Executive Summary

In 2009 the Board of Education of School District 5 Southeast Kootenay and the province of British Columbia signed the British Columbia Climate action charter. School District 5 is committed to working closely the government agencies such as the climate action secretariat to reach carbon neutrality and to improve on our environmental stewardship.

School District 5 is committed to an ongoing process of energy improvement efficiencies. Building retrofits, improvement to lighting and heating systems, enhanced fleet operations and overall fossil fuel reduction are just some of the areas the District is committed to addressing.

School District 5 is working towards being considered a leader among school districts working towards carbon neutrality and those committed to reducing their carbon footprints. As an educational entity it is our responsibility to ensure all members of our organization have ample opportunity to learn about ways in which we can all strive for carbon neutrality and environmental stewardship.

2012 Green House Gas Emissions

In 2012 School District 5 has produced 3,478 tonnes of greenhouse gas(GHG) emissions. Emissions have been produced in the following proportions:

Emission Source	Tonnes of CO2
Mobile Fuel Combustion	736
Stationary Fuel and Electricity	2666
Supplies(Paper)	76
Fugitive Emissions	

2012 Carbon Neutral Offsets

Total emission offsets have been applied to ensure that School District 5 has fully met the requirements of Bill 44 and is carbon neutral for 2012.

As required by section 5 of the Carbon Neutral Government Regulation, 622 tonnes of CO2 emissions resulting form the operation of school buses were reported as they are "out of scope" under section 4(2) (c) of the Carbon Neutral Government regulation.

Emissions Reduction Activity

2012 Greenhouse Gas Reduction Actions

Building Retrofitting

SD5 is continuing to reduce emissions by maintaining and retrofitting our buildings and the heating, cooling, electrical and other facility systems. We have improved our lighting systems (motion/sound sensors, LED replacement), have made more efficient use of digital control systems, and we continue to address heat containment concerns by improving insulation values, weather stripping and exterior wall sealants.

Our transportation department continues to purchase more fuel efficient vehicles, works toward optimal vehicle maintenance schedules designed to improve fuel efficiencies and has adopted a no idling policy to reduce unnecessary emissions.

2012-2014 Emissions Reduction Initiatives

School District 5 will continue to improve the energy efficiencies throughout our system; in facilities and our vehicle fleet. We are hopeful that the design and completion of our future Mount Baker Secondary School and other capital building projects will attain LEED Gold or Platinum status.

The SD5 Climate Action Team is committed to working with staff and students to move toward further reducing our impact on our environment. Our goal is to engage all District staff and students in an ever-evolving process of awareness and concrete action. Our maintenance department is committed to an "efficiency first" policy when making improvements and upgrades to our facilities. Some of the initiatives taking place in our schools and other District buildings during this past year include:

- 1. Power saver on the computers, computer goes to sleep after 10 15 min when not being used. Shuts down after school.
- 2. Sensor for lighting in rooms. The lights go out after a period of time when unoccupied.
- 3. LED lighting to reduce the cost of electricity usage.
- 4. Toilets and urinals that use less water and will flush automatically to ensure a more hygienic environment.

5. DDC systems so we can regulate school temperatures and have better control on 2the power that is used in our schools.

Our District will continue to explore the myriad ways in which we can reach our goal of carbon neutrality.

Signature/

Date

Robert & Norum, Secretary Treasurer

School District No.5 (Southeast Kootenay)

