



# Saanich Climate Plan Annual Report Card 2021



# 2021 Highlights



## Mobility



Launched the **Community E-Bike Incentive Program Pilot**, providing **300 incentives** for new e-bikes



**14 Traffic signals upgraded** to give more priority to pedestrians



More than **2 km** of new all ages and abilities (“AAA”) bike lanes completed



**7** new or enhanced **crosswalks added**



**73 parking stalls in 3 multi-family buildings** retrofitted with EV Ready infrastructure



Installed **10 new transit shelters**



Launched new **“top-up” incentives to the CleanBC Go Electric Charger Rebate Program** to support EV charging in multi-family buildings



Installed **20 new public EV charging stations** at Saanich facilities and parks



## Buildings and Infrastructure



**38 commercial buildings** representing **3.7 million square feet** in Saanich are working towards achieving GHG reductions through the **Greater Victoria 2030 District**



**Expansion** of the successful regional **Bring It Home for Climate** program to other municipalities in BC, including the City of Vancouver



**10** commercial, institutional or multi-family buildings in Saanich **benchmarking their energy use and carbon emissions** as part of **BenchmarkBC**



**267** households received Saanich top-up rebates to **switch from fossil fuels to renewable electric heat pumps** for home heating and cooling



## Food and Materials



**Phased out single-use plastic bags** with the introduction of the Checkout Bag Regulation Bylaw



**Love Food Hate Waste** campaign on the move with messages on Saanich Garbage Trucks, Transit Shelters and social media



CRD **Solid Waste Management Plan approved** with Saanich serving on the CRD Solid Waste Advisory Committee



Expanded Saanich **battery recycling** drop-off program to include **electric mobility batteries**



## Ecosystems



**Natural Intelligence** program won **Campaign of the Year** at the 2021 Digital Communications Awards



500 trees were planted in the Urban Forest and 1,950 in Natural Areas for a total of **2,450 trees in 2021**



Acquired land to **expand Swan Lake Nature Sanctuary** by 1,089 m<sup>2</sup>



**Pulling Together** and **Park Ambassador volunteers** contributed over **15,000 stewardship hours** to habitat restoration, education and outreach



## Community Well-being



Saanich Community Grants Program policy amended to include the **Neighbour to Neighbour (N2N)** project



**One Planet Saanich** grew to **20 organizations**, committing to **over 200 climate actions**



Delivered **16 Emergency Preparedness workshops** to **179 attendees**



**WSÁNEĆ Leadership Council** and **District of Saanich** signed the **ÁTOL,NEUEL** (“Respecting One Another”) **Memorandum of Understanding**



Online **Climate Action Workshop Series** launched with **over 50 registrants**



Partnered with **Community Social Planning Council** on the **Transportation, Access, Climate, and Economic Security** (TACES) program



## Leadership in District Operations



Launched our **Fleet e-bike program** with **26 staff trained** and **over 500 km travelled** in the first year



Purchased **Renewable Diesel** for 20% of our fleet diesel use, saving **360 tonnes of carbon** annually



**Installed 9 Level 2 EV charging stations** for fleet vehicles at Fire Hall#1 and the Municipal complex



Saanich achieved an **A grade** from the **CDP for Climate Action Progress in 2021**



Saanich joined the **Race to Zero** and **Race to Resilience** campaigns to rally leadership globally in preparation for COP26



Saanich Climate Plan won the **2021 Award for Planning Excellence** in Climate Change Planning by the Canadian Institute of Planners



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# Introduction

The Saanich Climate Plan outlines a vision along with targets, objectives, strategies and actions to protect our community, improve our quality of life, and reduce local and global risks associated with a changing climate over the next 30 years.

## PLAN GOALS



1. **CUT EMISSIONS IN HALF BY 2030 AND TO NET ZERO BY 2050**



2. **TRANSITION TO 100% RENEWABLE ENERGY BY 2050**

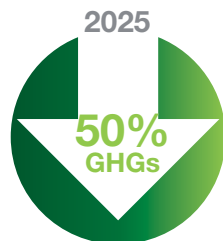


3. **PREPARE FOR A CHANGING CLIMATE**

## LEAD BY EXAMPLE

The District's corporate targets from municipal operations are designed to "lead by example" by reaching emissions limits early. This means we will:

Reduce greenhouse gas (GHG) emissions from municipal operations to 50% of 2007 levels by 2025.



Achieve net-zero GHG emissions from municipal operations by 2040.



An important action in the plan is to report annually on our progress. This Report Card provides a summary of progress towards our targets and objectives followed by an overview for each Climate Plan Focus Area. A status update with more details on all actions is included in the Appendix.

