



Attachment 3

2020 Climate Action KPI Report

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Historical data to provide indication of trends (3 previous data points if available)

	Climate Action Bold Step	Applicable Key Performance Indicator(s)	Measure	Target present?	Units	Associated Target or Contribution to a Target (if "Yes" in Column E)	Data source	Most Recent Data (2020 or earlier)	Year of most recent data (2020 or earlier if not available annually)	Historic Data Point	Year 1	Historic Data Point 2	Year 2	Historic Data Point 3	Year 3	Anticipated frequency of metric updates	Note/Comments/Challenges/Learnings
1A	Step 1: Carbon Free Corporation	City's Corporate Greenhouse Gas(GHG) Emissions	Aggregated GHG for all operations - Fleet/Buildings/Lighting/Water	Yes	tCO2e/year (tonnes of carbon dioxide equivalent, or GHG emissions per year)	45% below 2010 levels by 2030	Climate Emergency and CEERS	3454	2020	3741	2019	3897	2018	4289	2017	Annual	Data is easy to gather and compile. Sub-metrics for this data are also available (annual emissions by sector).
2A	Step 2: Car Light Community	Sustainable Transportation Mode Share	Percentage of all trips made by foot, bicycle, transit and shared motor vehicle in the City	Yes	Percentage %	60% of all trips within the City will be by sustainable modes of transportation (walk, transit, bike, multi-occupant shared) by 2030	TransLink Trip Diary, Stats Canada Journey to Work Census	42%	2016	-	-	-	-	-	-	5 year	2021 data is anticipated to be available in 2023.
2B	Step 2: Car Light Community	Bus Service Hours (Annual)	Number of bus service hours for bus routes providing service within City.	No	Bus service hours	N/A	TransLink	-	-	-	-	-	-	-	-	Annual	Data expected from Translink; not available for 2020 due to unexpected staffing changes and data breach.
2C	Step 2: Car Light Community	SkyTrain Boardings (Annual)	SkyTrain Boardings for all stations within City.	No	Boardings	N/A	TransLink	-	-	-	-	-	-	-	-	Annual	Data expected from Translink; not available for 2020 due to unexpected staffing changes and data breach.
2D	Step 2: Car Light Community	Length of Cycling Lanes	Total length of cycling lanes in City.	No	Length in km	N/A	City GIS	58.6	2020	-	-	-	-	-	-	Annual	Data derived from City GIS.
3A	Step 3: Carbon Free Homes and Buildings	Buildings and Homes GHGs	GHGs per capita (Buildings and Homes only)	Yes	tCO2/person	All new and replacement heating and hot water systems will be zero emissions by 2030.	New Westminster Electrical Utility, BC Hydro, Fortis BC	2	2016	2.12	2016	-	-	-	-	Annual	Information based on updated CEEP inventory, for which the baseline year is 2016.
3B	Step 3: Carbon Free Homes and Buildings	Buildings and Homes GHGs	Total GHGs (Buildings and Homes only)	Yes	tCO2	All new and replacement heating and hot water systems will be zero emissions by 2030.	New Westminster Electrical Utility, BC Hydro, Fortis BC	150483	2016	150483	2016	-	-	-	-	Annual	Information based on updated CEEP inventory, for which the baseline year is 2016.
3C	Step 3: Carbon Free Homes and Buildings	Number of completed energy efficient homes (above Building Code requirements)	Energy and GHG impact of completed homes above baseline building code (for 2020 we will only include High Performance Homes)	No	Number of homes (in terms of GJ GHG)	N/A	Energy Save New West	4	2020	4	2020	-	-	-	-	Annual	Only high performance homes are included in this value. Homes built to CNWs step code requirement (Step 3 which is still better than baseline building code) do not have data available and are excluded at this time. Value derived from ESNW: 2020 Impact Report & 2021 Initiatives under High-Performance New Homes section. This is the first report that measures impact of ESNW & documents high performance homes.

