



**DOUGLAS COLLEGE**

## **2012 Carbon Neutral Action Report Overview**

### **Executive Summary**

Douglas College continues to be concerned about the quality of the natural environment and building a sustainable society. As such, the College has a responsibility to enable our community to become knowledgeable about the environment, and to become environmentally responsible. To educate by example and to demonstrate good environmental citizenship College operations will make all reasonable efforts to be environmentally sound.

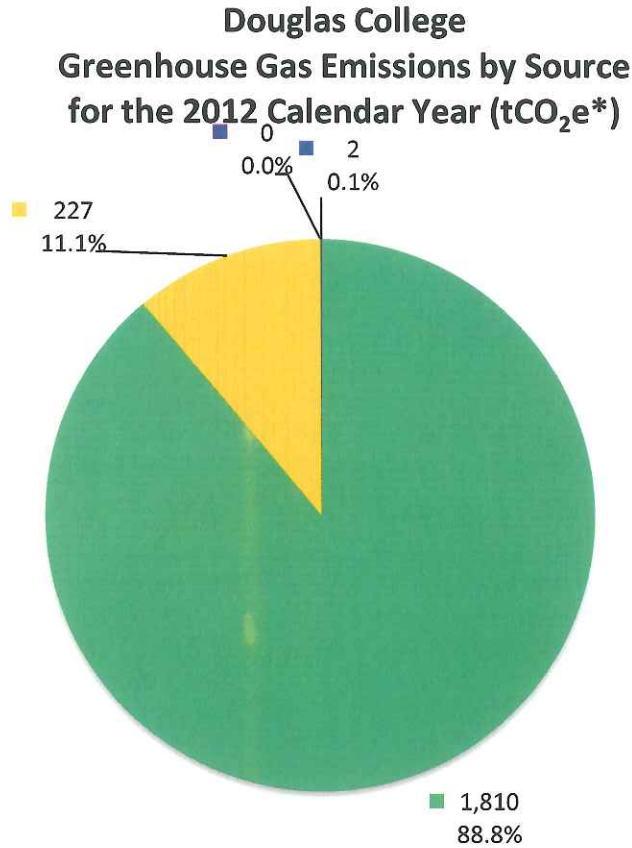
Douglas College continues to investigate opportunities provided by organizations such as BC Hydro's Power Smart programs and initiatives, Public Sector Energy Conservation Agreement (PSECA), Energy Canada (Enercan), and our Ministry of Advanced Education, Innovation & Technology. These relationships provide access to a variety of resources which may assist us in developing an environmental sustainable energy management plan which focuses on achievable, sustainable and measurable results.

Douglas College, via RETScreen, has established an energy usage baseline for measurement of Energy and Greenhouse Gas reduction targets.

Douglas College is committed to educate by example and demonstrate quality environmental stewardship. This work is an on-going process, for which both internal and external resources will need to be built up, and the complex concepts underlying environmentally sustainable development will need to be further elaborated and tested. We will have discussions with our consultants and partners to provide a means for reviewing progress. These actions will provide the opportunity to update procedures based on these reviews and the experience gained.

## 2012 Greenhouse Gas Emissions

The total 2012 greenhouse gas emissions, from all sources covered by the Greenhouse Gas Reduction Targets Act (as reported in SMARTTool), was 2045 tonnes of CO<sub>2e</sub>.



**Total Emissions: 2,039**

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

### Offsets Applied to Become Carbon Neutral in 2012 (Generated April 23, 2013 12:22 PM)

Total offsets required: **2,039**. Total offset investment: **\$50,975**. Emissions which do not require offsets: **0**

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





## Offsets Applied to become Carbon Neutral in 2012

Douglas College recognizes that we are responsible for 100% of the carbon emissions generated by the College. Achieving carbon neutrality involved measuring GHG emissions, reducing emissions where possible, and offsetting the remainder through the purchase of carbon offsets. To become carbon neutral, Douglas College purchased offsets equivalent to 2045 tonnes of CO<sub>2</sub>, through the Pacific Carbon Trust.