2021 marked our second year of reporting and brought with it a series of devastating extreme weather events fueled by climate change. These included several unprecedented heat waves, wildfires and flooding across BC. These extreme weather events resulted in hundreds of deaths, thousands of evacuations, destruction of infrastructure and property, major disruption to supply chains, impact to livestock and agriculture and millions of dollars of damage. These events demonstrated the critical need to ensure we meet or exceed our climate targets and prepare for the climate changes that are not only projected, but also already upon us.

While areas of the Climate Plan still need metrics and indicators to be developed, particularly related to climate adaptation and resilience, the hiring of new staff to focus on climate adaptation will support progress on this front starting in 2022. One of the challenges that we face is obtaining up-to-date data. For example, data for several of the targets outlined in the Climate Plan are currently unavailable on an annual basis. For instance, targets related to mobility rely on the regional Origin Destination Household Travel Survey conducted every five years. Where data is unavailable or metrics are in development, this is noted within the report.

While the Plan focuses on strategies and actions over which the District has either control or influence, it is clear that we cannot achieve this alone. Our collective success requires action from everybody, including residents, businesses, non-profits, community organizations, institutions, neighbouring municipalities and senior levels of government.

**We need to do this together.**

# Progress on Community-Wide GHG Targets

## Territorial Emissions Inventory

The latest Saanich community-wide greenhouse gas (GHG) emissions inventory is for 2020 and follows the Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories, accounting and reporting standard for cities (Basic+).

2020 presented an unusual year for energy use and emissions as a result of COVID-19. Some facilities and businesses were closed to the public for several weeks and, once re-opened, many were running at lower capacity. This impacted the amount of energy used by those facilities as well as the fuel used to get to and from them. At the same time, there was a shift to work-from home for a proportion of the workforce, increasing daily energy use in the residential sector for home heating and power while also reducing the fuel used for commuting. Recreational travel was also impacted by travel restrictions and/or a general hesitancy to travel far during a pandemic.

The 2020 community-wide GHG emissions inventory shows the following:

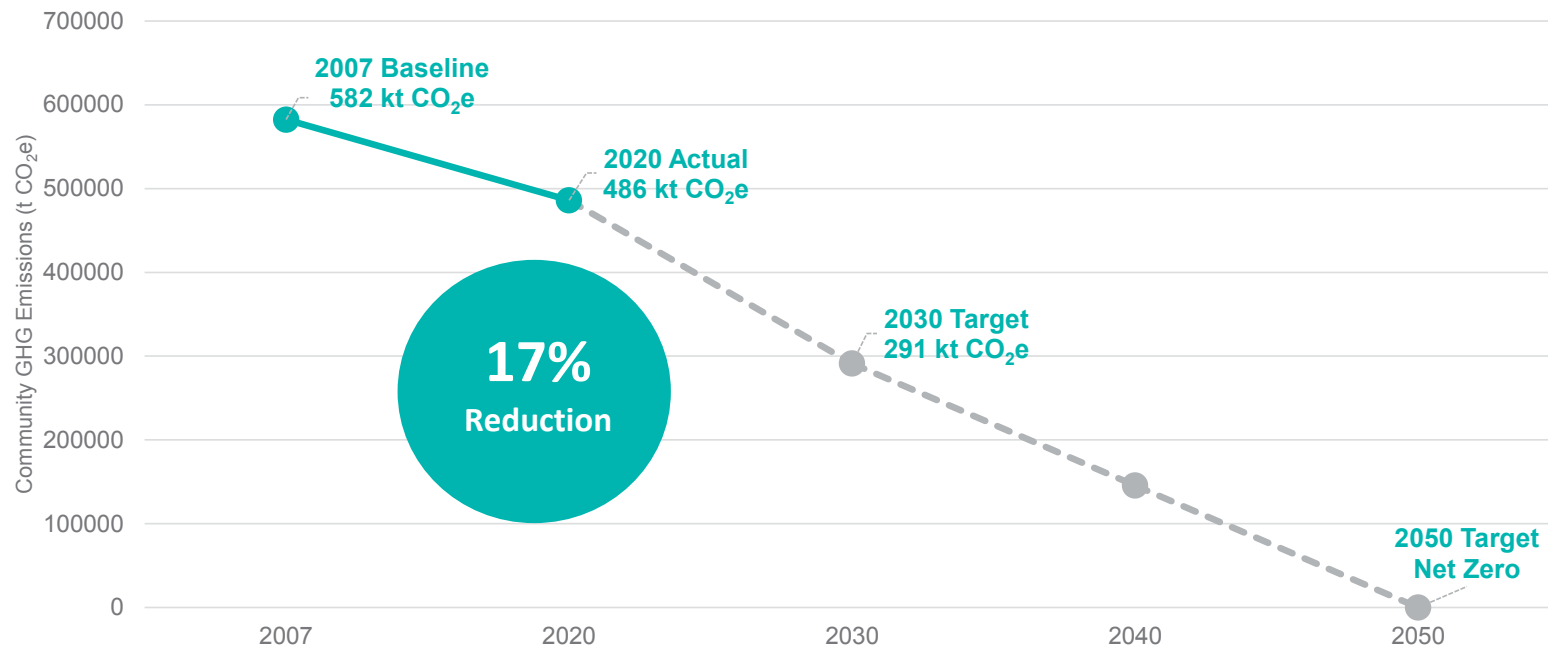
- Overall community-wide emissions decreased by 17% between 2007 and 2020. This compares to a 14% reduction seen between 2007 and 2018. A portion of the progress in 2020 must be attributed to the impacts of COVID-19.
- In previous years transportation accounted for the majority of our community-wide emissions (57% in 2018), followed by buildings (35% in 2018). While transportation remains the largest source of emissions in our community, 2020 saw the gap narrow between transportation and building emissions, likely due to the impacts of COVID-19.
- While building emissions are 3% lower in 2020 compared to our 2007 baseline, there was a 4% increase in building emissions between 2019 and 2020, primarily due to increases in fuel use to heat residential buildings.

