



Nisga'a Valley Health Authority 2010 Carbon Neutral Action Report

Executive Summary

The Nisga'a Valley Health Authority (NVHA) is pleased to submit the 2010 Carbon Neutral Action Report. The NVHA is committed to reducing its greenhouse emissions to keep this remote part of the Province *clean*, and doing our part to assist in this province-wide initiative. We are extremely fortunate that the NVHA is situated in the very picturesque and beautiful Nass Valley where the environment is basically untouched. The NVHA and the Nisga'a people share the provincial government's mandate to protect our environment, and ultimately, to protect our people. We are very much aware that a healthy environment plays an important part toward having a healthy population.

Overviews

Carbon Neutral Action Report

As per legislation, the Nisga'a Valley Health Authority is required to complete a Carbon Neutral Action Report (CNAR) for the 2010 calendar year as part of the *Greenhouse Gas Reduction Targets Act* and the *Carbon Neutral Government Regulation*. The report requires the approval of senior management – the Chief Financial Officer – before it is released as a public document and posted on the Provincial Government website.

2010 Greenhouse Gas Emissions

The NVHA has assigned the SMARTTool reporting and the Carbon Neutral Action Report to the Corporate Services Manager to give the requirements and action planning a higher profile and priority within the organization. Having completed the 2010 SMARTTool reporting for electrical, paper, and fuel consumption to calculate our greenhouse gas emissions for the year, the NVHA will utilize the data to work toward reducing its emissions in 2011. The data will be shared at monthly management meetings to strategize and implement plans of action to decrease consumption in all areas. For example, this year, the NVHA will include in the planning inspections of all facilities to review renovations and energy saving work that may be required to reduce electrical consumption.

Offsets Applied to Become Carbon Neutral in 2010

Paper consumption is one area that the NVHA focused on in 2010 with the network printing/facsimile/scanning copiers at all centres to decrease paper consumption. Documents can now be scanned and emailed to all staff within the organization as well as to outside organizations. In addition, incorporating digital signatures this year will minimize paper consumption even more as forms, letters, and other documents can be signed electronically and emailed within departments rather than printed.

The purchase of a medical bus significantly reduced road travel and greenhouse gas emissions. The 16-passenger bus runs Monday to Friday to bring clients from the Nass Valley to Terrace for

medical/specialist appointments. It is the NVHA's greatest success story as it has positively impacted the Nisga'a people, the environment and the NVHA.

The following are additional offsets practiced within the NVHA to reduce emissions:

- Electrical heat at NVHA centres is time-controlled. The system is programmed to lower the temperature at the same time each day and increase the temperature prior to the workday starting.
- Office lights are turned off when offices are not in use.
- The NVHA recycles paper, old electronic equipment and cans/bottles.
- Videoconferencing units are available within each NVHA centre and are used for meetings and training.
- Car-pooling is required for staff travel.
- Fuel consumption is monitored under NVHA fleet management.

