



## 2012 Carbon Neutral Action Report



Submitted under the Carbon Neutral Government Regulation of the  
BC Greenhouse Gas Reduction Targets Act

  
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## Executive Summary

In the fall of 2011, Vancouver Community College (VCC) launched a new three-year Strategic Plan with a vision to create an accessible urban college that engages with the many diverse communities within the Vancouver area to provide learning opportunities that change lives. This vision is expressed through shared values, one of which is that VCC respects the environment and seeks to reduce its environmental impact.

In 2012, through the Environment & Sustainability Advisory Group, VCC developed an Environment & Sustainability Plan with a vision to bring sustainability principles into the thinking, actions, culture and everyday operations of VCC by

- Engaging and educating our students, faculty and employees so that we are all aware of our environmental and social responsibilities; and
- Minimizing our impact on the environment while maximizing our positive social contribution to the local community.

To realize this vision, VCC has set goals in areas:

**Energy:** VCC's goal is to reduce our carbon footprint by 10% below 2011 levels by 2016. In order to meet this target, VCC will complete and implement a Strategic Energy Management Plan which will identify opportunities to reduce energy use and greenhouse gas emissions and their associated costs.

**Waste** - VCC's goal is to minimize our production of waste and maximize landfill diversion. In order to meet this goal, we will implement the Waste Management Plan including expanding recycling systems, establishing organics recycling (composting), developing a green procurement policy to minimize waste and reduce packaging and establish and report out on a waste diversion target.

**Water** - VCC's goal is to practice water conservation and ensure free access to potable water on campus. In order to meet this goal, we will continue to support the ban on bottled water sales, conduct a water audit to identify opportunities to use water more efficiently, implement reduction projects where economically feasible and set a water conservation target.

**Food Systems** - VCC's goal is to promote the use of local and organic food on campus. In order to meet this goal, we will establish a garden at the Broadway campus where students and staff can grow their own food and offer local and organic food in the cafeteria and food kiosks.

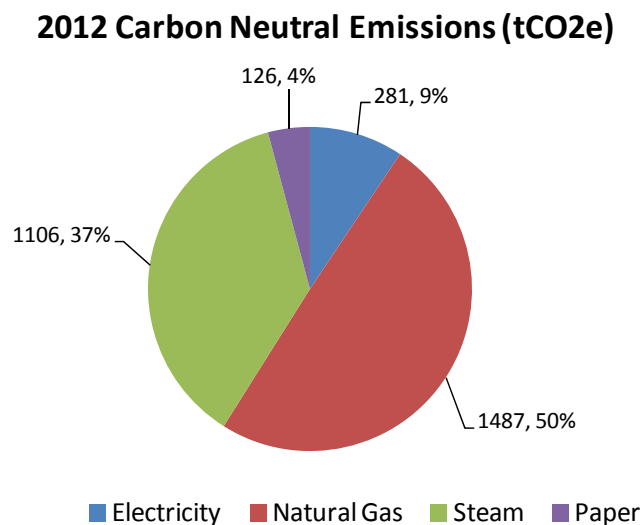
**Education and Engagement** - VCC's goal is to engage and educate the VCC family and local community to help realize a sustainable future. In order to meet this goal, we will work to support faculty to incorporate environmental sustainability into courses and programs at VCC, work with the Environment and Sustainability Advisory Group, the VCC Green Team, the Student Union and Marketing and Communications to implement initiatives which raise

awareness and reduce environmental impact, regularly survey the VCC family to measure change in culture and report out publicly on progress towards reaching our goals.

Through these actions, VCC will engage and empower our students, faculty, staff and the local community to help realize a sustainable future.

## 2012 Greenhouse Gas Emissions

In 2012, VCC emitted 3,000 tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)<sup>1</sup> from sources covered under the Carbon Neutral Government Regulation (see Figure One). This is a 3% reduction over 2011 levels. Emissions from the use of paper were reduced by 10%. Of the total emissions for 2012, 96% come from heating, cooling and lighting our buildings and the remaining 4% come from the use of paper. VCC does not own any vehicles.



