

## Carbon Neutral Action Report School District No. 19 (Revelstoke)

### Executive Summary

School District 19 (Revelstoke) is currently reviewing energy consumption at all district facilities to establish targets for energy consumption reduction. Staff have attended information sessions and workshops on energy efficiency and carbon neutrality. We have engaged BC Hydro in discussions regarding our PowerSmart Partnership and are working towards an Energy Management Plan. Our school district is engaged in preliminary discussions with engineering firms to complete an energy audit of school district facilities with a focus on lighting upgrades and HVAC upgrades at all facilities (except those currently covered by a Project Agreement that will lead to their replacement). We have signed a Project Agreement with the Ministry of Education for building a new secondary school (LEED Gold standard) to replace our existing secondary school. The existing secondary school will be demolished following completion of the new school. In addition, SD 19 has signed a Project Agreement with the Ministry of Education for building a new elementary school (LEED Gold standard) to consolidate the student populations of two older elementary schools. We are currently reviewing custodial practices with a view to changing work schedules to allow for more efficient use of buildings and reduced energy consumption.

### Objectives

- employee engagement – developing and implementing a strategy to actively and positively engage employees in all strategies and initiatives
- financial responsibility – reducing operating costs through energy conservation and behaviour change
- sustainability – balancing economic, social and environmental issues
- social responsibility – being good stewards of our environment by establishing policies to reduce the use of herbicides and pesticides at district facilities

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

### Overview

Our District staff began initial consideration of potential areas for implementation of energy conservation measures and engaged in awareness workshops and training.

### 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	Reduced maintenance fleet by 17%	
Established anti-idling behaviour change program (e.g. signs, stickers, messages)	Complete	Reduced fuel consumption and improved air quality in the vicinity of school parking lots.	Anti-idling policy implemented for buses, maintenance vehicles, and appropriate signage throughout the school district.

### 1.2 Stationary fuel combustion and electricity

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Asked staff to close blinds daily	In Progress		Currently in place at some facilities
Turned off lights in unused rooms	In Progress		Implemented in some district facilities

Replaced Refrigerators (EnergyStar rated appliance)	In Progress	One school complete	
Installed multi-function devices (and removed stand-alone printers/faxes)	Complete	Reduced equipment replacement costs and reduced electricity consumption	Replaced fax machines and now use multi-function machines for scanning, printing, copying.
Replaced standard bulbs with CFLs	In Progress		
Installed motion activated lights	In Progress		Gymnasiums completed prior to the current year.
Utilized desk-top power management settings on computer	In Progress		Further refinement of power management is underway on all workstations.

### 1.3 Supplies

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Developed document library (online and one printed copy) for large documents	In Progress	Reduction in paper supply costs	District policies, protocols, First Aid Guidelines, payroll vouchers, etc. are available electronically.
Used collaborative software to edit on-line	In Progress	Reduction in printing and paper supply costs	Collaborative software is used in project management.

### 1.4 Travel

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Set a X% Travel reduction goal			
Trained staff in the use of Live Meeting (or other desktop collaborative software)	In Progress	Reduction in staff travel time and reduced vehicle emissions	Using Elluminate and webinars more frequently

### 1.5 Sustainability Actions (others)

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Improved recycling measures	Complete	Refined schedule to reduce frequency of pickups, thereby reducing vehicle emissions.	Recycling cardboard and waste paper at all facilities
Reduced contracted garbage pickups	Complete	Refined schedule to reduce frequency of pickups, thereby reducing vehicle emissions.	

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

<b>Overview</b>	School District 19 will make substantial progress on its Carbon Neutral Action Plan in 2009. A wide range of activities are planned that will engage the school community at all levels in order to achieve our goals. Our efforts will focus on creating awareness of the CNAP at the school level and creating "Green Teams" to create objectives and related activities for all schools. We anticipate that once engaged we will see substantial reductions in energy use at all of our facilities.		
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### 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	Two old school buses will be replaced with new buses in 2009.		2009
Encourage alternatives to travel in fleet vehicles – bicycles, scooters, electric carts	In Progress	Reduction in mileage travelled by bus fleet on regular routes	Reviewing all bus routes	2009
Establish travel reduction goals	Planned	Reduced annual mileage by district maintenance vehicles		2009

<b>2.2 Stationary Fuel Combustion (including electricity)</b>				
<b>Action</b>	<b>Action Planned</b>	<b>Outcome/Performance Measure</b>	<b>Notes Clarifying Action Taken</b>	<b>Timeframe</b>
Undertake workstation tune-ups to help staff understand what they can do to reduce personal energy use	Planned			2009
Supply power bars – to turn off power to non-essential items when not in use (e.g. phone chargers)	Planned			2009
Undertaken Monitor turn-off challenge	Planned			2009
Replace # computers with EnergyStar models	Planned			2009
Ask staff to close blinds daily	In Progress			2009
Turn off lights in unused rooms	Planned			2009
Replace standard bulbs with CFLs	In Progress			2009
Undertake lighting retrofit	Planned	Reduction in energy consumption and operational savings		2009
Unplug unused equipment	In Progress			2009
Apply for LEED existing building rating				
Undertake building energy audit at LOCATION(s)	Planned		Columbia Park Elementary, Arrow Heights Elementary, School Board Office, Maintenance Facility	2009
<b>2.3 Supplies</b>				
<b>Action</b>	<b>Action Planned</b>	<b>Outcome/Performance Measure</b>	<b>Notes Clarifying Action Taken</b>	<b>Timeframe</b>
Develop document library (online and one printed copy) for large documents	In Progress			2009
Use collaborative software to edit on-line	In Progress			2009
<b>2.4 Travel</b>				
<b>Action</b>	<b>Action Planned</b>	<b>Outcome/Performance Measure</b>	<b>Notes Clarifying Action Taken</b>	<b>Timeframe</b>
Train staff in the use of Live Meeting (or other desktop collaborative software)	In Progress			2009
Initiate Travel Policy	Planned			2009
<b>2.5 Employee Engagement</b>				
<b>Action</b>	<b>Action Planned</b>	<b>Outcome/Performance Measure</b>	<b>Notes Clarifying Action Taken</b>	<b>Timeframe</b>
Provide conservation education	Planned			2009
Develop Green Teams	Planned	All staff will be aware of the Green Teams and their mandate.		2009
Support Green Teams (resources)	Planned			2009
<b>2.6 Sustainability Actions (others)</b>				
<b>Action</b>	<b>Action Planned</b>	<b>Outcome/Performance Measure</b>	<b>Notes Clarifying Action Taken</b>	<b>Timeframe</b>
Use re-usable dishes	Planned			2009
Purchase green cleaning products	Planned	Replacement of existing custodial cleaning products with "green" alternatives	Existing dilution control systems will be changed from 4 chemicals down to only 2 multiuse "green" products.	2009