



2019 CARBON NEUTRAL ACTION REPORT



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For this year's report we chose to focus on the theme of local birds. Birds are one of the most common forms of wildlife seen and heard in urban areas and provide Surrey residents with a regular connection to nature. Diverse in form and habit, the health of the local bird population depends on having sufficient habitat. Education helps engender appreciation and in the case of wildlife, conservation. Many students have increased their environmental awareness and knowledge by participating in Surrey Schools' outdoor education programs.





DECLARATION STATEMENT

This Carbon Neutral Action Report for the period January 1st, 2019 to December 31st, 2019 summarizes our actions and GHG emissions but due to COVID-19 impacts, the provincial government has directed organizations to submit an interim report using their 2018 GHG emissions values for carbon offsets with final reporting of 2019 values due by October 2020. Aside from the 2018 emissions profile, this report contains information related to the actions taken in 2019 to reduce our greenhouse gas emissions and our plans to continue reducing emissions in 2020 and beyond.

By June 30, 2020 Surrey Schools' final Carbon Neutral Action Report will be posted to our website at www.surreyschools.ca

***Despite continual growth, Surrey
Schools has reduced emissions by 15%***





EXECUTIVE SUMMARY

On behalf of Surrey Schools, we are pleased to submit our Carbon Neutral Action Report for 2019. We continue to enhance our focus on sustainability across our organization, both in our operations and through integration in the curriculum. Surrey Schools' Board of Education has adopted an environmental sustainability policy that recognizes the importance of the natural environment in building a healthy and sustainable future and acknowledges our responsibility to conduct business in an environmentally responsible manner.

Surrey Schools is committed to continuing to enhance our sustainability and is undertaking projects and efforts in key impact areas identified in a draft environmental vision and framework that were created as part of the process that will contribute to the development of a sustainability strategy. The culture of sustainability in our schools is the result of the actions and commitments by both students and staff.

Over the past year, we have continued our efforts to reduce our greenhouse gas emissions and overall environmental footprint. Our primary focus is on our largest source of greenhouse gas (GHG) emissions, the energy used to heat and power our schools and other buildings. 2019 saw successful completion of a number of energy efficiency projects as part of our comprehensive strategic energy management program.

Surrey Schools has achieved significant progress in reducing our GHG emissions and energy use over the past decade; since our 2010 baseline, we have been able to reduce emissions by 15% in spite of continual growth in facility space and student enrollment over this time period.

The scientific evidence shows that our climate is changing at an unprecedented pace. Provincial public sector emissions targets are ambitious but Surrey Schools is committed to doing our part to further reduce greenhouse gas emissions. In 2020 and beyond we will continue to deliver environmental sustainability educational programs and make investments in creating energy efficient and low carbon schools that provide comfortable learning spaces and protect the future of our students and staff.

A handwritten signature in black ink, reading "Jordan Tinney".

Dr. Jordan Tinney
Superintendent of Schools/CEO

A handwritten signature in blue ink, reading "D. Greg Frank".

D. Greg Frank
Secretary -Treasurer





ABOUT SURREY SCHOOLS

The Surrey School District was formed in 1906 and is the largest of 60 school districts in the province of British Columbia. Surrey Schools is governed by an elected board of seven trustees representing the cities of Surrey and White Rock.

One of the fastest growing districts in the province, the Surrey School District is dedicated to the vision of leadership in learning.

The Surrey School District runs 133 buildings to support kindergarten to Grade 12 students in Surrey, White Rock, and Barnston Island and employs more than 11,000 teachers, administrators, professionals and support staff, all of whom work tirelessly to ensure that children are getting the best start they can and preparation to be the leaders of tomorrow.

Surrey Schools Quick Facts

72,996 K-12 Students

11,731 Staff including

6,255 Teachers

\$725 million Operating Budget

101 Elementary Schools

20 Secondary Schools

5 Learning Centres

4 Adult Education Centres

3 Administration Buildings

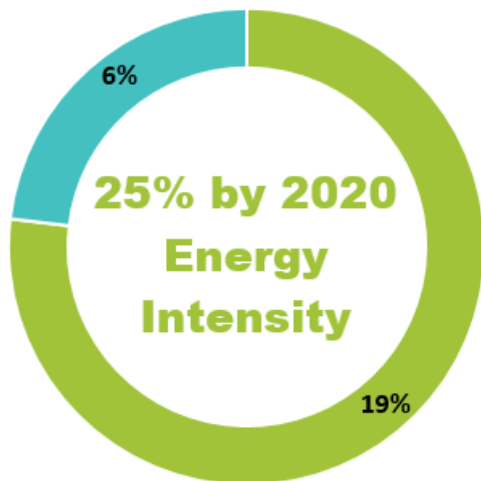
School populations ranging from **80 to 1,902 students**



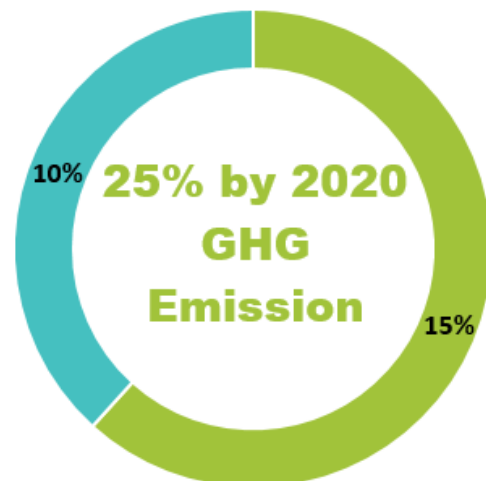


GREENHOUSE GAS TARGETS

In 2015 Surrey Schools established a five-year reduction target of 25% by 2020 for both greenhouse gas emissions energy intensity with the latter being weather normalized. The targets reference a 2010 baseline and we have made steady progress in reducing emissions. We will continue to work on reducing GHG emissions each year and will be updating our five-year target through to 2025.