It was estimated that stationary fugitive emissions from cooling do not comprise more than 0.01% of VCC's total emissions and to collect data for emissions from this source was not feasible. For this reason, emissions from this source have not been included in VCC's total greenhouse gas emissions profile.

## Offsets Applied to Become Carbon Neutral in 2012

VCC has purchased 3,000 tonnes of carbon offsets from the Pacific Carbon Trust at a cost of \$75,000 (\$25 per tonne) to achieve carbon neutrality, as required by the Greenhouse Gas Reduction Targets Act. More information on the Pacific Carbon Trust and offset projects can be found at [www.pacificcarbontrust.com](http://www.pacificcarbontrust.com).

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<sup>1</sup> Tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) is a standard unit of measure in which all types greenhouse gases are expressed based on their global warming potential relative to carbon dioxide.

## Emissions Reduction Activities

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

VCC is working to achieve the goals set out under our Environment and Sustainability Plan. In 2012, we completed the following:

#### Energy

- ✓ Completed an Energy Management Assessment with BC Hydro in order to assess our energy management approach and identify priority areas for further action
- ✓ Applied to BC Hydro's Energy Manager Program
- ✓ Conducted walk-through natural gas energy audits of both campuses
- ✓ Completed energy retrofit projects including new LED exit lights, partial roof replacement at the Downtown Campus, installation of DDC controls on two floors of the Downtown Campus and replacing the walk-in cooler at Broadway Building A

#### Waste

- ✓ Completed a Waste Assessment and Audit for both campuses
- ✓ Developed a new Waste Management Plan for the College

#### Water

- ✓ Banned the sale of bottled water on both campuses
- ✓ Retrofitted 24 water fountains and added 4 new fountains with automatic bottle fillers and digital counters. In the first six months, over 60,000 reusable water bottles were filled.



#### Food Systems

- ✓ VCC's Culinary Arts Program taught about sustainable food practices

#### Education and Engagement

- ✓ Completed a research study into how VCC can further incorporate sustainability into programs and course curriculum as part of the development of the new VCC Education Plan
- ✓ Established a VCC Green Team for students, faculty and staff
- ✓ Participated in environmental awareness activities including a Twitter Scavenger Hunt, hosted two successful commuter stations during Bike to Work Week, held a Green Living Fair at both campuses and participated in the Great Canadian Shoreline Cleanup.

## Plans to Continue Reducing Greenhouse Gas Emissions 2013 – 2015

To continue on our progress in our path towards sustainability, VCC is moving forward with the following actions over the coming three years.

### Energy

- ✓ Engaging a consulting firm to deliver Energy Manager Services for VCC under the BC Hydro Energy Manager Program
- ✓ Completing and implementing a Strategic Energy Management Plan for VCC
- ✓ Completing energy retrofit projects including a new chiller at Broadway Building B, full roof replacement at the Downtown Campus, continued installation of DDC controls at the Downtown Campus, completing a redesign of the Hair and Esthetics Salon using sustainable materials and replacing the makeup air handler units at the Downtown Campus

### Waste

- ✓ Implementing the new Waste Management Plan for the College ensuring a comprehensive recycling program including organics (compost), paper, cardboard, mixed containers, soft plastic, batteries, cell phones and styrofoam
- ✓ Increasing the number of recycling bins located throughout the College and giving the bins a unified look
- ✓ Implementing green procurement guidelines to reduce the purchase of packaging

### Water

- ✓ Continuing to support the ban on the sale of bottled water on both campuses and installing more water fountains
- ✓ Replacing the dishwasher at the Downtown Campus to save water and energy

### Food Systems

- ✓ Assessing the feasibility of growing food at either or both campuses for use either by students or as part of the Culinary Arts program or both

### Education and Engagement

- ✓ Based on the research completed in 2012, supporting Faculty in developing and including more sustainability content in course offerings through the Education Plan
- ✓ Continuing to participate in environmental awareness activities including Bike to Work Week, Earth Hour and the Great Canadian Shoreline Cleanup, holding Green Living Fairs at both campuses and using social media to connect with the VCC community.



