

School District No 75 (Mission) 2012 Carbon Neutral Action Report

April 12, 2013

Executive Summary

The average temperatures during the 2012 calendar were part of the reason for a decrease in the School District's stationary carbon fuel consumption. While the school district buildings have continued to experience increased levels of community use outside of traditional instructional hours thus adding to the amount of time required to operate heating and air handling systems, the district has undergone a restricting resulting in an overall reduction in the number of facilities and rooms in use.

The retirement and loss of several members of the senior administrative team reduced the time that was spent on developing new initiatives in this area. There is no longer a dedicated Energy Manager funded by BC Hydro and shared under the joint initiative with the municipality of Mission. The loss of these positions and a budget deficit had a significant impact on the ability of the district to continue with initiatives that had been taking place in the areas of waste reduction/recycling, water conservation and cultural change.

Some of the initiatives did continue including a system wide switch to T8 fluorescent bulbs at the 25watt level in a majority of system buildings. Other projects that continued included the installation of room occupancy sensors at more sites, expanding the use of LED lights, and a number of other minor projects served to generate a reduction of electrical consumption across the district.

2012 Greenhouse Gas Emissions Offsets Applied to Become Carbon Neutral in 2012

The District has calculated that a gross of 1,972 tonnes of Carbon Neutral offset purchases were required resulting in \$51,686.25 including GST (a net of 1,969 tonnes after prior years' adjustments) . As required by Section 5 of the Carbon Neutral Government Regulations, 362 tonnes of Carbon Neutral offset emissions resulting from the operation of school buses were reported as part of the greenhouse gas emissions profile in 2012. This brought the total emissions for the district for 2012 to 2,334 tonnes. Overall, this reflects a decrease in purchases of more than 5% and a savings of more than 10% from 2011.

Emissions Reduction Activities

- Actions Taken to Reduce Greenhouse Gas Emissions in 2012

In 2012, Mission Public Schools took a number of actions aimed at reducing Greenhouse Gas (GHG) Emissions. Locally funded projects included the following:

- Replacement of boiler plant at Deroche Elementary with high-efficiency boiler system
- Wattage reduction continues across a majority of district facilities that is projected to save in the area kilowatt hours of electrical energy annually
- Replacement of three heat circulating pump motors with variable frequency drive motors to optimize performance

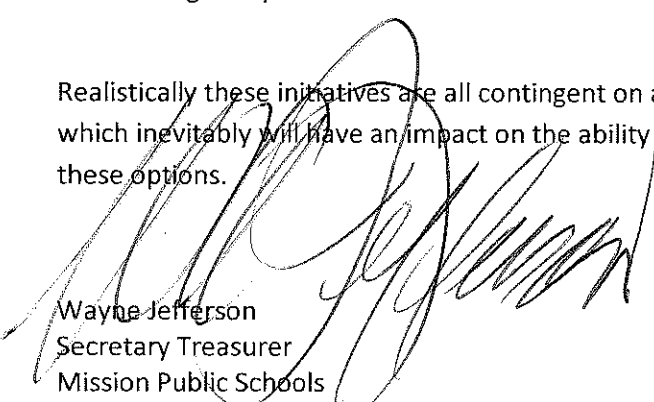
- Completion of the installation of room occupancy sensors in School Board Offices and three schools
- Phase II installation of Water Matrix water conservation monitors to better manage water consumption in school washroom facilities
- Two domestic hot water systems replaced with 'on-demand' systems to mitigate function of constant temperature retention typical of conventional hot water tanks
- Secure recycling compounds bought and elementary school specific programs launched to accommodate composting
- Specific School District Administration Procedures formally set in place to govern Purchasing, Personal Appliances, Irrigation, Waste Management, and setting annual reduction targets.

