

Carbon Neutral Government 2012

DOING OUR PART
TO CREATE CLEAN,
HEALTHY COMMUNITIES

JIM PATTISON CENTER OF EXCELLENCE,
Okanagan College



The Honourable Mary Polak

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BRITISH COLUMBIA

is recognized as a global leader in the fight against climate change and global warming, demonstrating to the world that a strong economy and environmental sustainability can in fact go hand in hand.

2012 marks the third consecutive year that B.C. has achieved carbon neutrality, an unprecedented achievement for provincial or state government in North America.

Carbon Neutral Government is fundamentally about leadership. We are working to put our government's carbon emissions house in order as we ask businesses, communities and individuals to do the same.

Through Carbon Neutral Government, we are demonstrating viable energy efficiency and conservation technologies, engaging British Columbians with a sustainability message, while working hard to reduce our own carbon footprint.

I am proud of our achievements to date and want to recognize the efforts of all public sector organizations across the province.

Together, we will build on our success and continue to lead in reducing our emissions while ensuring the next generation of British Columbians may also enjoy a clean, healthy environment.

*The Honourable Mary Polak,
Minister of Environment*

In May of this year (2013) the average global concentration of carbon dioxide (CO₂) in the atmosphere reached a new milestone – 400 parts per million. This is resulting in rising global surface temperatures, melting glaciers and sea ice, rising sea levels and increased severe weather events. The pace of climate change is staggering, and it presents one of the greatest threats to our generation.

In the face of the enormous challenge posed by climate change, the Government of British Columbia has made a strong commitment to action, and shown global leadership by becoming a Carbon Neutral Government in 2010 – and sustaining that leadership for a third consecutive year in 2012. This report summarizes the key results of this achievement with a focus on the 2012 year.

WHY *be* CARBON NEUTRAL?

Carbon neutrality is about achieving net-zero greenhouse gas (GHG) emissions – recognizing that government is responsible for the carbon pollution that it generates. The commitment to carbon neutrality covers the entire public sector including government offices, schools, post-secondary institutions, Crown corporations and hospitals.

Becoming carbon neutral demonstrates, in a concrete way, the government's commitment to taking action on climate change in its own operations.

CARBON NEUTRAL GOVERNMENT ALLOWS *the* PUBLIC SECTOR *to*:

1. Be a part of creating clean, healthy communities by deploying clean energy and new technologies in public buildings across B.C.
2. Save on energy costs that can be re-invested in public services like education and health care.
3. Engage 300,000 public servants in taking action on climate change, and in turn reach out to the two million British Columbians that work, learn in or visit government buildings each year.

HOW *do we* BECOME CARBON NEUTRAL?

Even with the best efforts to reduce GHG emissions, it is difficult, if not impossible, to get to zero emissions. To be carbon neutral (net-zero emissions), organizations reduce emissions as much as possible each year, measure any remainder and purchase an equivalent amount of reductions (offsets) to get to zero.

Pacific Carbon Trust is a Crown corporation, set up by the B.C. government in March 2008 to acquire high-quality, made-in-B.C., GHG offsets. Projects must meet stringent eligibility criteria set out in the Ministry of Environment's Emission Offsets Regulation. Most importantly, all offsets are validated and verified by independent, accredited professionals as meeting B.C.'s regulatory requirement.

FOUR STEP PROCESS

1. **MEASURE GHG EMISSIONS:**
what is measured is managed
2. **REDUCE:** *saving energy and costs*
3. **OFFSET:** *investing in clean-technology
and growing jobs across the province*
4. **REPORT:** *engaging the public and
demonstrating progress*

CARBON FOOTPRINT

For 2012, the B.C. public sector created **845,211 tonnes** of GHG emissions. Of this total, **92,913** do not require offsetting under regulation. The total offset investment made through Pacific Carbon Trust was **\$18,807,450** for **752,298 tonnes** of GHG emissions.