## Actions to Reduce Provincial Emissions and Improve Sustainability

VCC recognizes the role it plays in working to reduce provincial greenhouse gas emissions and improve sustainability. In 2012, we were the first post-secondary institution in the lower mainland to pledge to eliminate the sale of bottled water on campus.

During 2013, we will release a public Environment & Sustainability Plan which will include metrics for each of our goals, enabling us to measure progress towards achieving them.

In 2011, VCC announced its participation in the Campus City Collaborative (C3), which brings together the City of Vancouver, the Vancouver Economic Commission (VEC) and six post-secondary institutions to work together towards the City's green economy targets. In 2012, VCC participated in a Green Workforce Development Symposium to help determine the education and training that post-secondary institutions can develop to meet the needs of the green economy. In 2013 we will host a Greening Campuses Symposium to share ideas on how to influence change across the campus environment and then into the community.



For more information on VCC's Strategic Plan, check out our website at [www.vcc.ca](http://www.vcc.ca). Follow our activities and progress on our Facebook page at [www.facebook.com/vcc](http://www.facebook.com/vcc) and keep up to date on all our green initiatives by following us on Twitter at [@GreenVCC](https://twitter.com/GreenVCC).

## Vancouver Community 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>Behaviour change program</b>					
Introduce anti-idling policy and/or raise anti-idling awareness for fleet drivers (e.g., signs, stickers, messages)	Completed (in Reporting Year)	Anti-idling signs were installed at the receiving docks at both campuses to encourage delivery trucks to turn off their vehicles while loading/unloading.		2012	No End Date (Continuous)
Promote alternatives to fleet vehicle travel where possible (e.g., bicycles, public transit, walking)	Completed (in Reporting Year)	Faculty and staff using a personal vehicle for business purposes can sign up with a car-sharing program. This means staff and faculty can still take transit for their commute and that smaller, carshare vehicles are used.		2012	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	Back end server virtualization complete	Front end server virtualization scheduled for 2013/14	2011	2014
Apply auto-sleep settings on computer monitors and CPUs	Completed (in Previous Year)				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	95% of stand alone devices replaced with MFD	New MFD devices with energy efficiency settings to be deployed throughout the College	2012	2013
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	All new computers purchased are ENERGY STAR models	All new computers purchased are ENERGY STAR models	2011	No End Date (Continuous)
<b>Owned buildings</b>					
Establish energy performance baseline for owned buildings	In Development	Planned for 2013/14 as part of the scope of work of the Energy Manager Services	Planned for 2013/14 as part of the scope of work of the Energy Manager Services	2013	2014
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)