- **Plans to Continue Reducing Greenhouse Gas Emissions 2013 – 2014**

A number of specific plans have been identified to continue to reduce the production of GHG's and foster a culture of environmental sustainability amongst students, staff and the public in general. These include:

- Ongoing deployment of room occupancy sensors to all buildings where the application is practical
- Continuing to transition to high efficiency boilers and on-demand domestic hot water supplies at elementary schools, with Albert McMahon Elementary scheduled for the summer of 2013
- Expansion of the waste reduction/recycling and composting programs to elementary schools
- Upgrading of outdated lighting systems in three buildings
- Reintroduce initiatives that will include technical/infrastructure projects, community awareness and involvement, as well as student-lead projects (e.g. energy audits, school assemblies).
- Continued virtualization of district's technological infrastructure
- Work to rebuild the Energy Ambassadors Program at the secondary schools and the Green Teams at elementary schools
- Program optimization through upgraded DDC systems
- Install water efficient urinals at Mission Central Elementary
- Expand the use of LED lighting in schools
- Restart and expand the recycling, composting and comprehensive conservation program at Hatzic Secondary
- Reduce heating fuel consumption on the air to air heat exchange units by cleaning the units to original specs and return the units to the more efficient design function.

Realistically these initiatives are all contingent on a shrinking pool of operating and capital resources which inevitably will have an impact on the ability of Mission Public Schools to deliver on any or all of these options.



Wayne Jefferson
Secretary Treasurer
Mission Public Schools

School District 75 Mission Public Schools - 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	Training program in place. As well, vehicle repairs are reviewed to determine if there are driver issues that need to be addressed.	Continue with current program	2008	No End Date (Continuous)
Introduce anti-idling policy and/or raise anti-idling awareness for fleet drivers (e.g., signs, stickers, messages)	Ongoing/In Progress	Mandatory maximum idling times are in place for all district vehicles and are monitored by supervisors. Signage has been up in parking lots.	Continue to monitor adherence to idling mandate	2008	2012
Encourage carpooling in fleet vehicles	Ongoing/In Progress	Car pooling encouraged where there is an opportunity to do so. Areas include professional development activities and district meetings.	Continue with current practice	2011	2011
Promote alternatives to fleet vehicle travel where possible (e.g., bicycles, public transit, walking)	Ongoing/In Progress	District now uses five per cent bio diesel for buses.	Continue to monitor pricing and availability of higher per centage bio diesel as a fuel source.	2011	No End Date (Continuous)
Other Mobile Fuel Combustion Actions					
Increase use of oil and filters for recycling.	Ongoing/In Progress	District trades' program encouraged to recycle oil and filters as part of their normal operations. This should continue on with students into their regular work life.	Continue with current program in the school, transportation, and district operations departments.	2012	No End Date (Continuous)
Vehicle fuel efficiency					
Replace vehicles with more fuel-efficient models	Ongoing/In Progress	No vehicles were replaced in this year as the district had surplus vehicles due to staff restructuring.	Fuel efficient or alternate fuel vehicles will be purchased as replacement vehicles are required.	2010	No End Date (Continuous)
Replace larger vehicles with smaller models according to fleet "right-sizing" principles	Completed (in Reporting Year)	Assessment of current fleet to determine relevancy and there does not appear to be an issue with this at this time.		2010	2012
Perform regular fleet maintenance to improve fuel-efficiency	Ongoing/In Progress	Vehicles are inspected and fine tuned on a biweekly or quarterly basis with the individual schedules based on usage and identification of issues by technicians or operators.	Continue current practice	2008	No End Date (Continuous)
Stationary Fuel Combustion, Electricity					
Behaviour change program					
Help staff reduce personal energy use through "workstation tune-ups"	Ongoing/In Progress	On-site walkabouts used as part of work station audit process. Modifications made depending on size of project.	Continuation of walkabout program and upgrades, subject to budget allocations.	2010	No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Ongoing/In Progress	all drink and vending machines replaced with Energy Star models. Monitored through walk abouts by maintenance and custodial staff.	Continuation of inspections through walk abouts.	2010	No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Ongoing/In Progress	Eliminate fridges where they may no longer be needed. Monitored through walk abouts by maintenance and custodial staff.	Continuation of 2012 program.	2010	No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	Ongoing/In Progress	Also, occupancy sensors have been installed in approximately half of the district's classrooms. Monitored through walk abouts by maintenance and custodial staff.	Continuation of 2012 program.	2010	No End Date (Continuous)
Encourage staff to use air dry setting on dishwashers	Ongoing/In Progress	Encouraged through conversations with staff.	Continue with 2012 program.	2011	No End Date (Continuous)
Provide tips to staff on saving energy in the office while working outside of regular business hours	Ongoing/In Progress	LED lights installed in parking lots. Timers in use for lights in other areas of the building. DDC controls in place for HVAC systems. Fridges are shut off during the summer shut down.	Expand use of LED lights and review other potential areas of savings when staff not in building.	2010	No End Date (Continuous)

