2021 Carbon Neutral Government Year in Review: Summary

EACH YEAR SINCE 2010, B.C. has achieved carbon neutral operations, maintaining a net impact of zero greenhouse gas (GHG) emissions across provincial public sector organizations (PSOs), including health authorities, school districts, post-secondary institutions, Crown corporations and provincial government.

B.C.'s legislated Carbon Neutral Government (CNG) commitment, the first in North America, is reducing emissions, saving energy costs, and spurring the development of clean technology and new jobs. The 2021 reporting year marked the twelfth consecutive year of public sector carbon neutrality in B.C. Under the CNG program, PSOs:

- Measure greenhouse gas (GHG) emissions from their operations;
- Plan and take action to reduce those emissions;
- Purchase offsets to achieve net zero emissions; and
- Report publicly through annual individualized Climate Change Accountability Reports.

The total emissions reported in this summary meet the reporting requirements set out in the Carbon Neutral Government Regulation under the *Climate Change Accountability Act*.

Key Facts for 2021:

- While the B.C. public sector is making some progress in reducing emissions, significant action is needed to achieve the CleanBC 2030 targets of 50 percent reduction in emissions from public buildings and 40 percent reduction in public sector fleet emissions compared to 2010 levels.
- For the 2021 reporting year¹, B.C.'s 130 PSOs generated 737,017 tonnes of GHG emissions from their operations representing a reduction of 46,114 tonnes as compared to 2020 the equivalent to taking approximately 10,025 cars off the road for a year.² Refer to Appendix A Tables 1 and 2 for a breakdown of 2021 emissions by source and by PSO, respectively.
- Over the past 12 years, public sector emissions decreased by 109,307 tonnes or almost 13 percent compared to the baseline year of 2010. In 2021:

¹ The 2021 reporting year is equivalent to the 2021 calendar year.

² Based on 4.6 tonnes per car per year. Source:

https://www.epa.gov/greenvehicles/greenhouse-gas-emissions-typical-passenger-vehicle



- Emissions from buildings decreased by 14 percent compared to 2010 levels normalized for weather conditions, building emissions decreased 20 percent. See Figure 1 for annual emission trends from public sector buildings since 2010.³
- Emissions from fleet remained approximately the same compared to 2010 levels. See Figure 2 for annual emission trends from fleet vehicles since 2010.
- Emissions from **paper** decreased by 35% compared to 2010 levels.
- For the 2021 reporting year, carbon offsets were sourced from projects involving sequestration, fuel switching, GHG destruction, and energy efficiency (refer to Appendix A Table 3 for details).
- B.C.'s emission offset portfolio has resulted in total offset retirements of approximately 8.1 million tonnes of carbon dioxide equivalent between 2010 and 2021.
- Highlights across the B.C. public sector include:

Buildings

- 2021 emissions from Provincial Government buildings were 44 percent less than 2010 levels, putting Provincial Government (ministries and independent offices) on the path to achieving the targets established for the CleanBC Government Buildings program.
- Provincial Government's major projects capital planning and approval process has been updated to address government's strategic priorities, including climate change. The Environmental, Social and Governance Framework for Capital will ensure that all major capital projects are built to align with CleanBC GHG reduction and climate resilience standards going forward.
- In 2021, the Carbon Neutral Capital Program funded \$56 million in energy saving activities and technologies at PSO buildings, such as improved heating, ventilation and airconditioning systems, solar panels, and electric vehicle charging stations in health care facilities, post-secondary institutions, and K-12 schools.

Fleet

- The push to electrify school buses continued as school districts ordered a total of 51 electric school buses.
- In fall 2021, B.C. signed onto a pledge with the Under2 Coalition committing to converting all public sector owned and leased fleets to zero emission vehicles (ZEVs) by 2035 (for light duty) and 2040 (for medium and heavy-duty).
- In 2021, 8 percent of applicable Provincial Government light duty vehicle purchases were ZEVs, falling short of the CleanBC annual 10% ZEV purchase target that started in 2020. Supply chain issues significantly limited the availability of ZEVs. To date, 2.2 percent of the government light duty fleet are ZEVs.

