlon, Secretary-Treasurer



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2012 Greenhouse Gas Emissions

2012 Greenhouse Gas Emissions

In 2012 our total offsets were 1,082. It was estimated that stationary fugitive emissions from cooling do not comprise more than 0.01% of School District No. 51's total emissions and an ongoing effort to collect or estimate emissions from this source would be disproportionately onerous. Therefore, emissions from this source have been deemed out of scope and have not been included in the total greenhouse gas emissions profile.

Offsets Applied to Become Carbon Neutral in 2012

Total emission offsets have been applied to become carbon neutral for 2012. Offsets purchased were 855 tonnes with a total offset investment of \$21,375.00(+GST). As required by section 5 of the Carbon Neutral Government Regulation, 226 tonnes CO₂e of emissions resulting from the operation of school buses were reported as part of our greenhouse gas emissions profile in 2012. However, they were not offset as they are out- of-scope under section 4(2)(c) of the Carbon Neutral *Government Regulation*.



Bulletin Board at
Boundary Central Secondary School



I walk to Breakfast
Dr. D. A. Perley



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Actions to Reduce Provincial Emissions and Improve Sustainability

It often seems that the steps we take are small, but the cumulative impact on the environment and on our education system makes an impact on our environment and in our communities. As such I have listed some of the actions that we have taken in the 2012 year:

- Purchased one new bus to replace an older and smaller bus
- Performed regular maintenance every 5000 kms on small maintenance vehicles as well as performed regular bus maintenance
- Car pooled to events as well as attended conferences via skype andlluminate
- Checked and balanced dampers in West Boundary and Perley Elementary School buildings
- Recorded refrigerant use, continued maintenance repair of mechanical systems
- Upgrade of automated HVAC control system at Greenwood Elementary
- Comprehensive cleaning of all air handling units district wide
- Changed some of the exit doors to reduce heat loss
- Began changing to water sensors in some washrooms
- Continued to replace cleaning products with enviro-friendly alternatives.
- More server consolidation and regular computer maintenance
- Deployed new computer labs at Midway Elementary with faster more efficient computers and replaced iMacs at Big White community school with more efficient models.
- Continue to replace existing light switches with sensor/timer switches.
- Solar lighting installed in new shed at Grand Forks Secondary School
- Increased 1% in the purchase of 30% recyclable paper
- 9/11 schools have active Green Teams
- Continued recycling programs in all schools
- Sustainable Resources 12 curriculum implemented at Boundary Central Secondary School. They built a greenhouse and planted, and cared for plants and oversaw the transplanting of seedlings into the community garden
- All schools continued to incorporate environmental curriculum such as Streams for Dreams. Several schools partnered with the community in the community garden, participated in Earth Day, learned about alternate energy sources by building solar ovens as well as having guest speakers on issues such as weed control and management
- Several schools took part in an iwalk to school event





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School District No. 51 (Boundary)

Plans to Continuing Reducing Greenhouse Gas Emissions 2013-2014

- Purchase 4 new buses and a 2013 GMC Silverado 3/4 ton
- Continue to work on an active transportation initiative/policy
- Energy audit on John A. Hutton Elementary school which will dictate further actions to be taken
- Install automated logic HVAC controls and upgrade the existing system at Grand Forks Secondary School, as well as install electronic control damper actuators and valves
- Install and upgrade bathroom water sensors at West Boundary Elementary School
- Replaced roof top gas fire units at Midway Elementary with hybrid heat pump units
- Will continue to replace exit doors to improve efficiencies
- SDS server system will be virtualized in 2013.
- Investigation of use of thin client technology
- Implementation of on-line leave forms
- Continue to reduce amount of paper used as well as increase amount of recycled paper purchased
- Encourage 100% of the schools in our District to have a green team
- Encourage ways to measure success of recycling efforts
- Encourage involvement of the PACs
- Purchasing "green bins" for the compostable waste at each of our schools
- Weather station will be mounted at Dr. D.A. Perley Elementary
- Incorporate green awareness week in school pro-d
- Partner with the community and expand use of raised beds in community gardens.
- Develop the green spaces and development of a nature walk with indigenous plants at Boundary Central Secondary
- Still under development is a policy to change the pick up and drop off of students to a location that would encourage increased activity. Bus routes are still being assessed as some stops are in the stated acceptable walking distance from the schools.