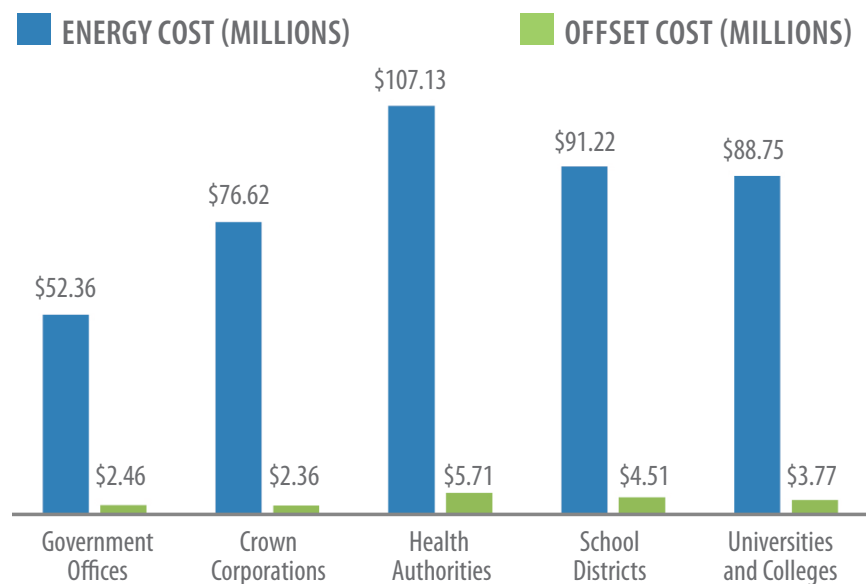
WHAT IS AN OFFSET?

A carbon offset represents **ONE TONNE LESS** of CO₂ in the atmosphere. It is created when an organization invests in real **EMISSION-REDUCING ACTIVITIES** (an offset).

Because **CLIMATE CHANGE** is a global issue, carbon emission reductions have an equal effect on climate change no matter where they occur. **OFFSET PROJECTS** can often drive down GHGs more cost-effectively than retrofitting buildings and equipment – but the **RESULT** is the same.

B.C. is beginning to bend the GHG emission curve downward.

Moving forward, our focus will be to support public sector organizations in managing their carbon footprint, and in realizing emission reductions that also reduce energy and operating costs. This is especially important as the public sector spends in excess of \$400 million each year on energy costs – many times more than is spent on carbon offsets, as shown in the figure below.



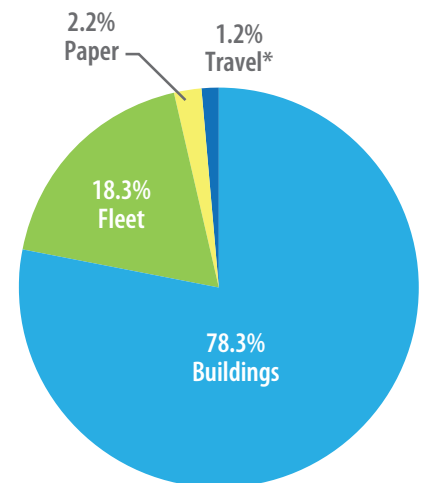
For every 1% improvement in energy efficiency, we can save over \$4 million in fuel costs each year. These savings can be re-invested in continued energy reductions, or into public services such as education and health.

Total GHG emissions from the public sector increased slightly between 2010 and 2012; however, overall performance improved as is shown in the table below.

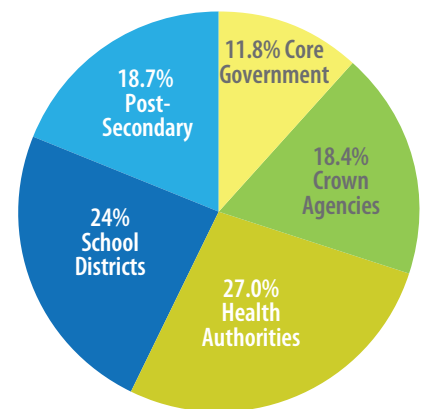
YEAR	EMISSIONS (TCO ₂ e)	CLIMATE NORMALIZED EMISSIONS (TCO ₂ e)
2010	812,065	860,170
2011	873,938	849,679
2012	845,211	848,707

As shown in the figure to the right, buildings are the greatest source of emissions in the public sector. See the Appendix for a breakdown of greenhouse gas emissions and offset investments by public sector organizations. It is important to consider that emissions from buildings change from year to year. A key reason for this is change in heating and cooling requirements due to variability in outside temperature. To enable year to year comparison, which shows overall building performance and efficiency improvements, emissions are adjusted for heating and cooling requirements.

