



## **2010 CARBON NEUTRAL ACTION REPORT**

**School District No. 78 (Fraser Cascade)  
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**March 31, 2011**

# 2010 CARBON NEUTRAL ACTION REPORT

## Executive Summary

School District No. 78 (Fraser Cascade) is committed to continuing to provide environmental leadership by sharing knowledge and best practices around environmental sustainability with our staff students and public. The District is continuing with initiatives both at a facility level and at the employee and student level with further awareness training.

The District paid a total of **\$24,378.20** (including HST) in total emission offsets to become carbon neutral for 2010. As required by section 5 of the Carbon Neutral Government Regulation, **214.84 Tonnes** of CO<sub>2</sub>e of emissions resulting from the operation of school buses were reported as part of our greenhouse gas emissions profile in 2010. However, they were not offset as they are out of scope under section 4(2)c of the Carbon Neutral Government Regulation.

2010 Emissions by Source - Required	Value	Unit/type
Mobile Fuel Combustion (Fleet and other mobile equipment)	265.96	tonnes of CO <sub>2</sub> e
Stationary Fuel Combustion and Electricity (Buildings)	792.48	tonnes of CO <sub>2</sub> e
Supplies (Paper)	27.05	tonnes of CO <sub>2</sub> e
Fugitive Emissions	0.00	tonnes of CO <sub>2</sub> e
Total	1085.49	tonnes of CO <sub>2</sub> e

2010 Offsets - Required	Value	Unit/type
Emissions Which Do Not Require Offsets	214.84	tonnes of CO <sub>2</sub> e
Total Offsets Purchased	870.65	tonnes of CO <sub>2</sub> e
Total Offsets Investment (before taxes)	\$21,766.25	\$ CDN

# 2010 CARBON NEUTRAL ACTION REPORT

## Mobile Combustion Calendar Year 2010, School District 78 - Fraser - Cascade

Reporting Unit	Fuel Type	Volume (L)	Greenhouse Gases in Tonnes				
			CO <sub>2</sub>	BioCO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	tCO <sub>2</sub> e <sup>1</sup>
School District 78 - Fraser - Cascade	Light Duty Vehicle 2 door passenger cars, 4 door passenger cars and station wagons						
	Gasoline	12,758.58	27.74	0.95	0.00	0.00	29.36
	Propane	37.90	0.06	0.00	0.00	0.00	0.06
		<b>12,796.48</b>	<b>27.80</b>	<b>0.95</b>	<b>0.00</b>	<b>0.00</b>	<b>29.42</b>
	Light Duty Truck SUV's, minivans, full-size vans and pickup trucks						
	Diesel	3,883.40	10.03	0.29	0.00	0.00	10.59
	Gasoline	5,534.50	12.04	0.41	0.00	0.00	12.89
		<b>9,417.90</b>	<b>22.07</b>	<b>0.70</b>	<b>0.00</b>	<b>0.00</b>	<b>23.48</b>
	Heavy Duty Road vehicles with a gross vehicle weight rating (GVRW) over 3856 Kg (8500 lbs) and a curb weight over 2722 Kg (6000 lbs)						
	Diesel	79,365.55	205.01	5.83	0.01	0.01	213.06
	<b>79,365.55</b>	<b>205.01</b>	<b>5.83</b>	<b>0.01</b>	<b>0.01</b>	<b>213.06</b>	
	<b>101,579.93</b>	<b>254.88</b>	<b>7.48</b>	<b>0.01</b>	<b>0.01</b>	<b>265.96</b>	
<b>Total Emissions, Calendar Year 2010</b>		<b>101,579.93</b>	<b>254.88</b>	<b>7.48</b>	<b>0.01</b>	<b>0.01</b>	<b>265.96</b>
<b>Carbon Neutral or Offset Exempt</b>			<b>205.13</b>	<b>7.48</b>	<b>0.01</b>	<b>0.01</b>	<b>214.84</b>
<b>Total for Offsets</b>			<b>49.74</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>51.12</b>

Each greenhouse gas has been converted to a standard measurement (tCO<sub>2</sub>e) by multiplying its emissions by its global warming potential (GWP). The GWP of carbon dioxide (CO<sub>2</sub>) from both anthropogenic and biogenic sources is 1; methane (CH<sub>4</sub>) is 21, and nitrous oxide (N<sub>2</sub>O) is 310.