## Emission Reduction Activities

### Actions Taken to Reduce Greenhouse Gas Emissions in 2012:

- At the New Westminster campus, reduced electrical consumption by replacing T12 with T8 lamps in and the 1<sup>st</sup> and 2<sup>nd</sup> floor corridors of the North & South buildings and the 3<sup>rd</sup> floor South corridors. Furthermore, added Wattstopper occupancy sensors to deactivate non-emergency corridor lights, when there is no pedestrian traffic.
- At the New Westminster campus, converted 16 faucets to low flow, hands free faucets and converted 20 flush valves to ½ gallon per flush, auto flush valves.
- At the New Westminster campus, upgraded 3 pneumatically controlled VAV boxes to DDC controlled.
- At the New Westminster campus, replaced 30 - 120 watt PAR 38 bulbs with 10 watt LED bulbs, 36 - 75 watt PAR 30 bulbs with 20 watt LED bulbs and 60 - 50 watt MR16 bulbs with 10 watt LED bulbs.
- At the New Westminster campus, replaced a 50 hp motor with a premium efficiency motor (94.5% vs. 92.4% for standard efficiency).
- At the New Westminster campus, for exhaust fan EF-28, added a variable speed drive with PID controller to reduce energy use by minimizing cycling.
- To reduce used of bottled water, installed combination fountain & bottle filling stations at the Coquitlam campus (five), New Westminster Campus (five) and Students' Union Building (2).
- During the CFCS relocation to the Coquitlam campus, reused most of the kitchen millwork, counters & sinks for a new work room & lounge. Reused demountable partition boards and carpet & acoustic ceiling tiles.
- Implemented procurement practices where all new PC's are Energy Star rated.
- Initiated the implementation of Curriculum Navigator for developing and maintaining program and curriculum guideline documents. Expect to complete implementation in 2013/2014.
- Deployed an additional two video conferencing systems between the New Westminster and Coquitlam campuses.



**Plans to Continue Reducing Greenhouse Gas Emissions 2012 – 2014**

Douglas College will continue to initiate feasible, short and long term actions to meet Provincially mandated legislation for the reduction of Greenhouse Gas Emissions.

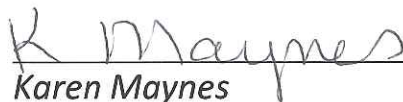
Douglas College will, through Facilities Services, "continue to research and promote short and long term initiatives to promote environmental sustainability".

The College, through Facilities Services will "look at how we can model a commitment to the highest values in environmental stewardship and sustainability at Douglas College".

In conjunction with the Marketing & Communications Office and Facilities Services, the College will continue to "enhance sustainability initiatives and continue an awareness campaign to encourage our employees to creatively think and act on reducing consumption and take on the challenge of modeling new personal behaviour around sustainability".

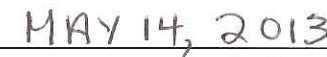
The reduction in the Annual Capital Allowance has had an impact on Douglas College's ability to pursue substantive capital initiatives to reduce Greenhouse Gas Emissions. As the reduction of the Annual Capital Allowance continues for 2013, new Greenhouse Gas reduction initiatives as well, will be impacted.