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	Steps Taken	Steps Planned	Start Year	End Year
Mobile Fuel Combustion (Fleet and other)					
Behaviour change program					
Provide fleet driver training to reduce fuel use	Ongoing/In Progress	Driver training offered in October 2012.	We will offer more training in 2014-2015	2012	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	We have continued to educate new District staff about anti-idling and we have continued to remind parents and staff about our policy in and around schools.	We will continue with this program in the coming school year.	2010	No End Date (Continuous)
Encourage carpooling in fleet vehicles	Ongoing/In Progress	We have continued to make carpooling a part of our District culture.	We will continue on with our policy and encourage a greater degree of carpooling when appropriate.	2008	No End Date (Continuous)
Promote alternatives to fleet vehicle travel where possible (e.g., bicycles, public transit, walking)	Ongoing/In Progress	We encourage our staff to ride their bikes or carpool to school. We will continue to replace our bus fleet with the most fuel efficient vehicles available.	We will continue to encourage our staff to ride their bikes or carpool to school. We will continue to replace our bus fleet with the most fuel efficient vehicles available.	2008	No End Date (Continuous)
Vehicle fuel efficiency					
Replace vehicles with more fuel-efficient models	Ongoing/In Progress	We have purchased energy efficient vehicles that get at least 40 MPG. We are committed to purchasing the most fuel efficient vehicles for our fleet.	We will continue to purchase energy efficient vehicles that get at least 40 MPG. We are committed to purchasing the most fuel efficient vehicles for our fleet.	2008	No End Date (Continuous)
Replace larger vehicles with smaller models according to fleet "right- sizing" principles	Ongoing/In Progress	We purchased 4 newer energy efficient vehicles this year that get at least 40 MPG and selling off 6 less effcient vehicles.	We are committed to purchasing more energy efficient vehicles and to replacing larger vehicles with smaller vehicles provided they can perform the same function.	2012	No End Date (Continuous)
Perform regular fleet maintenance to improve fuel-efficiency	Ongoing/In Progress	We will continue with our scheduled maintenance program.	We will continue with our scheduled maintenance program.	2008	No End Date (Continuous)
Stationary Fuel Combustion, Electricity					
Behaviour change program					
Help staff reduce personal energy use through ""workstation tune-ups""	Not Yet Evaluated				No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Not Yet Evaluated				No End Date (Continuous)
Ask staff to unplug electrical equipment or switch off power bars when not in use	Not Yet Evaluated				No End Date (Continuous)
Ask staff to close blinds at end of work day to reduce heating/cooling demands	Ongoing/In Progress	Staff are encouraged to close blinds at the end of each working day.	We will continue to educate new and existing staff as to this procedure.	2008	No End Date (Continuous)
Encourage staff to use air dry setting on dishwashers	Ongoing/In Progress	We have continued to encourage staff to use the air dry setting on our dishwashers in all of our facilities.	We will continue to encourage staff to use the air dry setting on our dishwashers in all of our facilities.	2011	No End Date (Continuous)
Provide tips to staff on saving energy in the office while working outside of regular business hours	Not Yet Evaluated				No End Date (Continuous)
Encourage use of stairs instead of elevators	Ongoing/In Progress	We encourage the use of stairs in all of our facilities.	We will continue to encourage the use of stairs in all of our facilities.	2008	No End Date (Continuous)
IT power management					
Install power management software which shuts down computers outside of regular business hours	Ongoing/In Progress	We have equipped all district computers with software that will automatically shut the computer down after one half hour of inactivity.	We will continue to make this feature mandatory in 2013 and subsequent years.	2012	No End Date (Continuous)
Implement server virtualization	Ongoing/In Progress	Please see above.	We will complete the process of moving our servers to VM's.	2012	No End Date (Continuous)
Apply auto-sleep settings on computer monitors and CPUs	Ongoing/In Progress	Auto sleep was initiated on most computers this year.	All new computers will be equipped with auto sleep.	2011	No End Date (Continuous)

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	Steps Taken	Steps Planned	Start Year	End Year
Remove stand-alone printers, copiers, and/or fax machines and install	Ongoing/In	We have taken out many stand alone printers this year in an effort to	We will continue to reduce the number of stand alone printers in our	2008	No End Date
multi-function devices as part of a print management strategy	Progress	further centralizing printing throughout our district.	district facilities.		(Continuous)
Apply auto-sleep settings on printers, fax machines, and/or multi-	Ongoing/In	All newly purchased or leased printing devices are equipped with	We will continue to purchase or lease printing devices that are	2008	No End Date
function devices	Progress	auto sleep settings.	equipped with auto sleep settings.		(Continuous)
Replace computers with ENERGY STAR models during regular	Ongoing/In	We are implementing a replacement program that will entail	All future computer purchases and leases will be Energy Star efficient	2012	No End Date
computer upgrades	Progress	replacing the bulk of our computers with Energy Star model laptops.	models whenever possible.		(Continuous)
Owned buildings					
Establish energy performance baseline for owned buildings	Not Yet				No End Date
	Evaluated				(Continuous)
Register for performance labelling/certification for operations and	Not Yet				No End Date
maintenance of owned buildings (e.g., LEED EB:O&M)	Evaluated				(Continuous)
Register for performance labelling/certification for commercial interiors of	Not Yet				No End Date
owned buildings (e.g., LEED CI)	Evaluated				(Continuous)
Perform energy retrofits on existing, owned buildings	Ongoing/In	As stated above Motion sensor lighting has been installed in most	We will continue to look for opportunities for energy saving through	2011	No End Date
	Progress	Distrcit buildings. LED's have repalced traditional lights in some	retrofitting.		(Continuous)
		areas.			
Planning/management					
Reduce office space (square meters) per employee	Ongoing/In	Please see above.	We will continue to look at making the most from the office and	2008	No End Date
	Progress		school space available to us.		(Continuous)
Install a real time metering system (e.g. Pulse, Reliable Controls, Houle	Ongoing/In	Please see above.	We will continue to use the Delta model and upgrade the system	2008	No End Date
Controls)	Progress		when necessary.		(Continuous)
Retrofit details for owned buildings					
Upgrade mechanical systems (heating, cooling, ventilation) during	Ongoing/In	As stated above we have upgraded 5 furnaces in three of our	We will continue to upgrade equipment as necessary.	2008	No End Date
retrofits	Progress	schools this year.		22.12	(Continuous)
Upgrade lighting systems during retrofits	Ongoing/In	As stated above we have now completed a process of putting most	Any new structures that we use will be equipped with motion sensor	2010	No End Date
	Progress	of our lighting on sensors.	lighting in the future.	0010	(Continuous)
Upgrade/adjust control systems during retrofits	Ongoing/In	Please see above.	No new steps are planned at this time.	2012	No End Date
language had dispersion and stime (in all office a visual access) at using a set of the	Progress	Diagon and alternative		2040	(Continuous)
Improve building insulation (including windows) during retrofits	Completed (in			2012	2012
0 (0)	Reporting Year)				
Supplies (Paper)					
Behaviour change program					
Encourage staff to hold paperless meetings or presentations (i.e., no	Ongoing/In	We will continue to encourage our staff to hold paperless meetings	We will continue to encourage our staff to hold paperless meetings	2009	No End Date
handouts)	Progress	and attempt to cut down on frivolous paper usage.	and attempt to cut down on frivolous paper usage.		(Continuous)
Electronic media in place of paper					
Use electronic document library for filing common documents	Ongoing/In	During 2012 our District continued to add to our extensive electronic	As stated above, we are committed to reducing the amount of hard	2008	No End Date
	Progress	cache of digital documentation.	copy documentation we produce and consume by making more		(Continuous)
			extensive use of digital documentation.		
Switch to an electronic payroll notification system in place of paper pay	Ongoing/In	Please see above.	We will continue to use our electronic payroll system.	2008	No End Date
stubs	Progress				(Continuous)
Printer/document settings					
Switch networked printers and photocopiers to automatic double-sided	Ongoing/In	We have continued to encourage double sided printing whenever	We will continue to encourage double sided printing whenever	2008	No End Date
•	Progress	possible.	appropriate.		(Continuous)

