



# The United Church Health Services Society

*Affiliated with Northern Health Authority and Vancouver Coastal Health Authority*

## Wrinch Memorial Hospital

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### **Wrinch Memorial Hospital 2010 Carbon Neutral Action Report**

#### **Executive Summary**

Wrinch Memorial Hospital is pleased to submit their 2010 Carbon Action Neutral Report outlining the actions we have taken to address greenhouse gas emissions in this past year and our plans for the future.

Global warming caused by greenhouse gas emissions is a concern to our staff, patients and the community in which we provide health services. Although we are a small facility with a minimal global environmental impact, we endeavour to do our part in the effort to reduce GHG emissions.

Recognizing that greenhouse gas reduction needs everyone to work together, we are partnering Northern Health in our efforts toward reductions and we support the initiatives they have undertaken in the past year and going forward.

As we move forward into 2011, we look forward to continuing our efforts to reduce carbon emissions, through ongoing projects, awareness and operational solutions. Wrinch Memorial Hospital is committed to sustainable actions and leaving a healthy environment for the future populations of our community

Edward David  
Health services Administrator, Wrinch Memorial Hospital

### **2010 Greenhouse Gas Emissions**

Heating, lighting, ventilation and other building operations necessary to maintain a healthy patient and workplace environment resulted in the emission of 48 tonnes of carbon and carbon equivalents into the atmosphere. In addition, paper consumption added the release of 11 tonnes of carbon equivalent emissions. In total, Wrinch Memorial Hospital had a measured carbon footprint of 59.5 tonnes for the delivery of healthcare in the community of Hazelton.

### **Offsets Applied to Become Carbon Neutral in 2010**

Wrinch Memorial Hospital purchased 59.5 tonnes of carbon offsets to counter the emissions identified above, thereby achieving carbon neutrality in accordance with, and as defined by, government legislation.

### **Emissions Reduction Activities**

Wrinch Memorial Hospital continued its ongoing efforts in 2010 to reduce carbon emissions from its operations.

### **Actions Taken to Reduce Greenhouse Gas (GHG) Emissions in 2010**

Understanding where opportunities may lie was a key element for Wrinch in 2010. To help us in this effort, Wrinch commissioned an energy audit of the facility. The physical audit was conducted in 2010 and the written report is expected in early 2011.

Recognizing that well maintained equipment runs more efficiently, Wrinch continued its efforts to keep all equipment maintenance up to date. A number of older systems were investigated and reviewed for operating improvement potential.

As in previous years, Wrinch continues to minimize its GHG footprint from carbon based fuels by selecting to heat its facility primarily through the use of electricity, which has a significantly lower carbon footprint.

Through its partnership with Northern Health, Wrinch is an active partner in the BC Hydro Power Smart program and was pleased to take advantage of partner funding to support the cost of the energy audit.

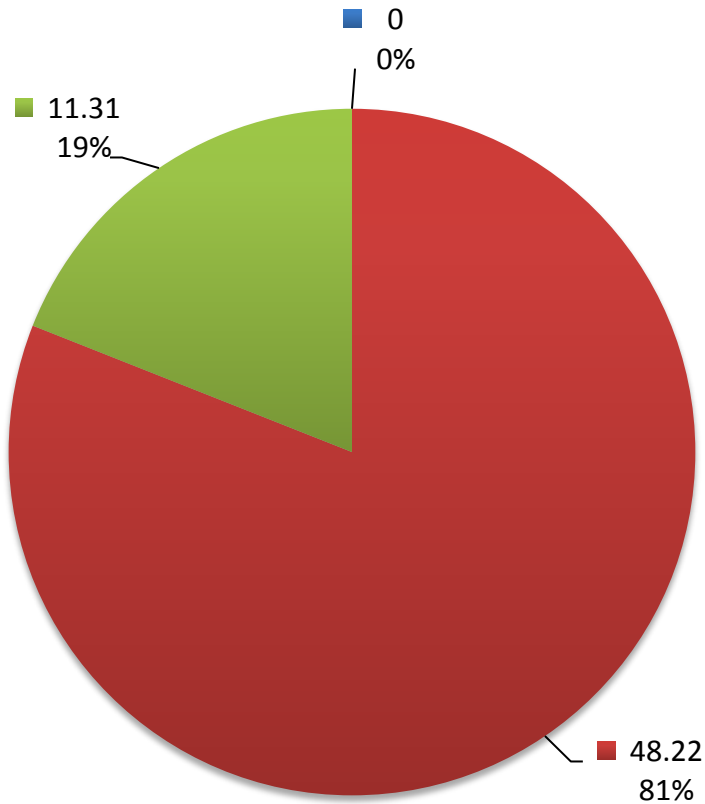
Helping to reduce emissions generated by our staff and patients, we continue to partner with BC Transit to provide public transit service directly to the front door of our facility.

