



School District #45 (West Vancouver) 2013 Carbon Neutral Action Report

Declaration Statement:

This is the 2013 Carbon Neutral Action Report for School District 45 (West Vancouver). This report contains our 2013 emissions profile, offsets purchased, the actions we have taken in 2013 to reduce our GHG emissions and our plans to continue reducing emissions in 2014 and beyond.

By June 40 SD45's final CNAR will be posted to our website at www.sd45.bc.ca.

Executive Summary

The West Vancouver Board of Education renewed its *Strategic Plan* in 2012, focusing on three key issues: educational excellence, system sustainability and community connections. Within the plan are several goals and objectives that focus on the District's work to become more sustainable and move to carbon neutrality. This important work remains a priority for our Board of Education, which endeavours to "promote and facilitate the implementation of environmental education and sustainable practices in the district." <http://www.sd45.bc.ca/docs/StrategicPlan2012-2015.pdf> (Strategic Goal #2 'System Sustainability').

The current report includes a number of areas we continue to explore in our pursuit of increasing sustainability on both the educational and business sides of our organization. As funds become available our Facilities and IT Departments are making both small and large changes to our buildings, with each step bringing us closer to this goal.

We are committed to leveraging technology to change our work behaviors and promote sustainability. The District anticipates completion of a two year classroom modernization plan by August 2014, which involves a rollout of personal devices to all teaching staff in the District and the installation of short-throw projectors in all classrooms. The modernization project aligns our teaching practise with the latest Ministry education initiatives while reducing our carbon footprint through increased use of digital media across all grades. We continue to reduce travel via the use of webinars and hold virtual meetings as appropriate. We continue to reduce the overall number of copiers within the District and as the remaining machines age we are replacing them with energy efficient models. We have set all printing devices and copiers to default to double-sided printing in 2013, and are in the process of implementing a managed-print process at all sites, which will reduce the amount of duplicated or unintentional printing via the use of a secure-print function.

We continue to maintain 'green' practices in our buildings' operational and capital maintenance programs. We engage an engineering firm to monitor our utility consumption at all site and provide regular exception reports, which are used to guide our repair and maintenance schedules. We now have computer management software on all our computers in the district to reduce energy consumption, and maintain an automated energy management system that remotely controls HVAC systems at all sites and reduces utility consumption during low occupancy hours.

A major building envelope upgrade at our Bowen Island Community School was completed during the summer of 2013. Improved insulation, replacement of exterior cladding and the upgrade, size reduction and replacement of windows and skylights are all contributing to a reduction in energy use at the school. A second building envelope project was undertaken and completed during 2013 at Ecole Pauline Johnson, which again included replacement of exterior cladding, insertion of insulation and replacement of windows.

The District was very pleased to be awarded a second CNCP grant, which will be used to replace aging boilers at West Vancouver secondary school, our largest school site, in 2014. This upgrade should result in an estimated annual CO2 savings of 64.04 tonnes, a 16% reduction in annual carbon emissions for the site.

North Shore guidelines on anti-idling are followed, and we continue to encourage students to walk to and from school. Student and PAC activities have resulted in the installation of school gardens and greenhouses at most sites, and Rockridge Secondary School has installed a rooftop solar panel.

The West Vancouver School District had total offsets amounting to 1,710 tonnes in 2013, a reduction of 14 tonnes from 2012. This modest decrease in offsets over 2012 is due to improved rigour in our energy consumption reporting methods. We use CNCP funding to contract with Prism Engineering to oversee and report on our energy consumption, and continue to actively target consumption at sites identified in their exception reports.

The District continues to encourage and demonstrate paperless working practises. We saw a reduction in paper consumption from 16,257 packages and 100.57 tonnes in emissions in 2012, down to 15,283 packages and 95.95 tonnes in 2013 (487,000 fewer sheets of paper used). All printing devices and copiers in the District are now set to default to double-sided printing. A number of sites also employ a secure-print practise which reduces duplicate print jobs, or print jobs made in error. We anticipate an implementation of this procedure at all sites over the next two years. In concert with the many new initiatives in education, we encourage teaching practises that capitalize on electronic media. We have issued personal devices to all teaching staff and by August 2014 will have completed a two year classroom modernization program involving the installation of short throw projectors. All students and teachers have personal sites within our Sharepoint driven environment, and assignments and reference materials are posted and submitted on-line. We encourage students to bring personal devices to class.

British Columbia has demonstrated leadership in climate action initiatives, and we are committed to achieving these standards in the West Vancouver School District. We are striving to change our environmental behaviours, and continue to take lessons from our students, who are encouraging sustainable practises in our school district every day.



Chris Kennedy, Superintendent of Schools / CEO
West Vancouver School District
1075 21st Street,
West Vancouver BC V7V 4A9
email: ckennedy@sd45.bc.ca @chrkennedy
mobile: 604.202.4379 **direct:** 604.981.1031
www.sd45.bc.ca

2013 Carbon Neutral Action Report (CNAR) - Part 2 ACTIONS

Created Thursday, April 03, 2014

Updated Thursday, April 10, 2014

<https://fluidsurveys.com/surveys/cas-z/2013-cnar-form-bps-actions/9a1057ead6060c9b0a5dde146fa7d1ff/>

Page 1

Please complete the following sections of the 2013 Carbon Neutral Action Report form. Save your work frequently to prevent it from being lost. You can also save a copy for your own use as either a WORD or PDF file using the buttons at the bottom of each page.

