

Carbon Neutral Action Report School District No. 52 (Prince Rupert)

Executive Summary

School District No. 52 is a district of 2500 students and between January 2008 and December 2008 educated its students in eight elementary schools, two secondary schools, two village schools, one distributed learning storefront school and is supported by a maintenance building, an aboriginal education administration building and a board office. Six trustees at large and one rural trustee represent School District No. 52's communities. Of its 16 sites, 13 are owned, 2 are band owned and one is leased. The average age of the owned buildings is 41 years. With funding being scarce and aging facilities, the District looks to carbon neutral projects that deliver savings directly or indirectly by reducing maintenance on its facilities and vehicles. While there have been efforts made during 2008 to reduce greenhouse gas emissions the District will look to the future to change culture and provide leadership to students, staff and community to explore more ideas and initiatives to reduce greenhouse gases in everyday life in schools, in addition to the continued efforts to address our facilities.

Objectives

School District NO. 52's key actions taken during 2008 toward carbon neutrality were PowerSmart lighting retrofits, boiler upgrades, vehicle replacements and school closures. School District No. 52's efforts, in terms of carbon neutrality efforts, are aimed at addressing aging buildings with higher efficiency repairs, replacement or closure. For example the District is working diligently to take advantage of fossil fuel reduction projects like lighting retrofits and HVAC system upgrades including boilers, where there is either project sharing funding, a reasonable payback period or straight savings to the District.

Part 1: Actions Taken to Reduce Greenhouse Gas Emissions in 2008

Overview

- Power smart Lighting Retrofits
- Boiler replacements
- Vehicle Replacement
- Closure of two schools

1.1 Mobile Fuel Combustion

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Replaced # of TYPE OF VEHICLE with MORE EFFICIENT VEHICLE/Hybrid	Complete		replaced 1 gasoline bus with a 2008 diesel bus and replaced 1 1989 gasoline cargo van with a 2008 V6 Chevrolet Express van
Initiated new fleet maintenance program (could include – changing filters, checking tire pressure, regular check-ups)	In Progress		Service fleet vehicles twice annually. Because of small geographic areas in district, fleet is serviced before required km's to ensure efficiency rather than waiting for required km's

Other:	In Progress	Employees travelling to the same in district or out of district meetings are encouraged to carpool rather than take individual vehicles
--------	-------------	---

1.2 Stationary fuel combustion and electricity

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Replaced Refrigerators (EnergyStar rated appliance)	Complete		Replaced two fridges at two sites with EnergyStar fridges
Replaced other appliances (with EnergyStar rated appliance)	Complete		Replaced two stoves at two sites with EnergyStar Stove and replaced one dishwasher at one site with EnergyStar dishwasher
Installed multi-function devices (and removed stand-alone printers/faxes)	In Progress		Replaced district photocopier fleet with refurbished copiers with network boards that serve as central office printers with double sided feature in all sites Removing stand alone printers as they breakdown
Replaced standard bulbs with CFLs	Complete		
Undertaken lighting retrofit	Complete		Power Smart lighting retrofit at two sites
Undertaken building energy audit at LOCATION(s)	In Progress		Lighting at some sites
Other:	Complete		Replaced one 600,000 BTU boiler with two-300,000 BTU boilers
	Complete		Closed two schools effective June 30, 2008 reducing overall district square metrage by 4250 square metres
	Complete		Unit ventilator cleaning at three sites for more efficient heat use and distribution
	Complete		Consolidated three school meal kitchens to one centralized commercial kitchen
	In Progress		CRT computer monitor replacements with energy efficient flat LCD monitors

1.3 Supplies			
Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Committed to use 100% recycled paper	Complete		Bulk paper order by central office
Committed to hold paperless meetings	In Progress		Board of Education Meetings: agendas printed only, not attachments. Three out of seven trustees meet bring laptops to monthly meeting versus paper agendas and attachments
Re-used non-confidential scrap paper	In Progress		
Used laptops/tablets	Complete		Replaced one stationary computer lab with two mobile laptop labs at one site
Actions on non-paper related supplies:			
Purchased cradle to cradle goods	Complete		School meal supplies delivery to one central kitchen
Chose "Green" items from Distribution Centre	In Progress		Implemented 100% bio-degradable garbage bags as centralized custodial supply purchase
Encouraged re-use of furniture and equipment	In Progress		Made supplies, furniture and equipment from two closed schools available to other schools, community organizations and public at large.
1.4 Employee Engagement			
Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Developed Green Teams	In Progress		"Green Games" participant at one site
1.5 Sustainability Actions (others)			
Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Took water conservation measures – low flow showers or toilets, fix leaks	Complete	Reduced water usage	Low flush toilets installed by municipality at one site and installed faucets on timers at two sites

