

R.W. Large Memorial Hospital - 2012 Carbon Neutral Action Report

Executive Summary



R.W. Large Memorial Hospital is a 3,114 square meter 15 bed Acute/Residential care hospital owned and operated by the United Church of Canada and located on the Heiltsuk First Nation reserve at Bella Bella , also called by the traditional name of 'Waglisla'. Affiliated with VCH, the Hospital provides basic acute care, long term care and medical services. Bella Bella is home to the Heiltsuk First Nation (population 1,500) and the Hospital serves the Heiltsuk , who have lived in the area for over 10,000 years, as well as residents of Denny island, Klemtu and Ocean Falls, transient mariners, loggers and tourists. The community of Bella Bella , or called by the traditional name of 'Waglisla", is located in an area of the central coast of British Columbia coastline called the 'Great Bear Rainforest' and offers some of the world's best fishing, whale watching, kayaking, hiking, and other outdoor pursuits and has a population of 2,000 (Aboriginal and non Aboriginal).

R.W. Large memorial hospital was constructed in 1975 and a number of renovations and upgrades that support and enhance building and energy efficiency were implemented in 1993, 1995, 1996-1997, 2003, and 2010 and these include:

- Boilers and mechanical updated in 1995. (A.2)
- Roof replaced and insulated in 1993. (A.2)
- Exit lights replaced to energy efficient LED lighting in 1996-97. (A.2)
- DDC (Direct Digital Controls) building automation systems installed in 1996-97. (A.2)
- Building envelope replaced and insulated in 2003. (A.2)
- Metal windows replaced with vinyl double glazed windows in 2003. (A.2)
- Total building lighting retrofitted from old and inefficient T12 34-watt fluorescent lighting and magnetic ballasts to energy efficient T8 25-watt fluorescent lighting and programmed-start electronic ballasts. (A.2)
- The Heiltsuk First Nation band is currently in the process of planning for a community-wide recycling . program. (B.6)

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 key environmental initiatives were implemented in 2012.

2012 Greenhouse Gas Emissions

R.W. Large memorial Hospital 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?	3114	usable square meters
How many buildings are in your portfolio?	3	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

R.W. Large Memorial Hospital has calculated its 2012 carbon footprint in accordance with the **Greenhouse Gas Reduction Targets Act** (as reported in SMARTTool)

	RW Large Memorial Hospital	
	2011 - tCO2e	2012 - tCO2e
Scope 1 - Mobile Fuel Combustion (Fleet & other mobile equipment)	0.24	0.24
Scope 1 - Stationary Combustion (Reported)	147.86	119.33
Scope 2 - Purchased Energy (Reported)	11.28	11.10
Scope 3 - Office Paper Emissions	4.99	4.64
Emissions from Biomass	0.01	0.01
Total Emissions - Calendar year	164.37	135.31
Total for Offsets	164.36	135.30

Note:

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

Offsets Applied to Become Carbon Neutral in 2012

The following Chart indicates the tCO₂e reported in 2012 as well as the total expenditure on carbon offsets to ensure R.W. Large Memorial Hospital was Carbon Neutral during the calendar year.

Plans to Continue Reducing Greenhouse Gas Emissions 2012

- Staff are continually reminded to be aware of energy usage – turning off lights and turning down the thermostats in the Housing units when not in the apartments to reduce heating costs. This will be addressed again in future staff meetings.(A.2)

While no other key environmental initiatives are planned for 2013, we will continue to investigate and introduce other actions that will contribute to our goal of implementing sustainability initiatives and reducing Greenhouse Gas Emissions (GHG) and Carbon Footprint within our financial and staff resources.

A handwritten signature in blue ink, appearing to read "Michelle DuLong", is centered on the page.