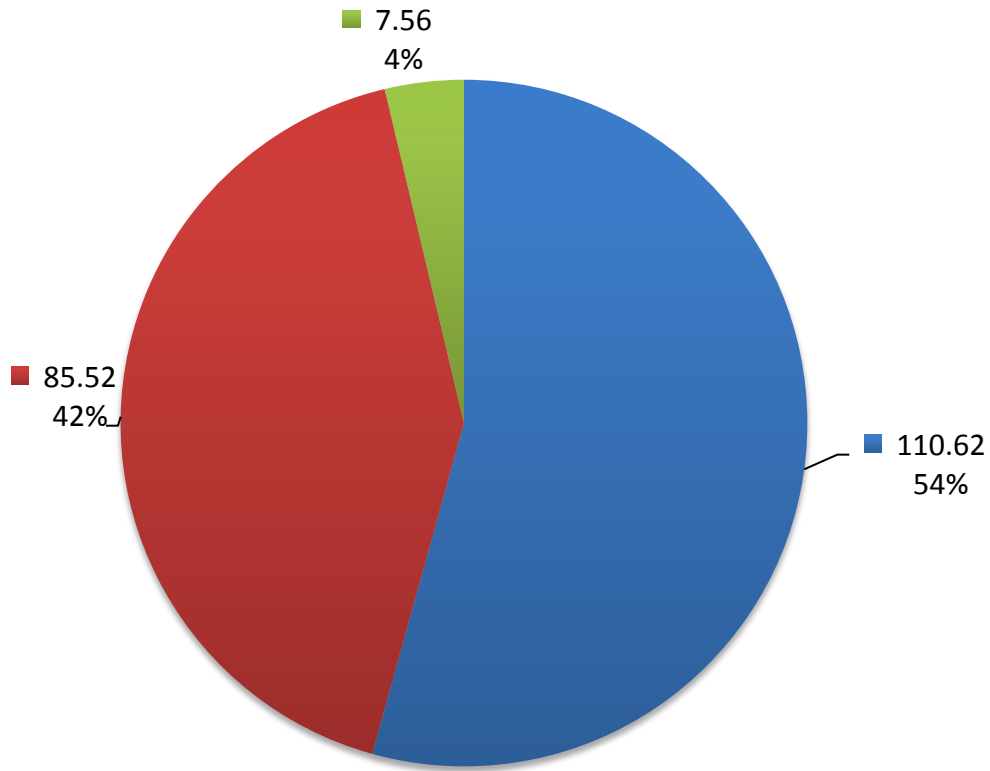
Conclusion

The Nisga'a Valley Health Authority will increase its campaign to educate staff toward decreasing consumption in all areas to not only reduce greenhouse emissions, but expenditures in these areas as reducing consumptions saves financially. More importantly, it provides for a healthier environment and a healthier nation of people.

Orest J. Wakaruk, CMA
Chief Financial Officer, NVHA

*Julie Adams CEO
for Orest Wakaruk.*

Nisga'a Valley Health Authority Greenhouse Gas Emissions by Source for the 2010 Calendar Year (tCO₂e*)



Total Emissions: 203.7

- 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: **200.05**. Total offset investment: **\$5,001.25**. Emissions which do not require offsets: **3.65** **

*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.