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3D	Step 3: Carbon Free Homes and Buildings	GHG Savings from Buildings and Homes	GHG reduced in existing buildings through energy and emissions reduction programs (municipal led, provincial and other utilities)	No	kg CO2/year tCO2/year	N/A	Energy Save New West, Electricity & Natural Gas	GHG emissions saved (post upgrade) through ESNW initiatives = 216.7 tCO2/year 73,160 kWh (or 17056.522 kg CO2e) saved based on total number of thermostats (MYSA pilot)	2020	-	-	-	-	-	-	Annual	We do not have this information readily available as determining emissions saved from energy and emissions reduction programs are delivered by various organizations (provincial, BC Hydro, etc.) and we would need to coordinate data collection with them annually from program summary reports. There is an industry challenge with respect to long term monitoring evaluation of energy conservation initiatives. Emissions saved through New West Electrical Utility initiatives are all derived from the 2020 ESNW program impact reports.
4A	Step 4: Pollution Free Vehicles	Electric Vehicle Charging (City Owned)	Number of new EV stations installed.	No	Stations/yr	N/A	EV charger providers' online network management portals	2	2020	0	2019	2	2018	2	2017	Annual	Easy to pull this data and will be done annually.
4B	Step 4: Pollution Free Vehicles	Electric Vehicle Charging (City Owned)	Electric fuel delivered	No	km driven* Usage Hours per year** % EV Adoption***	N/A	*Calculation* *EV charger providers' online network management portals** *ICBC ***	*N/A* *42,796H 54M 38S *1.5% ***	2020	*N/A* *17,312H 20M 25S *1.09% ***	2019	*N/A* *7975H 33M 59S *0.56% ***	2018	*N/A* *2439H 43M *0.31% ***	2017	Annual	*We do not have this information readily available and producing it would require an assumptions based calculation.* *Usage Hours are not complete for historic data. BCIT has not been providing data from Sun Country chargers. These chargers were replaced so it will be highly accurate moving forward.** *EV adoption % is produced by, and retrieved from public ICBC data. ***
5A	Step 5: Carbon Free Energy	Electrical Infrastructure	Total electricity consumed	No	kWh billed (or ~0.001 MWh)	N/A	Utility Bills	441,906,346	2020	438,287,181	2019	442,070,076	2018	436,943,120	2017	Annual	kWh (or 0.001 MWh) billed is a direct indicator of consumption and can be cross-referenced against future population growth in the city in order to confirm and quantify median net consumption increase.
6A	Step 6: Robust Urban Forest	New trees planted	- Net New Trees (Public and Private) Sub-metric such as trees planted by neighbourhood (equity metric)	Yes	Number of trees	Increase urban forest canopy cover 27% by 2030	Parks and Recreation	500	2020	-	-	-	-	-	-	Annual	Number of trees planted by City on public lands.
6B	Step 6: Robust Urban Forest	Tree Canopy Cover	Percentage of tree canopy cover increased from baseline level.	Yes	Percentage of canopy cover	Increase urban forest canopy cover 27% by 2030	Parks and Recreation	-	-	N/A	-	-	-	-	-	5 year	Percentage not yet available as frequency of data required has not been complete.
7A	Step 7: Quality People-Centered Public Realm	Natural Areas	5 year birds eye view of total land area	No	Hectares	N/A	Inventory completed for Biodiversity Strategy	61 Hectares	2020	75.6 hectares	2015	-	-	-	-	5-year	Historical data from Ecological Inventory.
7B	Step 7: Quality People-Centered Public Realm	Natural Areas	Annual updates on efforts such as conversion of invasives to native species.	No	Hectares	N/A	Data from project with community group	0.0023 Hectares	2020	-	-	-	-	-	-	Annual	Estimate of the area of land (in hectares) restored in 2020.
7C	Step 7: Quality People-Centered Public Realm	Number of stormwater management interventions/Best Practice Measure installed	Number of stormwater management interventions (public) Sub-metrics could include in future the resulting volume or percent diverted flow	No	# of interventions	N/A	Engineering Capital Works Plan	1 (Queens Park -2019)	2020	1	2019	0	2018	0	2017	Annual	This only captures Engineering initiated projects, there may be additional ones that were started from other resourcing (ie. Lower Hume Park) that are not captured.

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7D	Step 7: Quality People-Centered Public Realm	Number of new gathering spaces	Number of new gathering spaces created (i.e. new benches, etc.)	No	#	N/A	Parks and Recreation	5	2020	5	2020	-	-	-	-	Annual	Includes parklets, seating areas in parks, open spaces, street ROW.
7E	Step 7: Quality People-Centered Public Realm	Road space re-allocation	% of road space re-allocated to sustainable transportation or public realm uses	No	sq. km.	N/A	-	-	-	-	-	-	-	-	-	Annual	Data will be available in 2022 KPI update
E1	Environment	Water Use Per Capita	Residential water usage, expressed in litres, annually per capita	No	L/capita/day	N/A	Metro Vancouver Billing	303	2020	307	2019	317	2018	317	2017	Annual	Data can be compiled by February of the following reporting year, i.e. 2021 data will be compiled by Feb 2022.
E2	Environment	Single Family Waste Diversion	Percentage of waste from single family households that does not enter the waste stream for incineration or landfill	Yes	Percentage of waste from single family homes diverted from landfill	To be determined*	City Engineering Operations	5284.14 T 62.70%	2019	-	-	-	-	-	-	Annual	*To be determined based on CEEP 2021. - At this time, most of our organic waste is hauled over to a transfer site prior to being sent to Lytton where it gets composted for cattle and sheep and used for agricultural purposes, etc. - City has a month-to-month contract with them. The waste gets processed there and we charge a rate per tone. - Some waste is transported to a GFL facility that is located in Delta, however this percentage is not confirmed.
E3	Environment	Sewer separation	Percentage of combined sewer separated	Yes	km separated	1.5% combined sewer separation annually	Annual Capital Works Program (City GIS)	2.5km	2020	0.6 km	2019	4.9km	2018/2017	-	-	Annual	Data relatively easy to obtain, can pull from previous years' construction tenders.