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

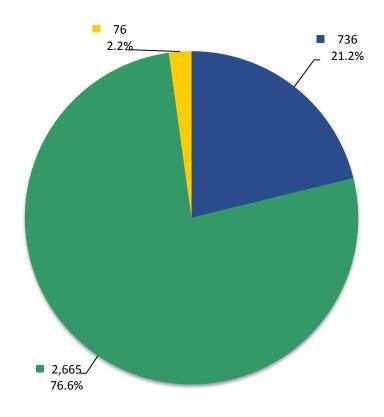
Action	Status	Steps Taken	Steps Planned	Start Year	End Year
Business Travel					
Behaviour change program					
Train staff in web-conferencing	Ongoing/In Progress	Staff are and will continue to be trained in web conferencing.	We will continue to train staff in the use of web conferencing.	2008	2008
Encourage staff to consider virtual attendance/presentation at events where possible	Not Yet Evaluated				No End Date (Continuous)
Encourage carpooling to meetings	Ongoing/In Progress	Carpooling is always strongly encouraged in our organization.	We will continue to strongly encourage carpooling.	2008	No End Date (Continuous)
Policy and budgeting					
Create a low-carbon travel policy or travel reduction goal	Not Yet Evaluated				No End Date (Continuous)
Virtual meeting technology					
Install web-conferencing software (e.g., Live Meeting, Elluminate, etc.)	Ongoing/In Progress	We have continued to use web conferencing whenever possible.	We will continue to use web conferencing in the coming years.	2008	No End Date (Continuous)
Make desktop web-cameras available to staff	Ongoing/In Progress	All of our computers are equiped with web cams.	New computers purchased will be equipped with web cams.	2008	No End Date (Continuous)
Install video-conferencing units in meeting rooms or provide mobile video-conferencing units	Ongoing/In Progress	We have made use of video conferencing for many years.	We will continue to make use of video conferencing whenever possible.	2008	2008
Education, Awareness, and Engagement					
Awards/Recognition					
Establish a sustainability/green awards or recognition program	Not Yet Evaluated				No End Date (Continuous)
Staff Professional Development					
Support green professional development (e.g., workshops, conferences, training)	Not Yet Evaluated				No End Date (Continuous)
Include green options in employee performance measurement system	Not Yet Evaluated				No End Date (Continuous)
Staff awareness/education					
Provide education to staff about the science of climate change	Not Yet Evaluated				No End Date (Continuous)
Provide education to staff about the conservation of water, energy, and	Not Yet				No End Date
raw materials	Evaluated				(Continuous)
Provide green tips on staff website or in newsletters	In Development	We are sending out green tips via email but we need to do this more consistently.	We will become more consistent in our delivery of green information to our organization.	2011	No End Date (Continuous)
Provide sustainability education during new staff orientation	Not Yet Evaluated				No End Date (Continuous)
Team-building					
Create Green, Sustainability, Energy Conservation, or Climate Action Teams with executive endorsement	In Development	We will continue to work on developing District and school teams.	We will continue to work on developing District and School teams.	2011	No End Date (Continuous)
Provide resources and/or dedicated staff to support teams	In Development	We have a dedicated person on staff to initiate the development of our teams.	We will continue to support our dedicated staff support person.	2011	No End Date (Continuous)
Providing behaviour change education/training to teams (e.g., community-based social marketing)	Not Yet Evaluated				No End Date (Continuous)
Other Sustainability Actions				<u> </u>	, , , , , , , , , , , , , , , , , , , ,