³ Updates to align electricity emissions factors with CleanBC's industry program approach, made in June 2021 to update 2010-2020 emissions data, mean historic emissions were updated and do not match what had been reported in previous years.

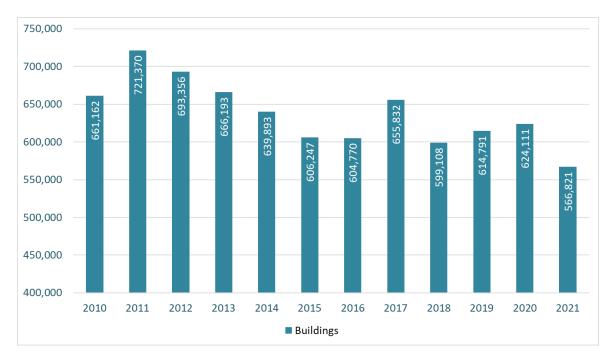
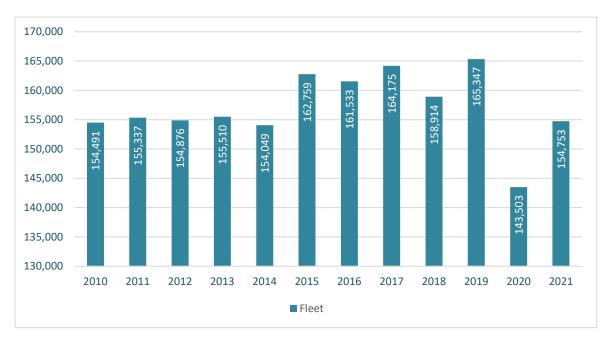




Figure 2. Fleet Emissions (tonnes CO₂e) Across the Public Sector 2010-2021



To weather normalize building emissions, the average temperature profile for a 30-year period is used to calculate the number of days buildings use energy to heat or cool (based on temperatures above or below 15°C).

Weather Normalization

Buildings have been the source of over 75 percent of B.C.'s total provincial public sector emissions every year since the beginning of the Carbon Neutral Government Program. Year-to-year differences in weather affect the heating and cooling requirements in buildings. To enable year-to-year comparison of building-related emissions, figures are adjusted to remove weather effects – a practice known as weather normalization. An improved understanding of building emissions trends, net of weather-related impacts, helps PSOs determine the level of progress being made towards reducing GHG emissions.

2021 Weather Impact

Climate change is being felt across B.C. as average temperatures are trending upwards, and extreme weather is becoming more frequent year-over-year. B.C. had a cooler winter and much hotter summer in 2021 compared to 2020, increasing heating and cooling demand from the previous year's results. Cooling degree days were at their highest in the history of the program⁴.

Since 2010, B.C.'s public sector has seen energy demand for heating drop slightly due to warmer winters. While energy demands for cooling are still much smaller than for heating, cooling degree days were greater in 2021 than the weather normalized baseline (1981-2010).

All sectors saw decreases in weather normalized emissions in 2021, with an overall decrease of 12 percent between 2020 and 2021, and 20 percent between 2010 and 2021. Public sector building energy consumption declined 8 percent between 2010 and 2021, and only 1 percent between 2020 and 2021. Core Government, Post-Secondary Institutions and Health Authorities buildings saw, in their weather normalized data, increases in electricity use and decreases in non-electricity energy consumption, indicating that the sectors are moving towards the electrification of their buildings. Weather normalized energy consumption increased in School Districts and decreased in Crown Corporations.

Figure 3 below shows that under average climate conditions in the baseline period used (1981 to 2010), emissions would have been slightly lower in 2021 than actual emissions reported.

⁴ Energy requirements for heating and cooling buildings are measured in Heating Degree Days (HDD) and Cooling Degree Days (CDD), the difference between the average daily outdoor temperature and 15°C, the outdoor temperature at which the building would neither need heating or cooling. A day with an average outdoor temperature of 10°C contributes 5 HDD while a 20°C day contributes 5 CDD.