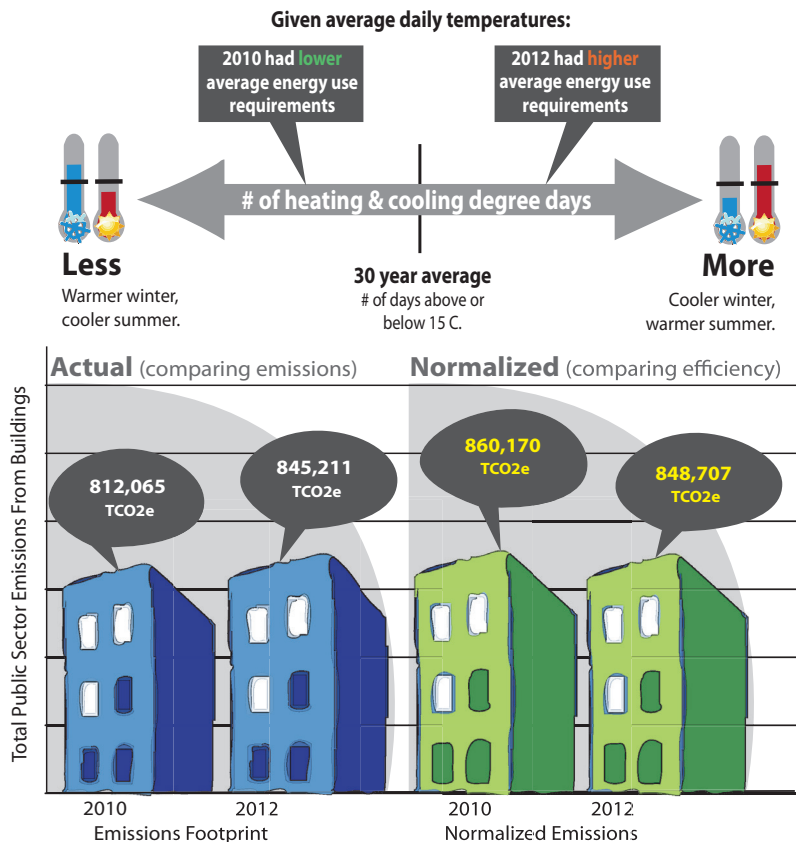
Variation in the climate is controlled by “normalizing” emissions. To do this, we take the average temperature profile for a 30-year period (the “normal”) and calculate the number of days that require buildings to use energy to heat or cool – temperatures above or below 15° C. We then compare that to the year under review to see if there was more or less energy required than normal.



B.C. Public Sector 2012 GHG Emissions by Source
*only core government reports on travel



B.C. Public Sector 2012 GHG Emissions by Sector



While the actual emissions footprint went up in 2012 from 2010, when we account for the impact of a warmer summer and cooler winter, our operations performed better regarding energy consumption in 2012 than in 2010.

“The number of buildings on campus has nearly tripled since 2006 but we’re seeing greater **ENERGY EFFICIENCIES** per square metre.”

~ Roger Bizzotto,
Director of Facilities
Management,
UBC Okanagan

Success stories that *inspire* innovation & action



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*"This exciting facility targets a major challenge facing society – the need for new, clean **ENERGY SOLUTIONS** that work at a community scale... This is a flagship example of UBC as a living laboratory, where researchers, staff, students and **PARTNERS** collaborate on innovations targeting the pressing **CHALLENGES** of our day."*

~ Stephen Toope,
UBC President

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Across B.C., the Carbon Neutral Government program is helping to create positive, on-the-ground change. The following are a collection of stories that demonstrate this shift towards sustainable behaviour and actions in public sector organizations.

UBC – VANCOUVER BIOENERGY *and* RESEARCH DEMONSTRATION FACILITY

Opened in September 2012, the bioenergy facility is one of three core projects that will achieve the ambitious GHG emissions target of 33% reduction by 2015 adopted in UBC's Vancouver Campus Climate Action Plan. The pioneering \$34-million clean energy facility, which runs on tree trimmings and wood waste diverted from local landfills, will generate enough clean electricity to power 1,500 homes.

The bioenergy facility, a combined heat and power system fuelled by biomass, is anticipated to supply up to 12% of UBC's heat requirements and up to 6% of the campus's average electrical demand when operating in the demonstration or cogeneration mode. In cogeneration mode, the system will generate four megawatts of carbon-neutral thermal energy, equivalent to the amount of natural gas to heat 1,200 homes.

The facility will reduce UBC's campus greenhouse gas emissions by 9% (5,600 tonnes). This is the equivalent of taking 1,000 cars off the road.

ISLAND HEALTH WINS *ENERGY and ENVIRONMENTAL STEWARDSHIP AWARD*

At the 2013 Awards Gala for the Canadian College of Healthcare Leaders, Vancouver Island Health Authority (VIHA) won the Energy and Environment Award over 900 other applicants from across the country.

The award recognizes a progressive healthcare organization that has implemented programs demonstrating environmental responsibility. The committee made special note of the efforts made to engage staff, utilities, other government agencies and the community.



