

SCHOOL DISTRICT NO. 69 (Qualicum)
2015 Carbon Neutral Action Report

This is the 2015 Carbon Neutral Action Report for School District No. 69 (Qualicum). This report contains our 2015 emissions profile, offsets purchased, the actions we have taken in 2015 to reduce our GHG emissions and our plan to continue reducing emissions in 2016 and beyond.

By June 30 School District No. 69 (Qualicum)'s final CNAR will be posted to our website at www.sd69.bc.ca

Executive Summary:

The district concluded the creation of a Board wide Strategic Plan in 2013. This plan included the following items which are applicable to emission reduction:

- Under values: "Social responsibility and environmental sustainability" and "Innovation as a means of ensuring that we respond and adapt to a changing world and new understandings".
- As a Guiding Principle: "Stewardship of the public investment in education in our community is crucial – this requires an unwavering commitment to fiscal responsibility and allocation of resources based on identified needs and strategic priorities." We see this guiding principle as including environmental stewardship as part of fiscal responsibility.

In 2014 the district concluded with a Framework for Action which included specific items the district embarked upon to meet the goals of the strategic plan.

Energy conservation is part of our ongoing work. Efforts to conserve energy are included throughout our 5 year capital plan and our Annual Facility Grant projects. In 2015, the district completed the following projects which will directly reduce carbon emissions:

- Through the replacement of end of life buses, the district chose to replace one with a propane bus. The district plans to continue evaluating every bus replacement and consider whether to purchase propane over diesel buses. We also continue to review the size of buses required in order to conserve energy.
- Engineering studies for boiler replacements were performed on three sites. In 2015 the District received funding to support 2 of the 3 replacements and will be going forward on those upgrade projects to replace the old boilers with high efficiency units.
- During summer 2015 the District did a replacement of the old boilers at Oceanside Elementary and installed high efficiency ones. This site runs on gas and we should now see a considerable reduction of our consumption.
- The district is continuing to make significant improvements to one of our isolated sites by finding ways to use less energy and alternate energy. Currently this site is reliant on energy produced by a diesel generator, by replacing the systems batteries and converter with new ones we are increasing the efficiency of the system overall, i.e. reducing the amount of energy lost. The district has also recently installed solar panels which decrease our dependence on the usage of diesel generator power. We also continue to work with local groups to investigate alternative energy solutions which may further reduce or eliminate the use of a diesel generator in the future.

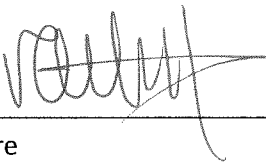
Energy conservation continues to be a goal for the district. Our Operations and Maintenance department has completed several projects that have implemented controls for heat and lights, retrofits for lighting and replacing plumbing fixtures with low flow units. These are all part of day to day operations.

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Emissions and Offsets Summary:

School District No. 69 (Qualicum) Emissions and Offsets (tCO₂e)			
GHG Emissions created in calendar year:	2015	2014	2013
Total Emissions	1,876	1,953	2,206
Total Offsets for the Reporting Year	1,406	1,487	1,633
Prior Year Adjustments (tCO ₂ e)	0		
Net 2015 Offset Requirements (tCO ₂ e)	1,406		

In 2015, School District No.69 (Qualicum) paid \$39,086.25 to purchase offset credits. The District maintains a bus fleet for which offsets were not purchased. As required by section 5 of the Carbon Neutral Government Regulation, 558.71 tCO₂e of emissions resulting from the operation of school buses were reported as part of our greenhouse gas emissions for 2015. However, they were not offset as they are out of scope under section 4(2)(c) of the Carbon Neutral Government Regulation.