■ Reduction Achieved ■ Remaining to Goal



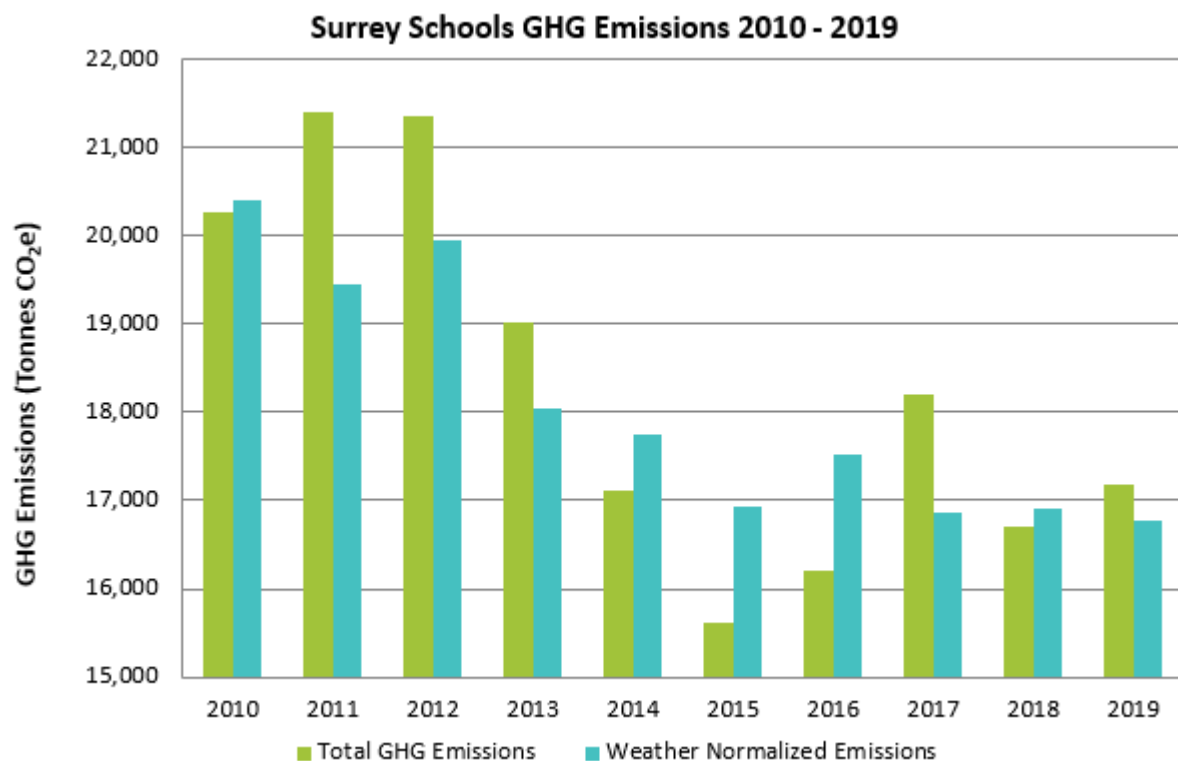
■ Reduction Achieved ■ Remaining to Goal





GREENHOUSE GAS TRACKING

As of 2019, Surrey Schools' efforts to reduce emissions have resulted in an absolute decrease of 15% and weather adjusted decrease of 17% compared to our 2010 baseline. This was achieved despite growth in the number of staff, facility space, and fleet size to accommodate increasing student enrollment. However, after adjusting for annual temperature weather fluctuations, 2019 emissions were in fact lower than 2018.