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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
Register for performance labelling/certification for commercial interiors of owned buildings (e.g., LEED CI)	Not Yet Evaluated				No End Date (Continuous)
Perform energy retrofits on existing, owned buildings	Ongoing/In Progress	Natural gas audits completed for Broadway and Downtown Campuses (walk-through audits); partial roof replacement at Downtown Campus; Broadway Building A walkin cooler replaced; make-up air handling units optimization completed for Broadway Building B	Roof replacement for Pender Building and Tower at Downtown Campus; make-up air kitchen exhaust units scheduled to be replaced at Downtown Campus; Dishwasher replacement at Downtown Campus; Redesign of hair and Esthetics Salon at Downtown Campus will incorporate sustainable materials and advanced recycling programs; Energy Manager Services contract includes identification of opportunities to retrofit for energy efficiency	2012	No End Date (Continuous)
Incorporate a refrigerant management strategy into regular building management/maintenance to reduce fugitive emissions	Ongoing/In Progress	During replacement of the chiller for Broadway Building A, coolant was recovered and recycled	During replacement of the chiller for Broadway Building A, coolant was recovered and recycled	2012	2013
<b>Planning/management</b>					
Reduce office space (square meters) per employee	Ongoing/In Progress	Currently undertaking an assessment with regard to setting a target for space per workstation. Space per office target set of 56square feet per office.	Set target for space per workstation	2012	2013
Install a real time metering system (e.g. Pulse, Reliable Controls, Houle Controls)	In Development	To be evaluated in 2013-2014	Evaluation of real-time metering system to be completed in 2013/14 as part of the development of a Strategic Energy Management Plan	2013	2014
<b>Retrofit details for owned buildings</b>					
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress	Planned replacement of chiller at Broadway Building A	Replacement of chiller at Broadway Building A	2012	2013
Upgrade lighting systems during retrofits	Ongoing/In Progress	new LED exit lights installed; LED panel lights installed in stairways at Downtown Campus	Replacement of older fluorescent lights	2012	No End Date (Continuous)
Upgrade/adjust control systems during retrofits	Ongoing/In Progress	DDC installation on floors 4 and 5 of Downtown Campus Tower Building	DDC installation planned for floor 7 and 8 of Downtown Campus Tower Building	2011	No End Date (Continuous)
Improve building insulation (including windows) during retrofits	Not Yet Evaluated				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.)	Completed (in Reporting Year)	On-line training available		2012	No End Date (Continuous)
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress	Encouraging use of paperless meetings, providing staff with iPads, encourageing use of Moodle for intructors and classroom delivery	Encouraging use of paperless meetings, providing staff with iPads, encourageing use of Moodle for intructors and classroom deliver	2011	No End Date (Continuous)
<b>Electronic media in place of paper</b>					
Install collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	Completed (in Reporting Year)	Sharepoint available to all staff and faculty		2012	2012
Use electronic document library for filing common documents	Completed (in Previous Year)				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	Completed (in Reporting Year)	100% of paper purchased in 2012 was 30% recycled		2012	2012
Purchase 40% post-consumer recycled paper	Completed (in Reporting Year)	Current paper supplier does not provide 40% recycled content paper		2012	2012
Purchase 100% post-consumer recycled paper	Completed (in Reporting Year)	Investigated increasing recycled content to 100%, however, the cost		2012	2012



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Action	Status	Steps Taken	Steps Planned	Start Year	End Year
	Reporting Year)	is prohibitive			
<b>Printer/document settings</b>					
Switch networked printers and photocopiers to automatic double-sided	Completed (in Previous Year)				No End Date (Continuous)

## Vancouver Community 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	Ad hoc training provided when requested.	Ad hoc training provided when requested.	2011	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress	Video-conferencing training and Adobe WebConnect training available upon request.	Video-conferencing training and Adobe WebConnect training available upon request.	2012	No End Date (Continuous)
Encourage carpooling to meetings	Not Yet Evaluated				No End Date (Continuous)
Encourage alternative travel to meetings (e.g., bicycles, public transit, walking)	Not Yet Evaluated				No End Date (Continuous)
<b>Other Business Travel Actions</b>					
Faculty and staff are encouraged to use a corporate carsharing account for business trips rather than claim mileage for their personal vehicles.	Completed (in Reporting Year)	Faculty and staff are encouraged to use a corporate carsharing account for business trips rather than claim mileage for their personal vehicles. First corporate account established with Car2Go.		2012	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.)	Ongoing/In Progress	LiveMeeting, microphones and headsets provided on an as-needed basis.	LiveMeeting, microphones and headsets provided on an as-needed basis.	2011	No End Date (Continuous)
Make desktop web-cameras available to staff	Ongoing/In Progress	Web-cameras provided as required based on business needs. Adobe WebConnect provided for educational delivery of programs.	Web-cameras provided as required based on business needs. Adobe WebConnect provided for educational delivery of programs.	2011	No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Completed (in Reporting Year)	Video-conferencing units installed at both Campuses.		2012	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>Other Education, Awareness, and Engage</b>					
Promote green initiatives using social media	Ongoing/In Progress	VCC green initiatives promoted through @greenVCC, @VCCishere and through the VCC Facebook page. Twitter scavenger hunt held for students in January, 2012.	Continue to promote through @greenVCC, @VCCishere and through the VCC Facebook page.	2012	No End Date (Continuous)
Green living fair held to promote sustainable lifestyles to students, faculty and staff.	Ongoing/In Progress	Green living fair held in March 2012 (one per campus) to promote sustainable lifestyles to students, faculty and staff.	Green living fair to be held in April 2013 (one per campus) to promote sustainable lifestyles to students, faculty and staff.	2012	No End Date (Continuous)
Participate in the Great Canadian Shoreline Cleanup to raise awareness about marine and river ecosystems.	Ongoing/In Progress	Participated in 2012 Great Canadian Shoreline Cleanup on September 22, 2012. VCC team cleaned up Fraser River Park.	Participate with VCC team in Great Canadian Shoreline cleanup in 2013.	2012	No End Date (Continuous)
Participate in Bike to Work week to promote cycling	Ongoing/In Progress	Participated in Bike to Work Week in May 2012. Hosted two cycling commuter stations where approximately 500 cyclists stopped to enjoy refreshments and enter a prize draw. Also, VCC cycling team participated in bike to work week and logged their commuter cycling distances.	Participate in Bike to Work Week 2013.	2012	No End Date (Continuous)
Educate students about sustainable food production and purchasing.	Completed (in Reporting Year)	Within VCC's Culinary Arts Program, students learn about the importance of local and sustainable food production and purchasing.		2012	No End Date (Continuous)
<b>Staff Professional Development</b>					