This is Part 2 of the Carbon Neutral Action Report form. This section reports on actions taken to reduce emissions during the 2013 calendar year. This information will be included in your final Carbon Neutral Action Report posted on the Ministry of Environment website.

When the form is complete press the submit button on the last page to automatically submit the information to the Climate Action Secretariat (CAS). Do not press submit before you are ready – this may result in a loss of work.

In addition to completing this survey (Part 1 2), you are required to submit your completed Overview (Executive Summary) and Self-Certification Checklist. The 2013 Overview template was included in the email sent and can also be found on the LiveSmart leaders Community.

Please ensure you meet the following reporting deadlines:

A DRAFT 2013 CNAR is due to CAS by March 31, 2014. The draft is comprised of the Overview ONLY (no executive sign-off required).

The FINAL 2013 CNAR is due to CAS by May 30, 2014. The final 2013 CNAR includes Part 1 Part 2 survey form and Overview.

The Self-Certification Checklist is due to CAS by May 15, 2014.

For more information about the Carbon Neutral Government process, please refer to *Becoming Carbon Neutral 2013*, or should you have any questions please contact climateactionsecretariat@gov.bc.ca.

Organization Name

Coast Mountains Board of Education School District 82

Actions Taken to Reduce Emissions

1) Stationary Fuel Combustion, Electricity (Buildings):

Indicate which actions were taken in 2013:

Performed energy retrofits on existing buildings

Yes

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

No

Undertook an evaluation of overall building energy use.

No

Please list any other actions taken to reduce emissions from Buildings:

n/a

2) Mobile Fleet Combustion (Fleet and other vehicles):

Indicate which actions were taken in 2013:

Do you have a fleet?

Yes

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

Yes

Replaced existing vehicles with hybrid or electric vehicles

No

Reduced the overall number of fleet vehicles

Yes

Took steps to drive less than last year

Yes

Please list any other actions taken to reduce emission from fleet:

n/a

3) Supplies (Paper):

Indicate which actions were taken in 2013:

Used less paper than previous year

Yes

Used only 100% recycled paper

No

Used some recycled paper

Yes

Used alternate source paper (Bamboo, hemp, etc.)

No

Please list any other actions taken to reduce emissions from paper use:

n/a

Actions Taken to Reduce Emissions - continued

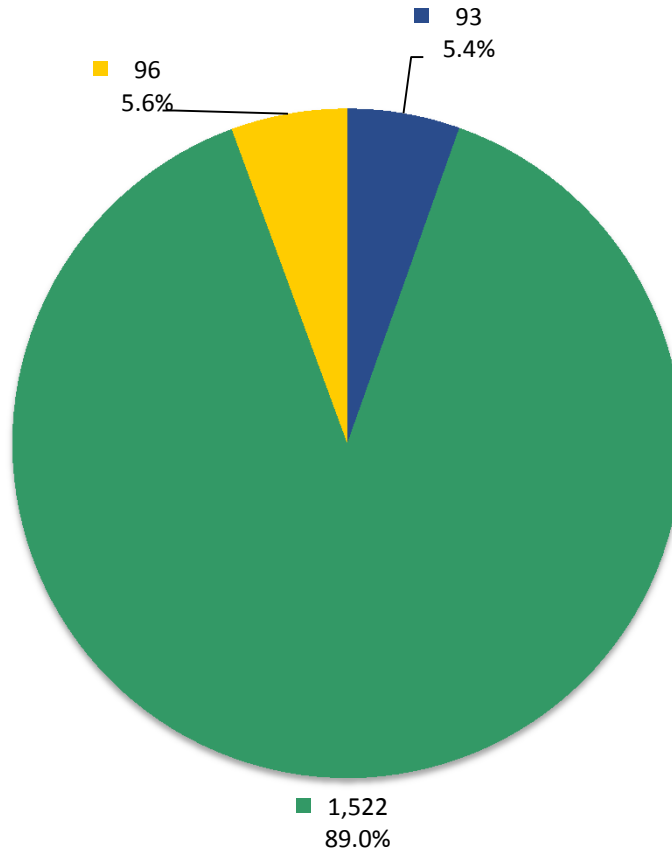
Explain how you plan to continue minimizing emissions in 2014 and future years:

Focus on upgrading existing buildings with greener technology.

If you wish to list any other "sustainability actions" outside of buildings, fleet, paper and travel check "yes". This reporting is optional.

No

School District 45 - West Vancouver Greenhouse Gas Emissions by Source for the 2013 Calendar Year (tCO₂e*)



Total Emissions: 1,710

- 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 2013 (Generated May 21, 2014 3:46 PM)

Total offsets required: **1,707**. Total offset investment: **\$42,675**. Emissions which do not require offsets: **3** **

*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.