2. Estimated data has been calculated based on the methods described in the Methodology Document.

3. Reported data refers to consumption which has been directly billed to the organization.

## Emissions from Buildings Calendar Year 2010, School District 78 - Fraser - Cascade

Reporting Unit	Fuel Type	Energy (GJ)	Greenhouse Gases in Tonnes				
			CO <sub>2</sub>	BioCO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	tCO <sub>2</sub> e <sup>1</sup>
School District 78 - Fraser - Cascade	Electricity	7,469.95	51.54	0.00	0.00	0.00	51.54
	Natural Gas	12,760.78	638.04	0.00	0.01	0.01	641.87
	Propane Gas	1,623.72	96.87	0.00	0.00	0.01	99.07
		<b>21,854.46</b>	<b>786.45</b>	<b>0.00</b>	<b>0.01</b>	<b>0.02</b>	<b>792.48</b>
<b>Total Emissions, Calendar Year 2010</b>		<b>21,854.46</b>	<b>786.45</b>	<b>0.00</b>	<b>0.01</b>	<b>0.02</b>	<b>792.48</b>
<b>Carbon Neutral or Offset Exempt</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Total for Offsets</b>			<b>786.45</b>	<b>0.00</b>	<b>0.01</b>	<b>0.02</b>	<b>792.48</b>

Each greenhouse gas has been converted to a standard measurement (tCO<sub>2</sub>e) by multiplying its emissions by its global warming potential (GWP). The GWP of carbon dioxide (CO<sub>2</sub>) from both anthropogenic and biogenic sources is 1; methane (CH<sub>4</sub>) is 21, and nitrous oxide (N<sub>2</sub>O) is 310.

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# 2010 CARBON NEUTRAL ACTION REPORT

## Office Supplies Calendar Year 2010, School District 78 - Fraser - Cascade

Reporting Unit	Supply Type	Quantity (PKG)	Greenhouse Gases in Tonnes					
			CO <sub>2</sub>	BioCO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	tCO <sub>2</sub> e <sup>1</sup>	
School District 78 - Fraser - Cascade	8.5 x 11 Paper	8.5 x 11 (letter) 20 lb bond paper. All colours. Post-consumer recycled content indicated by percentage.						
	30 %	4,099.00	23.91	0.00	0.00	0.00	23.91	
	40 %	180.00	1.00	0.00	0.00	0.00	1.00	
		<b>4,279.00</b>	<b>24.91</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>24.91</b>	
	8.5 x 14 Paper	8.5 x 14 (legal) 20 lb bond paper. All colours. Post-consumer recycled content indicated by percentage.						
	30 %	113.00	0.84	0.00	0.00	0.00	0.84	
		<b>113.00</b>	<b>0.84</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.84</b>	
	11 x 17 Paper	11 x 17 (ledger) 20 lb bond paper. All colours. Post-consumer recycled content indicated by percentage.						
	30 %	110.00	1.28	0.00	0.00	0.00	1.28	
	100 %	2.00	0.02	0.00	0.00	0.00	0.02	
		<b>112.00</b>	<b>1.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.30</b>	
		<b>4,504.00</b>	<b>27.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>27.05</b>	
<b>Total Emissions, Calendar Year 2010</b>		<b>4,504.00</b>	<b>27.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>27.05</b>	
<b>Carbon Neutral or Offset Exempt</b>			<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	
<b>Total for Offsets</b>			<b>27.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>27.05</b>	

Each greenhouse gas has been converted to a standard measurement (tCO<sub>2</sub>e) by multiplying its emissions by its global warming potential (GWP). The GWP of carbon dioxide (CO<sub>2</sub>) from both anthropogenic and biogenic sources is 1; methane (CH<sub>4</sub>) is 21, and nitrous oxide (N<sub>2</sub>O) is 310.