**Executive Approval**

  
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*Karen Maynes*

*Vice President, Finance and  
Administration*

  
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*Date*

## Douglas College - 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
<b>Mobile Fuel Combustion (Fleet and other)</b>					
<b>Vehicle fuel efficiency</b>					
Replace vehicles with more fuel-efficient models	Not Yet Evaluated				No End Date (Continuous)
Perform regular fleet maintenance to improve fuel-efficiency	Completed (in Previous Year)				No End Date (Continuous)
<b>Stationary Fuel Combustion, Electricity</b>					
<b>Behaviour change program</b>					
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	Not Yet Evaluated				No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Not Yet Evaluated				No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	Not Yet Evaluated				No End Date (Continuous)
Provide tips to staff on saving energy in the office while working outside of regular business hours	Not Yet Evaluated				No End Date (Continuous)
Encourage use of stairs instead of elevators	Not Yet Evaluated				No End Date (Continuous)
Provide reminders for turning off lights (e.g., signs, stickers, messages)	Completed (in Previous Year)				No End Date (Continuous)
Promote hot water conservation	Not Yet Evaluated				No End Date (Continuous)
<b>IT power management</b>					
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	Virtualized more SAN Solaris servers	Not all applications will work in a virtualized host, but where it is an option, we will continue to virtualize or move to the Cloud.	2008	No End Date (Continuous)
Apply auto-sleep settings on computer monitors and CPUs	Ongoing/In Progress	Images are set up to enable sleep mode for monitors and CPUs	Maintain auto sleep mode on all PCs	2008	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	In Development	Print Strategy Report was initiated. The objectives of the Report include possible replacement of aging fleet of departmental copiers and lowering costs by rationalizing copying and printing equipment (less equipment).  Goals also include the implementation of multifunction copy and print devices with modern capabilities (including but not limited to power save features).	Print strategy report to be completed by late 2013 with possible replacement of existing equipment in 2013 or 2014.	2013	No End Date (Continuous)
Apply auto-sleep settings on printers, fax machines, and/or multi-function devices	Ongoing/In Progress	Continue to apply auto sleep settings to all new and replacement devices.  Print Strategy Report was initiated. The objectives of the Report	Strive towards 100% implementation of auto-sleep implementation.  Print strategy report to be completed by late 2013 with possible replacement of existing equipment in 2013 or 2014.	2008	No End Date (Continuous)



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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
		include possible replacement of aging fleet of departmental copiers and lowering costs by rationalizing copying and printing equipment (less equipment).  Goals also include the implementation of multifunction copy and print devices with modern capabilities (including but not limited to power save features).			
Replace computers with ENERGY STAR models during regular computer upgrades	Ongoing/In Progress	All new and replacement computers are Energy Star compliant.	Strive towards 100% implementation.	2008	No End Date (Continuous)
<b>Leased buildings</b>					
Establish energy performance baseline for leased buildings	Not Yet Evaluated				No End Date (Continuous)
Lease space with operations and maintenance performance labelling/certification (e.g., LEED EB:O&M)	Not Yet Evaluated				No End Date (Continuous)
Lease space with commercial interiors performance labelling/certification (e.g., LEED CI)	Not Yet Evaluated				No End Date (Continuous)
Lease space in buildings with new construction performance labelling/certification (e.g., LEED NC)	Not Yet Evaluated				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)
<b>Owned buildings</b>					
Establish energy performance baseline for owned buildings	In Development	In 2012, worked with Siemens Building Technologies to develop an energy use baseline. Provided data from 2009 to 2011. A draft baseline has been compiled using RETScreen.	Update RETScreen with 2012 usage. Review draft baseline and finalize the report. Continue to measure performance as compared to baseline.	2012	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)
Achieve LEED NC Gold certification at a minimum for new construction or major renovations	Completed (in Previous Year)				No End Date (Continuous)
Perform energy retrofits on existing, owned buildings	Ongoing/In Progress	Conducted a number of small retrofits as described in the next section.	Where and when economically feasible, complete small energy retrofits.	2008	No End Date (Continuous)
Incorporate a refrigerant management strategy into regular building management/maintenance to reduce fugitive emissions	Ongoing/In Progress	Contractors are required to record all refrigerant top ups. Equipment set for disposal has the refrigerant reclaimed prior to disposal.	Contractors will continue to record all refrigerant top ups. Equipment set for disposal will continue to have refrigerant reclaimed prior to disposal.	2008	No End Date (Continuous)
<b>Planning/management</b>					
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)
<b>Retrofit details for owned buildings</b>					
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress	Completed the following HVAC projects: - Retrofitted 3 VAV boxes from pneumatic to DDC control. - In lieu of replacing a 50 hp motor with a standard efficiency motor	Standard practice is to include mechanical system upgrades during any renewal/retrofit work.	2008	No End Date (Continuous)