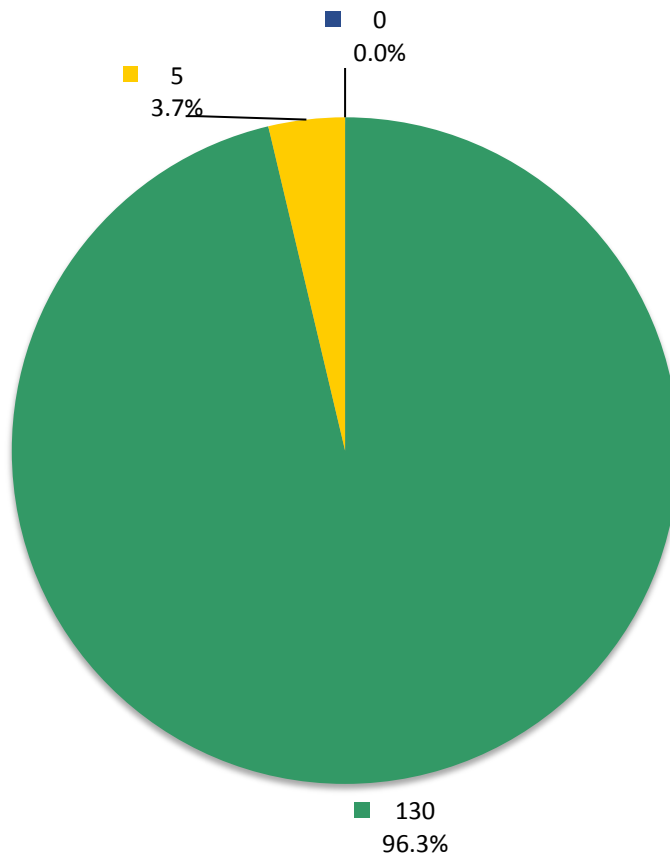
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Actions Towards Carbon Neutrality					
The actions listed below contribute to a reduction in greenhouse gas emissions from sources for which public sector organizations are responsible under the carbon neutral government regulation of the Greenhouse Gas Reduction Targets Act.					
Action	Status	Steps Taken	Steps Planned	Start Year	End Year
Stationary Fuel Combustion, Electricity					
Behaviour change program					
Provide reminders for turning off lights (e.g., signs, stickers, messages)	Completed (in Previous Year)				No End Date (Continuous)
Retrofit details for owned buildings					
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress	Applied to Vancouver Coastal Health Authority for funding to carry out recommended upgrades repairs to systems as identified in the Heating and Ventilation Assessment Report January 2013 done by FWD Engineering Ltd.	continue to apply for funds to do above	2013	No End Date (Continuous)
Supplies (Paper)					
Electronic media in place of paper					
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	Ongoing/In Progress	moving inhouse payroll to Vancouver Coastal Health Authority	payroll move	2013	2013
Printer/document settings					
Switch networked printers and photocopiers to automatic double-sided	Completed (in Previous Year)				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
Business Travel					
Behaviour change program					
Train staff in web-conferencing	Completed (in Previous Year)				No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Completed (in Previous Year)				No End Date (Continuous)
Virtual meeting technology					
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	Completed (in Previous Year)				No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Completed (in Previous Year)				No End Date (Continuous)
Other Sustainability Actions					
Commuting to and from home					
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	Completed (in Previous Year)				No End Date (Continuous)
Waste reduction/diversion					
Put in place an operations policy to facilitate the reduction and diversion of building occupant waste from landfills or incineration facilities	Ongoing/In Progress	recycling is ongoing	continue	2011	No End Date (Continuous)
Implement a hazardous waste reduction and disposal strategy	Ongoing/In Progress	continue with hazardous waste management	continue	2010	No End Date (Continuous)

RW Large Memorial Hospital Greenhouse Gas Emissions by Source for the 2012 Calendar Year (tCO₂e*)



Total Emissions: 135

- 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 11:12 AM)

Total offsets required: **135**. Total offset investment: **\$3,375**. Emissions which do not require offsets: **0** **

*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.