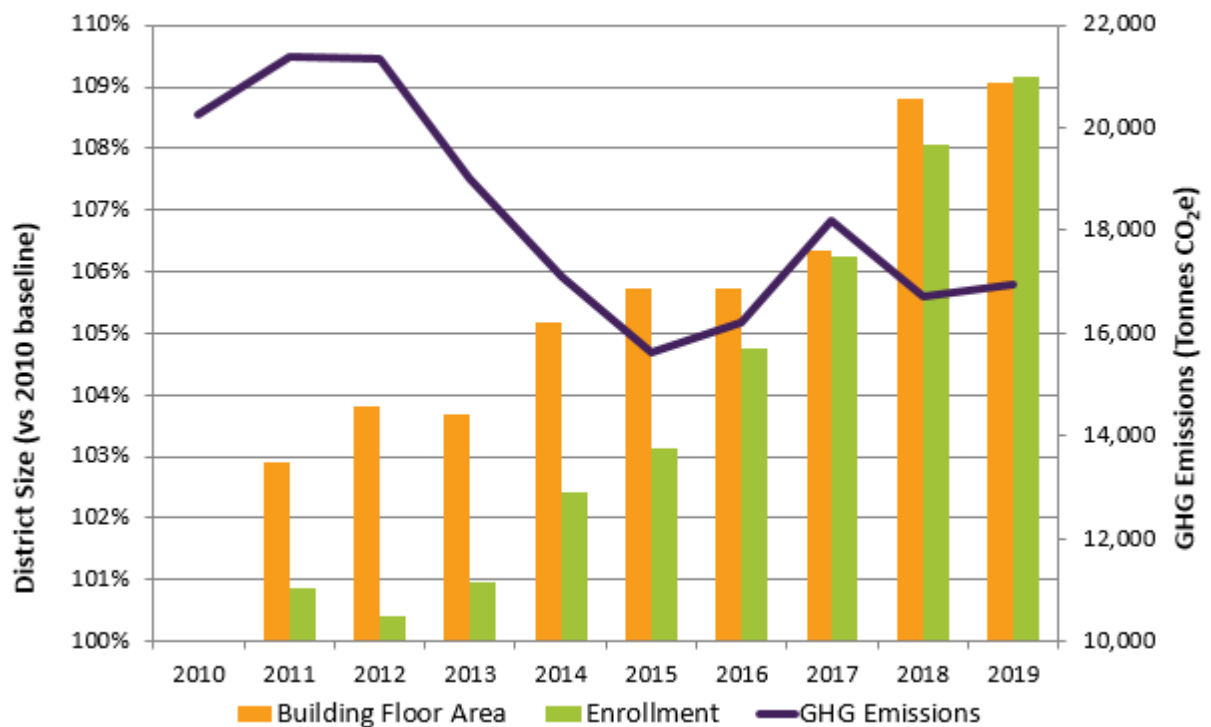




GREENHOUSE GAS EMISSIONS

Surrey Schools continues to grow and expand services to an increasing student population. Since our 2010 emissions baseline, Surrey Schools' useable facility space has increased by nine per cent and student enrollment has increased by nine per cent. Keeping pace with this growth has required ongoing construction of new schools, building additions, major renovations to existing facilities, and the use of over 360 portables as instructional spaces. Yet, in spite of these demands, energy conservation efforts have reduced energy consumption and greenhouse gas emissions from the 2010 baseline.

Surrey Schools Growth vs Emissions 2010 - 2019





ACHIEVING CARBON NEUTRALITY

B.C.'s Climate Change Accountability Act (CCAA, formerly: Greenhouse Gas Reduction Targets Act, GGRTA) updated legislated targets for reducing greenhouse gas emissions:

- ♦ By 2030 GHG emissions are to be reduced by at least 40 per cent below 2007 levels;
- ♦ By 2040 GHG emissions are to be reduced by at least 60 per cent below 2007 levels;
- ♦ By 2050, GHG emissions will be reduced by at least 80 per cent below 2007 levels.

The act also requires the provincial government, including provincial ministries and agencies, schools, colleges, universities, health authorities and Crown corporations, to be carbon neutral each year starting in 2010 and to make public a report every year detailing actions taken towards reducing greenhouse gas emissions.

Surrey Schools continues to implement projects that reduce GHG emissions but in order to achieve annual carbon neutrality, it is necessary to purchase carbon offsets which allow an organization to balance out its annual GHG emissions. The amount of carbon offsets purchased are equivalent to the calculated, annual number of tonnes of GHG emissions that were emitted. The money collected by the provincial government for carbon offsets is invested in quantified, emissions-reducing projects.

Owing to the impacts of COVID-19, the province directed Surrey Schools to re-submit its 2018 GHG emission number of 16,488 tonnes of carbon dioxide equivalent (tCO₂e) as the interim value for 2019 offsets with financial adjustments to be made the following year. At a cost of \$25/tonne, Surrey Schools' total offset investment for 2019 is \$412,200 plus tax.





INTERIM 2019 REPORTED EMISSIONS & OFFSET SUMMARY*

School District #36 (Surrey) GHG Emissions and Offset for 2018 (tCO ₂ e)	
GHG Emissions created in calendar year 2018:	
Total Emissions (tCO ₂ e)	16,708
Total BioCO ₂	38.26
Total Offsets (tCO ₂ e)	16,488
Adjustments to GHG Emissions Reported in Previous Years:	
Total Emissions (tCO ₂ e)	0
Total Offsets (tCO ₂ e)	0
Grand Total Offsets for the 2018 Reporting Year :	
Grand Total Offsets Required (tCO ₂ e)	16,488
Total Offset Investment	\$412,200

* the summary numbers are interim values from the 2018 CNAR reporting. An updated report with 2019 numbers will be re-issued.

Retirement of Offsets:

In accordance with the requirements of the Greenhouse Gas Reduction Targets Act and Carbon Neutral Government Regulation, School District #36 (Surrey) (**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. The Organization hereby agrees that, in exchange for the Ministry of Environment and Climate Change Strategy 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.

May 29, 2020

Signature

Date

D. Greg Frank

Secretary -Treasurer

Name

Title





2019 GREENHOUSE GAS EMISSIONS SOURCES

The following data are for 2019 emissions. Surrey Schools' GHG emissions are comprised of three main sources:

Buildings

GHG emissions from buildings result from the energy consumed to provide heating, cooling, ventilation and power to schools and other district facilities. These emissions account for 88% of our overall 2019 emissions.

Fleet

Emissions categorized as fleet are direct emissions resulting from the fossil fuels used to power the district's fleet vehicles, including maintenance vehicles and school busses. These emissions make up 6% of the overall emissions.