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
		(92.4%), we replaced it with a premium efficiency motor (94.5%). - On exhaust fan EF-28, added variable speed drive with PID controller to reduce energy use by minimizing cycling.			
Upgrade lighting systems during retrofits	Ongoing/In Progress	Completed the following lighting projects: - Replaced approx 450 T-12 fixtures with T-8 fixtures in the 1st, 2nd and 3rd floor corridors (NWC). - Replaced 30 - 120W PAR 38 bulbs in the Theatre Foyer, with 10 watt LED bulbs. - Replaced 36 - 75W PAR 30 bulbs in the Cafeteria, with 20 watt LED bulbs. - Replaced 60 - 50W PAR 30 bulbs in the Theatre Foyer, Deli & Bookstore, with 10 watt LED bulbs.	- Continue to replace incandescent bulbs with high efficiency LED bulbs where economically feasible. - Continue to replace T-12 fixtures with T-8 fixtures at NW Campus. - Continue with standard practice of upgrading fixtures during renewal/retrofit work.	2008	No End Date (Continuous)
Upgrade/adjust control systems during retrofits	Ongoing/In Progress	Retrofitted 3 VAV boxes from pneumatic to DDC control (NWC).	Standard practice is to continue including control system upgrades during any renewal/retrofit work.	2008	No End Date (Continuous)
Improve building insulation (including windows) during retrofits	Ongoing/In Progress	No new steps taken in 2012.	Standard practice is to consider insulation improvements during any renewal work.	2008	No End Date (Continuous)
<b>Supplies (Paper)</b>					
<b>Behaviour change program</b>					
Train staff to use collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	Ongoing/In Progress	Initiated the implementation of Curriculum Navigator for developing and maintaining program and curriculum guideline documents.  Introduced institutional social network (Yammer) to improve communication while reducing paper usage.	Complete the implementation of Curriculum Navigator.  Enhance use of Yammer as a replacement for paper newsletters and posters.	2012	2014
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress	Employees make use of mobile devices for taking and keeping notes.	Encourage staff to use electronic/mobile devices to deal with documents and communications in lieu of paper	2011	No End Date (Continuous)
<b>Electronic media in place of paper</b>					
Install collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	In Development	Moved to Microsoft platform including Active Directory and Outlook	Research and consider implementing MS Sharepoint	2010	No End Date (Continuous)
Use electronic document library for filing common documents	Not Yet Evaluated				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)
<b>Paper Type</b>					
Purchase 30% post-consumer recycled paper	Ongoing/In Progress	Inventories of virgin paper delayed the implementation of a policy to buy 30% recycled content. % of total fine paper purchased, containing 30% recycled content expected to rise in 2013.  Print Shop instructed to purchase all fine paper with 30% post-consumer recycled paper. Approximately 20% of all fine paper purchased between April 1, 2012 and March 31, 2013 had 30% post-consumer recycled paper.	Continue with purchasing requirement of all paper including a minimum of 30% recycled content.  Review other paper products purchased, including envelopes, for recycled content.	2008	No End Date (Continuous)
Purchase 40% post-consumer recycled paper	Not Yet Evaluated				No End Date (Continuous)
Purchase 100% post-consumer recycled paper	Not Yet Evaluated				No End Date (Continuous)

