

# Bella Coola General Hospital - 2012 Carbon Neutral Action Report

## Executive Summary



Owned and operated by the United Church of Canada and located in Bella Coola, Bella Coola General Hospital (BCGH) is a 2802 square meter 15 bed facility comprised of 10 acute care beds, 5 residential beds and provides services of Acute/Emergency, Residential, Mental Health, Public Health, Home & Community Support, Addictions, and Transit to the whole of Bella Coola Valley (Population about 1,900). The Bella Coola Valley encompasses the settlements of Bella Coola, Lower Bella Coola, Hagensborg, Saloompt. Nusatsum. Firvale and Stueie, and include nearby marine-access settlements such as Tallheo. The Nuxalk, an indigenous people of the area, where in the past referred to as the Bella Coola.

The Bella Coola General Hospital is affiliated with Vancouver Coastal Health (VCH) and receives its funding for the core programs through VCH in keeping with the affiliation agreement.

Bella Coola General Hospital was constructed in 1979 and a number of renovations and upgrades that support and enhance the medical services, safety, and accessibility building and energy efficiency were implemented in 1998 and in 2002 and these include:

- Metal Roof Upgrade and Insulation in 1998. (A.2)
- New lab and radiology area renovated in 2002. (A.2)
- During a major renovation in 2002, approximately two thirds of the roof was replaced and reinsulated. (A.2)
- Exterior wood frame walls were seismically upgraded in 2002 . (A.2)
- Patient wards, public washrooms, the tub and shower rooms were upgraded to meet accessibility standards in 2002
- Fire protection was installed throughout in 2002.

- The HVAC and fire Alarm System were upgraded and a new generator installed in 2002.
- Some but not all of the building lighting was retrofitted from old and inefficient T12 fluorescent lighting and magnetic ballasts to energy efficient T8 fluorescent lighting and electronic ballasts in 2002. (A.2)

We are committed to develop and maintain the best possible practices and policies for the health and safety of our residents, our staff, our community and our environmental health. While we are also committed to implement sustainability and energy efficiency measures and develop collaborative partnerships with external agencies and service providers to reduce our Green House Gas (GHG) emissions and our Carbon Footprint in preparation for carbon neutrality in 2012, our remote and isolated community and financial and staff resources represent challenges to meet our environmental obligations.

## Overview:

### **Actions Taken to Reduce Greenhouse Gas Emissions - 2012**

No environmental and/or energy efficiency initiatives were implemented in 2012 to reduce Green House Gas Emissions (GHG).

### **2012 Greenhouse Gas Emissions**

Bella Coola General Hospital (BCGH) currently owns or leases the following facility space:

Organizational Information as of December 31, 2011		
How Much space (square meters) is within your building portfolio?	<b>2802</b>	usable square meters
How many buildings are in your portfolio?	<b>2</b>	distinct buildings
What percentage of your building portfolio is leased (leased square meters over total portfolio square meters)?	<b>0</b>	percent leased
What percentage of your building portfolio is owned (owned square meters over total portfolio square meters)?	<b>100</b>	percent owned

BCGH has calculated its 2012 carbon footprint in accordance with the *Greenhouse Gas Reduction Targets Act* (as reported in SMARTTool

	Bella Cool General Hospital	
	2011 - tCO2e	2012 - tCO2e
Scope 1 - Mobile Fuel Combustion (Fleet & other mobile equipment)	0.24	0.24
Scope 1 - Stationary Combustion (Reported)	259.46	220.09
Scope 2 - Purchased Energy (Reported)	12.52	12.50
Scope 3 - Office Paper Emissions	4.99	4.63
Emissions from Biomass	10.19	8.65
Total Emissions - Calendar year	287.40	246.11
Total for Offsets	277.21	237.46

Note:

1. Total mobile fuel consumption is not currently available
2. Total paper supplies computation not currently available

## Plans to Continue Reducing Greenhouse Gas Emissions 2013

While no environmental and/or energy efficiency measures are planned for 2013, due to lack of financial and staff resources, we will continue to encourage staff awareness to support energy reduction and sustainability activities. We will also implement other initiatives that will contribute to our goal of reducing Greenhouse Gas Emissions (GHG) and reduce our carbon footprint and to support our environmental commitments.

Our remote and isolated community and financial and staff resources represent challenges to meet our environmental obligations.

A handwritten signature in blue ink, appearing to read "M. J. Blair" or similar, is centered on the page.

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### 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>Stationary Fuel Combustion, Electricity</b>					
<b>IT power management</b>					
Apply auto-sleep settings on computer monitors and CPUs	Ongoing/In Progress	as part of VCH	as part of vch	2012	No End Date (Continuous)
Apply auto-sleep settings on printers, fax machines, and/or multi-function devices	Completed (in Previous Year)				No End Date (Continuous)
<b>Retrofit details for owned buildings</b>					
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress	Report submitted to VCH for review and discussion	continue to request funding until received	2013	No End Date (Continuous)
<b>Supplies (Paper)</b>					
<b>Behaviour change program</b>					
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress	do this wherever possible	do this wherever possible	2011	No End Date (Continuous)
<b>Electronic media in place of paper</b>					
Use electronic document library for filing common documents	Ongoing/In Progress	documents are saved electronically for All Staff	documents are saved electronically - for All Staff	2012	No End Date (Continuous)
<b>Printer/document settings</b>					
Switch networked printers and photocopiers to automatic double-sided	Ongoing/In Progress	setting is selected as required	setting is selected as required	2011	No End Date (Continuous)