Signature

MAY 30, 2016

Date

ROLLIE KOOP

Name (please print)

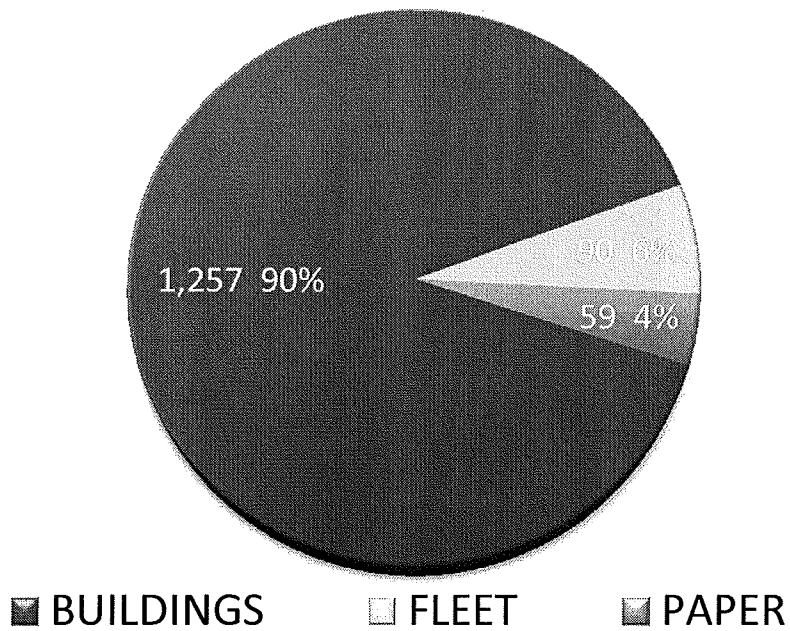
SUPERINTENDENT OF SCHOOLS

Title

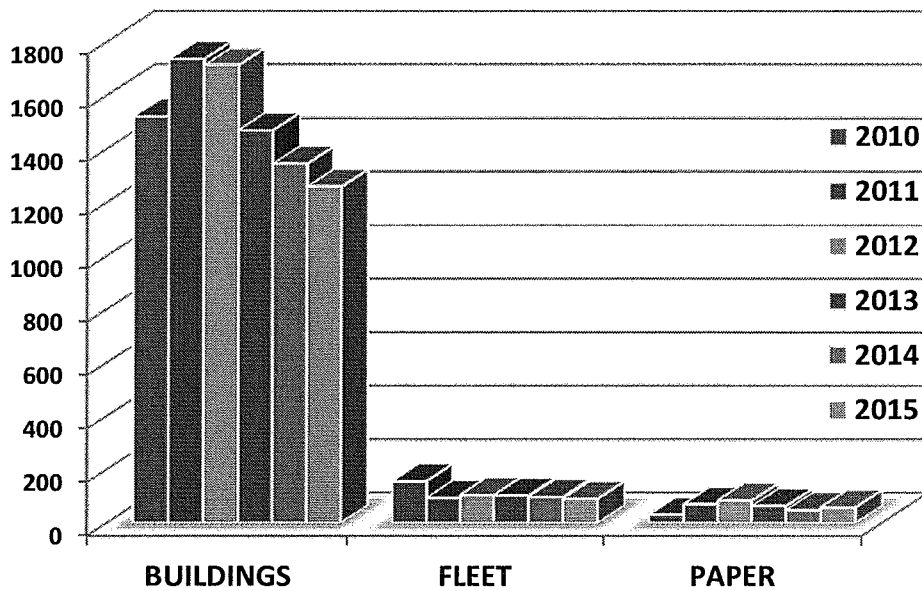
Attached: Charts of GHG Emissions by Source