School District 51 Boundary - 2012 Carbon Neutral Action Report

Actions Towards Carbon Neutrality					
The actions listed below contribute to a reduction in greenhouse gas emissions from sources for which public sector organizations are responsible under the carbon neutral government regulation of the Greenhouse Gas Reduction Targets Act.					
Action	Status	Steps Taken	Steps Planned	Start Year	End Year
Mobile Fuel Combustion (Fleet and other)					
Behaviour change program					
Provide fleet driver training to reduce fuel use	Ongoing/In Progress	No scheduled training in 2012.	Will plan for further training in 2013.	2008	No End Date (Continuous)
Introduce anti-idling policy and/or raise anti-idling awareness for fleet drivers (e.g., signs, stickers, messages)	Completed (in Previous Year)				No End Date (Continuous)
Encourage carpooling in fleet vehicles	Ongoing/In Progress	Employees car pooled to educational and professional deveopment events, and maintenance personnel coordinated work orders to cut down on travel. Used buses to transport students to events.	Continue to promote awareness and options in regards to scheduling. Continue to develop and provide incentives for car pooling to district sponsored professional development initiatives.	2009	No End Date (Continuous)
Promote alternatives to fleet vehicle travel where possible (e.g., bicycles, public transit, walking)	In Development	Health Promoting Schools Coordinator continued working on a Walk to School/Active Transportation initiative for students, as well as a Walk to School month. Several schools took part in an iWalk school initiative. Elementary students in Grand Forks walk to the arena, pool and events at the high school. Hutton Elementary students when attending these events walk a total of 3.0 km to the high school and back. 80% of the staff and students at Big White Community school and Walker Development Centre walk, bike or ski to school. All schools continue to encourage and teach students to have an active lifestyle.	Health Promoting Schools Coordinator will continue working on the Walk to School/Active Transportation initiatives for students. Families encouraged to be active during Spring Break by spending more time playing and exploring outdoors with family through activity logs and a Treasure Hunt sponsored by the city. This was promoted on the District website as well as in the newspapers.	2009	No End Date (Continuous)
Vehicle fuel efficiency					
Replace vehicles with more fuel-efficient models	Ongoing/In Progress	Evaluating existing fleet.	Purchase 4 new buses as well as a 2013 GMC Silverado 3/4 ton.	2012	No End Date (Continuous)
Replace larger vehicles with smaller models according to fleet "right-sizing" principles	Ongoing/In Progress	Purchased one new bus to replace older and smaller bus, therefore also reducing our emissions. Put together plans to purchase 4 more buses in 2013.	Purchase 4 new buses which will also replace smaller, older ones that have higher emissions.	2012	No End Date (Continuous)
Perform regular fleet maintenance to improve fuel-efficiency	Ongoing/In Progress	Regular maintenance performed every 5000 kms on small maintenance vehicles. Bus maintenance performed monthly.	Continued regular maintenance.	2008	No End Date (Continuous)
Stationary Fuel Combustion, Electricity					
Behaviour change program					
Help staff reduce personal energy use through ""workstation tune-ups""	Not Yet Evaluated				No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Ongoing/In Progress	Staff are encouraged to do this during periods of time when the schools are closed.	No new steps planned.	2012	No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Ongoing/In Progress	Staff are encouraged to do this during periods of time when the schools are closed.	No new steps planned.	2012	No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	Ongoing/In Progress	Staff are encouraged to close blinds during periods of time when the schools are closed. Hutton Elementary School has reflective opaque covers on some of their south facing classroom windows.	Order blinds for Greenwood and Midway Elementary schools.	2012	No End Date (Continuous)
Encourage staff to use air dry setting on dishwashers	Not Yet Evaluated				No End Date (Continuous)
Provide tips to staff on saving energy in the office while working outside	Not Yet				No End Date