Figure 3. Weather-Normalized Building Emissions (tonnes CO₂e) 2010-2021

Appendix A - Summary of Emissions and Offsets

	Bio CO₂e Emissions	Non-Bio CO₂e Emissions	Total CO₂e Emissions	
Scope 1				
Buildings (Direct Fuel Combustion)	11,091	514,106	525,197	
Fleet (Mobile Energy Use)	7,766	146,986	154,753	
Fugitive Emissions		600	600	
Scope 2				
Buildings (Purchased Energy)		41,624	41,624	
Scope 3				
Paper		13,264	13,264	
Travel	21	1,559	1,580	
TOTAL	18,879	718,139	737,017	

Table 1. 2021 Public Sector Emissions by GHG and by Source (tonnes CO₂e)

Table 1 Notes:

- (1) Table 1 reports Scope 1, 2, and 3 emissions in accordance with international protocols.
 - a. Scope 1 emissions represent those produced from the combustion of fossil fuels (e.g., natural gas for heating, gasoline for vehicle fuels) and fugitive emissions (e.g., hydrofluorocarbons from air conditioning equipment).
 - b. Scope 2 emissions represent those produced by third parties in the production of energy purchased by B.C.'s PSOs (e.g., electricity).
 - c. Scope 3 emissions represent those produced by third parties in the production of goods and services purchased by B.C.'s PSOs (e.g., office paper, business travel⁵).
- (2) International protocols call for the separate reporting of biogenic emissions (Bio CO₂e) produced from the combustion of biogenic fuels (e.g., wood waste for heating, renewable vehicle fuels).
- (3) For more information on how the B.C. public sector measures emissions, please refer to the 2021 Methodology for Quantifying Greenhouse Gas Emissions.
- (4) Non-bio CO₂e emissions in Table 1 include 75,778 tonnes CO₂e emissions from public transit and school buses, which are offset exempt.
- (5) Due to rounding, numbers presented above may not add up precisely to the totals reported.

⁵ Only core government is required to measure, report and offset emissions from business travel.

Table 2. 2021 Emissions by Public Sector Organization (t CO₂e)

