

School District No. 92 (Nisga'a) - 2010 Carbon Neutral Action Report

Executive Summary

School District No. 92 (Nisga'a) has been contributing towards carbon number of years by investing in equipment and lighting retrofits and working with employees and building systems to improve overall systems performance and reduce energy consumption. Over the years we have completed heating and lighting energy improvements through a partnership with BC Hydro in the Powersmart Program. We are continuing to work toward improving our mechanical and control systems which will improve comfort to our occupants and allow us to operate our buildings economically. We are continuing work with our employees and students to minimize waste in our schools. Our schools will begin to expand on environmental learning into the curriculum. We will begin on recycling, composting and waste reduction programs in the schools which will increase student and staff participation. We continue with vehicle preventive maintenance and our anti-idling program. We will also begin to move toward using sustainable products for cleaning and building maintenance.

Overviews

Actions Taken to Reduce Greenhouse Gas Emissions in 2010

School District No.92 (Nisga'a) is in a unique area of northern BC. This puts us in a position to take a leadership role and demonstrate the steps needed to reduce greenhouse gas emissions in each of our communities. We see this responsibility and opportunity to engage our students, employees and partners in this School District's mandate to reduce greenhouse gas emissions. The leadership we take in greenhouse gas emissions will allow our organization to become more fiscally responsible by reducing waste through energy conservation. This will allow us to balance social, economic and environmental issues for future generations not only in our School District but local communities.

Since the introduction of the Carbon Neutral Action program we are beginning to notice the difference in our paper waste, fuel consumption, energy use and overall employee environmental awareness.

Plans to Continue Reducing Greenhouse Gas Emissions 2010 – 2012

Because electricity in our area is our primary heat source in all our facilities, we will continue to work with BC Hydro through their Powersmart program to reduce energy. WE will continue to improve fuel consumption through our vehicle preventive maintenance program. We will also continue to move toward our student and staff environmental awareness program.



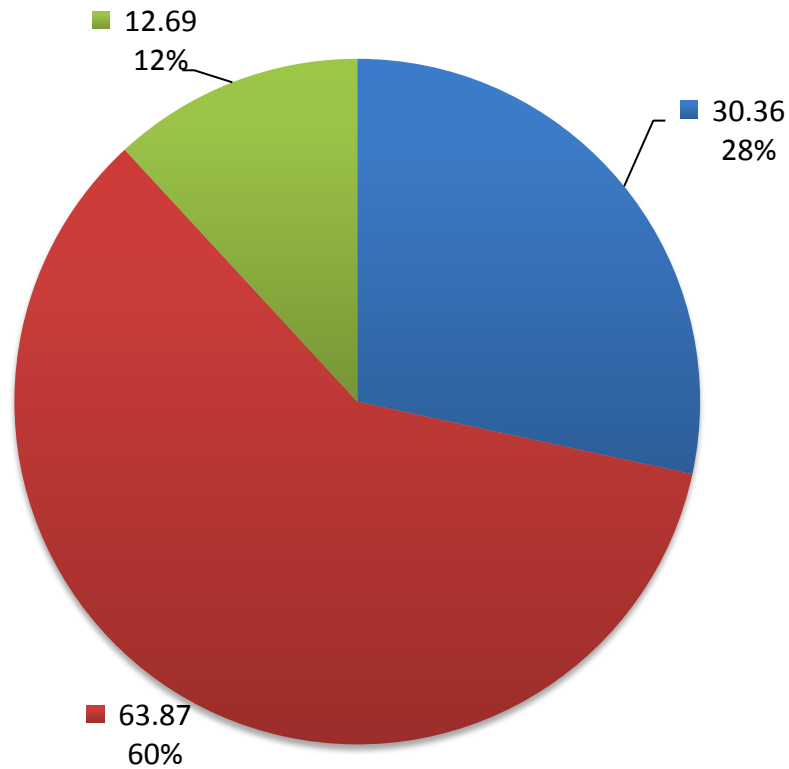
Bruce Mathews, Secretary Treasurer

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Greenhouse Gas Emissions by Source for the 2010 Calendar Year (tCO₂e*)