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
<b>Printer/document settings</b> Switch networked printers and photocopiers to automatic double-sided	Ongoing/In Progress	<p>All public area, staff, and lab printers are set to duplex printing as default.</p> <p>Print Strategy Report was initiated. The objectives of the Report include possible replacement of aging fleet of departmental copiers and lowering costs by rationalizing copying and printing equipment (less equipment).</p> <p>Goals also include the implementation of multifunction copy and print devices with modern capabilities (including but not limited to power save features).</p>	<p>Provide duplex printing options to other users. Encourage and communicate to staff the benefits of duplex printing.</p> <p>Print strategy report to be completed by late 2013 with possible replacement of existing equipment in 2013 or 2014.</p> <p>Both the Print Shop and Coursepack areas will continue to promote 100% double sided duplication and monitor of print jobs to maximize efficiency.</p>	2009	No End Date (Continuous)



## Douglas College - 2012 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

Action	Status	Steps Taken	Steps Planned	Start Year	End Year
<b>Business Travel</b>					
<b>Behaviour change program</b>					
Train staff in web-conferencing	Ongoing/In Progress	Provided training to staff on as needed basis.	Provide training to staff on as needed basis.	2008	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress	Increased awareness of the possibility and opportunities for virtual participation in events.	More of the same; consider providing some incentives.	2008	No End Date (Continuous)
Encourage carpooling to meetings	In Development	No new steps taken in 2012	Further develop website to encourage transit and carpooling	2012	No End Date (Continuous)
Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)	Ongoing/In Progress	Employee Relations provides new employees information on Employer Transit Pass.	Add "Green Commuting Tips" to Employee Newsletter.	2010	No End Date (Continuous)
<b>Policy and budgeting</b>					
Create a low-carbon travel policy or travel reduction goal	Not Yet Evaluated				No End Date (Continuous)
<b>Virtual meeting technology</b>					
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Completed (in Previous Year)				No End Date (Continuous)
Make desktop web-cameras available to staff	Ongoing/In Progress	Purchased and deployed additional web cameras	Continue to purchase and deploy additional web cameras as requested.	2008	No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Ongoing/In Progress	Purchased and deployed additional 2 more room video conferencing systems	Currently no further plans to expand video conferencing in meeting rooms	2008	2012
<b>Education, Awareness, and Engagement</b>					
<b>Awards/Recognition</b>					
Establish a sustainability/green awards or recognition program	Not Yet Evaluated				No End Date (Continuous)
<b>Staff Professional Development</b>					
Support green professional development (e.g., workshops, conferences, training)	Ongoing/In Progress	No new steps taken in 2012.	As requested, continue to provide PD opportunities for College employees.	2008	No End Date (Continuous)
Include green options in employee performance measurement system	Not Yet Evaluated				No End Date (Continuous)
<b>Staff awareness/education</b>					
Provide education to staff about the science of climate change	In Development	No new steps taken in 2012	Via the webpage, provide information/links regarding the science of climate change.	2008	No End Date (Continuous)
Provide education to staff about the conservation of water, energy, and raw materials	Ongoing/In Progress	Publicized the introduction of water filling stations at both campuses, to discourage the use of plastic water bottles.	Continue to provide education to staff about the conservation of water, energy, and raw materials.	2008	No End Date (Continuous)
Provide green tips on staff website or in newsletters	Ongoing/In Progress	Added "greentips" group to the college's internal social media feed.	Develop web updates to: * encourage employees to turn off printers and computers at end of day. * encourage transit and carpooling to students & users. * investigate rewards program for "green champions"	2008	No End Date (Continuous)
Provide sustainability education during new staff orientation	Not Yet Evaluated				No End Date (Continuous)