2015

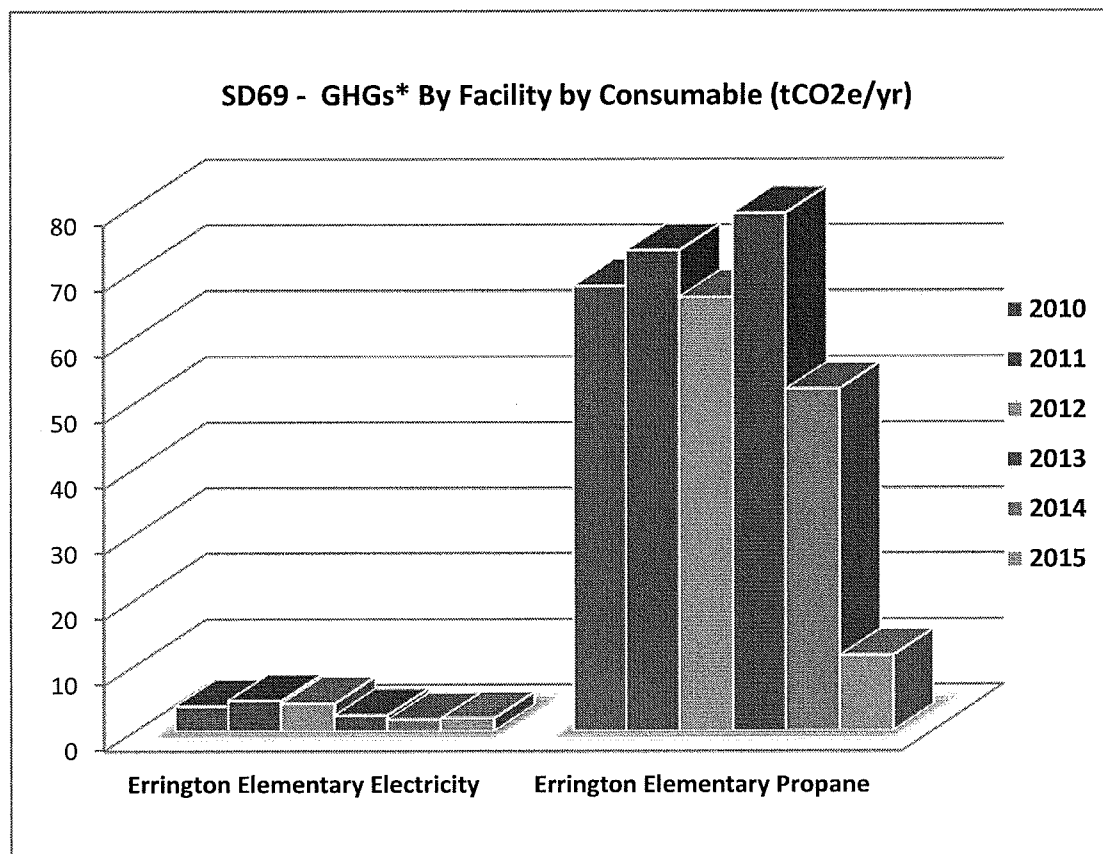
SD69 -GHGs* By Source (tCO₂e)



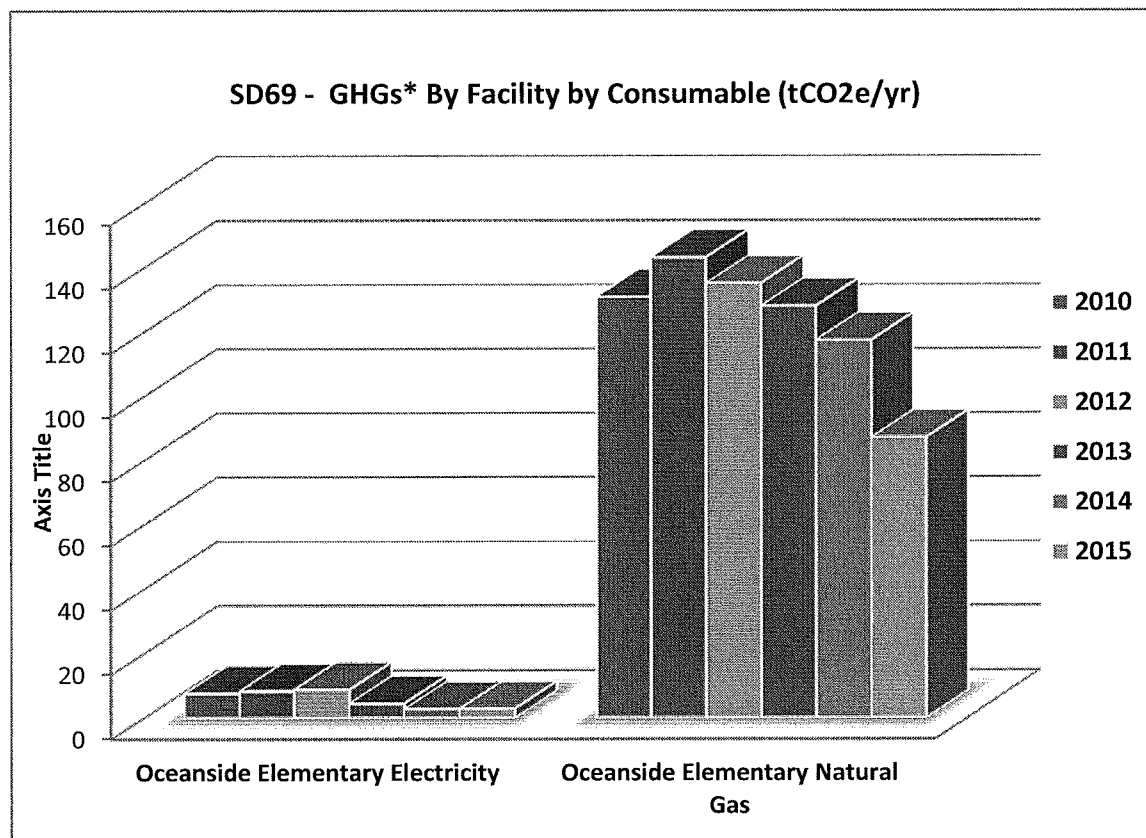
SD69 - GHGs* By Source (tCO₂e/yr)