CUT THE CARBON CAMPAIGN at the BC HOUSING MANAGEMENT COMMISSION

The Live Green Employee Council at BC Housing provides energy conservation programs for the workplace and home, promotion of alternative transport and sustainable food. Embracing positive change and developing a culture of action is a huge factor in the success of climate action initiatives. Results include:

- ▶ Compared to a 2005 baseline: 41% reduction of absolute greenhouse gas emissions and 67% reduction of emissions per employee related to office paper use leading to savings of almost 500 trees each year.
- ▶ 52% of employees are now using transit, bikes, car sharing or walking to work (which is higher than the City of Vancouver's Greenest City 2020 target of 50%).
- ▶ Significant increases in recycling and sustainable disposal practices at home.
- ▶ 72% of BC Housing employees indicated that they feel supported by BC Housing to make sustainable choices at home and at work – a contributing factor to BC Housing being named one of B.C.'s Top Employers and 50 Most Engaged Workplaces in Canada in 2012.

LOCAL FOOD – FROM FARM to TABLE at UNIVERSITY of VICTORIA

50% of the produce for UVic food services is grown on Vancouver Island. This supports local farmers and businesses and avoids GHG emissions from food that travels long distances.

REPORTING ON OUR ACTIONS

For more success stories about the public sector and to see what individual organizations across B.C. are doing, visit: www.LiveSmartBC.ca



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*"UVic's food purchasing policies result in **HEALTHY** and sustainable food options for students, staff and faculty. They also help nurture a **THRIVING** local food economy and increased **FOOD SECURITY** in the Capital Regional District."*
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~ Dr. James Rowe
UVic School of
Environmental Studies



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"ONE KEY TAKEAWAY was that it is very possible to repurpose existing facilities for new uses, without compromising architectural expression, thermal comfort or energy consumption."

~ Ray Wolfe. M.ARCH.AIBC,
Kwantlen Polytechnic University
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"In addition to reducing energy consumption, related costs and environmental impact, we have also been able to increase lighting levels on much of the campus, thus creating a **SAFER AND MORE SECURE** environment."

~ Adrian Hingston,
Assistant Director, Safety, Security
& Emergency Management, BCIT
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INVESTING *in* TRADES FACILITIES YIELDS REDUCED EMISSIONS, INCREASED SAVINGS

Kwantlen Polytechnic University has optimized the use of an existing facility by improving the energy performance of the building envelope. The revitalized space has improved energy performance and reduced operating costs thanks to a refurbished and better insulated building envelope combined with energy-efficient heating and lighting systems. Building energy and water consumption are being tracked using nine electrical meters, a gas meter, and water meters on both hot and cold water supply lines.

PROVINCE-WIDE INITIATIVE REDUCES PAPER COSTS

In 2012, ICBC ran a paper reduction campaign called "Cut The Paper" which included 28 ICBC claim centres. The campaign cut paper use by 500,000 sheets over a two month period, saving approximately \$4,770 in paper costs and four tonnes of GHG's.

"We just tried to get everyone into the paperless file mindset. That means electronic files instead of binders. It means thinking twice before printing or photocopying anything – asking yourself, 'Is this really needed?'"

~ Laura Coelho, Manager Administration Services,
Abbotsford Claim Centre

BCIT LIGHTING UPGRADE

BCIT has achieved energy and operational cost savings of an estimated 36,000 kWh per year through an ambitious lighting upgrade that replaces conventional bulbs with LEDs. LED parking lights represent a 50% reduction in energy consumption compared to the typical High Intensity Discharge lights. 40% of the parking lights on BCIT's Burnaby campus were replaced with 76 LED lights.



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ENERGY CONSERVATION and efficiency projects funded by the Public Sector Energy Conservation Agreement are expected to achieve annual energy cost **SAVINGS** of more than **\$12.6 MILLION**, while **REDUCING** GHG emissions by over **35,600 TONNES**.



COWICHAN VALLEY CLEAN FUEL UPGRADE

School District 79 in the Cowichan Valley removed two fuel oil furnaces and two stand-alone electric unit ventilators. They were replaced by a pair of condensing hot water boilers and five hot water unit ventilators. This improvement, combined with switching to natural gas from heating oil, produces 48.4% less GHG emissions than the original heating system. The building's overall GHG emissions have been reduced by 13.2% and the anticipated utility savings for this project are between \$5,000 and \$6,000 per year.

LEED BUILDINGS

School District 22 in Vernon has a new building constructed to the LEED Gold standard. It features geothermal heating as well as increased daylight and fresh air for a higher quality work environment.