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
Provide reminders for turning off lights (e.g., signs, stickers, messages)	Ongoing/In Progress	More than fifty per cent of classrooms and office have sensors and most have signs near switches.	Continue with current program and expand to include conversations with school based staff.	2011	No End Date (Continuous)
Promote hot water conservation	Ongoing/In Progress	Approximately twenty per cent of building have had their domestic hot water systems converted to on demand systems.	Continue replacement of domestic hot water systems with on demand systems as budgets become available or as current systems fail.	2010	No End Date (Continuous)
IT power management					
Install power management software which shuts down computers outside of regular business hours	Ongoing/In Progress	All computer labs except the district administration office has this software installed. Software installed to shut all labs down from 6 pm to 7am.	Ensure computers have this installed as they are added to the system.	2010	2012
Implement server virtualization	Ongoing/In Progress	Ninety five per cent of computers in the district have virtualization software installed. This speeds up the cloning process and reduces energy needs during set up.	Continue with completion of this on remaining computers. Review and revise five year technology plan for the district.	2010	No End Date (Continuous)
Apply auto-sleep settings on computer monitors and CPUs	Ongoing/In Progress	Continued with program and installing on all new hardware.	Carry on as per 2012 actions.	2011	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	Eighty five per cent of this type of equipment has been removed since start of project. More than five tonnes of electronic devices have been removed.	Continuation of program with a review conducted each June to ensure maximum removal of individual electronic devices.	2011	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	More than one third of schools in system are "evergreened" with Energy Star specs incorporated. In excess of four hundred computers were replaced under this program this year.	Continue replacement program but on a smaller scale due to more restrictive budgets.	2010	No End Date (Continuous)
Owned buildings					
Establish energy performance baseline for owned buildings	In Development	Started spreadsheet to monitor energy consumption by site. This will allow year over year comparisons of consumption as well as site to site comparisons.	Expand the spreadsheet itself as well as the usage of the spreadsheet.	2012	2014
Register for performance labelling/certification for operations and maintenance of owned buildings (e.g., LEED EB:O&M)	Ongoing/In Progress	All T12 ballasts now replaced with T8 ballasts. Moving to 25 watt bulbs from 32 watt bulbs.	Continue conversion of bulbs.	2011	No End Date (Continuous)
Perform energy retrofits on existing, owned buildings	Ongoing/In Progress	Twenty per cent of buildings have undergone an energy retrofit since the start of the program. Budget restrictions have forced a change in direction in terms of planning building retrofits. Specific issues in buildings are now identified and dealt within budget allocations.	Continue planning of specific projects dealing with energy retrofits in buildings.	2008	No End Date (Continuous)
Incorporate a refrigerant management strategy into regular building management/maintenance to reduce fugitive emissions	Not Yet Evaluated				No End Date (Continuous)
Planning/management					
Reduce office space (square meters) per employee	In Development	Closure of surplus buildings and reviews of remaining buildings underway to maximize usage.	Continue with review of space maximization. Also consideration being given to reduce the use of portables in an effort to maximize space and reduce operating costs.	2012	No End Date (Continuous)
Install a real time metering system (e.g. Pulse, Reliable Controls, Houle Controls)	In Development	Hydro smart meters in place. Some buildings now have real time metering systems in place.	Continue to evaluate options around expansion of real time metering within the budgets that are available.	2011	No End Date (Continuous)
Retrofit details for owned buildings					
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress	Twenty five per cent of the buildings have had HVAC retrofits.	Additional high efficiency boiler and mechanical upgrades are planned through AFG funding this year.	2008	No End Date (Continuous)
Upgrade lighting systems during retrofits	Ongoing/In Progress	The district has carried out relamping in all buildings and room occupancy sensors have been installed in selected locations representing approximately eighty per cent of the classrooms.	The district started installing LED lights in parking lots and this will be continued and expanded. The installation of motion sensors in gymnasiums will be a priority for	2010	No End Date (Continuous)

