

# 2019

## Carbon Neutral Action Report



**WEST  
VANCOUVER  
SCHOOLS**

*A world of opportunity*

## Organization

West Vancouver Schools (School District #45)

The school district draws students from West Vancouver, Bowen Island, Lions Bay and beyond. It is comprised of 14 elementary and 3 secondary institutions.

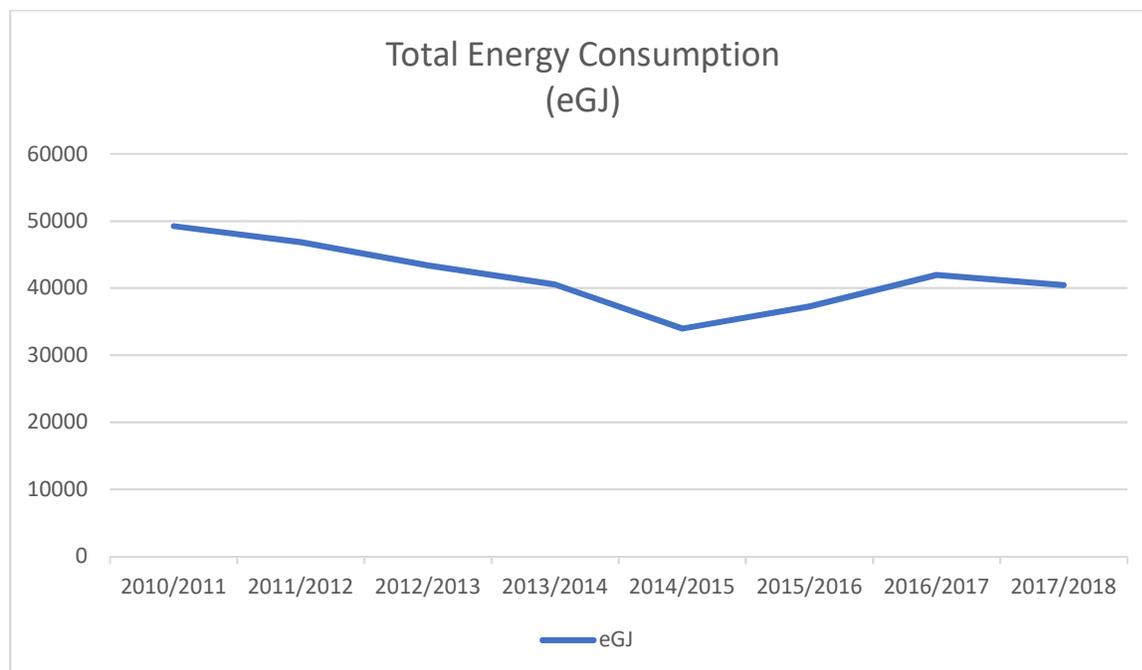
## Declaration Statement

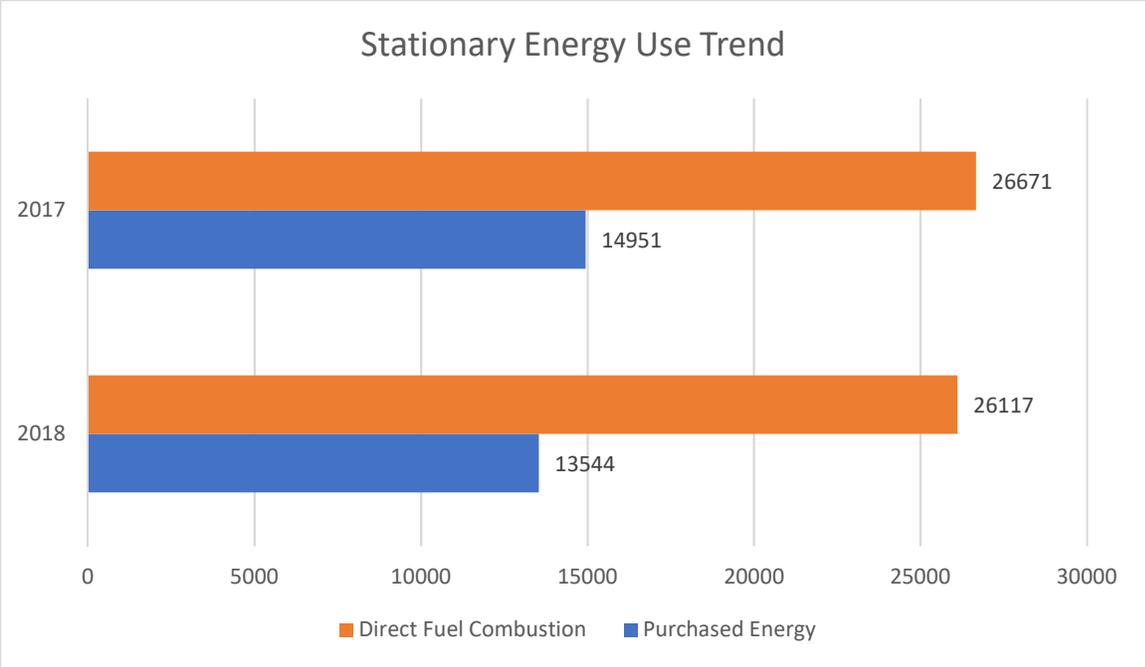
This Carbon Neutral Action Report for the period January 1, 2019 to December 31, 2019 summarizes our emissions profile, the total offsets to reach net-zero emissions, the actions we have taken in 2019 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2020 and beyond.

## Overview

The Climate Change Accountability Act legislated targets for British Columbia's public sector for reducing greenhouse gases (GHG) and provided a climate change accountability framework. Under the Act, the province's GHG emissions are to be reduced by at least 40 per cent below 2007 levels by 2030, 60 per cent by 2040, and 80 per cent by 2050. To meet these targets, West Vancouver Schools is required to be carbon neutral – involving four specific actions: measuring operation GHG emissions, reducing emissions, offsetting the balance of emissions, and reporting on the school district's actions to reduce emissions.

Over the years, West Vancouver Schools has strived to meet the reduction challenge. The school district's total energy consumption decreased by 18% from 2010 to 2018.





### Actions Taken in 2019 to Minimize Emissions

In consultation with an engineering firm, the school district completed phase I of its HVAC renewal for Ridgeview Elementary. Three boilers were replaced with units of a higher 96% Annual Fuel Utilization Efficiency (AFUE).

A similar exercise was completed for Caulfeild Elementary, whereby its boiler was replaced with a unit having a 95.0% combustion efficiency.

At Rockridge Secondary, four furnaces were replaced with units having 95.0% combustion efficiency.

Aside from the energy-efficient HVAC systems, the school district also placed occupancy awareness front of mind as part of its programming during the heating season. Where there are no events lined up for specific spaces (e.g., gymnasiums, etc.), the school district’s HVAC technician adjusts the default schedule of the building systems.

### Plans to Continue Reducing Emissions in 2020 And Beyond

West Vancouver Schools’ 2019-2022 Strategic Plan incorporates its commitment to adopting practices to address climate change and sustainability. Such practices include partnerships with organizations such as utility companies, energy management companies, and consultants, that track school energy consumption and identify savings opportunities.