"The cutting edge features create an optimal learning environment. Every classroom has large windows to increase day lighting, which helps improve student performance... Fresh air is mixed into the building's air supply and provides complete building air exchanges, which has health and productivity benefits."

~ Bev Rundell, Superintendent

UBCO DISTRICT ENERGY SYSTEM

In 2012, UBC Okanagan completed phase three of the geo-exchange system, which offsets natural gas consumption in 11 academic buildings on campus. The district energy system is an exceptional demonstration and educational opportunity, as the centrepiece for the university's sustainability efforts. Annual GHG savings of 431 tonnes of GHGs have been realized.

LESS GHG EMISSIONS at COLLEGE of the ROCKIES

College of the Rockies improved the lighting in its Trades Facility, dropping energy consumption and costs by one-third.

"Higher standard of lighting, coupled with decreased utility cost and BC hydro rebates make this project a no-brainer."

*~ Allan Knibbs, Manager, Facilities,
College of the Rockies*



*"By replacing older, inefficient, mechanical equipment with **NEW, EFFICIENT EQUIPMENT** and switching to a cleaner source of fuel we were able to improve user comfort, **REDUCE** utility costs and reduce our **CARBON FOOTPRINT** all at the same time."*

*~ Brian Branting,
Energy Manager,
School District 79*



CARBON NEUTRAL *for the* THIRD CONSECUTIVE YEAR

As with any leading policy, it is important for government to review and improve the Carbon Neutral Government program. Already, great strides have been made after consultations with public sector organizations and industry stakeholders.

Through the Carbon Neutral Capital Program (CNCP), announced in April 2012, **\$5 MILLION PER YEAR** is available to all school districts in B.C. **FOR ENERGY-EFFICIENCY PROJECTS.** This is greater than the amount school districts pay in carbon offsets annually.

Total energy
efficiency
capital funding
to school districts
(2008-2012)
\$23.2 Million

Total offset cost
since 2010
\$9.2 Million

KEY IMPROVEMENTS INCLUDE:

- ▶ Development of a diversified offset portfolio of 32 projects in all sectors of the economy and almost every region of B.C.;
- ▶ Completion of extensive engagements across the public sector, with offset professionals, and with academics and experts to improve our Carbon Neutral Government program;
- ▶ Elimination of reporting costs to the entire public sector;
- ▶ Assessment of an Electronic Data Exchange to improve the efficiency of tracking energy use and GHG emissions in the public sector;
- ▶ Implementation of a new Carbon Neutral Capital Program which has already provided \$10 million over two years in new capital funding to the K-12 sector;
- ▶ Creation of a Carbon Offset Advisory Panel to provide input to Pacific Carbon Trust on the development of its offset portfolio;
- ▶ Provision of greater transparency by publicly releasing the purchase price of every offset in Pacific Carbon Trust's portfolio; and,
- ▶ Initiation of a review to determine if the financial surplus currently generated from offset purchases should be used to lower public sector costs or invested to further reduce emissions.

VERIFICATION of PUBLIC SECTOR EMISSIONS

Deloitte and Touche LLP conducted an independent review of the consumption data used by selected public sector organizations (PSOs) for GHG emissions measurement and reporting. The review provided a level of assurance with respect to the emissions reports for the period from January 1, 2011 to December 31, 2011.

The following nine PSOs were reviewed:

1. School District 75 Mission
2. School District 68 Nanaimo/Ladysmith
3. BC Liquor Distribution Branch
4. Core Government
5. St. Joseph's Hospital
6. Royal Roads University
7. British Columbia Institute of Technology
8. Fraser Health Authority
9. BC Hydro

Deloitte found no material errors for eight of the PSOs. One PSO was found to have a material error in the data they used for their GHG emissions reporting. As a result, the source of the error was corrected and that organization's numbers were adjusted and reflected in the data for their 2012 reporting year. Deloitte made a number of recommendations to improve the quality of the data used and the processes used to collect this data. These recommendations are being implemented by each of the nine PSOs and will be used by the entire public sector in future reporting years.

IMPROVEMENTS to OFFSET PROCUREMENT

Over the past year, Pacific Carbon Trust implemented several internal process improvements. For greater transparency, the organization released the offset purchase prices paid to each project developer as well as benchmark ranges for each offset project type.

Pacific Carbon Trust also established a Carbon Offset Advisory Panel to guide the future development of the offset portfolio. The panel comprises representatives from the public sector.