2. Estimated data has been calculated based on the methods described in the Methodology Document.

3. Reported data refers to consumption which has been directly billed to the organization.

# 2010 CARBON NEUTRAL ACTION REPORT

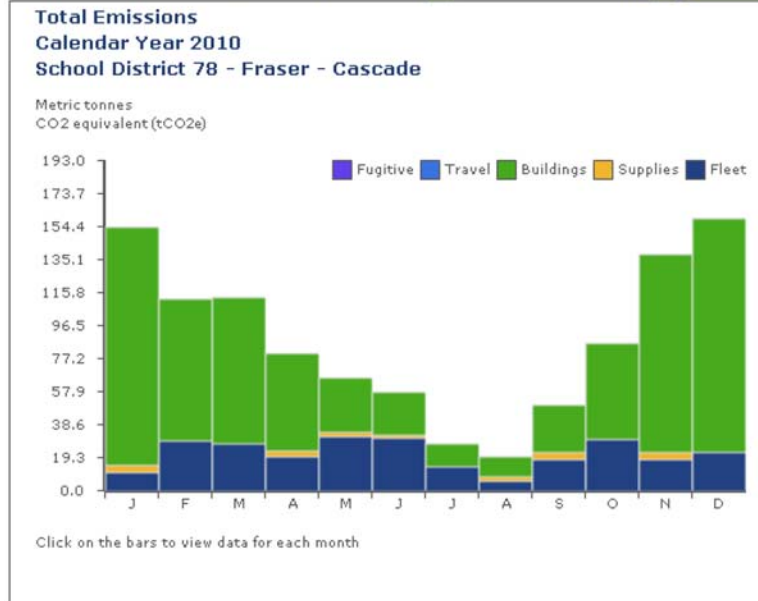
## 2010 Greenhouse Gas Emissions

Reporting Unit:

School District 78 - Fraser - Cascade

Calendar Year 2010

Show Report



## Totals Calendar Year 2010, School District 78 - Fraser - Cascade

	Measure	Quantity	Greenhouse Gases in Tonnes				
			CO <sub>2</sub>	BioCO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O tCO <sub>2</sub> e <sup>1</sup>	
<b>Scope 1 (Direct) Emissions</b>							
Mobile Combustion (Fleet)	Litres	101,579.93	254.88	7.48	0.01	0.01	<b>265.96</b>
Stationary Combustion, Reported <sup>3</sup>	GigaJoules	14,384.50	734.91	0.00	0.01	0.02	<b>740.94</b>
<b>Scope 2 (Indirect) Emissions</b>							
Stationary Combustion, Reported <sup>3</sup>	GigaJoules	7,469.95	51.54	0.00	0.00	0.00	<b>51.54</b>
<b>Scope 3 (Business Travel and Office Paper) Emissions</b>							
Office Paper	Packages	4,504.00	27.05	0.00	0.00	0.00	<b>27.05</b>
<b>Total Emissions, Calendar Year 2010</b>			<b>1,068.38</b>	<b>7.48</b>	<b>0.03</b>	<b>0.03</b>	<b>1,085.48</b>
<b>Carbon Neutral or Offset Exempt</b>			<b>205.13</b>	<b>7.48</b>	<b>0.01</b>	<b>0.01</b>	<b>214.84</b>
<b>Total for Offsets</b>			<b>863.24</b>	<b>0.00</b>	<b>0.02</b>	<b>0.02</b>	<b>870.65</b>

<sup>1</sup> Each greenhouse gas has been converted to a standard measurement (tCO<sub>2</sub>e) by multiplying its emissions by its global warming potential (GWP). The GWP of carbon dioxide (CO<sub>2</sub>) from both anthropogenic and biogenic sources is 1; methane (CH<sub>4</sub>) is 21, and nitrous oxide (N<sub>2</sub>O) is 310.

<sup>2</sup> Estimated data has been calculated based on the methods described in the Methodology Document.

<sup>3</sup> Reported data refers to consumption which has been directly billed to the organization.

## Overviews

### ***Actions Taken to Reduce Greenhouse Gas Emissions in 2010***

In the summer of 2010 the District retrofitted three gyms with new lighting systems reducing the number of fixtures by more than half and using more efficient energy technology. Not only is it saving energy, the lighting is more effective.

Once again we have also provided education to our bus drivers, on bus driving technologies to both reduce emissions and improve the performance of our buses. We are making this an annual event to maintain the awareness of these important changes. We are continuing to promote car-pooling and teleconferencing over face to face meetings.

In the past year we have cut out one more bus run. We are also working with one of our municipal partners to assist each other to minimize our duplication of purchasing of equipment and efficient use of current resources. For example, our municipal partner cleans snow from our parking lots while cleaning roads which means our equipment isn't moving from one location to the next as much.

The District purchased aerators for all of our faucets which once fully installed will substantially reduce our water use. We also purchased five new water saving toilets to replace some of our older units. We will continue to do so.