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
			this year.		
Upgrade/adjust control systems during retrofits	Ongoing/In Progress	Fifty per cent of retrofits since the start of this program have had control system upgrades or adjustments. The majority of systems have some level of automation incorporated into their control.	Additional controls and being considered for lighting and HVAC systems. There are a number of planned retrofits planned as repairs to existing systems are dealt with.	2008	No End Date (Continuous)
Improve building insulation (including windows) during retrofits	Ongoing/In Progress	All district initiated major window repair projects include window upgrading.	Continue to incorporate window upgrades in projects where it is determined that it is needed.	2012	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	Expanded training of staff in use of sharepoint and other similar software although this was limited due to budget restrictions.	Review options around training and use of this type of software.	2011	No End Date (Continuous)
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress	Board minutes now posted on website rather than distributed on a paper basis. The use of the Website has been expanded to include school and district newsletters, agendas, policies (draft and final), and other documents that have traditionally been on paper.	Increase the number of documents that are on the district website in an effort to reduce paper requirements.	2010	No End Date (Continuous)
Electronic media in place of paper					
Install collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	Ongoing/In Progress	Ninety five per cent of computers now have some type of shareware software installed. Expand the training sessions offered to staff to ensure use of software is maximized.	Expand training sessions for staff and also encourage more use of paperless applications.	2010	No End Date (Continuous)
Use electronic document library for filing common documents	Ongoing/In Progress	District has implemented a "Connected Website" which is used to house various district forms thereby reducing the stockpile of paper required.	Expand use of website to include more forms and more documents.	2011	No End Date (Continuous)
Switch to an electronic payroll notification system in place of paper pay stubs	Ongoing/In Progress	All teaching and administrative staff are on electronic pay statements. Support staff and casuals receive electronic pay statements on an individual decision basis.	Continue to encourage staff not currently receiving electronic statements to opt into the program.	2010	No End Date (Continuous)
Other Paper Supplies Actions					
Recycle standards and production process taken into consideration when purchasing paper towels and toilet paper.	Ongoing/In Progress	FSA standards for paper towels and toilet paper products form part of the district's tender criteria. Recycle content and a requirement for non use of bleach and chlorine in the production process also form part of the criteria.	Continue with the 2012 program while continuing to monitor possibilities for the potential to expand it.	2012	No End Date (Continuous)
Paper Type					
Purchase 30% post-consumer recycled paper	Ongoing/In Progress	More than ninety per cent of the paper purchased in the district contains thirty per cent recycled content. This is now in Board policy.	Annual reminders regarding recycle content sent out at purchasing time.	2011	No End Date (Continuous)
Purchase 40% post-consumer recycled paper	In Development	Annual reviews are conducted to evaluate the price difference and right now, it is still too an expensive an option.	Continue to monitor cost to determine if it is feasible to purchase.	2010	No End Date (Continuous)
Purchase 100% post-consumer recycled paper	Ongoing/In Progress	This was evaluated and it was determined it is too expensive for the limited budgets available.	Price will continue to be monitored.	2011	No End Date (Continuous)
Printer/document settings					
Switch networked printers and photocopiers to automatic double-sided	Ongoing/In Progress	Copiers were preset to do automatic double sided copies but it was difficult to get staff to change their past behaviour. This resulted in a significant waste of paper so the preset was changed. Despite the change in the default setting, information provided by the	Try once again to move to automatic double sided copies and this time include more of a staff awareness program.	2010	No End Date (Continuous)

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
		photocopiers indicated that more than fifty five per cent of copying in the district still uses duplexing option.			