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
of regular business hours	Evaluated				(Continuous)
Provide reminders for turning off lights (e.g., signs, stickers, messages)	Ongoing/In Progress	Continued replacing existing light switches with sensor/timer switches. Solar lighting installed in new shed at Grand Forks Secondary School. Schools without sensors/timers provide reminders for turning off lights. Several schools encourage staff to shut blinds during periods when schools are closed and/or during the day to regulate temperature.	Will continue to replace as needed.	2009	No End Date (Continuous)
Promote hot water conservation	In Development	Continue to assess and evaluate the cost savings of the Boundary Central Secondary School solar panels.	Make plans for future upgrades depending on outcomes from Boundary Central Secondary.	2010	No End Date (Continuous)
IT power management					
Install power management software which shuts down computers outside of regular business hours	Completed (in Previous Year)				No End Date (Continuous)
Implement server virtualization	Ongoing/In Progress	Did more server consolidation. Still under investigation and in the planning process.	Still under investigation and in the planning process. SDS server system will be virtualized in 2013.	2010	No End Date (Continuous)
Apply auto-sleep settings on computer monitors and CPUs	Ongoing/In Progress	Ongoing as required and available funds.	Ongoing steps taken, including virtual desktop implementation. Investigation of use of thin client technology.	2010	No End Date (Continuous)
Remove stand-alone printers, copiers, and/or fax machines and install multi-function devices as part of a print management strategy	Ongoing/In Progress	None taken in 2012	Ongoing replacement as needed.	2009	No End Date (Continuous)
Apply auto-sleep settings on printers, fax machines, and/or multi-function devices	Completed (in Previous Year)				No End Date (Continuous)
Replace computers with ENERGY STAR models during regular computer upgrades	Ongoing/In Progress	Regular computer maintenance. Deployed new computer labs at Midway Elementary with faster and more efficient computers. Replaced iMACS at Big White Community School with more efficient models.	Ongoing as budget permits.	2010	No End Date (Continuous)
Leased buildings					
Establish energy performance baseline for leased buildings	In Development	No steps taken in 2012.	No plans as of yet.	2010	No End Date (Continuous)
Develop a green lease policy that requires green features to conserve energy be included in all lease negotiations	Not Yet Evaluated				No End Date (Continuous)
Owned buildings					
Establish energy performance baseline for owned buildings	In Development	Checked and balanced dampers in West Boundary Elementary and Perley Elementary Schools.	Doing an energy audit on John A. Hutton Elementary school	2010	No End Date (Continuous)
Register for performance labelling/certification for operations and maintenance of owned buildings (e.g., LEED EB:O&M)	Not Yet Evaluated				No End Date (Continuous)
Register for performance labelling/certification for commercial interiors of owned buildings (e.g., LEED CI)	Not Yet Evaluated				No End Date (Continuous)
Perform energy retrofits on existing, owned buildings	In Development	No steps in taken in 2012	Energy audit will indicate what steps need to be taken in 2013.	2012	No End Date (Continuous)
Incorporate a refrigerant management strategy into regular building management/maintenance to reduce fugitive emissions	Ongoing/In Progress	Recording the refrigerant use, continued maintenance and repair of mechanical systems.	Ongoing	2008	No End Date (Continuous)

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Actions Towards Carbon Neutrality					
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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
Planning/management					
Reduce office space (square meters) per employee	Not Yet Evaluated				No End Date (Continuous)
Install a real time metering system (e.g. Pulse, Reliable Controls, Houle Controls)	Not Yet Evaluated				No End Date (Continuous)
Retrofit details for owned buildings					
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress	Upgraded automated HVAC control system at Greenwood Elementary School.	Retrofit as budget allows. Install automated HVAC logic controls and upgrade the existing system at Grand Forks Secondary School. Install electronic control damper actuators and valves at GFSS. Install and upgrade sensors at West Boundary Elementary School.	2010	No End Date (Continuous)
Upgrade lighting systems during retrofits	Ongoing/In Progress	No steps taken in 2012.	Retrofit as budget allows.	2008	No End Date (Continuous)
Upgrade/adjust control systems during retrofits	Ongoing/In Progress	Comprehensive cleaning of all air handling units district wide. Installing new exist doors as budget allows.	Energy audit will indicate what steps need to be taken. Replace roof top gas fire units at Midway Elementary with hybrid heat pump units. Will continue to install new exit doors in our facilities.	2009	No End Date (Continuous)
Improve building insulation (including windows) during retrofits	In Development	No steps taken in 2012.	Energy audit will indicate what steps need to be taken.	2013	No End Date (Continuous)
Supplies (Paper)					
Behaviour change program					
Train staff to use collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	Ongoing/In Progress	Continued to train new staff and offer support to existing staff.	Will continue to train new staff. Will be implementing on-line leave of absence forms to be filled out, approved and returned.	2009	No End Date (Continuous)
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress	Continued to train new staff and offer support to existing staff to regularly hold paperless meetings. School staff as well as district staff and the Board of Education hold paperless meetings.	To continue to train new staff and offer support to existing staff.	2008	No End Date (Continuous)
Electronic media in place of paper					
Install collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	Completed (in Previous Year)				No End Date (Continuous)
Use electronic document library for filing common documents	In Development	Investigated purchase of hardware required for electronic document storage.	Continue to investigate the feasibility of purchasing electronic document storage for the district.	2008	No End Date (Continuous)
Switch to an electronic payroll notification system in place of paper pay stubs	Completed (in Previous Year)				No End Date (Continuous)
Paper Type					
Purchase 30% post-consumer recycled paper	Ongoing/In Progress	Increased 1% in the purchase of 30% recyclable paper.	Continue to reduce paper use and encourage purchase of recycled paper.	2009	No End Date (Continuous)
Purchase 100% post-consumer recycled paper	Not Yet Evaluated				No End Date (Continuous)
Printer/document settings					
Switch networked printers and photocopiers to automatic double-sided	Ongoing/In Progress	No new steps taken in 2012	Do an analysis to evaluate the steps needed to replace existing district copiers and printers throughout district with more efficient models.	2008	No End Date (Continuous)