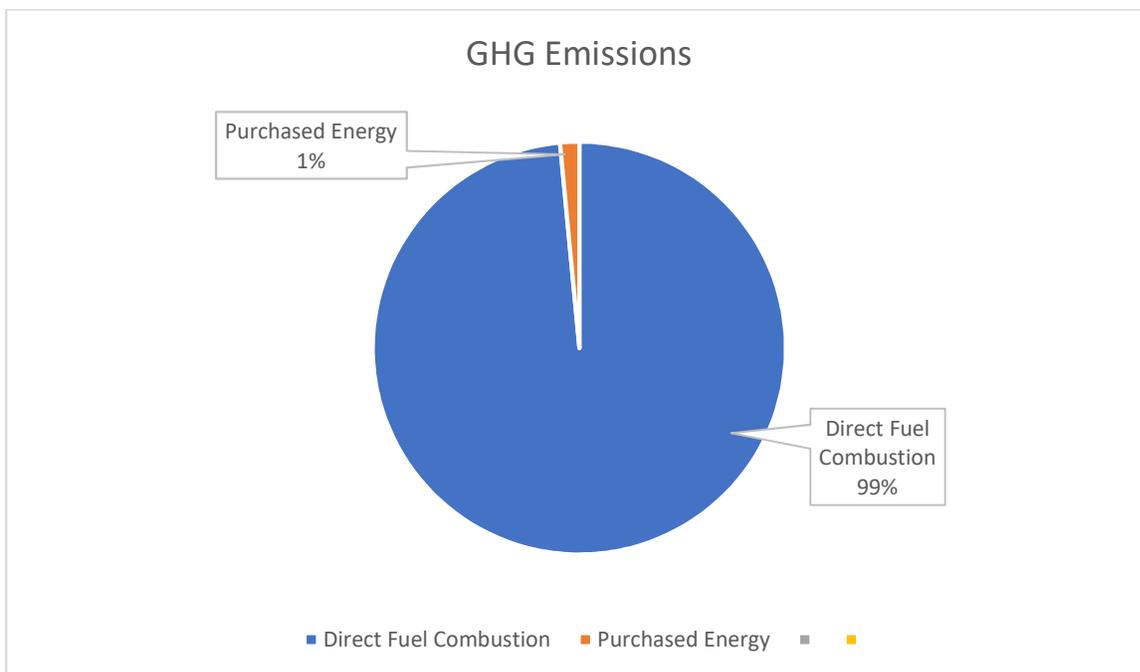
The school district will continue to invest time to find improved operating performance in its facilities and fleet – maintaining an open channel to technology offerings from its suppliers and entrepreneurs.

As part of its maintenance and renewal plan, the school district will build energy savings into its purchasing criteria when replacing building system components. This criterion may be considered integral to the school district's return on investment (ROI).

Case in point is the retrofitting of LED lighting across the school district. Since the completion of the project, electric consumption continues to fall below previous numbers. While it may have been a substantial investment, the school district will continue to enjoy the returns for many years to come.

Another example is the installation of a solar powered LED exterior lighting. A cost-prohibitive rewiring of a lamp post led to this innovative exercise. Although a very minor endeavour, it demonstrates the potential of what could end up being a retrofitting standard.

## Greenhouse Gas Emissions



## Emissions and Offset Summary Table

West Vancouver Schools GHG Emissions and Offsets for 2019	
As per the Directive issued March 31, 2020, each PSO will use their 2018 GHG Emissions as a placeholder for the purpose of their 2019 CNAR.	
Total Emissions (tCO <sub>2</sub> e)	1490.36
Total BioCO <sub>2</sub>	2.36
Total Offsets (tCO <sub>2</sub> e)	1488
Offset Investment (\$25 per tCO <sub>2</sub> e)	\$37,200

### Retirement of Offsets

In accordance with the requirements of the *Climate Change Accountability Act* and Carbon Neutral Government Regulation, West Vancouver Schools (**the Organization**) is responsible for arranging for the retirement of the offsets obligation reported above for the 2019 calendar year, together with any adjustments reported for past calendar years (if applicable). The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy (**the Ministry**) ensuring that these offsets are retired on the Organization's behalf, the Organization will pay within 30 days, the associated invoice to be issued by the Ministry in an amount equal to \$25 per tonne of offsets retired on its behalf plus GST.

### Executive Sign-Off



June 08, 2020

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Signature

Date

Julia Leiterman

Secretary-Treasurer & CFO

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Name (please print)

Title