

Carbon Neutral Action Report School District No. 87 (Stikine)

Executive Summary

School District No. 87 (Stikine) has been working on the carbon neutral plan for the last few years by investing in newer more efficient equipment and educating employees about reducing the amount of carbon we put into the atmosphere. Prior to 2008 we completed several projects which would reduce the energy consumption in the schools. We have also been communicating with our employees about carbon output and the damage it does to our universe.

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

Overview

During 2008 we implemented measures in the areas of mobile fuel combustion, stationary fuel combustion, supplies, travel and sustainable actions. We purchased dual fuel vehicles that were more efficient, maintained a good fleet maintenance program and started to encourage car pooling. Lights were being turned off in unused rooms, equipment was being unplugged when not in use and we started to buy "Energy Star" appliance. Principals and management started using energy efficient laptops and we started to use 100% recycled paper. The district continues to reuse furniture and equipment when it is practical to do so. We have started using Live Meetings and encouraging car pooling of all start destined for the same place. We have instituted sustainable measures of low flow taps & showers, not running dishwashers until they are full, using glass plates, cups and glasses and instituting a recycling program in the district. B155

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	Completed	Reduction of fuel costs and measurable by using historic data	Replaced 2 vehicles with dual fuel vehicles - there are no hybrid vehicles available for the terrain in this district
Initiated new fleet maintenance program (could include – changing filters, checking tire pressure, regular check-ups)	Completed	Reduction of fuel costs and emissions	Our vehicles are maintained on a regular basis through a garage when we travel out of the district
Encouraged car pooling in fleet vehicles	Completed	Reduction of fuel costs	Maintenance and management personnel car pool if they are going to the same site at the same time

1.2 Stationary fuel combustion and electricity

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Used air dry setting on dishwashers	Completed	Reduction of electricity cost	Requested all staff to use this setting on the dishwashers
Turned off lights in unused rooms	In Progress	Reduction of electricity cost	Requested all staff to turn off the lights in rooms when they will be vacant
Replaced Refrigerators (EnergyStar rated appliance)	In Progress	Reduction of electricity cost	When we replace appliances this is the standard we are requiring
Installed multi-function devices (and removed stand-alone printers/faxes)	In Progress	Reduction of electricity and toner costs	This has been completed in the schools and is in progress in the district office
Utilized desk-top power management settings on computer	In Progress	Reduction of electricity cost	Updated the settings on new computer purchases and on old computers in progress
Unplugged unused equipment	Completed	Reduction of electricity cost	Requested all staff to unplug all unused equipment
Replaced furnaces in Dease Lake School	Completed	Reduction of propane and costs	Replaced furnaces in Dease Lake School to high efficiency furnaces
Replaced furnaces in Lower Post School	Completed	Reduction of propane and costs	Replaced furnaces in Lower Post School to high efficiency furnaces