This year through our application to PSECA we were successful in having a solar wall at Agassiz Elementary Secondary School approved. This work will be completed in 2011 and will heat the gym and reduce our natural gas consumption by approximately 2,000 Gigajoules per year.

### ***Plans to Continue Reducing Greenhouse Gas Emissions 2011 – 2013***

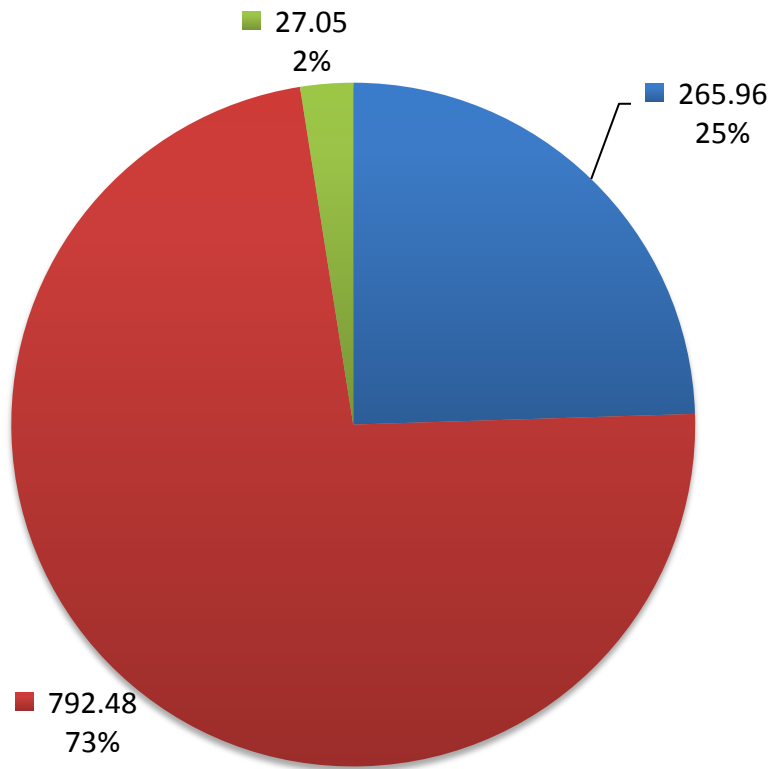
The School District is continuing with its organizational commitment to and practice of sustainability. The areas we are concentrating on are our curriculum, operations, staff development and capital projects. Energy management and energy efficiency are key elements in our operations goal to reduce our carbon emissions, as well as staff commitment and student involvement. We are working on all these areas.

We will be added replacement of our oldest and least efficient heating system to our minor capital plan and hope to obtain funding for an upgrade to a greener more energy efficient heating system. Over the next few years we will come up with a further plan for the rest of our heating systems.

The District will be a key contributor in leading through teaching our students about the importance of environmental sustainability and resource management. These efforts will be enhanced by adding professional development sessions on sustainability to our District Professional Development day.

# School District No. 78 (Fraser-Cascade)

## Greenhouse Gas Emissions by Source for the 2010 Calendar Year (tCO<sub>2</sub>e\*)



**Total Emissions: 1085.49**

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion and Electricity (Buildings)
- Supplies (Paper)

### Offsets Applied to Become Carbon Neutral in 2010

Total offsets purchased: **870.65**. Total offset investment: **\$21,766.25**. Emissions which do not require offsets: **214.84** \*\*

\*Tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) 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.