NOTE: GHG* = Emissions requiring offset purchases.

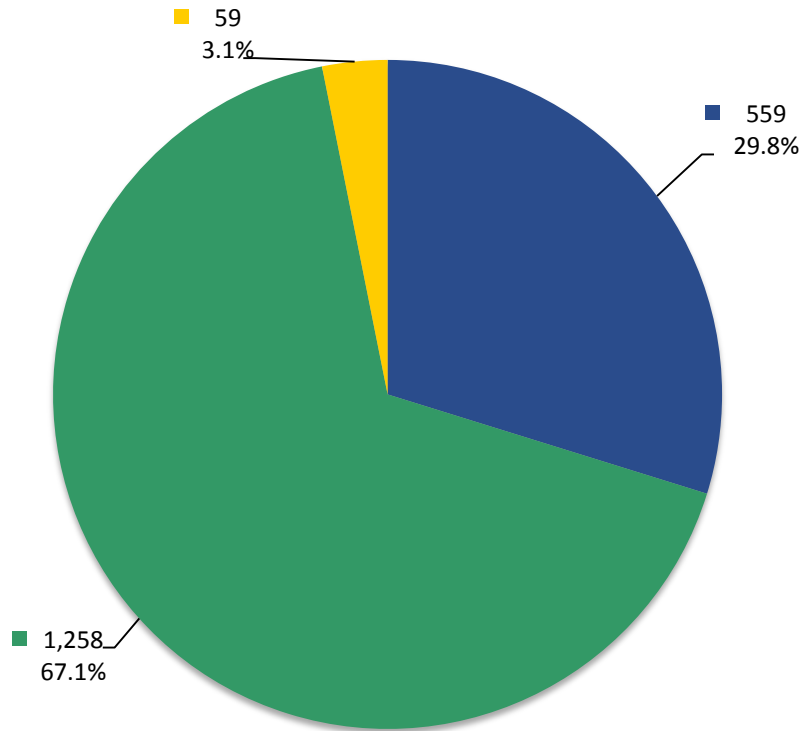


Errington Boiler replacement - Summer 2014



Oceanside Boiler replacement - Summer 2015

**School District 69 - Qualicum
Greenhouse Gas Emissions by Source
for the 2015 Calendar Year (tCO₂e*)**



Total Emissions: 1,876

- Mobile Fuel Combustion (Fleet and other mobile equipment)
- Stationary Fuel Combustion (Building Heating and Generators) and Electricity
- Supplies (Paper)

Offsets Applied to Become Carbon Neutral in 2015 (Generated May 25, 2016 10:18 AM)

Total offsets required: **1,406**. Total offset investment: **\$35,150**. Emissions which do not require offsets: **470** **

*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.