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Actions to Reduce Provincial Emissions and Improve Sustainability					
The actions listed below contribute to a reduction in greenhouse gas emissions from sources that fall outside of the reporting requirements defined in the carbon neutral government regulation of the Greenhouse Gas Reduction Targets Act. Public sector					
Action	Status	Steps Taken	Steps Planned	Start Year	End Year
Business Travel					
Behaviour change program					
Train staff in web-conferencing	Ongoing/In Progress	No new staff trained in 2012.	Train staff as needed.	2009	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress	Administrative staff and Board of Education participated in more virtual meetings rather than travel throughout the year.	Continue to implement this technology as more meetings are implemented virtually.	2009	No End Date (Continuous)
Encourage carpooling to meetings	Ongoing/In Progress	Continue to provide car pooling incentives and bus travel when large attendance is required.	As needed.	2008	No End Date (Continuous)
Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)	Ongoing/In Progress	Health Promoting School Coordinator continued to work on a Walk to School/Active Transportation initiative for students, and a "Walk to School" month. She provided education and incentives to encourage an active lifestyle. Big White Community school encourages walking or skiing to school.	Continue to work on the Walk to School/Active Transportation initiative and the "Walk to School" month initiative.	2009	No End Date (Continuous)
Policy and budgeting					
Create a low-carbon travel policy or travel reduction goal	Not Yet Evaluated				No End Date (Continuous)
Virtual meeting technology					
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Ongoing/In Progress	No new steps taken in 2012.	Continue to upgrade systems as funds available and as needed.	2008	No End Date (Continuous)
Make desktop web-cameras available to staff	Ongoing/In Progress	No new steps taken in 2012.	Continue to investigate new ways of implementing this	2009	No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	In Development	No new steps taken in 2012.	Investigating web conferencing hardware.	2009	No End Date (Continuous)
Education, Awareness, and Engagement					
Awards/Recognition					
Establish a sustainability/green awards or recognition program	Ongoing/In Progress	Boundary Central Secondary used recycling strategies and milestones to gain points for their in house games; several other schools recognize the green efforts of individual students or house teams at assemblies.	Continue to encourage our schools and communities to recognize the efforts of students to value their environment. An Education Assistant at Greenwood Elementary is looking into the feasibility of purchasing "green bins" that are then picked up by the city and used at each school for compost materials.	2009	No End Date (Continuous)
Staff Professional Development					
Support green professional development (e.g., workshops, conferences, training)	Ongoing/In Progress	No new steps taken in 2012.	Incorporate school based pro-d events through guest speakers, and partnering with the communities.	2011	No End Date (Continuous)
Staff awareness/education					
Provide education to staff about the science of climate change	Ongoing/In Progress	Nothing new incorporated. Continued to incorporate green initiatives and education into the curriculum.	A weather station will be mounted at Dr. D. A. Perley Elementary School. Several schools are developing plans for a green awareness week.	2009	No End Date (Continuous)
Provide education to staff about the conservation of water, energy, and raw materials	Ongoing/In Progress	New Sustainable Resources 12 class initiated along with the construction of a small greenhouse and the planting, care of plants	Continue to incorporate green initiatives and education into the curriculum. Encourage even more staff involvement. More fun	2009	No End Date (Continuous)