### **Plans to Continue Reducing Greenhouse Gas Emissions**

In 2011 and going forward we will continue to improve building systems, including energy-efficient solutions as funding permits. We look forward to the results of the energy audit and being able to implement key findings where possible. We will continue to work with our community in community awareness

opportunities as they may arise in the coming year and partner with Northern Health in their own efforts to reduce greenhouse gases.

# Wrinch Memorial Hospital Greenhouse Gas Emissions by Source for the 2010 Calendar Year (tCO<sub>2</sub>e\*)



**Total Emissions: 59.53**

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion and Electricity (Buildings)
- Supplies (Paper)

## Offsets Applied to Become Carbon Neutral in 2010

Total offsets purchased: **59.53**. Total offset investment: **\$1,488.25**. 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.

# Wrinch Memorial Hospital - 2010 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 (as of 12/31/10)	Performance to Date (as of 12/31/10)	Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
<b>Mobile Fuel Combustion (Fleet and other mobile equipment)</b>						
This section is either not applicable, not yet evaluated, or was completed before 2010						
<b>Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)</b>						
<b>Owned buildings</b>						
Establish energy performance baseline for owned buildings	Ongoing/In Progress		Through Northern Health employed a comprehensive business intelligence software tool to track and monitor energy consumption, including consumption, intensity, comparative use and cost. Receive a monthly electronic report on current and historical cost and consumption information	Use data to track improvements and to target reductions, track carbon emissions data for Smarttool entry	2009	No End Date (Continuous)
Incorporate integrated design process into new construction or during renovations of owned buildings	In Development			Will incorporate as major new construction or renovations come along in the future.	2010	No End Date (Continuous)
Incorporate a refrigerant management strategy into regular building management/maintenance to reduce fugitive emissions	Ongoing/In Progress		Plant Maintenance personnel are familiar with legislative requirements to capture refrigerant.	Ongoing	2008	No End Date (Continuous)
Complete energy retrofits on existing, owned buildings	Ongoing/In Progress		Commissioned whole building energy audit, to be completed in 2011. Completed multiple building envelope retrofits prior to 2010	Obtain completed energy audit report	2008	No End Date (Continuous)
<b>Retrofitting owned buildings</b>						
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress		Completed a review of building systems for operational efficiency	Continue to review systems and implement improvements	2009	No End Date (Continuous)
<b>Behaviour change program</b>						
Help staff reduce personal energy use through "workstation tune-ups"	In Development		In 2010 Northern Health initiated a Workplace Energy Conservation Awareness pilot program to be rolled out to 5 sites	Initial development undertaken in 2010 to be put into action in 2011 and 2012 at Wrinch	2010	2012
Encourage staff to use air dry setting on dishwashers	Ongoing/In Progress		Renovations do not include the installation of dishwashers for personal / office dishes	Continue current practice	2006	No End Date (Continuous)
Provide reminders for turning off lights (e.g., signs, stickers, messages)	In Development		In 2010 Northern Health initiated a Workplace Energy Conservation Awareness pilot program to be rolled out to 5 sites	Initial development undertaken in 2010 will be put into action in 2011 and 2012.	2010	2012
<b>Other Stationary Fuel Combustion and Electricity Actions</b>						
Energy Manager	Ongoing/In Progress		Work with Northern Health Energy Manager as applicable at Wrinch	Continue to access the services of the Energy Manager for energy conservation initiatives	2007	No End Date (Continuous)
<b>Supplies (Paper)</b>						
<b>Paper Type</b>						
Purchase 30% post-consumer recycled paper	Ongoing/In Progress		Purchased 30% recycled content paper for part of our paper needs	Continuation of purchasing practices	2008	No End Date (Continuous)

