

**Carbon Neutral Action Report  
School District No. 91 (Nechako Lakes)**

**Executive Summary**

School District No. 91 (Nechako Lakes) has been contributing towards carbon neutrality for a number of years by actively investing in equipment and lighting retrofits and working with employees and building occupants to reduce energy consumption. Prior to 2008, we have completed many retrofits to our building systems to improve overall systems performance and reduce energy consumption. In conjunction with BC Hydro, we have worked with our employees and students to create awareness in our schools.

The district is replacing our older fleet vehicles with more efficient vehicles and we continue to use sustainable products for cleaning and building maintenance. Our transportation department is actively working to implement anti-idling and driver training programs. We also completed lighting and mechanical audits at a number of locations and developed plans to complete lighting and mechanical retrofits at a number of our schools. We continue to seek out grants through PSECA and other partners including the Ministry of Education to secure funds which allow us to upgrade our physical plants.

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

**Overview**

In the time period January 1, 2008 to December 31, 2008 School District No. 91 has undertaken the following initiatives to reduce GHG emissions:

- In half of the District we have completed an energy audit and feasibility study to define energy saving opportunities and funding options,
- Applied for PSECA grants,
- Installed high efficiency furnaces when replacing units
- Enhancing DDC controls
- Expansion of occupancy sensors for lighting
- Continued upgrading to T-8 fluorescent lights
- Implemented more frequent maintenance of heating systems to ensure efficient operation
- Increased roofing insulation at time of roofing replacements
- Working as a "Power Smart" partner with BC Hydro

**1.1 Mobile Fuel Combustion**

- Retrofitting of school buses for emission reduction
- NRCAN "Smart Driver" training for school bus drivers
- Introduced anti-idling practices for school buses
- Established monitoring program for school bus fuel consumption
- Individual schools have introduced, waste reduction, recycling, composting programs.
- Car pooling when travelling in the district
- More frequent use of telephone or video conferencing

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Replaced 4 VEHICLES with MORE EFFICIENT VEHICLE/Hybrid	In Progress	Replaced four high use fleet vehicles with more fuel efficient vehicles and are disposing of four high mileage/mtce vehicles.	
Provided driver training to reduce fuel use	In Progress	School bus transportation department has certified four drivers to train the rest of the District with the NRCAN "Smart Driver" program	

Fleet maintenance program (could include – changing filters, checking tire pressure, regular check-ups)	Complete	
Established anti-idling behaviour change program (e.g. signs, stickers, messages)	In Progress	School bus transportation department has implemented an anti-idling practice. Signage is being installed at areas where fumes may be drawn in by HVAC systems.
Encouraged car pooling in fleet vehicles	In Progress	Employees regularly car pool from one area of the district to another.
Installed emission controls	In Progress	Installation of emission reducing converters on diesel buses.

### 1.2 Stationary fuel combustion and electricity

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Replaced # computers with EnergyStar models	In Progress	New computers purchased are Energy Star rated.	
Replaced other appliances (with EnergyStar rated appliance)	In Progress	All new appliances purchased are Energy Star rated.	
Installed motion activated lights	In Progress		
Undertaken lighting retrofit	In Progress		
Initiated corporate computer shut-down/wake-up for maintenance	In Progress	Exploring software options	
Undertaken building energy audit at LOCATION(s)	Complete	Energy audits complete at 13 locations. Have applied for grants for retrofits and are	
Initiated or completed a building energy retrofit	In Progress	School retrofitted with Hi-efficiency furnaces.	

### 1.3 Supplies

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Paper Towel 100% recycled	Complete		
Toilet Paper 80% recycled	Complete		

### 1.4 Travel

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Installed Video Conferencing facilities	Complete	Video conferencing is available in the district and usage is increasing.	

### 1.5 Employee Engagement

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Provided climate change education	In Progress	Key personnel participated in "Sustainable Schools Forum"	
Provided conservation education	In Progress		
Provided green tips	In Progress	Including green info in quarterly newsletter to district.	
Supported professional development	In Progress		
Power Smart partner with BC Hydro	In Progress	Acquiring an Energy Manager paid by BC Hydro.	

### 1.6 Sustainability Actions (others)

Action	Action Taken	Outcome/Performance Measure	Notes Clarifying Action Taken
Took water conservation measures – low flow showers or toilets, fix leaks	In Progress	Replacing flush tanks on toilets and urinals with motion activated valves.	
Purchased green cleaning products	In Progress	Transitioning to Enviro safe products.	

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

**Overview**

School District No. 91 (Nechako Lakes) has completed an energy audit and feasibility study for 13 of its 30 facilities. PSECA grant applications have been submitted and a plan to move forward will be finalized once the grants have been awarded. The remaining facilities are scheduled for an audit next fall. Working as a "Power Smart Partner" with BC Hydro we are developing an energy policy and will expand to introduce energy saving initiatives over the coming months. As part of this program we will be hiring an energy manger to help facilitate this. Initiatives will include both physical plant and cultural/educational programs.

**2.1 Mobile Fuel Combustion**

Replacement of fleet vehicles and maintenance equipment will include higher fuel economy and lower emissions. We are using both video and teleconferencing more frequently.

Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Provide driver training to reduce fuel use	In Progress	"Smart Driver" training will be made available to all district staff after all the bus drivers have been trained.		
Initiate new fleet maintenance program (could include – changing filters, checking tire pressure, regular check-ups)	In Progress	Plan to develop a more comprehensive vehicle maintenance standard for fleet vehicles during regular tune-ups.		
Establish anti-idling behaviour change program (e.g. signs, stickers, messages)	In Progress	Part of Smart Driver program.		

**2.2 Stationary Fuel Combustion (including electricity)**

Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Turn off lights in unused rooms	In Progress	Power Smart educational planning.		
Replace Refrigerators (EnergyStar rated appliance)	In Progress		Also recycle old unit.	
Replace other appliances (with EnergyStar rated appliance)	In Progress		Also recycle old unit.	
Install motion activated lights	In Progress	Planned retrofits.		
Undertake lighting retrofit	In Progress			

**2.3 Supplies**

Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Commit to hold paperless meetings	In Progress			6 - 12 months

**2.4 Travel**

Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Set a Travel reduction goal	In Progress			6 - 12 months

**2.5 Employee Engagement**

Action	Action Planned	Outcome/Performance Measure	Notes Clarifying Action Taken	Timeframe
Provide climate change education	in progress		Part of "Power Smart" program	12-36 months
Provide conservation education	in progress		Part of "Power Smart" program	12-36 months
Hold contests to change behaviour/make pledge	in progress		Part of "Power Smart" program	12-36 months
Hold contests/support to generate ideas	in progress		Part of "Power Smart" program	12-36 months
Develop Green Teams	in progress		Part of "Power Smart" program	12-36 months
Support Green Teams (resources)	in progress		Part of "Power Smart" program	12-36 months
Provide green tips	in progress		Part of "Power Smart" program	12-36 months
Support professional development	in progress		Part of "Power Smart" program	12-36 months
Add a green work goal to performance management	in progress		Part of "Power Smart" program	12-36 months

**2.6 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 flush tanks with motion activated valves.		1-5 years