Office Paper

Emissions categorized as supplies are indirect emissions originating from the district's use of office paper and account for 6% of the overall GHG emissions.

Emission Source	2019 GHG Emissions (tonnes of CO ₂ e)	2019 Results Compared to 2018	2019 Results Compared to 2010 Baseline
Buildings	14,976	3.1 % Increase	16 % Decrease
Fleet	1,212*	1.2 % Increase	0 % Increase
Paper	997	1.0 % Increase	19 % Decrease

*246 t of these emissions are from school bus fuel and exempted from payment of carbon offsets





2019 GHG ACTIONS - BUILDINGS

BUILDINGS

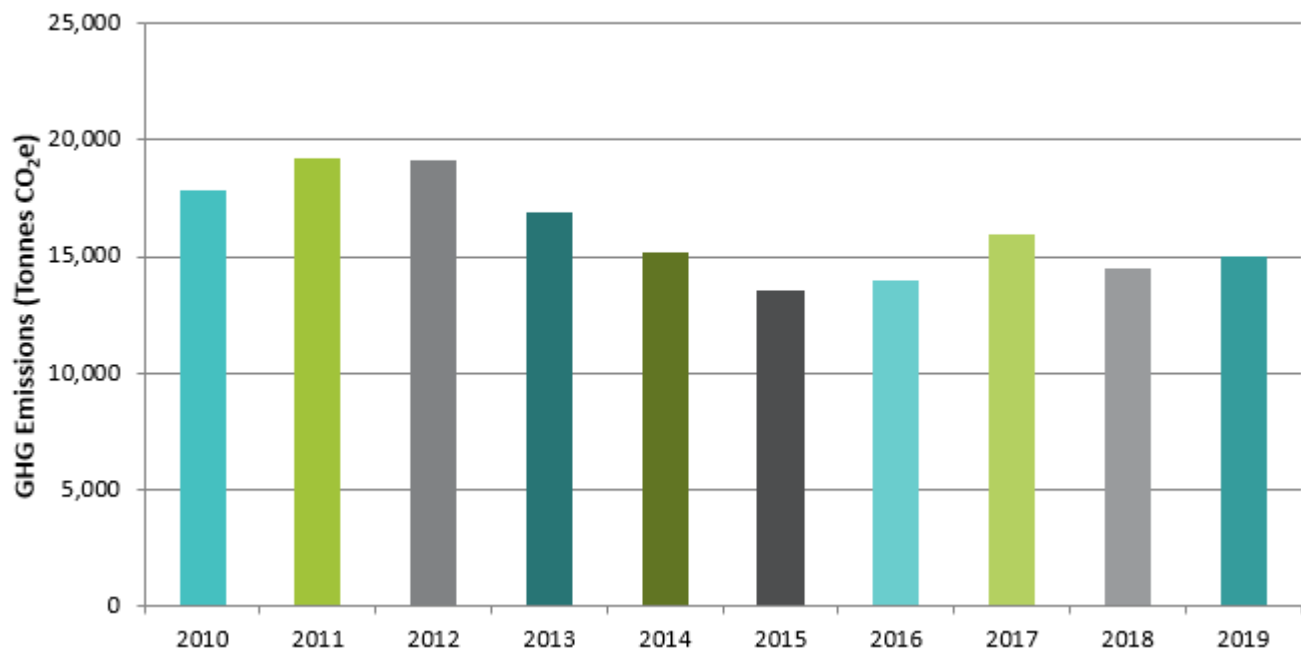
With a large portfolio of buildings, a strategic energy management approach is used to tackle energy use and greenhouse gas emissions. This is supported through integrated planning among key departments. Surrey Schools utilizes a three-pronged strategy to lower its carbon footprint: sustainable building design and retrofits, efficient building operations, and engaging staff and students.

Financing of energy efficiency work comes through the capital budget, the annual facilities grant, the support of our conservation partners BC Hydro and FortisBC, and other external funding where available.

Several energy conservation projects and campaigns were completed including:

- Boiler upgrades at four elementary schools
- LED lighting upgrades at three elementary schools
- Mechanical systems upgrade at one elementary school
- Automated building controls upgrade at one secondary school