Total Emissions: 106.92

- 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: **87.83**. Total offset investment: **\$2,195.75**. Emissions which do not require offsets: **19.09** **

*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	75	% of vehicles are fuel- efficient models	on going	2 bus replacements	2008	No End Date (Continuous)
Replace larger vehicles with smaller models according to fleet "right-sizing" principles	Ongoing/In Progress	30	% of vehicles down-sized since start year indicated	on going	review possibilities depending on vehicle use	2008	No End Date (Continuous)
Perform regular fleet maintenance to improve fuel-efficiency	Ongoing/In Progress	80	% of vehicles are subject to regular maintenance for fuel efficiency	on going	replace vehicles as deficiencies warned	2008	No End Date (Continuous)
Replace small maintenance vehicles with more fuel-efficient models	Ongoing/In Progress			on going	when warranted	2008	No End Date (Continuous)
Behaviour change program							
Provide fleet driver training to reduce fuel use	Ongoing/In Progress	100	% of current drivers are trained	driver training awareness on ways to reduce fuel use	introduce as part of driver training	2010	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			started staff wareness anti-idling program	develop anti-idling Board policy	2009	2012
Encourage carpooling in fleet vehicles	Ongoing/In Progress			provided bus service for district staff to get to meeting	continue to provide bus service for staff	2009	No End Date (Continuous)
Stationary Fuel Combustion, Electricity and Fugitive Emissions (Buildings)							
Complete energy retrofits on existing, owned buildings	Ongoing/In Progress	50	% of owned buildings have undergone energy retrofits since start year indicated	in capital plan	pending capital plan	2003	No End Date (Continuous)
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	in capital plan to upgrade remaining schools	pending capital plan	2003	No End Date (Continuous)
Upgrade lighting systems during retrofits	Ongoing/In Progress	75	% of retrofits since start year indicated had lighting systems upgrades	began lighting upgrades in other building etc. offices, housing	continue other building	2003	No End Date (Continuous)
Upgrade/adjust control systems during retrofits	Ongoing/In Progress	50	% of retrofits since start year indicated had control system upgrades or adjustments	in capital plan to upgrade remaining schools	pending capital plan	2003	No End Date (Continuous)
Improve building insulation (including windows) during retrofits	Ongoing/In Progress	0	% of retrofits since start year indicated had insulation improvements	in capital plan	pending capital plan	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
IT power management							
Install power management software which shuts down computers outside of regular business hours	Ongoing/In Progress	95	% of computers shut down automatically outside of regular business hours	replaced all servers	continue to upgrade	2009	No End Date (Continuous)
Appliances and electronic devices							
Replace refrigerators with ENERGY STAR models or source ENERGY STAR models for future purchases	Ongoing/In Progress	50	% of fridges are ENERGY STAR rated	replaced with energy star models	continue	2009	No End Date (Continuous)
Replace other appliances or electronic devices with ENERGY STAR models or source ENERGY STAR models for future purchases	Ongoing/In Progress	50	microwaves, tv;s etc	replaced with energy star models	continue	2009	No End Date (Continuous)
Behaviour change program							
Help staff reduce personal energy use through "workstation tune-ups"	Ongoing/In Progress	50	% of current staff have completed a workstation tune-up	continue staff training on energy awareness	continue	2004	No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Ongoing/In Progress			continue staff training on energy awareness	continue	2009	No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	Ongoing/In Progress			continue staff training on energy awareness	continue	2009	No End Date (Continuous)
Encourage staff to use air dry setting on dishwashers	Ongoing/In Progress			continue staff training on energy awareness	continue	2009	No End Date (Continuous)
Provide tips to staff on saving energy in the office while working outside of regular business hours	Ongoing/In Progress			continue staff training on energy awareness	continue	2009	No End Date (Continuous)
Provide reminders for turning off lights (e.g., signs, stickers, messages)	Ongoing/In Progress			have installed occupancy sensors in classrooms and timer switches in storage areas	continue staff training on energy awareness	2009	No End Date (Continuous)
Promote hot water conservation	Ongoing/In Progress			continue staff training on energy awareness	continue	2010	No End Date (Continuous)
Supplies (Paper)							
Paper Type							
Purchase 30% post-consumer recycled paper	In Development				introduce pending costs	2011	No End Date (Continuous)
Purchase 100% post-consumer recycled paper	In Development				pending costs	2012	No End Date (Continuous)
Printer/document settings							
Switch networked printers and photocopiers to automatic double-sided	Completed in 2010			replace all photocopiers/printers		2010	2010
Apply "print and hold" settings to networked printers to eliminate unclaimed print jobs	Completed in 2010			replace all photocopiers/printers		2010	2010
Reduce default margin size in standard document templates (e.g., letters, briefing notes, forms, etc.)	Completed in 2010			replace all photocopiers/printers		2010	2010