Part 2: Plans to Continue Reducing Greenhouse Gas Emissions 2009 -- 2011

Overview

Upon signing the Climate Action Charter School District No. 52 will continue with past reductions such as PowerSmart Lighting Retrofits, vehicle replacement and boiler replacements. In addition the district has undergone a long range facilities plan which may involve future school closure and/or new building construction. New future projects will include: incentives and raised awareness for students and employees, for further project identification, LEEDS certification on new building, building envelope project through BC Housing on existing building and measurement practices for analysing success of carbon neutrality efforts

2.1 Mobile Fuel Combustion

Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Replace # of TYPE OF VEHICLE with MORE EFFICIENT VEHICLE/Hybrid	Planned		Replacement of one V8 1994 GMC Cargo Van and one 2003 Sunfire car with two 4 cylinder Dodge Calibre hatchbacks	Jul-09
Initiate new fleet maintenance program (could include – changing filters, checking tire pressure, regular check-ups)	In Progress		Service fleet vehicles twice annually . Because of small geographic areas in district, fleet is serviced before required km's to ensure efficiency rather than waiting for required km's	On-Going
Establish anti-idling behaviour change program (e.g. signs, stickers, messages)	Planned			Sep-09

2.2 Stationary Fuel Combustion (including electricity)

Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Undertake workstation tune-ups to help staff understand what they can do to reduce personal energy use	Planned			Sep-09
Turn off lights in unused rooms	Planned			Sep-09
Replace Refrigerators (EnergyStar rated appliance)	Planned		As replacement requires	2008 - 2011
Replace other appliances (with EnergyStar rated appliance)	Planned		As replacement requires	2009 - 2011
Install multi-function devices (and remove stand-alone printers/faxes)	In Progress		Individual stand alone printers not replaced without IT Department review when broken	2009 - 2011
Install motion activated lights	Planned		Administration buildings (three sites)	2010
Undertake lighting retrofit	In Progress		As part of BC Housing Building Envelope Program project at one site and other sites through	July 2009 - 2011
Implement server virtualization	Planned			March -
Apply for LEED existing building rating	Planned		Potential new middle school as a result of long range facilities plan	2011
Undertake building energy audit at LOCATION(s)	Planned		HVAC upgrade projects at one site	2010
Other:	Planned		Building envelope program at one site to upgrade/repair/replace bay windows with energy	Jul-09
	Planned		Boiler replacement at one site	2010

	Planned		Possible further school closure based on long range facilities plan	2011
	Planned		Replace HVAC motors with energy efficient motors as required as part of regular maintenance	Apr-09
2.3 Supplies				
Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Commit to hold paperless meetings	Planned		Board of Education Meetings: agendas printed only, not attachments. Seven out of seven trustees meet bring laptops to monthly meeting versus paper agendas and attachments	2010
Develop document library (online and one printed copy) for large documents	Planned		Website development	2009-2011
Re-use non-confidential scrap paper	In Progress			On-going
Use laptops/tablets	Planned		Replacement of one stationary computer lab with two mobile labs at second site	Sep-09
Restructure a process to use less paper	Planned		Electronic document management software for use in education administration building to	Jul-09
2.4 Employee Engagement				
Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Provide climate change education	Planned		Raise awareness at all sites through incentives, contests and policy/procedure	2007 - 2011
Provide conservation education	Planned			
Hold contests to change behaviour/make pledge	Planned			
Hold contests/support to generate ideas	Planned			
Develop Green Teams	Planned			
2.5 Sustainability Actions (others)				
Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Take water conservation measures – low flow showers or toilets, fix leaks	In Progress		Replace toilets with low flush toilets and faucets with metered faucets as part of regular maintenance as required	2009 - 2011
Reduce/replace bottled water with filtered or refrigerated water	Planned		Elimination of delivered, bottled water to administration office and replace with filters on fixed plumbing to use regular tap water for drinking	Apr-09
Purchase green cleaning products	Planned		Custodial Foreman to use green where possible when centralized ordering of custodial products	Jul-09