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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	This has not been as successful as planned with part of the reason due to budget constraints, employee job action and also due to a significant district restructuring program.	This will be review with new district management team to determine future directions.	2010	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress	Staff are encouraged to participate in meetings using this format but it is at their discretion.	Continue to have conversations with staff around the use of this option and potentially expanding it.	2010	No End Date (Continuous)
Encourage carpooling to meetings	Ongoing/In Progress	This is an ongoing promotion to keep staff aware of the importance of this. It has increased as it provides a way to maximize budgets and keep costs under control	Continue to promote this option and encourage staff to utilize it.	2010	No End Date (Continuous)
Virtual meeting technology					
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Ongoing/In Progress	The hardware is installed in our three largest high schools to provide the schools with an option to share instruction with low enrolling courses. The use of this software so far has focused on Web Conferencing with discussions under way as to how its use may be expanded.	Continue discussions with school and technology staff to look at ways to increase the use of this software.	2010	No End Date (Continuous)
Make desktop web-cameras available to staff	Ongoing/In Progress	There has not been a definitive program in place to install desk cameras at workstations but cameras have been included when new computers are purchased.	Continue with purchase/replacement program to include cameras but it will be cut back from previous year due to budget restrictions.	2012	No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Ongoing/In Progress	This has not been as successful as planned with part of the reason due to employee job action in 2012 and also due to a significant district restructuring program.	Re energize staff and increase the use of video conferencing starting in September 2013.	2010	2013
Education, Awareness, and Engagement					
Awards/Recognition					
Establish a sustainability/green awards or recognition program	Not Yet Evaluated				No End Date (Continuous)
Staff Professional Development					
Support green professional development (e.g., workshops, conferences, training)	Ongoing/In Progress	No steps taken at this time.	To be reconsidered once district staffing is completed and priorities set.	2010	No End Date (Continuous)
Include green options in employee performance measurement system	Not Yet Evaluated				No End Date (Continuous)
Staff awareness/education					
Provide education to staff about the science of climate change	In Development	None	To be considered when setting priorities for the 2013/14 Annual Operating Budget.	2013	No End Date (Continuous)
Provide education to staff about the conservation of water, energy, and raw materials	In Development	None	To be considered when setting priorities for the 2013/14 Annual Operating Budget.	2013	No End Date (Continuous)
Provide green tips on staff website or in newsletters	In Development	This was started on a small scale but slowed down during 2012 for reasons that have been mentioned previously.	To be brought back for discussion as part of the setting of priorities for the next school year.	2011	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	Student Energy Ambassador program did not convene due to employee job action. There was a restructuring at the district level eliminating a number of positions so there has no one in a	Finalize staff placements and restart program involving students and school principals.	2010	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
		management position to get this restarted.			
Provide resources and/or dedicated staff to support teams	Ongoing/In Progress	Environmental Sustainability Manager not replaced due to budget constraints so this has been put on hold.	Individual department heads have taken on some of the tasks and started to build teams within their area. For example, janitors have been involved in reporting unused fridges, unplugging unused electronics equipment and closing blinds that have been left open.	2010	No End Date (Continuous)
Providing behaviour change education/training to teams (e.g., community-based social marketing)	Ongoing/In Progress	Some site based training was completed the year before but this has slowed down due to budget constraints.	Reintroduce site base training and add sites to the 4-bin initiative in accordance with budget allocations.	2010	No End Date (Continuous)
Other Sustainability Actions					
Adaptation to Climate Change					
Integrated considerations of extreme weather events and/or long term changes in climate into the organization's decision making.	Ongoing/In Progress	Schools are closed and buses do not run in extreme weather conditions. Each situation is evaluated independently when decisions are made.	Continue with existing program.	2008	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	Ongoing/In Progress	The maintenance department routinely recycles and repurposes construction materials where feasible.	Continue with existing program and expand where possible.	2008	No End Date (Continuous)
Incorporate lifecycle costing into new construction or renovations	Not Yet Evaluated				No End Date (Continuous)
Commuting to and from home					
Introduce telework/work from home policy	Not Yet Evaluated				No End Date (Continuous)
Provide shower or locker facilities for staff/students who commute by foot or by bicycle	Ongoing/In Progress	Most schools have showers already so this is a service that is available to most interested staff.	No change from previous year.	2009	No End Date (Continuous)
Provide secure bicycle storage	Ongoing/In Progress	There are areas in most district facilities that have secure bicycle storage. The number of areas could be increased based on the needs at a specific site subject to space availability and costs involved.	Continue with existing program with changes based on individual site requests.	2010	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.)	Ongoing/In Progress	The purchasing coordinator factors this into decisions when awarding tenders. They also ensure that there is a set standard across the district. The district is also expanding its use of remanufactured toner cartridges.	Ongoing application and monitoring of purchases to ensure compliance, taking into consideration budget and other factors.	2010	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.)	Ongoing/In Progress	Procurement practices implemented where suitable products are available, again taking into account budget allocations.	Continuation of established program.	2009	No End Date (Continuous)
Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags	Ongoing/In Progress	Biodegradable products tested and purchased where product is effective, is affordable and where the option exists.	Ongoing implementation and monitoring or existing program making revisions as required.	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	Staff assigned to remove recycling and compost from sites in order to facilitate the reduction and diversion of building occupant waste from landfills and incineration facilities.	Expand existing program to reduce and divert building occupant waste.	2009	No End Date (Continuous)
Implement a hazardous waste reduction and disposal strategy	Ongoing/In Progress	Schools/sites electronic recycling collected annually as part of summer shut down procedures. Electronic audits of sites carried out	Continue with implementation and monitoring of current program.	2009	No End Date (Continuous)