- Transportation emissions decreased dramatically in 2020, showing a 29% reduction from the 2007 baseline. To put this into context, there was a 7% reduction in transportation emissions seen between 2007 and 2018 in our last inventory. While notable progress has been made on active transportation and vehicle electrification since 2018, the considerable drop in 2020 is likely largely attributed to COVID-19 and is primarily related to reduced fuel use in personal vehicles and a notable reduction in aviation fuel use.
- Waste emissions continued to decrease in 2020 with a 36% reduction from the 2007 baseline. This shift can primarily be attributed to the widespread adoption of composting as well as landfill methane capture and the biological treatment of waste.

COVID-19 has had a considerable global impact and has resulted in many behavioural changes that influence our community emissions. While devastating in many respects, the pandemic has presented opportunities to establish more sustainable behaviours, particularly around personal travel. At the same time the pandemic has highlighted the impact of fossil-fuel consumption in other areas, such as home heating. It is difficult to determine at this stage what behavioural changes will persist as the pandemic continues to evolve, health advisories change and new work and cultural norms are established. However, there is an expectation that the transportation emissions reductions identified in the 2020 inventory will not be reflected to the same extent in the next inventory.

In summary, there has been a considerable decrease in community-wide GHG emissions since our 2007 baseline, some of which is likely attributed to behaviour changes during COVID-19 that may persist. However, despite the changes that the pandemic brought about, we are still not on track to meet our targets and considerable action continues to be needed.

## Saanich Community-Wide Territorial GHG Emissions and Targets



## Methodology and Data Updates

Several updates to the methodology were required for this inventory. This means that there are notable differences compared to the 2018 data from the last Climate Plan Report Card.

### Electricity Emission Intensity Factors

One key difference relates to a change in the provincial methodology for calculating electricity emissions intensity factors – the information used to determine the GHG emissions for each unit of electricity used. Previously, these factors reflected the emissions intensity of the electricity generated by each utility provider. The scope has now changed to also include all power producers in B.C. as well as the electricity that is imported for in-province consumption.

While B.C. is the cleanest jurisdiction in western North America with an average of 98% of its electricity generation coming from renewable sources, the new methodology makes us more accountable for the energy we consume, including any fossil-fuel generated electricity purchased to supplement the electricity generated by BC Hydro. This has resulted in different and often higher emissions from electricity shown in this year’s inventory compared with those reported previously.

It should be noted that while the emissions from electricity have risen in some years due to this adjustment, they are still vastly lower than those of fossil fuels such as natural gas, oil, propane, diesel and gasoline. Importantly, the Provincial government and BC Hydro have committed to a 100% clean standard for electricity delivered to customers through the integrated grid (electricity that is generated as well as purchased), with the goal of becoming the first jurisdiction in western North America to achieve this objective.