Public Sector Organization	Emissions	Offsettable Emissions	Bio-CO₂e Emissions	Public Sector
BC PUBLIC SECTOR TOTAL	737,016	642,360	18,876	School Distric
Provincial Government Total	51,584	50,791	793	School District
Crown Corporations Total	151,421	88,168	5,231	School Distric
BC Family Maintenance Agency	54	54	0	School Distric
BC Financial Services Authority BC Infrastructure Benefits	71 2	71 2	0	School Distric School Distric
BC Assessment Authority	341	338	3	School Distric
BC Council for International Education	5	5	0	School Distric
BC Games Society	2	2	0	School Distric
BC Housing Management Commission	29,362	29,348	14	School Distric
BC Hydro	32,833	32,016	818	School Distric
BC Liquor Distribution Branch	3,500	3,461	19	School Distric
BC Lottery Corporation	820	810	10	School Distric
BC Pavilion Corporation	3,364	3,326	38	School Distric
BC Transit	63,873	1,564	4,313	School Distric
British Columbia Securities Commission Columbia Basin Trust	231 272	231 268	0	School Distric
Columbia Power Corporation	272	208	0	School Distric
Community Living British Columbia	347	346	1	School Distric
Destination BC	46	46	0	School Distric
First People's Cultural Council	1	1	0	School Distric
Forest Enhancement Society of BC	6	6	0	School Distric
Forestry Innovation Investment	139	139	0	School Distric
Industry Training Authority	53	53	0	School Distric
Innovate BC	16	16	0	School Distric
Insurance Corporation of BC	15,340	15,332	8	School Distric
Knowledge Network Corporation	99	99	0	School Distric
Legal Services Society	125	121	0	School Distric
Oil and Gas Commission	371	365	7	School Distric
Partnerships BC-Infrastructure BC Inc. Real Estate Council of BC	16 47	16 47	0	School Distric
Real Estate Foundation	47	47	0	School Distric
Royal BC Museum	77	77	0	School Distric
Transportation Investment Corporation	5	5	0	School Distric
Health Authorities Total	226,889	225,123	1,766	School Distric
BC Emergency Health Services	16,907	16,417	490	School Distric
Fraser Health Authority	41,228	41,203	25	School Distric
nterior Health Authority	41,732	40,632	1,100	School Distric
Louis Brier Home & Hospital	936	936	0	School Distric
Menno Hospital	500	500	0	School Distric
Mount St. Mary Hospital	421	421	0	Universities &
Nisga'a Valley Health Authority	183	180	3	British Colum
Northern Health Authority	21,985	21,956	29	Camosun Coll
Providence Health Care Provincial Health Services Authority	11,842 19,592	11,838 19,563	4 29	Capilano Univ Coast Mounta
St. Joseph's General Hospital	19,392	19,503	0	College of Ne
St. Michael's Centre	357	357	0	College of the
Vancouver Coastal Health Authority				Douglas Colle
Vancouver Island Health Authority	41,743	41,707	36	
vaneouver isiana realtir Authonity	41,743 29,463	41,707 29,413	36 50	Emily Carr Un
School Districts Total	29,463	29,413	50	Justice Institu
School Districts Total School District 05 - Southeast Kootenay	29,463 182,973	29,413 163,906	50 1,317	Justice Institu Kwantlen Pol
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain	29,463 182,973 3,017	29,413 163,906 2,695	50 1,317 13	Justice Institu Kwantlen Poly Langara Colle
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake	29,463 182,973 3,017 1,963	29,413 163,906 2,695 1,520	50 1,317 13 20	Justice Institu Kwantlen Pol Langara Colle Nicola Valley
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp)	29,463 182,973 3,017 1,963 3,346	29,413 163,906 2,695 1,520 2,604	50 1,317 13 20 38	Justice Institu Kwantlen Pol Langara Colle Nicola Valley Northern Ligh
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke	29,463 182,973 3,017 1,963 3,346 396	29,413 163,906 2,695 1,520 2,604 197	50 1,317 13 20 38 8	Justice Institu Kwantlen Pole Langara Colle Nicola Valley Northern Ligh North Island (
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke School District 20 - Kootenay-Columbia	29,463 182,973 3,017 1,963 3,346 396 323	29,413 163,906 2,695 1,520 2,604 197 274	50 1,317 13 20 38 8 2	Justice Institu Kwantlen Poly Langara Colle Nicola Valley Northern Ligh North Island O Okanagan Co
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna)	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107	50 1,317 13 20 38 8 2 12 23 27	Justice Institu Kwantlen Pol Langara Colle Nicola Valley Northern Ligh North Island O Okanagan Co Royal Roads U Selkirk Colleg
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke School District 20 - Kootenay-Columbia School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,956 1,982 6,035 3,655	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373	50 1,317 13 20 38 8 2 12 23 27 59	Justice Institu Kwantlen Poly Langara Colle Nicola Valley Northern Ligh North Island O Okanagan Co Royal Roads U Selkirk Colleg Simon Fraser
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin School District 28 - Quesnel School	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179	50 1,317 13 20 38 8 2 12 23 27 59 29	Justice Institu Kwantlen Pole Langara Colle Nicola Valley Northern Ligh North Island O Okanagan Co Royal Roads U Selkirk Colleg Simon Fraser Thompson Rie
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin School District 28 - Quesnel School School District 33 - Chilliwack	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854 4,452	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179 3,581	50 1,317 13 20 38 8 2 12 23 27 59 29 40	Justice Institu Kwantlen Poh Langara Colle Nicola Valley Northern Ligh North Island C Okanagan Co Royal Roads L Selkirk Colleg Simon Fraser Thompson Riv University of
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin School District 28 - Quesnel School School District 33 - Chilliwack School District 34 - Abbotsford	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854 4,452 4,393	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179 3,581 3,649	50 1,317 13 20 38 8 2 12 23 27 59 29 40 45	Justice Institu Kwantlen Poly Langara Colle Nicola Valley Northern Ligh North Island O Okanagan Co Royal Roads U Selkirk Colleg Simon Fraser Thompson Rin University of