# School District No. 78 (Fraser-Cascade) - 2010 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 (as of 12/31/10)	Performance to Date (as of 12/31/10)		Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
<b>Mobile Fuel Combustion (Fleet and other mobile equipment)</b>							
<b>Vehicle fuel efficiency</b>							
Replace vehicles with more fuel-efficient models	Ongoing/In Progress	15	% of vehicles are fuel- efficient models	Bought a diesel truck to replace an old van	As leases come up will replace larger vans with smaller vans and cars where appropriate	2006	No End Date (Continuous)
Replace larger vehicles with smaller models according to fleet "right-sizing" principles	Ongoing/In Progress	10	% of vehicles down-sized since start year indicated	no changes	As leases come up will replace larger vans with smaller vans and cars where appropriate	2007	No End Date (Continuous)
Perform regular fleet maintenance to improve fuel-efficiency	Ongoing/In Progress	100	% of vehicles are subject to regular maintenance for fuel efficiency	All vehicles are maintained on a bi-weekly basis in-house.	Will continue with this practice	Started before 1995	No End Date (Continuous)
Replace small maintenance vehicles with more fuel-efficient models	Ongoing/In Progress	15	% of small maintenance vehicles are fuel-efficient	only vehicles owned are used for maintenance so see above	see above	2006	No End Date (Continuous)
<b>Behaviour change program</b>							
Provide fleet driver training to reduce fuel use	Ongoing/In Progress	100	% of current drivers are trained	Transportation supervisor went over proper driver techniques to avoid idling and warming up vehicles for too long	Continue to remind drivers of proper procedure. Education is ongoing	2009	No End Date (Continuous)
Encourage carpooling in fleet vehicles	Ongoing/In Progress			This is not easily accomplished as we have a small number of staff and a geographically dispersed district.	When possible we will encourage car-pooling	2006	No End Date (Continuous)
<b>Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)</b>							
<b>Owned buildings</b>							
Establish energy performance baseline for owned buildings	In Development	0	% of owned buildings have an established energy performance baseline		will use SmartTOOL to assess our baselines	2011	No End Date (Continuous)
Complete energy retrofits on existing, owned buildings	Ongoing/In Progress						
<b>Retrofitting owned buildings</b>							
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress	70	% of retrofits since start year indicated had heating, cooling, and ventilation systems upgrades	No retrofits done in current year	Have applied for PSECA money. Have received money for solar panel at Agassiz Elementary Secondary School for use in heating the gym	2011	2011
Upgrade lighting systems during retrofits	Ongoing/In Progress						
<b>IT power management</b>							
Install power management software which shuts down computers outside of regular business hours	Ongoing/In Progress	100	% of computers shut down automatically outside of regular business hours	New labs had software installed	As we upgrade our labs we will continue to install the software	2007	No End Date (Continuous)



## School District No. 78 (Fraser-Cascade) - 2010 Carbon Neutral Action Report

Action	Status (as of 12/31/10)	Performance to Date (as of 12/31/10)		Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
Apply auto-sleep settings on computer monitors and CPUs	Ongoing/In Progress	100	% of computers have auto-sleep settings applied	This is on-going as we get new equipment	Will continue to install auto-sleep settings	2006	No End Date (Continuous)
Remove stand-alone printers, copiers, and/or fax machines and install multi-function devices	Ongoing/In Progress	30	% reduction in printers, copiers, and/or fax machines since start year indicated	We are sending much more information by scanning to email rather than fax. We have replaced two copiers removing some printers from circulation	Will continue to eliminate need for fax and continue with moving to copiers for printing	2007	No End Date (Continuous)
Apply auto-sleep settings on printers, copiers, fax machines, and/or multi-function devices	In Development				Will have our tech department review	2010	No End Date (Continuous)
Replace computers with ENERGY STAR models during regular computer upgrades	Ongoing/In Progress	75	% of computers are ENERGY STAR rated	We are buying more energy efficient hard drives and monitors	Will continue with this practice as we replace stand-alones and labs	2008	No End Date (Continuous)
<b>Appliances and electronic devices</b>							
Replace refrigerators with ENERGY STAR models or source ENERGY STAR models for future purchases	Ongoing/In Progress	90	% of fridges are ENERGY STAR rated	no new refrigerator purchased this year	will continue to buy energy star rated appliances	2008	No End Date (Continuous)
Replace other appliances or electronic devices with ENERGY STAR models or source ENERGY STAR models for future purchases	Ongoing/In Progress			one dishwasher purchased	will continue to buy energy star rated appliances	2008	No End Date (Continuous)
Replace desk lamp incandescent bulbs with compact fluorescent (CFL) bulbs or source more efficient desk lamps for future purchases	Ongoing/In Progress			none	buy compact fluorescent bulbs	2010	No End Date (Continuous)
<b>Behaviour change program</b>							
Help staff reduce personal energy use through "workstation tune-ups"	Ongoing/In Progress	75	% of current staff have completed a workstation tune-up	Moving to smaller more energy efficient hard drives	Will continue with retro-fitting with smaller harddrives	2005	No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Ongoing/In Progress			Sent out request from Board office to remind staff to turn off equipment when not in use	Continue to educate in power consumption. Look at financial incentives for most power saved	2008	No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	Ongoing/In Progress	95	% of schools use blinds to control temperature	Trying to change habits by reinforcing need to conserve	Continue to educate on power consumption		
Provide tips to staff on saving energy in the office while working outside of regular business hours	Ongoing/In Progress			Continuing to review when to turn heat down at end of day	Will try turning thermostat down by one degree	2008	No End Date (Continuous)
Provide reminders for turning off lights (e.g., signs, stickers, messages)	Ongoing/In Progress			Schools have put signs up to remind people to turn lights off	Will look at sensors for some areas to automatically turn lights out	2005	No End Date (Continuous)
Promote hot water conservation	Ongoing/In Progress			Put in water conservers on all faucets - hired a plumber and will ask him to continue to monitor conservation	will continue to monitor leaks- want to ensure no water loss	2006	No End Date (Continuous)
<b>Supplies (Paper)</b>							
<b>Paper Type</b>							
Purchase 30% post-consumer recycled paper	Ongoing/In Progress	100	% of total paper purchased contains 30% recycled content	Most of our schools are now using a minimum of 30% recycled paper	Move toward 100% recycled paper use	2003	2011
Purchase 100% post-consumer recycled paper	In Development				Evaluated as cost still too high	2010	No End Date (Continuous)
<b>Printer/document settings</b>							