Surrey Schools GHG Emissions - Buildings





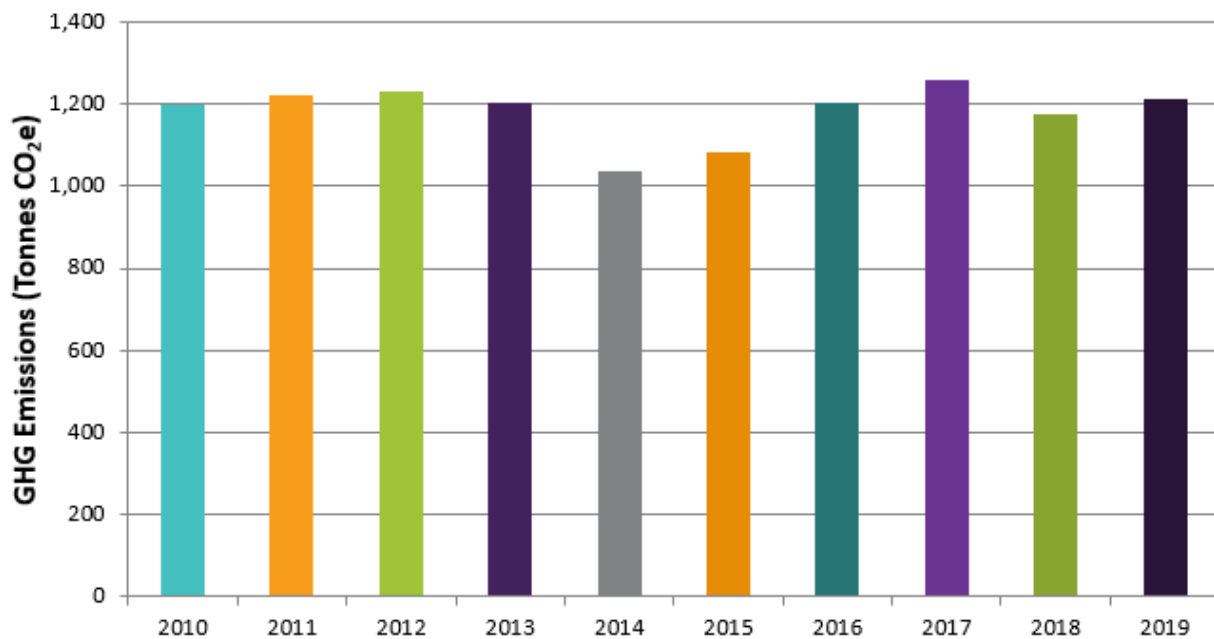
2019 GHG ACTIONS - FLEET

FLEET

In 2019 Surrey Schools' emissions from fuel for fleet vehicles accounted for 6% of the district's overall greenhouse gas emissions. Reported greenhouse gas emissions from the fleet in 2019 were 966 tonnes tCO₂e with the school bus portion, 246 tCO₂e, excluded from carbon offset purchase requirements.

2019 actions to reduce greenhouse gas emissions included replacing nineteen fleet vehicles with more fuel efficient models. 2019 did see an increase in fleet emissions of 3% from 2018 and 1.3% from the 2010 baseline but the delivery of more efficient vehicles may have been spread across the year. Also, a greater number of projects and more snow clearing will increase fuel use in a given year. Due to growth in the school district, the vehicle fleet has also grown to service more schools and to accommodate more students on buses. Owing to new technology in vehicles and the need to reduce fleet GHGs, it is expected that electric vehicles will be incorporated as suitable models become available. A study on electrical vehicle charging stations was completed for our main board office.