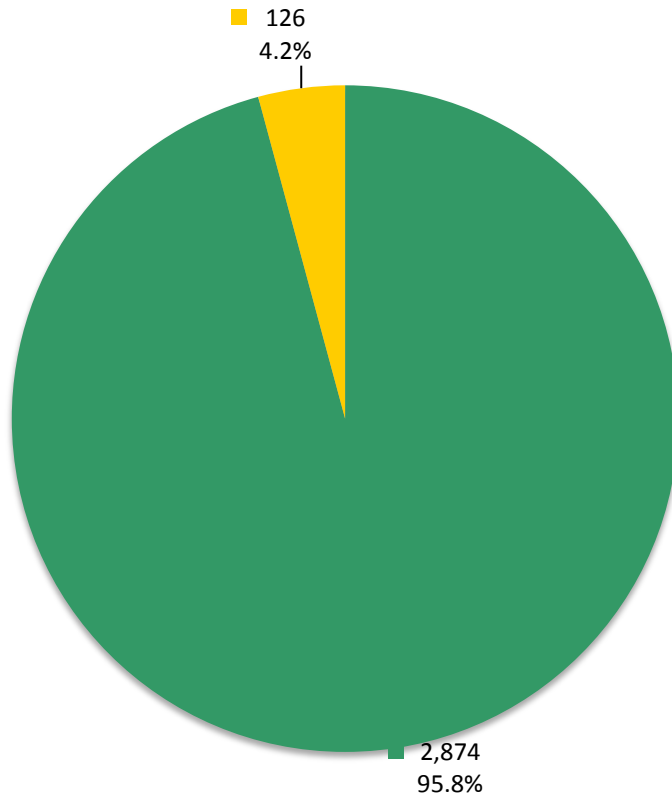
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<b>Actions to Reduce Provincial Emissions and Improve Sustainability</b>					
The actions listed below contribute to a reduction in greenhouse gas emissions from sources that fall outside of the reporting requirements defined in the carbon neutral government regulation of the Greenhouse Gas Reduction Targets Act. Public sector					
Action	Status	Steps Taken	Steps Planned	Start Year	End Year
Support green professional development (e.g., workshops, conferences, training)	In Development	Research completed in 2012 looking at support needed by Faculty to increase sustainability content in course offerings and curriculum. Recommendations provided from the Environment & Sustainability Advisory Group to the VP Education & Student Services regarding providing workshops for Faculty.	Workshops for Faculty to be considered by the Deans. Recommendation from the Environment & Sustainability Advisory Group for 2 workshops to be held in 2013/14.	2012	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	Not Yet Evaluated				No End Date (Continuous)
Provide education to staff about the conservation of water, energy, and raw materials	Ongoing/In Progress	Participated in Acts of Green on the the VCC Facebook page to encourage people to pledge green acts.	Participating in Earth Hour 2013	2012	No End Date (Continuous)
Provide green tips on staff website or in newsletters	Ongoing/In Progress	Information on green initiatives provided in the the weekly VCC Digest (electronic newsletter for staff and faculty), on the environment page of myVCC.ca	Information on green initiatives provided in the the weekly VCC Digest (electronic newsletter for staff and faculty), on the environment page of myVCC.ca	2012	No End Date (Continuous)
Provide sustainability education during new staff orientation	In Development	Information on greening initiatives at VCC to be provided as part of staff orientation.	Information on greening initiatives at VCC provided as part of staff orientation.	2013	No End Date (Continuous)
<b>Team-building</b>					
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	Completed (in Reporting Year)	Green Team established for VCC staff, faculty and students.		2012	2012
Provide resources and/or dedicated staff to support teams	In Development	Green Team established for VCC	Energy Manager Services contract to include support for Green Team and education/engagement.	2012	No End Date (Continuous)
Providing behaviour change education/training to teams (e.g., community-based social marketing)	In Development	Green Team established for VCC.	Behaviour change training for Green Teams and interested students to be considered for 2013 as part of Energy Manager Services contract.	2012	No End Date (Continuous)
<b>Other Sustainability Actions</b>					
<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	Construction and demolition contracts include reuse and recycling procedures.	Construction and demolition contracts include reuse and recycling procedures.	2012	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	Completed (in Previous Year)				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	Part of U-pass program (for students) and Translink Discount Bus Pass program (for Faculty and staff). Carpool spaces provided in parking lots.  Bike rack assessment completed to evaluate if there are enough bike racks suitably located at each campus.	More bike racks to be installed in front of Broadway Building B.	2012	2013
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	Not Yet				No End Date