## School District No. 78 (Fraser-Cascade) - 2010 Carbon Neutral Action Report

Action	Status (as of 12/31/10)	Performance to Date (as of 12/31/10)		Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
Switch networked printers and photocopiers to automatic double-sided	Ongoing/In Progress	20	% of network printers or photocopiers are set to automatic double-sided	Happening as we replace stand alone copiers with networked copiers. Replaced two this year	Continue to replace copiers with networked copiers	2008	No End Date (Continuous)
Apply "print and hold" settings to networked printers to eliminate unclaimed print jobs	In Development	0	% of network printers have 'print and hold' settings applied		Have asked clerical staff to review this	2011	No End Date (Continuous)
Reduce default margin size in standard document templates (e.g., letters, briefing notes, forms, etc.)	In Development	10	% of our staff probably look at this regularly		Have asked clerical staff to review this	2011	No End Date (Continuous)
<b>Electronic media in place of paper</b>							
Post materials online that were previously printed	Ongoing/In Progress			Printing less hard copies of meeting agendas. Requesting people bring computers to meetings. Using our websites to disseminate information and sending fewer newsletters home by mail	Will continue in this direction. More and more people have access to computers and information in this format	2006	No End Date (Continuous)
<b>Behaviour change program</b>							
Train staff to use collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	In Development	5	% of staff currently have received collaborative software training		Continue to train staff on some educational tools for special needs students. Are developing an on-line TOC list	2009	No End Date (Continuous)
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress			Have sent most Board office agendas out electronically	Will continue to encourage people to come with computer or show information on screen.	2009	No End Date (Continuous)
Encourage re-use of scrap paper	Ongoing/In Progress			Continuing to happen	Will encourage recycling and cutting down on waste	2006	No End Date (Continuous)

## School District No. 78 (Fraser-Cascade) - 2010 Carbon Neutral Action Report

### 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 organizations can optionally use this section to report on actions that will help British Columbia meet its provincial greenhouse gas reduction targets, engage the public, and improve environmental sustainability across all aspects of their organization.