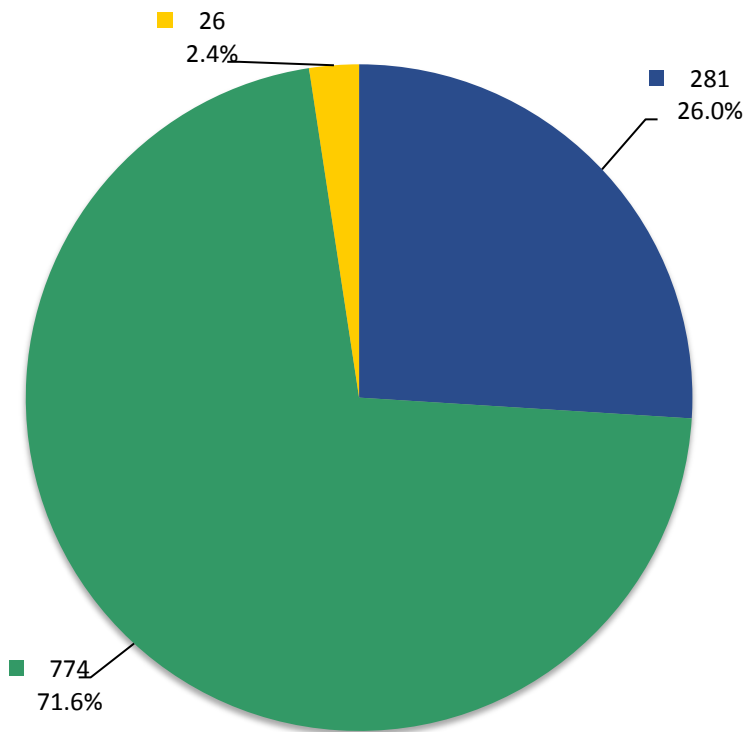
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Actions to Reduce Provincial Emissions and Improve Sustainability					
The actions listed below contribute to a reduction in greenhouse gas emissions from sources that fall outside of the reporting requirements defined in the carbon neutral government regulation of the Greenhouse Gas Reduction Targets Act. Public sector					
Action	Status	Steps Taken	Steps Planned	Start Year	End Year
		and transplanting of the seedlings to the Community Garden. Later the plants were harvested. Several other schools were also involved in community gardens, treeplanting, local food sharing groups, river reclamation/conservation projects. All schools continued to run recycling and compost programs. West Boundary Elementary learned about alternative energy sources by building solar ovens. Use of Streams for Dreams curriculum, participation in Earth Day and guest speakers on various environmental issues such as weed management were also some of the other school initiatives.	green events planned for students. Several elementary schools hope to partner with the community and expand use of raised beds in community gardens. They would like to encourage staff to make environmental education an every day practice in classroom. They would like to see the use of school composted material in the greenhouses. Other schools want to incorporate bagless lunches, as well as researching and building solar ovens. Looking at possibly developing more green spaces at schools. Boundary Central is hoping to purchase a large composter, as well as the development of a nature walk with indigenous plants.		
Provide green tips on staff website or in newsletters	Ongoing/In Progress	Communcation of green initiatives being undertaken in many of the schools through community presentations, newsletters, and local newspaper. At Boundary Central Secondary they try to incorporate a "green" joke with their announcements as well as maintaining an awareness bulletin board.	Incorporating student artwork by designing green awareness banners.	2008	No End Date (Continuous)
Provide sustainability education during new staff orientation	Not Yet Evaluated				No End Date (Continuous)
Team-building					
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	Ongoing/In Progress	9 of our 11 schools have an active staff and/or staff-student green teams.	100% of our schools to have active green teams.	2009	No End Date (Continuous)
Provide resources and/or dedicated staff to support teams	Ongoing/In Progress	Teachers and students work side by side to develop and implement green initiatives. Many schools utilize community expertise to provide support and education through community gardeners, local plant and weed experts.	Continue to encourage staff/student collaboration as well as recognition of students' efforts.	2009	No End Date (Continuous)
Providing behaviour change education/training to teams (e.g., community-based social marketing)	Ongoing/In Progress	All the schools are continuing with recycling programs and initiatives. Boundary Central Secondary School continues to provide the Sustainable Resources 12 curriculum and other schools are dedicating staff to further these initiatives. There is use of Project Wild curriculum, participation in Earth Day, use of germination tables, as well as garbage audits. West Boundary Elementary teamed with their community to raise awareness about the conservation of the Kettle River.	Continue as in 2012. Encourage ways to measure success of recycling efforts. Encourage involvement of more PACs in recycling and green initiatives.	2009	No End Date (Continuous)
Other Sustainability Actions					
Adaptation to Climate Change					
Assessed whether extreme weather events and/or long term changes in climate will affect the organization's business areas	Not Yet Evaluated				No End Date (Continuous)
Integrated considerations of extreme weather events and/or long term changes in climate into the organization's decision making.	Not Yet Evaluated				No End Date (Continuous)
Building construction, renovation					
Establish a policy to reuse materials where possible and divert construction and demolition debris from landfills and incineration facilities	Not Yet Evaluated				No End Date (Continuous)
Incorporate lifecycle costing into new construction or renovations	Not Yet				No End Date