1.3 Supplies				
Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken	
Committed to use 100% recycled paper	Completed	Reduction of manufacturing costs	We just completed going to 100% recycled paper.	
Used laptops/tablets	In Progress	Reduction of electricity cost	Management & Principals computers have been replaced with laptop computers	
Encouraged re-use of furniture and equipment	Completed		This is a district initiative	
1.4 Travel				
Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken	
Trained staff in the use of Live Meeting (or other desktop collaborative software)	In Progress	Reduction of fuel costs	We have tried, and will keep trying. this way of meeting but unfortunately our bandwidth at some of are sites is not sufficient	
Mandated car pooling to government meetings	Completed	Reduction of fuel costs	All staff have been advised to carpool or share transportation if going to the same 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	Completed	Reduction of water usage, propane cost for heating water and less use of the septic system	This was done years ago	
Ran dishwasher only when full	Completed	Reduction of water usage, propane cost for heating water and less use of the septic system	Requested all staff to only start a load when the dishwasher is full	
Improved recycling measures	In Progress	Reduction of waste into land fill	Requested all staff to recycle as much as possible but with our lack of a recycling depot (closest one is 600+ km away) we seem to have a hard time getting rid of the recycling.	
Used re-usable dishes	Completed	Reduction of waste into land fill	This has been implemented several years ago	
Part 2: Plans to Continue Reducing Greenhouse Gas Emissions 2009 -- 2011				
Overview	For the future the school district will be changing furnaces in the Atlin School to high efficiency furnaces, change the boilers in the Tahltan school and SBO to high efficiency boilers, replace more vehicles with dual fuel, remove stand alone printers, researching a lighting retrofit, replace appliances with EnergyStar rated units, initiating paperless school board meetings, and double sided copying and using Live Meeting more intensively+B56 for training and meetings.			
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	IN Progress	Reduction of fuel costs and measurable by using historic data	When we replace a vehicle we will insist on dfuel fuel vehicles and maybe hybrid vehicles if they can stand the extreme cold and the roads in this district	Ongoing
Encourage car pooling in fleet vehicles	IN Progress	Reduction of fuel costs C77	Maintenance and management personnel car pool if they are going to the same site at the same time and we are insisting that all staff car pool to the same location	2009/10

2.2 Stationary Fuel Combustion (including electricity)				
Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Replace # computers with EnergyStar models	In Progress	Reduction of electricity cost	As we replace computers we are specifying "Energy Star" models	Ongoing
Ask staff to close blinds daily	In Progress	Reduction of electricity and propane costs	We will be instructing our staff to do this when they aren't in the classroom	2009/10
Replace Refrigerators (EnergyStar rated appliance)	In Progress	Reduction of electricity cost	As we replace refrigerators we are specifying "Energy Star" models	2009/10
Replace other appliances (with EnergyStar rated appliance)	In Progress	Reduction of electricity cost	As we replace other appliances we are specifying "Energy Star" models	2009/10
Install multi-function devices (and remove stand-alone printers/faxes)	In Progress	Reduction of electricity cost	As we replace stand alone printers we are switching over to multi use photocopiers	2009/10
Replace standard bulbs with CFLs	In Progress	Reduction of electricity costs	We have had a consultant in to review our lighting fixtures and unfortunately most of our fixtures are metric and the bulbs are extremely difficult to locate.	2009/10
Undertake lighting retrofit	In Progress	Reduction of electricity costs	We have had a consultant in to review our lighting for a retro fit to be done soon	2009/10
Utilize desk-top power management settings on computer	In Progress	Reduction of electricity costs	We are changing our computers over to power management system	2009/10
Undertake building energy audit at LOCATION(s)	In Progress	Reduction of electricity and propane costs	We have a consultant coming into the district over the next few weeks to do an entire energy audit after which we will decide what the district will do.	2009/10
2.3 Supplies				
Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Initiate automatic double sided printing	In Progress	Reduction of paper usage, electricity, recycling and storage costs	We are in the process for making all of the photocopiers in the district print double sided	2009/10
Commit to hold paperless meetings	In Progress	Reduction of paper usage, electricity, recycling and storage costs	We are presently getting prices to supply the trustees with notebooks so they can go paperless for their meetings	2009/10
Choose "Green" items from Distribution Centre	In Progress	Reduction of pollutants entering the water and soil system	We are presently looking at all the products and changing over to as many green items as possible	2009/10
2.4 Employee Engagement				
Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Support professional development	In Progress	Pro D and knowledge	We are implementing a discussion on carbon neutral for our staff orientation meetings at the beginning of the school year.	2009/10
2.5 Sustainability Actions (others)				
Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Purchase green cleaning products	In Progress	Reduction of pollutants entering the water and soil system	We are presently looking at all the products and changing over to as many green items as possible	2009/10
Use green (low-e paints)	In Progress	Reduction of pollutants entering the water and soil system	We are presently looking at all the products and changing over to as many green items as possible	2009/10