Action	Status (as of 12/31/10)	Performance to Date (as of 12/31/10)		Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
<b>Business Travel</b>							
<b>Policy and budgeting</b>							
Create a low-carbon travel policy or travel reduction goal	Ongoing/In Progress			In the transportation policy, carpooling is encouraged	Carpooling will continue to be encouraged	2009	No End Date (Continuous)
<b>Virtual meeting technology</b>							
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Ongoing/In Progress	5	% of computers have web-conferencing software installed	Our chairperson is promoting the trustee pro-d through Elluminate	Provincial council will be attended by video conferencing	2008	No End Date (Continuous)
Make desktop web-cameras available to staff	Ongoing/In Progress	25	% of staff have access to a desktop web-camera	Nothing done that we are aware of	Limited interest in the need for cameras	2010	No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Ongoing/In Progress	0	% of meeting rooms have access to video-conferencing equipment	Nothing done that we are aware of	unknown currently	2010	No End Date (Continuous)
<b>Behaviour change program</b>							
Train staff in web-conferencing	Ongoing/In Progress	75	% of staff are trained web-conferencing	Done on an ad-hoc basis	will train as required	2009	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress			Staff do attend webinars and training on-line when possible. Some meetings need face-to-face interaction	Continue to take advantage of webinars rather than attending directly.	2009	No End Date (Continuous)
Encourage carpooling to meetings	Ongoing/In Progress			Staff and trustees carpool when possible	Will continue to encourage car-pooling	2009	No End Date (Continuous)
Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)	Ongoing/In Progress			This is done where possible. While small in terms of enrolment, our district is very geographically dispersed and does not have a public transit system	It will be encouraged where possible.	2009	No End Date (Continuous)
<b>Education, Awareness, and Engagement</b>							
<b>Team-building</b>							
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	In Development				Schools all have green teams, however, without the support of Destination Conservation (budget cut) we have not had District wide meetings	2008	No End Date (Continuous)
Provide resources and/or dedicated staff to support teams	In Development				Looking at ways to support an Energy manager	2010	No End Date (Continuous)
Providing behaviour change education/training to teams (e.g., community-based social marketing)	In Development				Was done through Destination conservation. Now it is on a site by site initiative	2008	No End Date (Continuous)
<b>Awards/Recognition</b>							
Establish a sustainability/green awards or recognition program	Ongoing/In Progress			none	With loss of DC program, out went our awards program	2008	No End Date (Continuous)

## School District No. 78 (Fraser-Cascade) - 2010 Carbon Neutral Action Report

Action	Status (as of 12/31/10)	Performance to Date (as of 12/31/10)	Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
<b>Staff Professional Development</b>						
Support green professional development (e.g., workshops, conferences, training)	Ongoing/In Progress		Had further bus driver training on lowering emissions. Did work in conjunction with Chilliwack school district	Will look at it for our District Pro-D day	2007	No End Date (Continuous)
<b>Staff awareness/education</b>						
Provide green tips on staff website or in newsletters	Ongoing/In Progress		newsletters	newsletters	2008	No End Date (Continuous)
<b>Other Sustainability Actions</b>						
<b>Water conservation</b>						
Establish a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models	Ongoing/In Progress		Added water aerators to faucets- have done some - can dial in volume of water at the tap. Replaced one school with new low flow toilets. As toilets require replacing we are replacing with new low flow technology. Three this year were replaced under this plan.	Turn off automatic flush on urinals earlier. Will finish installation of aerators	2008	2013
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		Where we have irrigation, we have timers on them to reduce watering. Municipal restrictions also in place	Will continue to buy green technology to reduce water useage	2006	No End Date (Continuous)
<b>Waste reduction/diversion</b>						
Put in place an operations policy to facilitate the reduction and diversion of building occupant waste from landfills or incineration facilities	Ongoing/In Progress		We have recycling programs in all our schools. We also have separate bins to collect cardboard and paper which is disposed of separately. Some schools weigh their garbage in an attempt to reduce the amount	Continue with our current program	2000	No End Date (Continuous)
<b>Procurement (non-paper supplies)</b>						
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		We are only replacing our flooring with more organic substances in it	No purchases planned	2006	No End Date (Continuous)
<b>Building construction, renovation, and leasing</b>						
Establish a policy to reuse materials where possible and divert construction and demolition debris from landfills and incineration facilities	Ongoing/In Progress		We have always tried to recycle used materials. We sent a load of old books to Kamloops for delivery to a Third World Country. We also sent a load of computers to another country through a church.	Will continue with these initiatives as they come available	2008	No End Date (Continuous)
<b>Indoor air quality</b>						
Enforce a scent-free policy (e.g., no strong perfumes, deodorants, etc.)	Completed in 2010		Updated policy and provided signage regarding scent-free environment		2009	2010
<b>Commuting to and from home</b>						
Offer staff a compressed work week	In Development		Tried out the two week spring break this year and was met with some success, but some concern as well	Four day school week in Boston Bar because of commute	2004	No End Date (Continuous)
Encourage commuting by foot, bicycle, carpool or public transit	Ongoing/In Progress		Some carpooling taking place.	Continue to encourage carpooling. The District has tried to encourage parents not to drive their children to school but have had limited success- people are always worried about the safety of their child	2008	No End Date (Continuous)

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Action	Status (as of 12/31/10)	Performance to Date (as of 12/31/10)	Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
Provide shower or locker facilities for staff/students who commute by foot or by bicycle	In Development		Planning a shower facility in the new maintenance shop.	Will ask staff what facilities would entice walking or riding to work	2011	2011