Surrey Schools GHG Emissions - Fleet



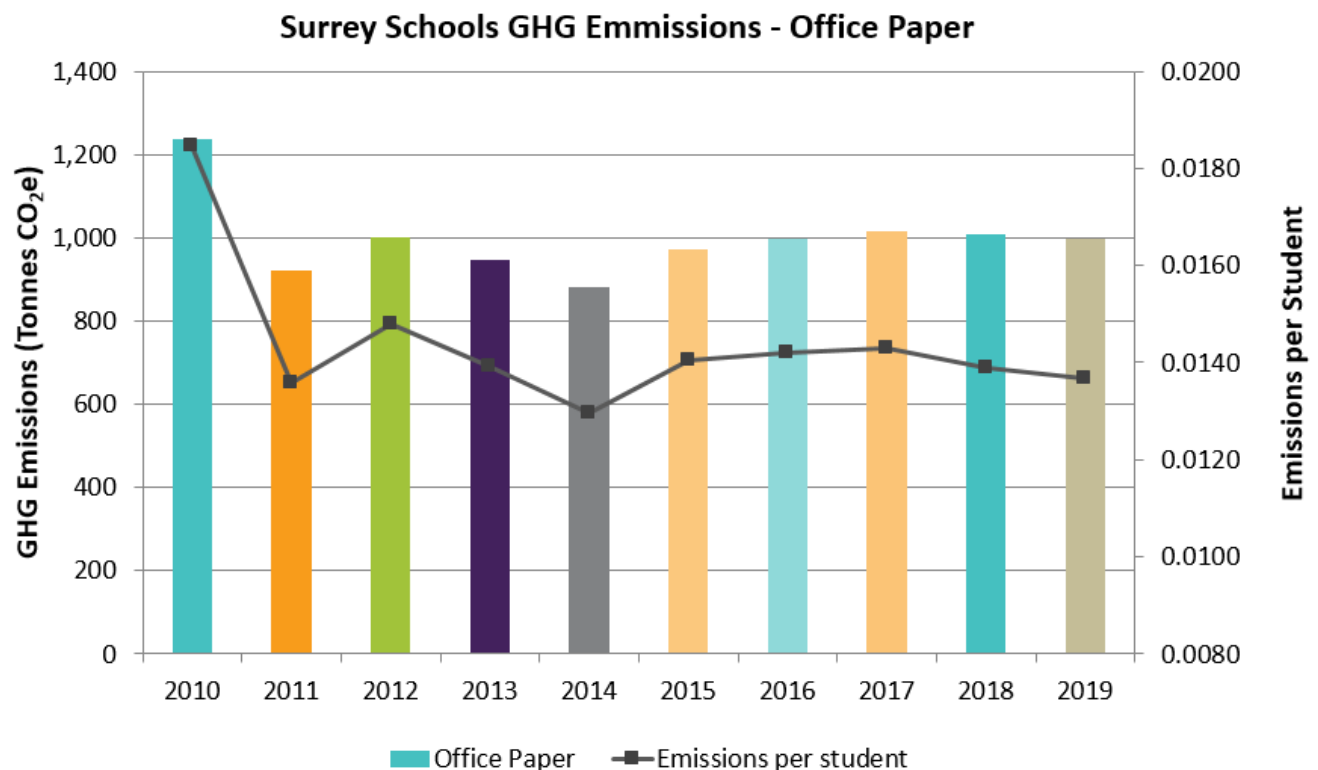


2019 GHG ACTIONS - PAPER

PAPER

In 2019 Surrey Schools' emissions from office paper accounted for 6% of the district's overall emissions, a level that has remained consistent since 2015. Overall the district has reduced emissions from paper by 19% from the 2010 baseline despite an increase in student enrollment by 9%. This translates to an a 26% reduction in paper emissions per student.

Surrey Schools' purchasing standards for office paper specify a minimum of 30% recycled content for office paper.





BUILDING A CONSERVATION CULTURE

Surrey Schools is working to create a culture of conservation by engaging staff and students in the district's energy and emissions reduction initiatives. In 2019 staff and students at many schools across the district participated in environmental stewardship initiatives and campaigns. School-based green teams and environmental clubs also have a big impact through their own unique, school-based environmental stewardship actions. Moreover, teachers in Surrey are taking a leadership role in making environmental, place-based and outdoor education a priority through networks such as Surrey Environmental Educators of District #36 (SEED36) and the East Kensington Outdoor Learning (EKOLogy) program.

Students and staff at Surrey Schools are creating a culture that makes conservation an everyday activity and proving that with small efforts they can reduce energy and paper consumption and increase waste diversion rates. In 2019 the eighth annual Energy Conservation Cup sustainability competition was held in secondary schools. Across the whole organization vacation-shutdown campaigns were held.



Sullivan Heights Secondary - 2019 Energy Conservation Cup Winner





GREEN BUILDINGS

Surrey Schools' new construction projects are built to a higher level of sustainability and energy efficiency than required in the standard building code and incorporate LED lighting and also low-carbon heat pumps as the primary heating source.

Several schools have been constructed with these standards and Salish Secondary, the most recent, is producing 26% less GHGs and is operating at less than half the energy intensity of other secondary schools in the district.

Constructing energy efficient buildings with fewer emissions requires integrated design and energy modelling early in the planning process.

The four schools listed below are at various stages of construction and will be built with energy efficient and low carbon designs resulting from input from the BC Hydro New Construction Whole Building Design program.

- ◆ Grandview Heights Secondary
- ◆ Maddaugh Road Elementary
- ◆ Douglas Area Elementary
- ◆ Edgewood Drive Elementary



Salish Secondary—Photo credit: DGS Construction Company Ltd.





ONGOING EFFORTS TO REDUCE EMISSIONS

The largest proportion of Surrey Schools' GHG reduction initiatives will continue to be focused on energy efficiency and conservation within our schools and administrative facilities, the largest source of GHG emissions in the district. Surrey Schools is actively pursuing low carbon efficiency in both new construction and retrofit projects and this will be a key strategy in the coming years.

In any large organization planning is essential in reaching targets and goals. Surrey Schools will continue to update the district's strategic energy management plan, including assessing the energy performance of each school or site in the district and identifying opportunities for future energy efficiency projects that will enhance performance and reduce greenhouse gas emissions from buildings.

Surrey Schools is continuing to implement the district's comprehensive energy management program and there are number of energy efficiency projects slated for 2020 including:

- LED Lighting retrofits at ten schools
- Upgrades to heating systems (boiler plants) at two elementary schools and
- Replacing natural gas-fired rooftop units with low-carbon heat pumps at one elementary school
- Building controls recommissioning at five schools
- Installation of electric vehicle charging stations at the school board office

Beyond 2020, Surrey Schools will continue to evaluate pathways to achieve the province's public sector emissions reduction targets, set internal GHG targets, and further incorporate sustainability into our operations.



Confirmation number: 00C6F276

Submitted date: 2020-07-16 14:36:36 Pacific Daylight Time

Carbon Neutral Action Report Survey - 2019

Public sector organizations (PSOs) are required to complete this survey, in addition to a Carbon Neutral Action Report (CNAR) as mandated by BC's [Climate Change Accountability Act](#) and the [Carbon Neutral Government Regulation](#).

Due to the COVID-19 pandemic, the following [Directive](#) was issued on March 31, 2020. Certain deadlines were also extended for the 2019 reporting year (see below).

March 31, 2020 Directive:

Under my authority as the Director for the purposes of the Act, and under the authority delegated to me in Section 6 of the Carbon Neutral Government Regulation, I hereby direct that all ministries and Public Sector Organizations covered by the Carbon Neutral Government requirement shall use their 2018 GHG emissions as a temporary estimate for their actual 2019 GHG emissions, for the purposes of the 2019 Carbon Neutral Action Reports and 2019 Carbon Neutral Government reporting required under the Climate Change Accountability Act.

Neil Dobson, Executive Director, Clean BC Implementation
Climate Action Secretariat

Although 2018 emissions data will be used as a placeholder for 2019, **all other (qualitative) components of the CNAR and CNAR Survey are to be completed with information from 2019 (e.g., actions taken or planned to reduce emissions)**. The only change to the survey is that the deadline was extended by one month to June 30, 2020.

