

Bella Coola General Hospital - 2011 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 Stuie, 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 2011, 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 - 2011

No environmental and/or energy efficiency initiatives were implemented in 2011 to reduce Green House Gas Emissions (GHG).

2011 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?	2802	usable square meters
How many buildings are in your portfolio?	2	distinct buildings
What percentage of your building portfolio is leased (leased square meters over total portfolio square meters)?	0	percent leased
What percentage of your building portfolio is owned (owned square meters over total portfolio square meters)?	100	percent owned

BCGH has calculated its 2011 carbon footprint in accordance with the *Greenhouse Gas Reduction Targets Act* (as reported in SMARTTool)

				Bella Coola General Hospital	
				2010 - tCO2e	2011 - tCO2e
Scope 1 - Mobile Fuel Combustion (Fleet & other mobile equipment)				0.23	0.24
Scope 1 - Stationary Combustion (Reported)				258.42	259.46
Scope 2 - Purchased Energy (Reported)				12.97	12.52
Scope 3 - Office Paper Emissions				4.87	4.99
Emissions from Biomass				7.01	10.19
Total Emissions - Calendar Year				283.5	287.4
Total for Offsets				276.49	277.21

Offsets Applied to Become Carbon Neutral in 2011

The following chart indicates the tCO₂e reported in 2011 as well as the total expenditure on carbon offsets to ensure Bella Coola General Hospital was Carbon Neutral during this calendar year

	Bella Coola General Hospital (BCGH)	
	2010	2011
Total Carbon Footprint - tCO ₂ e	276.49	277
Purchased CO ₂ Offsets	\$6,925	\$6,925
Purchased CO ₂ Offsets + HST	\$7,756	\$7,756

Plans to Continue Reducing Greenhouse Gas Emissions 2012

While no environmental and/or energy efficiency measures are planned for 2012, 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.

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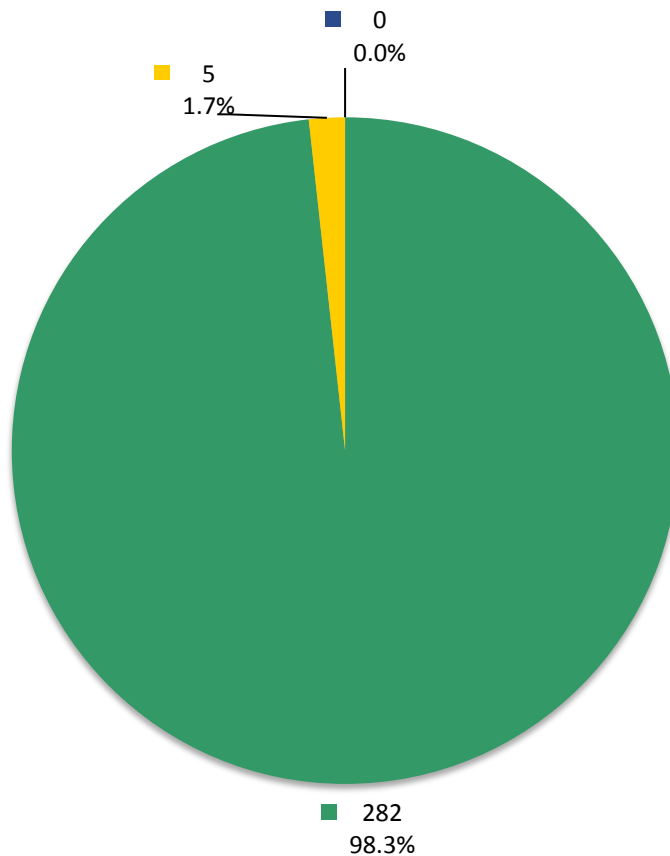
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Actions Towards Carbon Neutrality							
The actions listed below contribute to a reduction in greenhouse gas emissions from sources for which public sector organizations are responsible under the carbon neutral government regulation of the <i>Greenhouse Gas Reduction Targets Act</i> .							
Action	Status (as of 12/31/11)	Performance to Date (as of 12/31/11)		Steps Taken in 2011	Steps Planned for 2012 -2014	Start Year	End Year
Mobile Fuel Combustion (Fleet and other mobile equipment)							
Vehicle fuel efficiency							
Perform regular fleet maintenance specifically to improve fuel-efficiency	Ongoing/In Progress	100	% of vehicles are subject to regular maintenance for fuel efficiency	small car, not really applicable	small car not really applicable	2010	No End Date (Continuous)
Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)							
This section is either not applicable, not yet evaluated, or was completed before 2011							
Supplies (Paper)							
Behaviour change program							
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress			discussion with staff	discussion with staff	2010	No End Date (Continuous)
Encourage re-use of scrap paper	Ongoing/In Progress			continues	continues	2007	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 <i>Greenhouse Gas Reduction Targets Act</i> . Public sector organizations can optionally use this section to report on actions that will help British Columbia meet its provincial greenhouse gas reduction targets, engage the public, and improve environmental sustainability across all aspects of their organization.							
Action	Status (as of 12/31/11)	Performance to Date (as of 12/31/11)		Steps Taken in 2011	Steps Planned for 2012 -2014	Start Year	End Year
Business Travel							
Virtual meeting technology							
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Completed in 2011	5	% of computers have web-conferencing software installed	done		2011	No End Date (Continuous)
Make desktop web-cameras available to staff	Ongoing/In Progress	5	% of staff have access to a desktop web-camera	done	done	2011	No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Completed in 2011	100	% of meeting rooms have access to video-conferencing equipment	done	done	2011	No End Date (Continuous)
Behaviour change program							
Train staff in web-conferencing	Ongoing/In Progress	5	% of staff are trained web-conferencing	done	done	2011	No End Date (Continuous)
Train staff in video-conferencing or provide technical support for video-conferencing set-up	Ongoing/In Progress	100	% of staff are trained in video-conferencing or have access to technical support	done	done	2011	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress			budget impact of distance travel	budget	2007	No End Date (Continuous)
Other Sustainability Actions							
Procurement (non-paper supplies)							
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			no funds to purchase office furniture	no funds	2011	No End Date (Continuous)
Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags	Ongoing/In Progress			as funds allow	as funds allow	2011	No End Date (Continuous)
Require a minimum purchase of sustainable, and organic food and beverages supplied by contracted food suppliers or caterers	Ongoing/In Progress	0	% of the combined total food and beverage purchase (in cost) meets these requirements	funds do not allow purchasing higher cost food products	funds to not allow purchasing higher cost food products	2011	No End Date (Continuous)

**Bella Coola General Hospital
Greenhouse Gas Emissions by Source
for the 2011 Calendar Year (tCO₂e*)**



Total Emissions: 287

- 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 2011 (Generated May 18, 2012 10:49 AM)

Total offsets required: **277**. Total offset investment: **\$6,925**. Emissions which do not require offsets: **10** **

*Tonnes of carbon dioxide equivalent (tCO₂e) 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.