

Wrinch Memorial Hospital - 2009 Carbon Neutral Action Report

Executive Summary

Efforts toward carbon neutrality in co-operation with Northern Health encompassed executive support, operational considerations, communication, education and environmental awareness.

In 2009 Northern Health adopted its Energy and Environmental Sustainability policy, which provides support to our own ongoing efforts in carbon reduction. In this past year Wrinch Memorial Hospital initiated the steps to undertaking a full energy audit of the facility and we look forward to the outcomes of that study in the coming year. Wrinch Memorial Hospital supports the commitment to environmental sustainability and the related health of the people and communities we serve.

Overviews

The following outlines the Northern Health actions occurring in 2009 and lays out additional action in 2010:

Energy and Environmental Sustainability Policy:

In May 2009 NH approved the Energy and Environmental Sustainability Policy (A K010). This policy provides executive support for the initiatives and ongoing work of energy reduction within the authority, including at Wrinch Memorial Hospital. Approval of the policy was a measurable indicator of NH's commitment to energy reduction and thus played a key part in ensuring Wrinch continues to work toward carbon neutrality.

Carbon Neutral Action Report (CNAR)

As per government legislation, is required to submit an annual report on the actions undertaken by the authority outlining its efforts toward carbon emissions reduction. The 2009 report is enclosed herein.

As per government legislation, Wrinch Memorial Hospital is required to submit an annual report on the actions undertaken by the organization outlining its efforts toward carbon emissions reduction. The report requires the approval of the CEO, which then becomes a public document and is posted on the BC Government website. The 2009 report is enclosed herein.

Energy Audits

An application a facility energy audit was submitted to BC Hydro in 2009 with the expectation that this audit will take place in 2010.

Utility Tracking

A comprehensive utility usage tracking and reporting database was established in 2009 for the tracking of utility consumption at the hospital. Monthly site specific are now automatically generated and are received by the plant maintenance department and the site administrator.

Carbon Offset reporting

In accordance with the Greenhouse Gas Reduction Act, Wrinch Memorial Hospital will track and report all of its carbon emissions resulting from fleet (fuel), building (gas and other fuels, electricity) and paper usage. In 2010, the hospital will purchase carbon offsets from the Pacific Carbon Trust to meet its carbon neutral mandate.

Energy Partner Collaboration

Through Northern Health we will continue to access incentive funding, energy reduction programs and technical support.

Wrinch Memorial Hospital - 2009 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 12/31/09)	Performance to Date (as of 12/31/09)		Steps Taken in 2009	Steps Planned for 2010 -2012	Start Year	End Year
Mobile Fuel Combustion (Fleet and other mobile equipment)							
This section is not applicable to this organization							
Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)							
Owned buildings							
Establish energy performance baseline for owned buildings	In Development			All 2009 utility data entered into a Business Intelligence tracking system	Monthly reports of utility usage will be automatically generated to the site plant and site administrator	2009	No End Date (Continuous)
Complete energy retrofits on existing, owned buildings	In Development			Undertook steps to secure funding for energy audit	Obtain funding commitment. Completion of Energy Audit planned for 2010 which will provide direction on recommended energy retrofit projects within the facility	2009	2011
Retrofitting owned buildings							
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	In Development				Installation of designed upgrades identified in forthcoming audit report	2009	2011
Upgrade lighting systems during retrofits	In Development				Installation of designed upgrades identified in forthcoming audit report	2009	2011
Upgrade/adjust control systems during retrofits	In Development				Installation of designed upgrades identified in forthcoming audit report	2009	2011
IT power management							
Install power management software which shuts down computers outside of regular business hours	Complete			Participated as part of Northern Health for installation of Faronics powersave to the desktop fleet.	Complete implementation of powersave policies to remaining workstations	2009	No End Date (Continuous)
Implement server virtualization	Ongoing/In Progress			Participated as part of Northern Health initiative. The existing server virtualization infrastructure continues to be well utilized. The reference architecture (ie. default) for new servers at Northern Health is to provision them as virtual servers - physical servers are the exception rather than the norm.	Work with Northern Health on continuation of program implementation	2007	No End Date (Continuous)
Apply auto-sleep settings on computer monitors and CPUs	Ongoing/In Progress			Participated as part of Northern Health implementation	Complete implementation of powersave policies to remaining workstations	2009	2011
Remove stand-alone printers, copiers, and/or fax machines and install multi-function devices	Ongoing/In Progress			Performed re-evaluation of printer density and capacities to ensure multifunction fleet is 'right-sized'		2005	No End Date (Continuous)
Apply auto-sleep settings on printers, copiers, fax machines, and/or multi-function devices	Ongoing/In Progress	90	% of devices have auto-sleep settings applied	Settings applied to 90% of devices	Complete remaining devices	2009	2010
Replace computers with ENERGY STAR models during regular computer upgrades	Ongoing/In Progress			Ongoing refresh of devices with energy star compliant devices	Ongoing refresh of devices with energy star compliant devices	2009	No End Date (Continuous)
Appliances and electronic devices							

Wrinch Memorial Hospital - 2009 Carbon Neutral Action Report

Action	Status (as of 12/31/09)	Performance to Date (as of 12/31/09)	Steps Taken in 2009	Steps Planned for 2010 -2012	Start Year	End Year
Replace refrigerators with ENERGY STAR models or source ENERGY STAR models for future purchases	In Development		Support the NH approved Energy and Environmental Sustainability policy which directs purchasers to consider environmental considerations in the procurement evaluation		2009	No End Date (Continuous)
Other Stationary Fuel Combustion and Electricity Actions						
Undertake an energy awareness green team pilot project	In Development			Investigate green team implementation following outcome of energy audit report	2010	No End Date (Continuous)
Supplies (Paper)						
Electronic media in place of paper						
Switch to an electronic payroll notification system in place of paper pay stubs	In Development		Investigating options to switch to electronic notification	Implement electronic notification	2009	2011
Other Paper Supplies Actions						
Paper Awareness	In Development			Publish paper usage awareness identifying how much paper was purchased and providing an equivalent measure in common relatable terms.		

Wrinch Memorial Hospital - 2009 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 12/31/09)	Performance to Date (as of 12/31/09)	Steps Taken in 2009	Steps Planned for 2010 -2012	Start Year	End Year
Business Travel						
Policy and budgeting						
Create a low-carbon travel policy or travel reduction goal	Complete		Travel restrictions in place - only absolutely necessary travel that cannot be accomplished by other means permitted		2009	2009
Virtual meeting technology						
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Complete		Live Meeting instituted. Announcement and encouragement of meeting alternative completed		2009	2009
Behaviour change program						
Train staff in web-conferencing	Ongoing/In Progress		Live Meeting instituted. Announcement and encouragement of meeting alternative completed. Training available upon request		2009	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Complete		Travel restrictions in place		2008	2009
Education, Awareness, and Engagement						
Team-building						
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	In Development		Obtained Executive endorsement; identified pilot project sites	roll-out program		No End Date (Continuous)
Providing behaviour change education/training to teams (e.g., community-based social marketing)	In Development		Initiated investigation into education/training programs	roll-out program		