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 10 - Arrow Lakes (Nakusp) School District 10 - Arrow Lakes (Nakusp) School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin School District 33 - Chilliwack School District 34 - Abbotsford School District 35 - Langley	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854 4,452 4,393 5,548	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179 3,581 3,649 5,231	50 1,317 13 20 38 8 2 12 23 27 59 29 40 45 20	Justice Institu Kwantlen Poly Langara Colle Nicola Valley Northern Ligh North Island O Okanagan Co Royal Roads U Selkirk Colleg Simon Fraser Thompson Rin University of University of
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin School District 28 - Quesnel School School District 33 - Chilliwack School District 34 - Abbotsford School District 35 - Langley School District 36 - Surrey	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854 4,452 4,393 5,548 18,387	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179 3,581 3,649 5,231 18,109	50 1,317 13 20 38 8 2 12 23 27 59 29 40 45	Justice Institu Kwantlen Pol Langara Colle Nicola Valley Northern Ligh North Island O Okanagan Co Royal Roads U Selkirk Colleg Simon Fraser Thompson Ri University of University of University of
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 10 - Arrow Lakes (Nakusp) School District 10 - Arrow Lakes (Nakusp) School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin School District 33 - Chilliwack School District 34 - Abbotsford School District 35 - Langley School District 37 - Delta	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854 4,452 4,393 5,548	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179 3,581 3,649 5,231	50 1,317 13 20 38 8 2 12 23 27 59 29 40 45 20 41	Justice Institu Kwantlen Poly Langara Colle Nicola Valley Northern Ligh North Island O Okanagan Co Royal Roads U Selkirk Colleg Simon Fraser Thompson Rin University of University of University of Vancouver Co
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 10 - Arrow Lakes (Nakusp) School District 10 - Arrow Lakes (Nakusp) School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin School District 33 - Chilliwack School District 34 - Abbotsford School District 35 - Langley School District 37 - Delta School District 38 - Richmond	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854 4,452 4,393 5,548 18,387 2,729	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179 3,581 3,649 5,231 18,109 2,720	50 1,317 13 20 38 8 2 12 23 27 59 29 40 45 20 41 9	Justice Institu Kwantlen Poly Langara Colle Nicola Valley Northern Ligh North Island O Okanagan Co Royal Roads U Selkirk Colleg Simon Fraser Thompson Rin University of University of University of Vancouver Co
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin School District 33 - Chilliwack School District 33 - Chilliwack School District 35 - Langley School District 37 - Delta School District 38 - Richmond School District 39 - Vancouver	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854 4,452 4,393 5,548 18,387 2,729 7,024	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179 3,581 3,649 5,231 18,109 2,720 6,822	50 1,317 13 20 38 8 2 12 23 27 59 29 40 41 9 17	Justice Institu Kwantlen Poly Langara Colle Nicola Valley Northern Ligh North Island C Okanagan Col Royal Roads L Selkirk Colleg Simon Fraser Thompson Riv University of I University of I University of I University of I Vancouver Co Vancouver Isl
School Districts TotalSchool District 05 - Southeast KootenaySchool District 06 - Rocky MountainSchool District 08 - Kootenay LakeSchool District 10 - Arrow Lakes (Nakusp)School District 19 - RevelstokeSchool District 20 - Kootenay-ColumbiaSchool District 22 - VernonSchool District 23 - Central Okanagan (Kelowna)School District 28 - Quesnel SchoolSchool District 33 - ChilliwackSchool District 34 - AbbotsfordSchool District 35 - LangleySchool District 37 - DeltaSchool District 38 - RichmondSchool District 39 - VancouverSchool District 40 - New Westminster	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854 4,452 4,393 5,548 18,387 2,729 7,024 16,366	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179 3,581 3,649 5,231 18,109 2,720 6,822 16,160	50 1,317 13 20 38 8 2 12 23 27 59 29 40 45 20 41 9 17 206	Justice Institu Kwantlen Poh Langara Colle Nicola Valley Northern Ligh North Island G Okanagan Co Royal Roads U Selkirk Colleg Simon Fraser Thompson Rin University of University of University of University of Vancouver Co Vancouver Isl Notes: Due to roundi totals reporte
School Districts Total School District 05 - Southeast Kootenay School District 06 - Rocky Mountain School District 08 - Kootenay Lake School District 10 - Arrow Lakes (Nakusp) School District 19 - Revelstoke School District 20 - Kootenay-Columbia School District 22 - Vernon School District 23 - Central Okanagan (Kelowna) School District 27 - Cariboo-Chilcoltin School District 28 - Quesnel School School District 33 - Chilliwack School District 35 - Langley School District 37 - Delta School District 38 - Richmond School District 39 - Vancouver School District 40 - New Westminster School District 41 - Burnaby School District 42 - Maple Ridge	29,463 182,973 3,017 1,963 3,346 396 323 1,956 1,982 6,035 3,655 1,854 4,452 4,393 5,548 18,387 2,729 7,024 16,366 1,807	29,413 163,906 2,695 1,520 2,604 197 274 1,678 1,625 5,107 2,373 1,179 3,581 3,649 5,231 18,109 2,720 6,822 16,160 1,449	50 1,317 13 20 38 8 2 12 23 27 59 29 40 41 9 17 206 2 12 23 27 59 29 40 41 9 17 206 2	Emily Carr Un Justice Institu Kwantlen Poly Langara Colle Nicola Valley Northern Ligh North Island C Okanagan Col Royal Roads L Selkirk College Simon Fraser Thompson Rin University of I University of I University of I University of I Vancouver Isl Notes: Due to roundi totals reporter B.C.'s Crown C the Ministry of