2015 Carbon Neutral Action Report Survey

Organization Name:

School District No. 69 - Qualicum

Please select your sector:

- School District

1) Stationary Sources (Buildings, Power Generators, Ext. Lighting) Fuel Combustion, Electricity use, Fugitive Emissions:

Please indicate which actions your PSO took in 2015:

Have developed an overall strategy/plan to reduce energy use in your organization's buildings inventory:

Yes

If Yes, please describe:

Continue to monitor usage with overall plan to reduce use, some inclusion of school programs to involve students on what they can learn

Undertook evaluations of building energy use:

Yes

Performed energy retrofits on existing buildings:

Yes

Built or are building new LEED Gold or other "Green" buildings:

No

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from buildings:

Boiler replacement at Oceanside, Solar panel installation at False Bay and engineering studies for 3 replacements in 2016 and lighting replacement project in 2016

2) Mobile Sources (Fleet, Off-road/Portable Equipment) Fuel Combustion:

Indicate which actions your PSO took in 2015:

Have put in place an operations policy/program to support systematic reductions in fleet related emissions:

(e.g., program to convert fleet to renewable fuels)

Yes

If Yes, please describe:

Ordered 1 new bus with intent to convert to propane in order to access our ability to pursue this option

Replaced existing vehicles with more fuel efficient vehicles (gas/diesel):

Yes

Replaced existing vehicles with hybrid or electric vehicles:

No

Took steps to drive less than previous years:

No

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from fleet combustion:

We continue to review our bus routes and maintenance staff usage of vehicles in order to optimize time spent running our vehicles

3) Supplies (Paper):

Indicate which actions your PSO took in 2015:

Have put in place an operations policy/program to facilitate a systematic reduction in paper-related emissions:

(e.g., policy to purchase 100% Recycled Content; default to double-sided printing)

Yes

If yes, please describe:

We continue to encourage the purchase of recycled paper stock as well as minimizing the need for printing/copying material in the district and have defaulted all printers to double-sided printing

Have put in place an operations policy/program to facilitate behavioural changes from paper use:

(e.g. awareness campaign to reduce paper use):

Yes

If yes, please describe:

Regular review of our printers with the intent minimizing their numbers and thereby reducing the number of pages printed

Used only 100% recycled paper:

No

Used some recycled paper:

Yes

Used alternate source paper:

(e.g., bamboo, hemp, wheat etc.)

No

Please list any other actions, programs or initiatives that your organization has introduced that support emissions reductions from paper supplies:

(No response)

4) Other Sustainability Actions:

Please note that this section is optional

Business Travel

Created a low-carbon travel policy or travel reduction goal:

(low-carbon = lowest emission of greenhouse gas per kilometer per passenger)

No

Encouraged alternative travel for business:

(e.g. bicycles, public transit, walking)

Yes

Encouraged or allow telework/working from home:

No

Other:

(No response)

Education Awareness

Have a Green/Sustainability/Climate Action Team:

No

Supported green professional development:

(e.g. workshops, conferences, training)

Yes

Supported or provided education to staff about the science of climate change, conservation of water, energy and/or raw materials:

Yes

Other:

(No response)

Adaptation Planning for Climate Risks

Have assessed whether increased frequency of extreme weather events and/or long term changes in climate will affect your organization's infrastructure, its employees and/or its clients:

No

Have incorporated these anticipated changes in climate into your organization's planning and decision making:

No

Other:

(No response)

Other Sustainability Actions

Established a water conservation strategy which includes a plan or policy for replacing water fixtures with efficient models:

Yes

Have put in place an operations policy/program to facilitate the reduction and diversion of building occupant waste stream from landfills or incineration facilities:

(e.g., composting, collection of plastics, batteries)

Yes

Established green standards for goods that are replaced infrequently and/or may require capital funds to purchase:

(e.g., office furniture, carpeting, etc.)

Yes

Incorporated lifecycle costing into new construction or renovations:

Yes

Please list any other sustainability actions your organization has taken not listed above:

(No response)