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*"Broad representation on the Carbon Offset Advisory Panel will help ensure that offsets purchased for **CARBON NEUTRAL GOVERNMENT** not only meet the Province's world-class carbon regulations, but also **SUPPORT JOBS**, new innovation in clean technologies, and other important co-benefits in every region of the **PROVINCE**."*

~ Shawn Wilson, Trustee,
(Surrey) School District 36 and
board member, Carbon Offset
Advisory Panel (COAP)

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FRASER-FORT GEORGE LANDFILL

Through the value of offsets, the Regional District of Fraser-Fort George was able to build a highly efficient landfill gas capture system that prevents methane – a greenhouse gas 21 times more potent than carbon dioxide – from escaping into the atmosphere. The landfill serves a population of approximately 94,000 people, and receives approximately 93% of the regional waste.

NANWAKOLAS FOREST CONSERVATION

The Nanwakolas forest carbon offset project is located in B.C.'s South Central Coast, a pristine part of the Great Bear Rainforest. This region is renowned for its immense stands of trees – widely acknowledged for their ability to sequester large amounts of carbon. The project protects extensive areas of this forest that were previously slated for logging, increasing carbon stocks as the forest continues to grow.

Revenues from the project will help develop a conservation economy that will directly benefit the traditional First Nations stewards of the area, who are part of the Nanwakolas Council Society.

CARBON NEUTRAL OFFSET PORTFOLIO

A key feature of Carbon Neutral Government for 2012 is the continued evolution of the carbon offset portfolio. Through Pacific Carbon Trust, the Province invested in 26 offset projects created through forest carbon sequestration, energy efficiency and/or fuel switching activities. This year's portfolio includes:

- ▶ An award-winning clean biomass facility;
- ▶ Two community-based landfills; and
- ▶ Improved forest practices that are creating new low-carbon opportunities for coastal First Nations.

These projects have resulted in a reduction in GHG emissions over business-as-usual practices, created jobs in local communities across the province and stimulated innovation in the economy. It also provides the public sector with a cost-effective method to help achieve carbon neutrality.

Offset project proponents and public sector leaders alike are adopting new technologies and processes to build clean, healthy communities throughout the province. Examples include:

- ▶ Nexterra's award-winning biogasification system is creating carbon offsets for Kruger Products, with a similar technology in use at UNBC to forge an innovative Combined Heat and Power (CHP) partnership.
- ▶ Low-carbon cement, as is produced in LaFarge's Portland-limestone cement offset project, is approved for use in B.C. and is being used by the Ministry of Transportation and Infrastructure in a pilot project.

AN ENHANCED FOCUS *on* REDUCING GHG EMISSIONS

In view of experience through the first three years of Carbon Neutral Government, B.C. will strengthen its emphasis on the reduction of GHG emissions within the public sector.

A good example of this is the Carbon Neutral Capital Program, administered by the Ministry of Education, that provides \$5 million in funding each year to school districts across the province to undertake energy efficiency upgrades. Equally, government will provide strategic support to local governments that are showing leadership in the creation of clean and healthy communities.

The first three years of the Carbon Neutral Government program have enabled public sector organizations and government to become familiar with the framework

and to identify areas for continuous improvement. Specific areas of focus for 2013 will include:

- ▶ Continually improving and decreasing the costs of Carbon Neutral Government program delivery and support for the public sector.
- ▶ Increasing the focus on helping public sector organizations to further reduce their GHG emissions.
- ▶ Reviewing Pacific Carbon Trust and providing options for reform.

A key part of the anticipated work will be improving public sector organizations' capital planning to consistently account for climate risks. It will also be important to demonstrate the business case for technologies that reduce emissions or adapt to a changing climate in the public sector.



Appendix

B.C. PUBLIC SECTOR EMISSIONS *and* CARBON OFFSET INVESTMENTS

The “Total Emissions” reported meet the reporting requirements of the Carbon Neutral Government Regulation of the *Greenhouse Gas Reduction Targets Act*. As per the regulation, some of the reported emissions in the total do not require the purchase of offsets in order to reach carbon neutrality. This includes emissions from mobile or stationary combustion of biomass as well as emissions from bus fleets (school buses and BC Transit buses). The total offsets purchased matches the emissions requiring offsets. For more information on how the B.C. public sector measures emissions, please visit www.env.gov.bc.ca/cas/.