Public Sector Organization	Emissions	Offsettable Emissions	Bio-CO₂e Emissions
School Districts (Cont'd)			
School District 44 - North Vancouver	4,410	4,367	5
School District 45 - West Vancouver	1,919	1,917	2
School District 46 - Sunshine Coast	908	905	4
School District 47 - Powell River	1,083	860	13
School District 48 - Sea to Sky	2,041	1,630	57
School District 49 - Central Coast	317	256	11
School District 50 - Haida Gwaii	868	804	7
School District 51 - Boundary	954	725	10
School District 52 - Prince Rupert	767	765	2
School District 53 - Okanagan Similkameen	1,234	951	13
School District 54 - Bulkley Valley	1,430	1,411	19
School District 57 - Prince George	5,519	5,506	13
School District 58 - Nicola-Similkameen	1,146	956	7
School District 59 - Peace River South (Dawson Creek)	2,840	2,344	27
School District 60 - Peace River North (Fort St.John)	4,395	3,332	47
School District 61 - Greater Victoria	5,558	5,544	14
School District 62 - Sooke	2,244	1,754	29
School District 63 - Saanich	2,116	1,720	21
School District 64 - Gulf Islands	399	243	8
School District 67 - Okanagan Skaha (Penticton)	1,696	1,459	15
School District 68 - Nanaimo-Ladysmith	3,936	3,507	38
School District 69 - Qualicum	2,086	1,609	20
School District 70 - Alberni	960	881	9
School District 71 - Comox Valley	2,250	2,243	6
School District 72 - Campbell River	2,288	1,926	21
School District 73 - Kamloops / Thompson	7,255	5,974	68
School District 74 - Gold Trail	963	615	17
School District 75 - Mission	2,119	1,799	15
School District 78 - Fraser - Cascade	796	620	10
School District 79 - Cowichan Valley	2,405	1,617	35
School District 81 - Fort Nelson	1,147	1,139	1
School District 82 - Coast Mountain	3,144	3,105	19
School District 83 - North Okanagan-Shuswap	3,216	2,103	44
School District 84 - Vancouver Island West	138	111	4
School District 85 - Vancouver Island North	868	736	8
School District 87 - Stikine	339	338	1
School District 91 - Nechako Lakes	2,670	1,882	33
School District 92 - Nisga'a	147	143	3
School District 93 - Conseil Francophone	1,038	1,037	0
Universities & Colleges Total	124,149	114,373	9,769
British Columbia Institute of Technology	7,480	7,472	8
Camosun College	2,209	2,207	2
Capilano University	1,309	1,308	1
Coast Mountain College College of New Caledonia	1,006	1,004	2
College of the Rockies	2,011 989	2,010 988	1
-			0
Douglas College Emily Carr University of Art and Design	1,701 130	1,701 130	0
Justice Institute of BC	573	571	2
Kwantlen Polytechnic University	2,436	2,434	2
Langara College	1,527	1,527	0
Nicola Valley Institute of Technology	1,327	1,327	0
Northern Lights College	2,058	2,055	3
North Island College	848	848	0
Okanagan College	1,283	1,282	1
	966	964	2
Koyal Roads University		1,057	1
Royal Roads University Selkirk College	1,058		-
			20
Selkirk College	9,465	9,445	20 166
Selkirk College Simon Fraser University Thompson Rivers University	9,465 3,507	9,445 3,341	166
Selkirk College Simon Fraser University	9,465 3,507 59,825	9,445 3,341 54,816	166 5,009
Selkirk College Simon Fraser University Thompson Rivers University University of British Columbia University of Northern British Columbia	9,465 3,507 59,825 7,182	9,445 3,341 54,816 2,654	166 5,009 4,528
Selkirk College Simon Fraser University Thompson Rivers University University of British Columbia University of Northern British Columbia University of The Fraser Valley	9,465 3,507 59,825 7,182 2,210	9,445 3,341 54,816 2,654 2,209	166 5,009 4,528 1
Selkirk College Simon Fraser University Thompson Rivers University University of British Columbia University of Northern British Columbia	9,465 3,507 59,825 7,182	9,445 3,341 54,816 2,654	166 5,009 4,528