## Wrinch Memorial Hospital - 2010 Carbon Neutral Action Report

Action	Status (as of 12/31/10)	Performance to Date (as of 12/31/10)	Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
Purchase 100% post-consumer recycled paper	In Development			Continue to monitor and implement as appropriate	2008	No End Date (Continuous)
<b>Electronic media in place of paper</b>						
Post materials online that were previously printed	Completed in 2010		Moved to electronic only posting of job postings		2009	2010
Switch to an electronic payroll notification system in place of paper pay stubs	Ongoing/In Progress		Provided all employees with electronic access to enable electronic pay stubs	Will be implementing electronic pay stubs in 2011	2009	2011
<b>Behaviour change program</b>						
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	In Development		Through ongoing paper awareness campaign, corporate initiatives to reduce paper consumption (e.g.: electronic postings and notifications) and informal encouragement of paperless meetings	Continue effort toward paper reduction	2008	No End Date (Continuous)
<b>Other Paper Supplies Actions</b>						
Paper Usage Reduction Awareness	Ongoing/In Progress		Northern Health - wide paper consumption awareness was published along with a reminder to reduce printing where possible	Continue to publish annual consumption data with related facts (i.e. trees consumed, carbon emitted etc)	2009	No End Date (Continuous)

# Wrinch Memorial Hospital - 2010 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 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 12/31/10)	Performance to Date (as of 12/31/10)	Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
<b>Business Travel</b>						
<b>Virtual meeting technology</b>						
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Completed in 2010		Installed LiveMeeting on the remaining affected computers to enable web conferencing		2010	2010
Make desktop web-cameras available to staff	Completed in 2010		Cameras provided to requesting employees		2010	2010
<b>Behaviour change program</b>						
Train staff in web-conferencing	Ongoing/In Progress		Training provided by Information Technology on as requested basis	Ongoing training and technical support will be provided	2009	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress		Ongoing efforts to undertake virtual meetings and reduce travel	Continue efforts	2009	No End Date (Continuous)
<b>Education, Awareness, and Engagement</b>						
<b>Team-building</b>						
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	Ongoing/In Progress		In 2010 Northern Health initiated a Workplace Energy Conservation Awareness pilot program to be rolled out to 5 sites. Sites will identify Energy Champions to lead site teams	Initial development undertaken in 2010 will be put into action in 2011 and 2012. Exact details and focus of program to be further developed in early 2011	2009	No End Date (Continuous)
Provide resources and/or dedicated staff to support teams	Ongoing/In Progress		The implementation of the Workplace Energy Conservation program will be supported jointly by the NH Energy Manager and the Energy Coordinator	Continue program implementation	2010	No End Date (Continuous)
Providing behaviour change education/training to teams (e.g., community-based social marketing)	Ongoing/In Progress		as per above	as per above	2010	No End Date (Continuous)
<b>Staff awareness/education</b>						
Provide education to staff about the science of climate change	In Development		Website space secured for intranet Environmental Sustainability	Ongoing development of Environmental Sustainability Intranet site	2010	No End Date (Continuous)
Provide education to staff about the conservation of water, energy, and raw materials	Ongoing/In Progress		Website space secured for intranet Environmental Sustainability	Develop site and go live to NH employees	2010	No End Date (Continuous)
Provide green tips on staff website or in newsletters	Ongoing/In Progress		Energy and carbon emissions news items are published on the internal news website as they arise. Examples include the publication of an environmental award presented to Northern Health by Philips Lighting for environmentally friendly lighting upgrades	Ongoing as stories become available	2009	No End Date (Continuous)
<b>Other Sustainability Actions</b>						
<b>Water conservation</b>						
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	In Development			Will be reviewing water reduction technologies as fixture replacements take place within the facility	2011	No End Date (Continuous)

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Action	Status (as of 12/31/10)	Performance to Date (as of 12/31/10)	Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
<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		Discussions were held with Materials Management with respect to energy efficient and life-cycle considerations in purchases	Purchasing policies and procedures have been assigned to the provincial Health Shared Services BC (HSSBC)	2010	No End Date (Continuous)
<b>Other Sustainability Actions</b>						
Green Housekeeping Policy	Ongoing/In Progress		Developed a green housekeeping policy relating to environmentally friendly cleaning products and procedures under Northern Health	Formal adoption of policy	2010	2011
Green Care	Completed in 2010		Through Northern Health, adopted GreenCare logo and branding developed by Lower Mainland Health Authorities to ensure a common brand and message is delivered in BC Healthcare		2010	2010