



The United Church Health Services Society

Affiliated with Northern Health Authority and Vancouver Coastal Health Authority

Wrinch Memorial Hospital

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Phone: 250-842-5211 Fax: 250-842-5865

Wrinch Memorial Hospital 2011 Carbon Neutral Action Report

Executive Summary

Wrinch Memorial Hospital is pleased to submit their 2011 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 2012, 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

2011 Greenhouse Gas Emissions

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

Offsets Applied to Become Carbon Neutral in 2011

Wrinch Memorial Hospital purchased fifty-eight 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 2011 to reduce carbon emissions from its operations.

Actions Taken to Reduce Greenhouse Gas (GHG) Emissions in 2011

Understanding where opportunities may lie, an energy audit of the facility was undertaken in 2011. This study identified opportunities for energy savings and carbon emissions reductions which will be considered in our ongoing facility project planning.

Recognizing that well maintained equipment runs more efficiently, Wrinch continued its efforts to keep all equipment maintenance up to date.

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 than fossil fuels.

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 2012 and going forward we will continue to improve building systems, including energy-efficient solutions as funding permits. We look forward to implementing key findings of the energy audit. 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.



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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 (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)						
This section is either not applicable, not yet evaluated, or was completed before 2011						
Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)						
Owned buildings						
Establish energy performance baseline for owned buildings	Ongoing/In Progress		Continuation of energy monitoring through Northern Health Energy BI Tool, Energy Manager and Energy Coordinator programs	Continue efforts	2009	No End Date (Continuous)
Incorporate integrated design process into new construction or during renovations of owned buildings	Ongoing/In Progress		Renovation planning of clinical areas of the hospital involved input from staff through a consultative process	Review the project after occupancy to assess effectiveness. Continue to incorporate consultative process in future building renovation projects	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.	Continue efforts	2008	No End Date (Continuous)
Perform energy retrofits on existing, owned buildings	Completed in 2011		Completed a building energy audit		2010	2011
IT power management						
Install power management software which shuts down computers outside of regular business hours	Ongoing/In Progress		Continuation of power management implementation	work with HSSBC and IBM Desktop Management Systems	2009	No End Date (Continuous)
Implement server virtualization	Completed in 2011		implementation of server virtualization		2010	2011
Apply auto-sleep settings on computer monitors and CPUs	Completed in 2011		Powersave policies applied to all new systems		2009	2011
Apply auto-sleep settings on printers, copiers, fax machines, and/or multi-function devices	Completed in 2011		completed sleep setting applications		2009	2011
Replace computers with ENERGY STAR models during regular computer upgrades	Ongoing/In Progress		continuation of hardware replacements with energy star rated equipment	ongoing efforts in accordance with HSSBC strategies	2008	No End Date (Continuous)
Behaviour change program						
Provide tips to staff on saving energy in the office while working outside of regular business hours	Ongoing/In Progress		Energy savings types and facts are posted monthly on the staff website.	continue program	2010	No End Date (Continuous)
Supplies (Paper)						
Paper Type						
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)
Purchase 40% post-consumer recycled paper	In Development			continue to monitor and implement as appropriate	2008	No End Date (Continuous)
Purchase 100% post-consumer recycled paper	In Development			continue to monitor and implement as appropriate	2009	No End Date (Continuous)

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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
Printer/document settings						
Apply "print and hold" settings to networked printers to eliminate unclaimed print jobs	Completed in 2011		Educated employees on "secure printing" application to reduce amount of unclaimed printing		2011	2011
Electronic media in place of paper						
Switch to an electronic payroll notification system in place of paper pay stubs	Completed in 2011		implemented paperless paystubs for all employees		2009	2011
Behaviour change program						
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress		Through corporate initiatives to reduce paper consumption (eg: electronic postings and notifications) and informal encouragement of papaerless meetings	Continue efforts	2008	No End Date (Continuous)

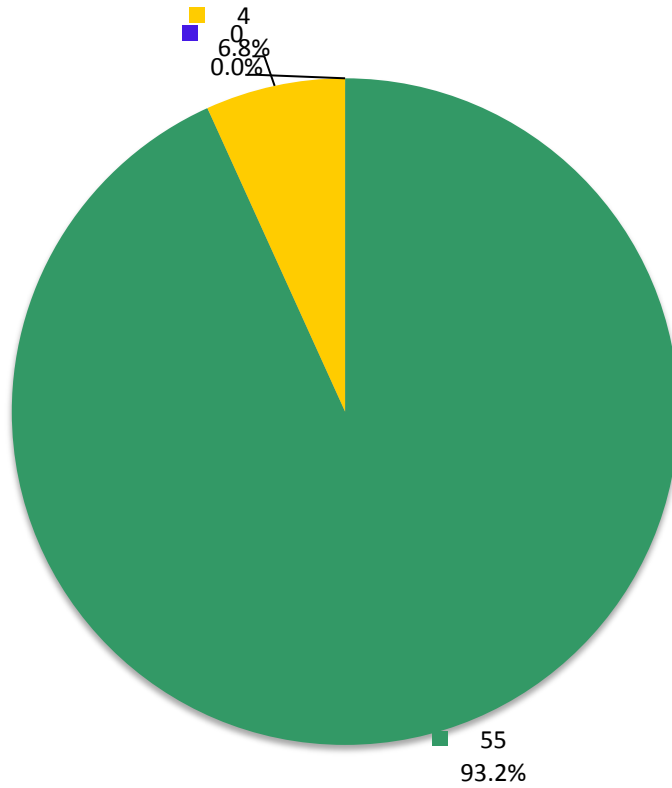
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Actions to Reduce Provincial Emissions and Improve Sustainability

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 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
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**Wrinch Memorial Hospital
Greenhouse Gas Emissions by Source
for the 2011 Calendar Year (tCO₂e*)**



Total Emissions: 58

- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)
- Fugitive

Offsets Applied to Become Carbon Neutral in 2011 (Generated May 18, 2012 11:02 AM)

Total offsets required: **58**. Total offset investment: **\$1,450**. 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.