## Douglas College - 2012 Carbon Neutral Action Report

<b>Actions to Reduce Provincial Emissions and Improve Sustainability</b>					
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
<b>Team-building</b>					
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	In Development	No new steps taken in 2012	Continue with "Environmental Sustainability Initiative" committee meeting.	2010	No End Date (Continuous)
Provide resources and/or dedicated staff to support teams	Completed (in Previous Year)				No End Date (Continuous)
Providing behaviour change education/training to teams (e.g., community-based social marketing)	In Development	No new steps taken in 2012	Work with the College Community to provide awareness and engagement.	2011	No End Date (Continuous)
<b>Other Sustainability Actions</b>					
<b>Adaptation to Climate Change</b>					
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)
<b>Building construction, renovation</b>					
Establish a policy to reuse materials where possible and divert construction and demolition debris from landfills and incineration facilities	Ongoing/In Progress	As storage space permits, Facilities stores cabinets, furniture and materials for reuse and reallocation. - During the CFCS relocation, reused most of the kitchen millwork, counters & sinks for a new work room & lounge. Reused demountable partition boards and carpet & acoustic ceiling tiles.	As storage space permits, continue storing cabinets, furniture and materials for reuse and reallocation.  Continue with the practice of utilizing demountable gypsum partitions for office renovations. During renovations, we are able to reuse a number of partition components.	2008	No End Date (Continuous)
Incorporate lifecycle costing into new construction or renovations	Not Yet Evaluated				No End Date (Continuous)
<b>Commuting to and from home</b>					
Introduce telework/work from home policy	Not Yet Evaluated				No End Date (Continuous)
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	The college offers staff the opportunity to "Go Green". They are provided a semester allowance and can either purchase a parking pass, bus pass or save the allowance and walk to work.  Douglas College continued to be a member of the "Translink Employer Pass Program" and informing new employees  Douglas College continues to be a member the Translink U-Pass Program.  Promoted Bike to Work Week	As applicable, maintain the Go Green & Employer Pass programs for College employees.  Continue to inform new employees of the "Translink Employer Pass Program".  Continue with supporting the U-Pass program.  Continue to promote in Bike to Work Week.	2008	No End Date (Continuous)
Provide shower or locker facilities for staff/students who commute by foot or by bicycle	Completed (in Previous Year)				No End Date (Continuous)
Provide secure bicycle storage	In Development	Secured funding for 16 lockers. Reviewed bike locker types, prepared rental instructions and selected installation locations, for	In 2013, purchase lockers and begin rental program for students and staff.	2012	2013

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
		management review.			
<b>Procurement (non-paper supplies)</b>					
Incorporate minimum recycled content standards into procurement policy for consumable, non-paper supplies (e.g., writing instruments, binders, toner cartridges, etc.)	In Development	Purchasing initiated discussions with current vendors.	Establish Purchasing standards.	2013	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.)	In Development	Purchasing initiated discussions with current vendors.	Establish Purchasing standards.	2013	No End Date (Continuous)
Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags	Ongoing/In Progress	Purchasing initiated discussions with current vendors.	As needed, investigate other cleaning products for possible conversion.  Establish Purchasing standards.	2013	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	To reduce used of bottled water, installed combination fountain & bottle filling stations at the Coquitlam campus (five), New Westminster Campus (five) and Students' Union Building (2).	Explore feasibility of a plastic recycling & composting program for the cafeteria.  When feasible, will investigate additional (new) opportunities to reduce and/or divert building waste.  Add three more combination fountain & bottle filling stations, New Westminster Campus (two) and Students' Union Building (1).	2008	No End Date (Continuous)
Implement a hazardous waste reduction and disposal strategy	Ongoing/In Progress	No new steps taken in 2012.	The College will continue to reduce hazardous waste where possible. Where not possible, hazardous waste will be sent to hazardous waste disposal contractors.	2008	No End Date (Continuous)
<b>Water conservation</b>					
Establish a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models	Completed (in Previous Year)				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	Continue implementing water potable water management where fixture replacements are scheduled.  Converted 16 faucets to .5 gpm hands free faucets.	Continue to convert balance of flush valves & faucets at the NW campus to low flow fixtures.	2008	No End Date (Continuous)
Introduce a stormwater management landscape strategy (e.g., vegetated roofs, permeable paving, rain gardens, bioswales)	Ongoing/In Progress	No new steps taken in 2012.	When completing site works and where feasible, will introduce new or additional storm water management strategies.	2010	No End Date (Continuous)