



## **School District 45 (West Vancouver) 2017 Carbon Neutral Action Report**

### **Declaration Statement:**

This *Carbon Neutral Action Report* for the period January 1<sup>st</sup> to December 31<sup>st</sup>, 2017, summarizes our emissions profile, the amount of offsets purchased to reach net zero emissions, the actions we have taken in 2017 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2017 and beyond.

By June 30 SD45's final *Carbon Neutral Action Report* will be posted to our website at [www.sd45.bc.ca](http://www.sd45.bc.ca).

### **Overview:**

The West Vancouver Board of Education has maintained its commitment to system sustainability, including a variety of goals that focus on the District's work to reduce its carbon footprint.

The 2007 Greenhouse Gas Reduction Targets Act established the following emission reduction targets for the B.C. public sector:

- By 2020, B.C. will reduce greenhouse gas emissions (GHG) by 33 per cent, compared to 2007 levels.
- By 2050, GHG emissions will be reduced by at least 80 per cent below 2007 levels.
- To meet the legislated targets, all public sector organizations including school districts are required to be carbon neutral.

Achieving carbon neutrality involves four specific actions: measuring operational GHG emissions, reducing emissions where possible, offsetting the remainder of emissions, and reporting on emissions reduction actions. A carbon offset is a greenhouse gas emissions reduction tool that is used to compensate for emissions. Offsets, measured in terms of carbon dioxide equivalency, represent the net reduction in emissions that occurs when carbon offset payments are invested by the provincial government in emissions-reducing projects.

Our *2017 Carbon Neutral Action Report* includes a number of areas we continue to explore in our pursuit of increasing sustainability in both our educational and business practices. Subject to funding, we are making both small and large changes in our teaching practice, our administration, our sites and our infrastructure, with each step bringing us closer to our sustainability goals, including:

- Continuing to replace and upgrade windows, insulation and exterior cladding as part of our ongoing site maintenance program, resulting in more efficient buildings;
- Employing real-time utility monitoring to guide our repair and maintenance activities;
- Converting our entire district from a combination of T8 and T12 fluorescent fixtures to LED technology summer 2018;
- Upgrading the building envelope and mechanical system at Irwin Park Elementary school this summer;
- Joining the BC Hydro Energy Manager program this year has also opened up opportunities to continue to move towards our sustainability goals;
- Renewing our printer/photocopier fleet district-wide, including the installation of tracking software that will enable us to manage and reduce our paper usage;
- Completing an energy assessment summer 2018, and;
- Completing mechanical, electrical, structural audits summer 2018.

All of this information feeds into our long-range Facilities plan as well as our Strategic Energy plan.

Green practices remain a significant focus in our district. Early compliance with new municipal bylaws with respect to waste management has dramatically reduced the waste we direct to landfills, with all sites redirecting green waste and recyclable containers to the appropriate waste streams. Visitors to our sites are encouraged to follow guidelines around vehicle idling, and our school staff and students maintain gardens, greenhouses and composting at almost all sites.

The West Vancouver School District is committed to the province’s climate action initiative. We will continue to improve our environmental behaviors and learn from the leadership provided by our students, who encourage sustainable practices in our district every day.

<b>School District 45 (West Vancouver) GHG Emissions and Offsets for 2017 (TCO2E)</b>	
<b>GHG Emissions created in Calendar Year 2017:</b>	
Total Emissions (TCO2E)	1,522
Total Offsets (TCO2E)	1,520
<b>Adjustments to GHG Emissions Reported in Prior Years:</b>	
Total Emissions (TCO2E)	0
Total Offsets (TCO2E)	0
<b>Total Emissions for Offset for the 2017 Reporting Year</b>	
Total Offsets (TCO2E)	1,520



Chris Kennedy, Superintendent of Schools / CEO

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# Part 1: CNAR Survey

## 1. General Information

Name: Wade Hickey

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Organization Name: West Vancouver Schools (SD45)

Sector: School District

## 2. Stationary Sources (eg. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

During 2017, did your organization take any of the following actions to support emissions reductions from buildings? (please select all that apply)

None of the above

If you selected "*Performed energy retrofits of the organization's building(s)*":

How many buildings were retrofitted?:

If you selected "*Built, or are building new LEED Gold or other "Green" buildings*":

How many new "Green" buildings?:

Did your Organization perform any retrofits during 2017? Please describe briefly:

## 2a. Stationary Sources (eg. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

Please briefly describe your organization's plans to continue reducing emissions from its stationary sources:

### a) Over the next 1-5 years

Conducted an energy audit/study of buildings in organization's portfolio.  
Conduct structural, mechanical, electrical and building envelop audit/study of buildings in organizations portfolio  
Perform energy retrofits of organization's buildings  
LED retrofit of organizations buildings  
Develop long range Facilities plan

### b) Over the following 6-10 years

Implement long range Facilities plan  
convert school district over to LED lighting  
Building envelop and mechanical system upgrade at Irwin Park

## 3. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:

During 2017, did your organization take any of the following actions to support emission reductions from its mobile sources? (please select all that apply)

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

If you selected "*Replaced existing vehicles with more fuel efficient vehicles (gas/diesel)*":

How many vehicles?: 2

If you selected "*Replaced existing vehicles with hybrid or electric vehicles*":

How many vehicles?:

### 3a. Mobile Sources (Vehicles, Off-road/portable Equipment): Fuel Combustion:

Please briefly describe your organization's plans to continue reducing emissions from its mobile sources:

a) Over the next 1-5 years

fleet replacement program

b) Over the following 6-10 years

### 4. Supplies (Paper): Indicate which actions your PSO took in 2017:

During 2017, did your organization take any of the following actions to support emissions reductions from paper supplies? (please select all the apply)

None of the above

4) Supplies (Paper): Indicate which actions your PSO took in 2017: - Other? Please describe briefly:: new printing equipment installed throughout the district

If you selected "*Had a policy requiring the purchase of recycled content paper*":

State the required recycled content here (30%, 50%, 100%):

If you selected "*Had a policy requiring the purchase of alternate source paper (bamboo, hemp, wheat, etc)*", which type of alternate source paper did you use?

Please briefly describe your organization's plans to continue reducing emissions associated with its office paper use in future years.

## 5. Other Sustainability Actions

### a) Business Travel

During 2017, did your organization take any of the following actions to support emissions reductions from business travel? (please select all that apply)

None of the above

### b) Education/Awareness

During 2017, did your organization have any of the following programs or initiatives to support sustainability education and awareness? (please select all that apply)

Support for professional development on sustainability (e.g. workshops, conferences, training)

5a) Other Sustainability Actions - Other? Please specify: Joined BC Hydro Energy Manager program

### c) Other Sustainability Actions

During 2017, did your organization have any of the following programs or initiatives to support sustainability? (please select all that apply)

A water conservation strategy which may include a plan or policy for replacing water fixtures with efficient models; Lifecycle costing of new construction or renovations