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
	Evaluated				(Continuous)
Commuting to and from home					
Offer staff a compressed work week	Completed (in Previous Year)				No End Date (Continuous)
Encourage commuting by foot, bicycle, carpool or public transit	Ongoing/In Progress	No new actions taken.	Still under development is a policy to change the pick up and drop off of students to a location that would encourage increased activity. Bus routes are still being assessed as some stops are in the stated acceptable walking distance from the schools.	2010	No End Date (Continuous)
Provide secure bicycle storage	Completed (in Previous Year)				No End Date (Continuous)
Procurement (non-paper supplies)					
Incorporate minimum recycled content standards into procurement policy for consumable, non-paper supplies (e.g., writing instruments, binders, toner cartridges, etc.)	Not Yet Evaluated				No End Date (Continuous)
Establish green standards for goods that are replaced infrequently and/or may require capital funds to purchase (e.g., office furniture, carpeting, etc.)	Not Yet Evaluated				No End Date (Continuous)
Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags	Ongoing/In Progress	Continued replacing products with enviro-friendly alternatives where applicable.	Continue to replace with enviro-friendly products	2008	No End Date (Continuous)
Waste reduction/diversion					
Put in place an operations policy to facilitate the reduction and diversion of building occupant waste from landfills or incineration facilities	Ongoing/In Progress	Continue to support policy No. 3037 "The Environment" which encourages environmental purchasing practices, waste management, education and management.	Continue to raise awareness and maintenance of the recycle programs and our responsibility to our environment.	2008	No End Date (Continuous)
Implement a hazardous waste reduction and disposal strategy	Ongoing/In Progress	Continue to recycle used engine oil and batteries. No chemicals removed in 2012. All electronic equipment no longer being used is taken to the recycle depot.	Continue to monitor and implement safe disposal.	2008	No End Date (Continuous)
Water conservation					
Establish a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models	Ongoing/In Progress	No new steps taken	Ongoing	2009	No End Date (Continuous)
Put in place a potable water management strategy to reduce potable water demand of building-level uses such as cooling tower equipment, toilet fixtures, etc. and landscape features	Ongoing/In Progress	Changing to water sensor activation in washrooms.	Ongoing	2009	No End Date (Continuous)

**School District 51 - Boundary
Greenhouse Gas Emissions by Source
for the 2012 Calendar Year (tCO₂e*)**



Total Emissions: 1,082

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)

Offsets Applied to Become Carbon Neutral in 2012 (Generated May 31, 2013 10:11 AM)

Total offsets required: **855**. Total offset investment: **\$21,375**. Emissions which do not require offsets: **226** **

*Tonnes of carbon dioxide equivalent (tCO₂e) is a standard unit of measure in which all types of greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

** Under the *Carbon Neutral Government Regulation of the Greenhouse Gas Reduction Targets Act*, all emissions from the sources listed above must be reported. As outlined in the regulation, some emissions do not require offsets.