## Data

We continue working with regional partners, the Province, ICBC, BC Hydro, and FortisBC to acquire more frequent and reliable data at the local level to assist with reporting. Transportation data continues to be a constraint in the absence of Vehicle Kilometres Travelled (VKT); information that could be provided through the collection of odometer readings by ICBC. This data has been requested by local governments for several years and has led to a provincial commitment to provide the information. However, it has still not been made available. As such, the District of Saanich and City of Victoria are conducting a survey to collect a sample of this information throughout 2022 in order to inform the next GHG inventory. We continue to advocate to the Province to work with ICBC to provide this critically valuable information to local governments.

## Consumption Based Emissions Inventory and One Planet Living

While the global standard for measuring city-wide climate impact is the territorial GHG emissions inventory using the GPC Basic+ methodology, this does not provide a complete picture of our community's impact on global climate change. It assigns the climate impacts from producing the food and goods we consume to the producer community instead of us.

Most of the goods we consume in Saanich are produced in other regions and countries. In order to better understand the climate impact of our consumption, the Climate Plan also includes a Consumption Based Emissions Inventory (CBEI) and actions to reduce it. The CBEI shows our consumption based emissions are almost double what we report in our territorial emissions inventory.

The last CBEI was completed in 2015 and relied on several data sets at the national level. In order to better report on the impacts of our climate actions, we have been exploring the collection of more local

consumption data prior to completing the next CBEI update. While data collection is expected to take time and resources, it is critical to measure this inventory to ensure we better capture the true global climate impact of our community.

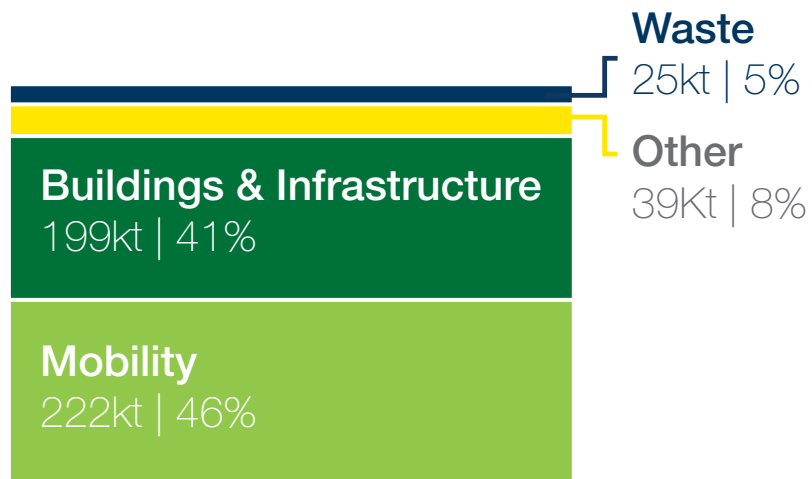
As we progress towards our renewable energy and net zero GHG emissions targets, addressing the role of embodied emissions in the materials we consume and the role of carbon sequestration in nature will increase in importance. Therefore, updating our CBEI to help prioritize actions will be essential.

Climate change is not the only type of planetary overshoot we are experiencing. Due to unsustainable levels of consumption, global society today is demanding more in a year through consumption of energy and resources than nature can provide, and polluting more than nature can assimilate – we are exceeding many planetary boundaries and are in a state of “ecological overshoot” rather than living within the carrying capacity of our one planet. We measure our impact in ecological ‘footprints’ – the number of hectares per person of productive land on earth required to support our lifestyle. If everyone had lifestyles comparable to a Saanich resident, we would need approximately two earths to provide all of the natural resources necessary to support us. Reducing our climate impact is just one part of achieving One Planet Living.

To ensure we make decisions holistically while facing multiple social and ecological challenges, and to maximize co-benefits and minimize unintended consequences, we will continue to use One Planet Living Principles in climate action.