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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 12/31/10)	Performance to Date (as of 12/31/10)		Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
Mobile Fuel Combustion (Fleet and other mobile equipment)							
Vehicle fuel efficiency							
Replace vehicles with more fuel-efficient models	Ongoing/In Progress	6	% of vehicles are fuel- efficient models	A medical bus was purchased to transport clients to/from medical appointments that significantly reduces the number of vehicles on the highway each week.	Will continue to consider fuel-efficient models for future purchases.	2008	No End Date (Continuous)
Replace larger vehicles with smaller models according to fleet "right-sizing" principles	In Development	0	% of vehicles down-sized since start year indicated	NVHA vehicles did not require replacing in 2010.	Down-sizing vehicles will be considered for any new purchases.	2010	No End Date (Continuous)
Perform regular fleet maintenance to improve fuel-efficiency	Ongoing/In Progress	100	% of vehicles are subject to regular maintenance for fuel efficiency	NVHA vehicles are maintained every 5000 kms.	Ongoing maintenance will continue.	2000	No End Date (Continuous)
Replace small maintenance vehicles with more fuel-efficient models	In Development	0	% of small maintenance vehicles are fuel-efficient	NVHA maintenance vehicles did not require replacing in 2010.	Replacing small maintenance vehicles for more fuel efficient models will be considered.	2010	No End Date (Continuous)
Behaviour change program							
Provide fleet driver training to reduce fuel use	In Development	0	% of current drivers are trained	There was no fleet driver training provided in 2010 to reduce fuel use.	NVHA will review fleet driver training to reduce fuel use.	2011	No End Date (Continuous)
Introduce anti-idling policy and/or raise anti-idling awareness for fleet drivers (e.g., signs, stickers, messages)	Ongoing/In Progress			Fleet drivers are aware of anti-idling practices.	Continue idle-reduction communication.	2000	No End Date (Continuous)
Encourage carpooling in fleet vehicles	Ongoing/In Progress			Carpooling in fleet vehicles is encouraged at all times.	Carpooling practice will continue.	2000	No End Date (Continuous)
Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)							
Retrofitting owned buildings							
Upgrade mechanical systems (heating, cooling, ventilation) during retrofits	Ongoing/In Progress	50	% of retrofits since start year indicated had heating, cooling, and ventilation systems upgrades	Heating and ventilation systems were upgraded in two of four centres.	Continue to upgrade systems as required.	2009	No End Date (Continuous)
Improve building insulation (including windows) during retrofits	Ongoing/In Progress	25	% of retrofits since start year indicated had insulation improvements	Insulation and windows are replaced on some NVHA buildings.	Continue to replace insulation and windows as required.	2008	No End Date (Continuous)
IT power management							
Implement server virtualization	Ongoing/In Progress			Servers are replaced every 4 years. Information is consolidated on servers during replacements to minimize electricity load.	Two servers to be replaced in 2011.	2007	No End Date (Continuous)
Behaviour change program							
Ask staff to unplug electrical equipment or switch off power bars when not in use	In Development			No steps taken in 2010.	Administrative procedure requiring shut-off to minimize electrical consumption will be developed and enforced.	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
Ask staff to close blinds at end of work day to reduce heating/cooling demands	In Development		No steps taken in 2010.	Staff will be encouraged to close their blinds at the end of the work day.	2011	No End Date (Continuous)
Supplies (Paper)						
Printer/document settings						
Switch networked printers and photocopiers to automatic double-sided	Ongoing/In Progress		New network printers/facsimile/scanning copiers installed in 2011.	Double-sided printing will be set as a default setting on all printers.	2011	2011
Apply "print and hold" settings to networked printers to eliminate unclaimed print jobs	Completed in 2010		All new network printers have print and hold capacity.		2010	No End Date (Continuous)
Electronic media in place of paper						
Install collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	Ongoing/In Progress		Software with shared access such as Profile and Outlook are used for managing appointments, tasks, staff policy, forms, calendars, and other documents.	Continue utilizing shared software.	2009	No End Date (Continuous)
Use electronic document library for filing common documents	Ongoing/In Progress		Staff have access to shared folders.	Continue utilizing shared folders.	2009	No End Date (Continuous)
Post materials online that were previously printed	Ongoing/In Progress		NVHA has a public folder where all material and information is posted.	Continue posting information/material online.	2009	No End Date (Continuous)
Switch to an electronic payroll notification system in place of paper pay stubs	In Development		The NVHA is reviewing how paper pay stubs can be provided electronically.	Develop and implement the process to provide pay stubs electronically.	2011	No End Date (Continuous)
Behaviour change program						
Train staff to use collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	In Development		Staff are encouraged as much as possible to manage information electronically.	Continue awareness of electronic management of information and records.	2009	No End Date (Continuous)
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress		The NVHA encourages staff to hold more paperless meetings or presentations.	Increase the number of paperless meetings or presentations that are held.	2009	No End Date (Continuous)
Encourage re-use of scrap paper	Ongoing/In Progress		Staff utilize scrap paper as much as possible for messages, and to track other tasks.	Continue practice.	2000	No End Date (Continuous)
Other Paper Supplies Actions						
Discarded paper is shredded and recycled.	Completed in 2010		Paper is shredded and recycled.	Continue recycling practice.	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 12/31/10)	Performance to Date (as of 12/31/10)	Steps Taken in 2010	Steps Planned for 2011 -2013	Start Year	End Year
Business Travel						
Behaviour change program						
Train staff in web-conferencing	Ongoing/In Progress		Training is ongoing. Staff utilize web-conferencing to communicate with each other on issues.	Continue training and use of web-conferencing.	2008	No End Date (Continuous)
Train staff in video-conferencing or provide technical support for video-conferencing set-up	Ongoing/In Progress		Training is ongoing.	Continue training and use of video-conferencing. Technical support is also available.	2008	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	Ongoing/In Progress		Staff virtually attend meetings and training.	Continue practice.	2008	No End Date (Continuous)
Encourage carpooling to meetings	Ongoing/In Progress		Carpooling is encouraged/enforced.	Continue carpooling.	2000	No End Date (Continuous)
Education, Awareness, and Engagement						
Team-building						
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	In Development		The NVHA is reviewing how it can conserve in all areas.			
Other Sustainability Actions						
Water conservation						
Establish a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models	Ongoing/In Progress		Water fixtures are replaced with efficient models when required.	Continue replacing water fixtures with efficient models.	2008	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	In Development		Paper and bottle recycling programs are ongoing.	Continue practice and look at other recycle programs.	2009	No End Date (Continuous)
Implement a hazardous waste reduction and disposal strategy	Ongoing/In Progress		Electronic equipment including computers are brought to a recycling depot.	Continue practice.	2009	No End Date (Continuous)
Procurement (non-paper supplies)						
Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags	Ongoing/In Progress		Sustainable cleaning products, paper products and trash bags are purchased.	Continue practice.	2009	No End Date (Continuous)
Building construction, renovation, and leasing						
Establish a policy to reuse materials where possible and divert construction and demolition debris from landfills and incineration facilities	Ongoing/In Progress		The NVHA re-uses materials where possible.	Continue practice.	2009	No End Date (Continuous)