ORGANIZATION	Total Emissions (Tonnes)	Total Offsets Purchased (Tonnes)	Offset Investment (Dollars)
PUBLIC SECTOR TOTAL	845,211	752,298	\$18,807,450
CORE GOVERNMENT TOTAL	99,868	98,361	\$2,459,025
CROWN CORPORATIONS TOTAL	155,734	94,307	\$2,357,675
BC Assessment Authority	537	532	\$13,300
BC Games Society	7	7	\$175
BC Housing	26,096	26,021	\$650,525
BC Hydro	29,562	28,812	\$720,300
BC Innovation Council	5	5	\$125
BC Liquor Distribution Branch	3,898	3,874	\$96,850
BC Lottery Corporation	1,403	1,391	\$34,775
BC Pavilion Corporation	5,884	5,883	\$147,075
BC Transit	61,923	1,389	\$34,725
BC Securities Commission	201	201	\$5,025
Columbia Basin Trust	18	18	\$450
Columbia Power Corporation	33	32	\$800
Community Living BC	649	647	\$16,175
First Peoples Heritage, Language & Culture Council	2	2	\$50
Forestry Innovation Investment	156	156	\$3,900
Industry Training Authority	40	40	\$1,000
Insurance Corporation of BC	24,169	24,156	\$603,900
Knowledge Network Corporation	100	100	\$2,500
Legal Services Society	34	34	\$850
Oil and Gas Commission	392	384	\$9,600
Pacific Carbon Trust	2	2	\$50
Partnerships BC	35	35	\$875
Private Career Training Institutions Agency	5	5	\$125
Provincial Capital Commission	329	328	\$8,200
Royal BC Museum	180	179	\$4,475
Transportation Investment Corporation	74	74	\$1,850
HEALTH AUTHORITY TOTAL	228,548	228,349	\$5,708,725
Bella Coola General Hospital	246	237	\$5,925
Fraser Health Authority	41,352	41,340	\$1,033,500
Interior Health Authority	41,240	41,188	\$1,029,700
Louis Brier Home & Hospital	616	616	\$15,400
Menno Hospital	472	472	\$11,800
Mount St. Mary Hospital	452	451	\$11,275
Nisga'a Valley Health Authority	246	242	\$6,050
Northern Health Authority	23,982	23,949	\$598,725
Providence Healthcare	12,374	12,367	\$309,175
Provincial Health Services Authority	25,651	25,641	\$641,025
RW Large Memorial Hospital	135	135	\$3,375
St. Joseph's General Hospital	1,354	1,352	\$33,800
St. Michael's Center	383	383	\$9,575
Vancouver Coastal Health Authority	45,569	45,552	\$1,138,800
Vancouver Island Health Authority	34,417	34,365	\$859,125

ORGANIZATION	Total Emissions (Tonnes)	Total Offsets Purchased (Tonnes)	Offset Investment (Dollars)
Wrinch Memorial Hospital	59	59	\$1,475
POST SECONDARY TOTAL	158,378	150,746	\$3,768,650
British Columbia Institute of Technology	9,676	9,673	\$241,825
Camosun College	1,844	1,843	\$46,075
Capilano University	2,190	2,189	\$54,725
College of New Caledonia	2,702	2,700	\$67,500
College of the Rockies	856	829	\$20,725
Douglas College	2,039	2,039	\$50,975
Emily Carr University of Art & Design	910	910	\$22,750
Justice Institute of BC	715	712	\$17,800
Kwantlen Polytechnic University	2,666	2,665	\$66,625
Langara College	1,567	1,567	\$39,175
Nicola Valley Institute of Technology	497	496	\$12,400
North Island College	1,146	1,145	\$28,625
Northern Lights College	2,006	2,003	\$50,075
Northwest Community College	1,725	1,702	\$42,550
Okanagan College	1,607	1,604	\$40,100
Royal Roads University	1,272	1,270	\$31,750
Selkirk College	1,425	1,423	\$35,575
Simon Fraser University	17,827	17,819	\$445,475
Thompson Rivers University	4,111	4,104	\$102,600
University of British Columbia	72,112	68,115	\$1,702,875
University of Northern British Columbia	5,673	2,167	\$54,175
University of The Fraser Valley	3,270	3,269	\$81,725
University of Victoria	14,167	14,156	\$353,900
Vancouver Community College	3,000	3,000	\$75,000
Vancouver Island University	3,375	3,346	\$83,650
SCHOOL DISTRICT TOTAL	202,683	180,535	\$4,513,375
School District 05 <i>Southeast Kootenay</i>	3,478	2,856	\$71,400
School District 06 <i>Rocky Mountain</i>	2,009	1,450	\$36,250
School District 08 <i>Kootenay Lake</i>	2,873	1,966	\$49,150
School District 10 <i>Arrow Lakes (Nakusp)</i>	398	278	\$6,950
School District 19 <i>Revelstoke</i>	437	344	\$8,600
School District 20 <i>Kootenay-Columbia</i>	2,295	1,888	\$47,200
School District 22 <i>Vernon</i>	3,067	2,535	\$63,375
School District 23 <i>Central Okanagan (Kelowna)</i>	6,179	4,944	\$123,600
School District 27 <i>Cariboo-Chilcotin</i>	4,921	3,467	\$86,675
School District 28 <i>Quesnel</i>	2,453	1,727	\$43,175
School District 33 <i>Chilliwack</i>	2,825	2,036	\$50,900
School District 34 <i>Abbotsford</i>	4,964	3,976	\$99,400
School District 35 <i>Langley</i>	6,199	5,702	\$142,550
School District 36 <i>Surrey</i>	21,162	20,925	\$523,125
School District 37 <i>Delta</i>	3,733	3,678	\$91,950
School District 38 <i>Richmond</i>	7,189	6,938	\$173,450