Actions to Reduce Provincial Emissions and Improve Sustainability

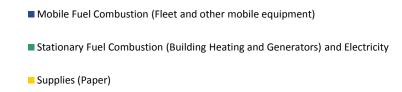
The actions listed below contribute to a reduction in greenhouse gas emissions from sources that fall outside of the reporting requirements defined in the carbon neutral government regulation of the Greenhouse Gas Reduction Targets Act. Public sector

Action	Status	Steps Taken	Steps Planned	Start Year	End Year
Adaptation to Climate Change					
Assessed whether extreme weather events and/or long term changes in	Not Yet				No End Date
climate will affect the organization's business areas	Evaluated				(Continuous)
Integrated considerations of extreme weather events and/or long term	Not Yet				No End Date
changes in climate into the organization's decision making.	Evaluated				(Continuous)
Building construction, renovation					
Establish a policy to reuse materials where possible and divert	Not Yet				No End Date
construction and demolition debris from landfills and incineration facilities	Evaluated				(Continuous)
Incorporate lifecycle costing into new construction or renovations	Not Yet				No End Date
	Evaluated				(Continuous)
Commuting to and from home					
Introduce telework/work from home policy	Not Yet				No End Date
	Evaluated				(Continuous)
Offer staff a compressed work week	Not Yet				No End Date
	Evaluated				(Continuous)
Encourage commuting by foot, bicycle, carpool or public transit	Ongoing/In	Our District encourages car pooling and many staff ride together to	We will continue to encourage our staff to car pool.	2008	No End Date
	Progress	work.			(Continuous)
Provide shower or locker facilities for staff/students who commute by	Ongoing/In	Many of our facilities have showers and lockers for staff use.	We will continue to provide shower facilities and ensure they are a	2008	No End Date
foot or by bicycle	Progress		part of any future building.		(Continuous)
Provide secure bicycle storage	Ongoing/In	Most of our facilities have secure bicycle storage.	We will continue to provide secure bicycle storage in our present and	2008	No End Date
	Progress		future facilities.		(Continuous)
Procurement (non-paper supplies)					
Incorporate minimum recycled content standards into procurement	Not Yet				No End Date
policy for consumable, non-paper supplies (e.g., writing instruments,	Evaluated				(Continuous)
binders, toner cartridges, etc.)					
Establish green standards for goods that are replaced infrequently	Not Yet				No End Date
and/or may require capital funds to purchase (e.g., office furniture,	Evaluated				(Continuous)
carpeting, etc.)					
Implement sustainable purchasing program for cleaning products,	Not Yet				No End Date
disposable paper products and trash bags	Evaluated				(Continuous)
Waste reduction/diversion					
Put in place an operations policy to facilitate the reduction and diversion	Not Yet				No End Date
of building occupant waste from landfills or incineration facilities	Evaluated				(Continuous)
Implement a hazardous waste reduction and disposal strategy	Ongoing/In	We have a procedures in place to recycle and dispose of all	We will continue to dispose of all hazardous materials in a safe and	2008	No End Date
	Progress	hazardous and recyclable materials.	timely manner. We will also recycle our computer parts at the		(Continuous)
			appropriate facilities.		
Water conservation					
Establish a water conservation strategy which includes a plan or policy	Ongoing/In	Our plan is to replace aging water systems with efficient models.	We will continue with our plan to replace aging water systems with	2008	No End Date
for replacing water fixtures with efficient models	Progress	Our toilets are being replaced with sensor models.	efficient models. Our toilets are being replaced with sensor models.		(Continuous)
Put in place a potable water management strategy to reduce potable	Not Yet				No End Date
water demand of building-level uses such as cooling tower equipment,	Evaluated				(Continuous)
toilet fixtures, etc. and landscape features					

School District 05 - Southeast Kootenay Greenhouse Gas Emissions by Source for the 2012 Calendar Year (tCO₂e*)



Total Emissions: 3,478



Offsets Applied to Become Carbon Neutral in 2012 (Generated May 28, 2013 3:27 PM)

Total offsets required: 2,856. Total offset investment: \$71,400. Emissions which do not require offsets: 622 **

^{*}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.