- ling, numbers presented in Table 2 for each organization may not add up precisely to the ed.
- Corporations, schools, universities, colleges and health facilities purchase offsets from of Environment and Climate Change Strategy at \$25 per tonne of CO₂e to become carbon
- Emissions from public transit and school buses are offset exempt. •
- Bio CO_2e emissions are produced from the combustion of biogenic fuels (e.g., wood waste for heating, . renewable vehicle fuels) and are also offset exempt.
- In addition to the 642,360 offsets required for 2021, an additional 588 offsets were retired to reflect adjustments to previously reported years to ensure all regulated emissions were accounted for.



Table 3. Portfolio of Offset Projects for the 2021 Carbon Neutral Government Commitment

	Portfolio of Offset Projects for the				
	2021 Carbon Neutral Government Commitment				ent
Project	Sector	Project Type	Price / Tonne	Tonnes CO₂e	\$ Value
Low Emissions Facility	Oil and Gas	Fuel Switching	\$8.00	91,801	\$734,408.00
ARC Resources, Dawson Creek					
Electrification of Gas Production Plant (Noel)	Oil and Gas	Fuel Switching	\$8.00	12,325	\$98,600.00
Blue Source, Dawson Creek					
Electrification of Gas Processing Plant (Septimus)	Oil and Gas	Fuel Switching	\$8.00	34,182	\$273,456.00
Blue Source, Taylor					
Engine Fuel Gas Management (REMVue)	Oil and Gas	Energy Efficiency	\$11.00	500	\$5,500.00
Blue Source, Northeastern BC					
Natural Gas to Biomass Fuel Switch	Forest –	Fuel Switching	\$8.50	26,159	\$222,351.50
Canfor B.C. Sawmills – Elko, Prince George, Fort St. John, Chetwynd, Mackenzie	Industry				
Cheakamus Community Forest	Forestry –	Sequestration	\$14.00	7,712	\$107,968.00
Cheakamus Community Forest Society, Whistler	Land Use				
Forest Conservation/Improved Forest Management	Forestry – Land Use	Sequestration	\$12.00	195,882	\$2,350,584.00
Great Bear Rainforest, Haida Gwaii					
Forest Conservation/Improved Forest Management	Forestry – Land Use	Sequestration	\$12.00	187,849	\$2,254,188.00
Great Bear Rainforest, North and Central Mid-Coast					
Forest Conservation/Improved Forest Management Great Bear Rainforest, South Central Coast	Forestry – Land Use	Sequestration	\$10.56	75,037	\$792,444.00
Clean Tech Biomass Gasification Kruger Products, New Westminster	Forest – Industry	Fuel Switching	\$15.00	6,000	\$90,000.00
Landfill Gas Collection	Waste –		\$13.00	3,500	\$45,500.00
Columbia Shuswap Regional District, Salmon Arm	Landfill	GHG Destruction			
Switching to Biomass/Installing Energy Curtains	Agriculture	Fuel Switching	\$11.00	500	\$5,500.00
Sun Select Delta, Delta					
Bus Fuel Efficiency Project	Transportation	Energy Efficiency	\$13.00	1,500	\$19,500.00
Translink, Metro Vancouver					
GRAND TOTAL				642,947	\$6,999,999.50