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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
	Evaluated				(Continuous)
<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	Green procurement guidelines in development.	Green procurement guidelines to be established in 2013.	2012	2013
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	Green Purchasing guidelines in development.	Green purchasing guidelines to be released in 2013.	2012	2013
Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags	In Development	RFP in development for new janitorial services. Evaluation criteria will include the use of sustainable cleaning products.	New janitorial services vendor to be selected in early 2013. Sustainable cleaning products to be included in new contract.	2012	2013
<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	In March 2012, VCC pledged to eliminate the sale of bottled water on campus. In September 2012, VCC ended sales of bottled water on campus. Between March and September, we renovated 24 water fountains and added 4 new fountains with automatic bottle fillers and digital counters. Between Sept 2012 and March 2013, more than 60,000 reusable water bottles have been filled.  In July, 2012, a waste assessment and audit was completed for VCC to determine opportunities to increase landfill diversion.	At least two new water fountains with automatic bottle fillers and digital counters will be installed.  In 2013, new recycling programs will be launched at VCC including an increase in recycling bins throughout both campuses, and composting programs for the Culinary Arts School and both cafeterias.	2012	No End Date (Continuous)
Implement a hazardous waste reduction and disposal strategy	Ongoing/In Progress	Computer parts and monitors are repurposed and recycled through government surplus.  Batteries and fluorescent bulbs are recycled on campus through a voluntary program.	Voluntary recycling program for fluorescent bulbs, batteries and cell phones will be transitioned to a program run by VCC. Batteries and cell phone receptacles will be placed in the library at each campus.  VCC's first Electronics Recycling Day was held on February 7, 2013.	2012	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	Not Yet Evaluated				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	Not Yet Evaluated				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)

**Vancouver Community College  
Greenhouse Gas Emissions by Source  
for the 2012 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 3,000**

■ Stationary Fuel Combustion (Building Heating and Generators) and Electricity

■ Supplies (Paper)

**Offsets Applied to Become Carbon Neutral in 2012 (Generated May 27, 2013 11:52 AM)**

Total offsets required: **3,000**. Total offset investment: **\$75,000**. Emissions which do not require offsets: **0** \*\*

\*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.