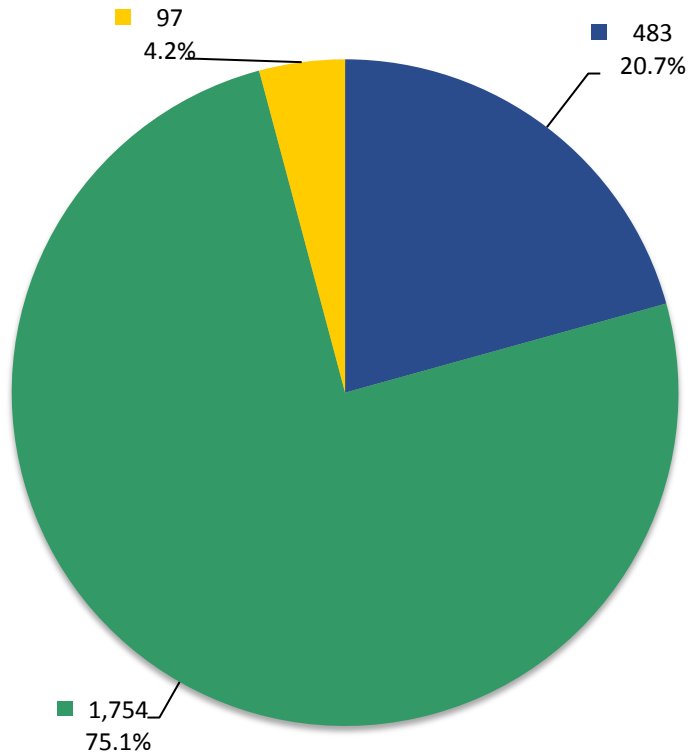
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Actions to Reduce Provincial Emissions and Improve Sustainability

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
		to remove surplus and personal electronic devices.			
Water conservation					
Establish a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models	Ongoing/In Progress	A policy was adopted and plan put in place. For example, auto water shut off fixtures have been installed to reduce excess water usage. Urinal controls have been changed to more restrictive flush type systems.	Implementation of policy and plan to be continued.	2010	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	Additional water management devices were purchased for schools.	Continuation of program to put water management devices in schools through use of AFG funding.	2010	No End Date (Continuous)
Introduce a stormwater management landscape strategy (e.g., vegetated roofs, permeable paving, rain gardens, bioswales)	Not Yet Evaluated				No End Date (Continuous)

**School District 75 - Mission
Greenhouse Gas Emissions by Source
for the 2012 Calendar Year (tCO₂e*)**



Total Emissions: 2,334

- 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 12:08 PM)

Total offsets required: **1,972**. Total offset investment: **\$49,300**. Emissions which do not require offsets: **362** **

*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.