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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
Electronic media in place of paper						
Post materials online that were previously printed	Completed in 2010		introduced through staff training		2010	No End Date (Continuous)
Behaviour change program						
Train staff to use collaborative software for electronic editing (e.g. SharePoint, Groove, etc.)	In Development			staff training	2011	No End Date (Continuous)
Encourage staff to hold paperless meetings or presentations (i.e., no handouts)	Ongoing/In Progress		encouraged through staff awareness	continue	2010	No End Date (Continuous)
Encourage re-use of scrap paper	Ongoing/In Progress		encouraged through staff awareness	continue	2010	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						
Policy and budgeting						
Create a low-carbon travel policy or travel reduction goal	In Development			policy development	2011	2012
Virtual meeting technology						
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Ongoing/In Progress		continue through staff awareness	plan to install in all administration offices	2010	No End Date (Continuous)
Make desktop web-cameras available to staff	In Development			policy development	2012	No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Ongoing/In Progress		tested equipment for video conferencing	continue	2010	No End Date (Continuous)
Behaviour change program						
Train staff in web-conferencing	Ongoing/In Progress		staff training	continue	2010	No End Date (Continuous)
Train staff in video-conferencing or provide technical support for video-conferencing set-up	Ongoing/In Progress		continue through staff training	continue	2010	No End Date (Continuous)
Encourage staff to consider virtual attendance/presentation at events where possible	In Development			policy development	2011	No End Date (Continuous)
Encourage carpooling to meetings	Ongoing/In Progress		encourage to use school bus transportation when provided	continue	2009	No End Date (Continuous)
Education, Awareness, and Engagement						
Team-building						
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	In Development					
Provide resources and/or dedicated staff to support teams	In Development					
Providing behaviour change education/training to teams (e.g., community-based social marketing)	In Development					
Awards/Recognition						
Establish a sustainability/green awards or recognition program	In Development					
Staff Professional Development						
Support green professional development (e.g., workshops, conferences, training)	In Development					
Include green options in employee performance measurement system	In Development					

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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
Staff awareness/education						
Provide education to staff about the conservation of water, energy, and raw materials	Ongoing/In Progress		staff training on energy awareness	continue staff training	2010	No End Date (Continuous)
Provide green tips on staff website or in newsletters	In Development					
Provide sustainability education during new staff orientation	In Development					
Client/public awareness/education						
Provide green tips on client/public website or in newsletters	In Development					
Other Sustainability Actions						
Water conservation						
Establish a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models	In Development					
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					
Implement a hazardous waste reduction and disposal strategy	In Development					
Procurement (non-paper supplies)						
Implement sustainable purchasing program for cleaning products, disposable paper products and trash bags	In Development					
Indoor air quality						
Enforce a scent-free policy (e.g., no strong perfumes, deodorants, etc.)	In Development					
Commuting to and from home						
Encourage commuting by foot, bicycle, carpool or public transit	In Development					
Provide secure bicycle storage	Ongoing/In Progress		provide locking bike racks	continue	Started before 1995	No End Date (Continuous)