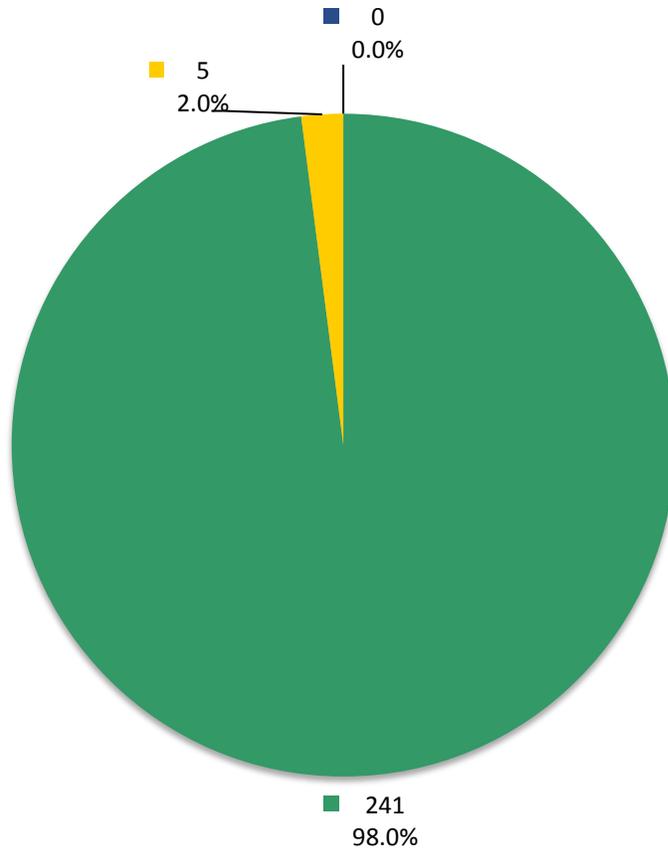
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### Actions to Reduce Provincial Emissions and Improve Sustainability

The actions listed below contribute to a reduction in greenhouse gas emissions from sources that fall outside of the reporting requirements defined in the carbon neutral government regulation of the Greenhouse Gas Reduction Targets Act. Public sector

Action	Status	Steps Taken	Steps Planned	Start Year	End Year
<b>Business Travel</b>					
<b>Behaviour change program</b>					
Train staff in web-conferencing	Ongoing/In Progress	done wherever possible	done wherever possible	2011	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress	done wherever possible	done wherever possible	2011	No End Date (Continuous)
<b>Virtual meeting technology</b>					
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Ongoing/In Progress	intalled and working	intalled and working	2011	No End Date (Continuous)
Make desktop web-cameras available to staff	Ongoing/In Progress	installed and working	installed and working	2012	No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Ongoing/In Progress	installed and working	installed and working	2010	No End Date (Continuous)
<b>Other Sustainability Actions</b>					
<b>Commuting to and from home</b>					
Provide shower or locker facilities for staff/students who commute by foot or by bicycle	Ongoing/In Progress	provided	provided	2008	No End Date (Continuous)
Provide secure bicycle storage	Ongoing/In Progress	provided	provided	2008	No End Date (Continuous)
<b>Other Sustainability Actions</b>					
changed product to Ultra Chem Sytem as safer for the user the environment and the linens and fabric as well as reduced cost. Reduces costs in all areas	Ongoing/In Progress	Changed product to Ultra Chem System as safer for the user, the environment and the linens and fabric as well as reduced cost. Reduces costs in all areas	Changed product to Ultra Chem System as safer for the user, the environment and the linens and fabric as well as reduced cost. Reduces costs in all areas	2012	No End Date (Continuous)
<b>Procurement (non-paper supplies)</b>					
Establish green standards for goods that are replaced infrequently and/or may require capital funds to purchase (e.g., office furniture, carpeting, etc.)	Ongoing/In Progress	Paper supplies are purchased - Sustainable Forestry Initiative products	Paper supplies are purchased - Sustainable Forestry Initiative products	2012	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	composting of kitchen waste is done recycling of items taken at local recycle depot is done	composting of kitchen waste is done recycling of items taken at local recycle depot is done	2011	No End Date (Continuous)
Implement a hazardous waste reduction and disposal strategy	Ongoing/In Progress	disposal of electronics is done through local recycling program and as per vch policy	disposal of electronics is done through local recycling program and as per vch policy	2011	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 Reporting Year)	installed auto faucets where possible and auto flush toiles		2012	2012

**Bella Coola General Hospital  
Greenhouse Gas Emissions by Source  
for the 2012 Calendar Year (tCO<sub>2</sub>e\*)**



**Total Emissions: 246**

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

**Offsets Applied to Become Carbon Neutral in 2012 (Generated May 27, 2013 10:58 AM)**

Total offsets required: **237**. Total offset investment: **\$5,925**. Emissions which do not require offsets: **9** \*\*

\*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.