ORGANIZATION	Total Emissions (Tonnes)	Total Offsets Purchased (Tonnes)	Offset Investment (Dollars)
School District 39 <i>Vancouver</i>	17,131	17,111	\$427,775
School District 40 <i>New Westminster</i>	2,285	2,283	\$57,075
School District 41 <i>Burnaby</i>	5,996	5,989	\$149,725
School District 42 <i>Maple Ridge</i>	3,393	3,387	\$84,675
School District 43 <i>Coquitlam</i>	9,967	9,946	\$248,650
School District 44 <i>North Vancouver</i>	4,903	4,821	\$120,525
School District 45 <i>West Vancouver</i>	1,727	1,724	\$43,100
School District 46 <i>Sunshine Coast</i>	1,329	1,324	\$33,100
School District 47 <i>Powell River</i>	1,204	991	\$24,775
School District 48 <i>Sea To Sky/Howe Sound</i>	2,179	1,791	\$44,775
School District 49 <i>Central Coast</i>	409	358	\$8,950
School District 50 <i>Haida Gwaii</i>	658	645	\$16,125
School District 51 <i>Boundary</i>	1,082	855	\$21,375
School District 52 <i>Prince Rupert</i>	1,214	1,191	\$29,775
School District 53 <i>Okanagan Similkameen</i>	791	578	\$14,450
School District 54 <i>Bulkley Valley</i>	1,450	1,070	\$26,750
School District 57 <i>Prince George</i>	6,251	6,238	\$155,950
School District 58 <i>Nicola-Similkameen</i>	1,069	866	\$21,650
School District 59 <i>Peace River South (Dawson Creek)</i>	4,109	2,980	\$74,500
School District 60 <i>Peace River North (Fort St. John)</i>	4,362	3,116	\$77,900
School District 61 <i>Greater Victoria</i>	6,387	6,362	\$159,050
School District 62 <i>Sooke</i>	3,175	2,695	\$67,375
School District 63 <i>Saanich</i>	2,298	1,910	\$47,750
School District 64 <i>Gulf Islands</i>	307	197	\$4,925
School District 67 <i>Okanagan Skaha (Penticton)</i>	2,003	1,900	\$47,500
School District 68 <i>Nanaimo-Ladysmith</i>	4,919	4,367	\$109,175
School District 69 <i>Qualicum</i>	2,669	1,897	\$47,425
School District 70 <i>Alberni</i>	1,749	1,541	\$38,525
School District 71 <i>Comox Valley</i>	2,510	2,504	\$62,600
School District 72 <i>Campbell River</i>	2,681	2,300	\$57,500
School District 73 <i>Kamloops/Thompson</i>	6,335	4,812	\$120,300
School District 74 <i>Gold Trail</i>	1,302	848	\$21,200
School District 75 <i>Mission</i>	2,334	1,972	\$49,300
School District 78 <i>Fraser-Cascade</i>	1,154	956	\$23,900
School District 79 <i>Cowichan Valley</i>	3,026	2,432	\$60,800
School District 81 <i>Fort Nelson</i>	638	629	\$15,725
School District 82 <i>Coast Mountains</i>	2,686	2,680	\$67,000
School District 83 <i>North Okanagan-Shuswap</i>	3,642	2,582	\$64,550
School District 84 <i>Vancouver Island West</i>	249	221	\$5,525
School District 85 <i>Vancouver Island North</i>	847	720	\$18,000
School District 87 <i>Stikine</i>	452	451	\$11,275
School District 91 <i>Nechako Lakes</i>	3,431	2,443	\$61,075
School District 92 <i>Nisga'a</i>	154	99	\$2,475
School District 93 <i>Conseil Scolaire Francophone</i>	2,044	2,043	\$51,075