This survey is divided into two parts:

Part 1 - Will be made public on the Climate Action Secretariat (CAS) [website](#) after June 30, 2020; however, it will not be appended directly to each individual PSO CNAR as was done in previous years. This section collects details about actions taken or planned to reduce emissions and is intended to supplement the legislative requirements in your CNAR.

Part 2 - Will NOT be made public. Information you provide in this section is important and will be used internally to help CAS staff with planning for emissions reduction and climate change adaptation initiatives. Although not required, PSOs are highly encouraged to complete Part 2.

Note: Survey progress can be saved at any time by clicking the "Save and continue later" button at the bottom of each page. A new window will open and you will be asked to provide your name and email. An email will be sent to you from Carbon.Neutral@gov.bc.ca with the subject line: "Questionnaire Link", which will include a hyperlink for the "Project: Carbon Neutral Action Report Survey – Broader Public Sector 2019". You can then continue responding at another time or email the hyperlink to a colleague to complete remaining section(s).

May 29, 2020	<ul style="list-style-type: none">The final, signed version of the CNAR (or Small Emitters Form) must be submitted by email to: Carbon.Neutral@gov.bc.ca
June 30, 2020*	<ul style="list-style-type: none">Ministry of Environment and Climate Change Strategy must post a final CNAR for each organization on the BC Government's CNG website and each PSO is encouraged to post the report on their website.The CNAR Survey (optional for Small Emitters) must be completed and submitted online. <p>*Deadline extended from May 29, 2020.</p> <ul style="list-style-type: none"><u>All offset invoice payments must be submitted to CAS.</u>
Sept 30, 2020*	<ul style="list-style-type: none">Clean Government Reporting Tool (CGRT) Data Entry must be completed for the 2019 reporting year.

	*Deadline extended from April 30, 2020.
Oct 15, 2020*	<ul style="list-style-type: none"> • Self-Certification checklist must be completed, signed and submitted by email to: Carbon.Neutral@gov.bc.ca. *Deadline extended from May 15, 2020.

*See the [Carbon Neutral Government – Program Requirements website](#) for more information on program requirements, timelines and templates.

PART 1 - Included as part of your public CNAR report.

Reminder that Part 1 will be made public on the CAS [website](#).

Contact Name:	David McKee
Contact Email:	mckee_d@surreyschools.ca
Organization Name:	School District #36 (Surrey)
Role – Please select the best category for your current role with your organization. If more than one individual completed the survey, multiple categories may be selected:	Energy Manager Fleet Manager
Please select your sector:	School District (SD)

Stationary Sources (e.g. Buildings, Power Generators): Fuel Combustion, Electricity use, Fugitive Emissions.

Actions taken by your organization in 2019 to support emissions reductions from buildings

Do you have a strategy to reduce emissions from stationary sources?
Yes

Whether you have a strategy or not, briefly describe your organization's plans to continue reducing emissions from stationary sources:

Over the medium-term term (1-5 years)
We have a strategic energy management plans and have completed a number of energy studies used to identify energy saving measures in buildings over the next three years.
Over the long term (6-10 years)
The energy management group provides input on future new construction project and major upgrades to identify energy-saving opportunities and possible funding sources We are updating our five- and ten-year GHG targets with majority of opportunities in buildings.

Please describe your strategy's goals (if any) related to energy audits.

*Based on poor building energy performance ranking and input from the facilities department, we perform three to five lighting audits each year.
Additionally we perform approximately three building system re-commissioning studies each year to identify natural gas and electrical savings.
We are performing specific audits that target opportunities for moving from natural gas to low carbon electrification*

What % on average of your building portfolio has an energy audit completed each year (if any)?

4%

Please describe your strategy's goals (if any) related to building retrofits.

*Where natural gas boilers have been replaced we always go to higher efficiency and often upgrade controls as well.
Look at opportunities for low carbon electrification.*

What % on average of your building portfolio is retrofitted each year in the following categories (if any) - click here for further information:

8%

Minor retrofits (e.g. low cost, easy to implement measures including caulking, lighting, adding roof insulation, etc.)

4%

Major retrofits (e.g. replacing windows and doors, equipment replacement such as boilers, etc.)

4%

Deep retrofits (e.g. replacing roof, replacing the heating, ventilation and air-conditioning system with a renewable technology like a ground-source heat pump, etc.)

<1%

Please describe your strategy's re/retro-commissioning goals (if any)?

Based on poor energy and GHG performance we aim to do a few schools a year in order to realize natural gas and energy savings as there help reduce carbon footprint at relatively low cost and also helps achieve savings targets for utility (Fortis and Hydro) funded programs.

What % on average of your building portfolio do you recommission each year?

2%

Do you keep records of Refrigerant gases¹ category and refilling volumes?

[1] Fugitive emissions from stationary cooling equipment are attributed to the leakage and loss of HFC and PFC based coolants from air conditioning and commercial type refrigeration systems. Coolant loss can occur during the manufacturing, operation, and disposal of such equipment. Gases that may be reported via CGRT include HFC R-134, HFC R-134a, HFC R-404a, HFC R-407c, HFC R-410a.

Yes

If yes, have you quantified and reported the associated emissions? What, if any, mitigation approaches have been considered? Please describe

No.

What, if any, mitigation approaches have been considered? Please describe.

None.

How many newly constructed buildings received at least LEED Gold certification in 2019?

Zero. We no longer pursue certification though reference the standards to some degree.

How many newly constructed buildings did not receive LEED Gold certification?

No schools completed in 2019.

Please explain why LEED Gold certification was not obtained for those new buildings.

Though LEED is referenced to enhance environmental aspects, the Ministry of Education provides funding for new schools but no longer requires actual certification.

Other actions? Please describe briefly:

*Try and make the school envelope and design reasonably energy efficient.
Try and include heat pumps for heating in new buildings when possible in the budget.*

Mobile Sources (Fleet Vehicles, Off-road/portable Equipment): Fuel Combustion:

Actions taken by your organization in 2019 to support emissions reductions from mobile sources?

Do you have a strategy to reduce emissions from mobile sources?

No

Whether you have a strategy or not, briefly describe your organization's plans to continue reducing emissions from mobile sources:

Over the medium-term term (1-5 years)

*As vehicles are replaced, the newer models typically get better fuel economy.
May install Level 2 electric vehicle charging station to support possible EV replacements.*

Over the long term (6-10 years)

Track availability of electric vehicle replacements.

How many fleet vehicles did you purchase from the following categories:

Electric Vehicle – EV - (e.g., Nissan Leaf, Chevy Bolt)

0

"Plug In" Electric Vehicle – PHEV (e.g., plug-in Prius, Chevy Volt)

0

Hybrid vehicle – HEV – non "Plug In"- (e.g., Toyota Highlander Hybrid)

0

Hydrogen fuel cell vehicle

0

Natural gas/propane

0

Gas/diesel vehicle

19

If you purchased new gas/diesel vehicles, can you briefly explain why vehicles from the other categories were not chosen?

No suitable electric replacements for vans and light trucks available yet.

Actions taken by your organization in 2019 to support emissions reductions from mobile sources? (Continued)

How many existing EV charging stations does your organization have in each category:

Level 2?

0

Level 3?

0

How many level 2 stations (if any) are specifically for your fleet vehicles?

As defined as Level 2 stations only your organization's fleet vehicles may use

0

How many level 3 stations (if any) are specifically for your fleet vehicles?

As defined as Level 3 stations only your organization's fleet vehicles may use

0

How many EV charging station(s) did you install in 2019 in each category:

Level 2?

0

Level 3?

0

How many level 2 stations (if any) were installed specifically for your fleet vehicles?

As defined in the previous section

0

How many level 3 stations (if any) were installed specifically for your fleet vehicles?

As defined in the previous section

0

Please briefly describe any other related actions, (e.g. charging station feasibility studies, electrical panel upgrades, etc.)

We are doing feasibility study for EV station installation at central office in 2020.

Please indicate the total number of the vehicles in the following vehicle classes that are in your current fleet

Definitions:

- Light duty vehicles (LDVs) are designated primarily for transport of passengers <13 and GVWR<3900kg
- Light duty trucks (LDTs) are designated primarily for transport of light-weight cargo or that are equipped with special features such as four-wheel drive for off-road operation (include SUVs, vans, trucks with a GVWR<3,900kg)
- Heavy duty vehicles (HDV) includes vehicles with a GVWR>3,900 kg (e.g. ¾ tonne pick-up truck, transport trucks)

Light duty vehicles (LDVs)

Electric Vehicles – EV - (e.g., Nissan Leaf, Chevy Bolt)

0

“Plug In” Electric Vehicle – PHEV -- (e.g., plug-in Prius, Chevy Volt)

0

Hybrid vehicles – HEV – (e.g., non “Plug In”- older Toyota Prius, Toyota Camry hybrid)

0

Hydrogen fuel cell vehicles

0

Natural gas/propane

0

Gas/diesel

170

Light duty trucks (LDTs)

Electric Vehicles – EV

0

“Plug In” Electric Vehicle – PHEV

0

Hybrid vehicles – HEV – (e.g., non “Plug In”- older Ford Escape Hybrid, older Chevrolet Silverado pickup hybrid, etc)

0

Hydrogen fuel cell vehicles

0

Natural Gas/propane

0

Gas/diesel
100

Heavy duty vehicles (HDV)

Electric Vehicles – EV
0

“Plug In” Electric Vehicle – PHEV
0

Hybrid vehicles – HEV – (e.g., non “Plug In”)
0

Hydrogen fuel cell vehicles
0

Natural Gas/propane
0

Gas/diesel
42

Actions taken by your organization in 2019 to support emissions reductions from paper supplies.

Briefly describe your organization’s plans to continue reducing emissions from paper use:

Over the medium-term (1-5 years)
<i>Continued policy of not replacing small desk top printers as they break in order to shift to centralized printers that double-side print and save paper. Undertaking detailed analysis of printer hardware and paper use across organization. In 2020 implemented print management software in facilities office for centralized printers which supports moving to reduce desktop printers and allow more double-sided printing. Consult with Finance Department on implementing BC Hydro's paperless billing to save on paper Looking at swapping out all desktop printers and adding print management software for centralized printers in suitable elementary schools to allow for more double-sided printing.</i>

Over the long term (6-10 years)
<i>Identify schools to further replace desktop printers Investigate paperless processes for teaching and admin. to reduce paper use.</i>

Do you have an awareness campaign focused on reducing office paper use?
Yes

Purchased alternate source paper (bamboo, hemp, wheat, etc.)
No

Other 2019 actions, please specify
none