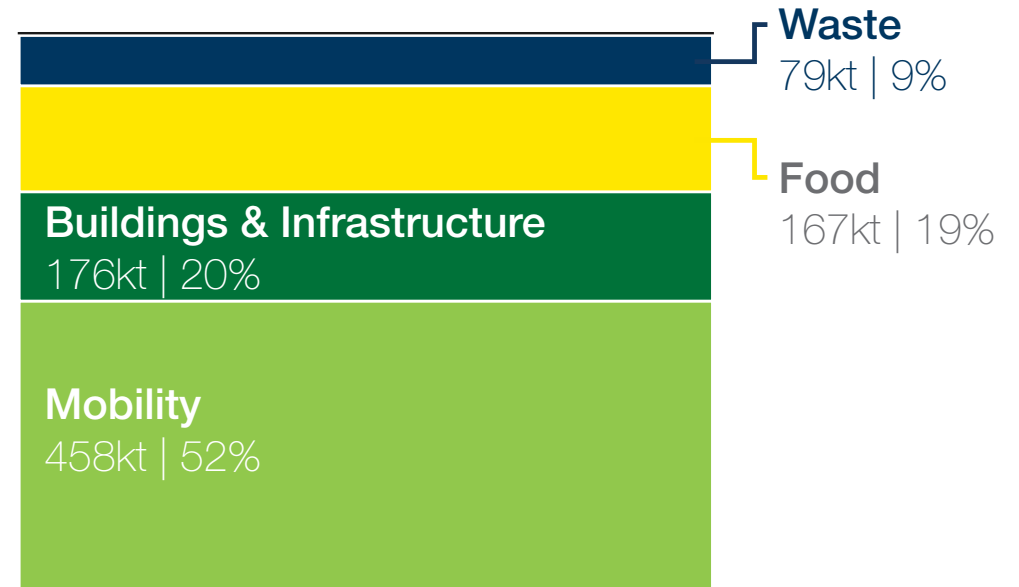
## Saanich GHG Inventories: Territorial vs. Consumption Based Emissions



### 2020: Total Territorial Emissions

486 kilotonnes of CO<sub>2</sub>e

3.9 tonnes of CO<sub>2</sub>e per person



















### 2015: Total Consumption Emissions


















881 kilotonnes of CO<sub>2</sub>e

7.7 tonnes of CO<sub>2</sub>e per person

# Progress on Objectives

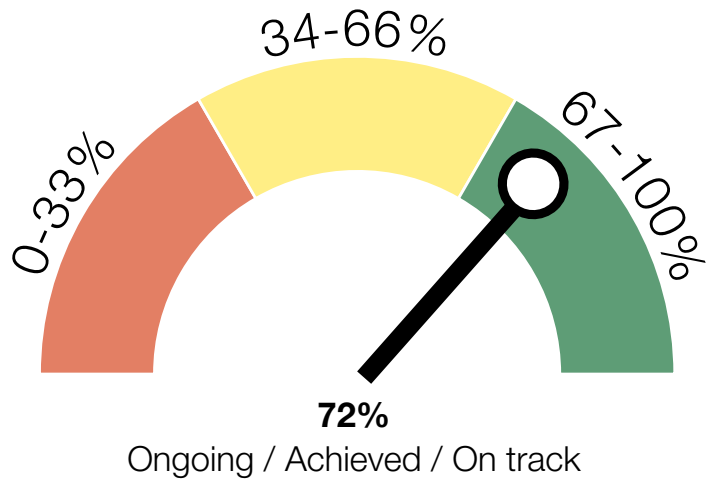
KEY FOCUS AREA	MEASURE OF SUCCESS (OBJECTIVE)	WHERE WE ARE AT	2030 TARGET	2050 TARGET
 <b>Mobility</b>	 % of all trips taken by walking and cycling	13%	22%	30%
	 % of trips taken by transit	10%	14%	20%
	 % of personal vehicles electrified	2%	36%	100%
	 % of personal and commercial vehicles renewably powered	1%	-	100%
	 % of buses that are electric	0%	100%	100%
 <b>Buildings and Infrastructure</b>	 New buildings that achieve the higher steps of BC Energy Step Code	<1%	100% by 2025	100%
	 New buildings that are net-zero carbon	<1%	100% by 2030	100%
	 Embodied emissions are reported and lowered*	0%	100%	100%
	 % of oil heating systems replaced by heat pumps since 2017	9%	100%	100%
	 Building space heating demands are reduced by 30%	Emissions increased	40%	80%
	 % of existing natural gas heating systems that are replaced by renewable energy systems	1%	40%	100%
	 Sufficient renewable energy sources are available to support required conversions from fossil fuel systems	Metrics to be developed		
	 Buildings and infrastructure are designed or retrofitted for changing climate conditions, ecological functions and exposure to climate hazards	Metrics to be developed		
	 Land use and development patterns minimize exposure to sea-level rise	Metrics to be developed		

\* More information about embodied emissions can be found in the Saanich Climate Plan, available at [saanich.ca/climateplan](https://saanich.ca/climateplan)

KEY FOCUS AREA	MEASURE OF SUCCESS (OBJECTIVE)	WHERE WE ARE AT	2030 TARGET	2050 TARGET
 <b>Food and Materials</b>	 Saanich's consumption-based emissions related to food are reduced <p>Metrics to be developed</p>			
	 0% of compostable organic waste and paper that is landfilled <p>21% organics 15% paper</p>		0%	0%
	 Emissions from consumer choice and industry transition (e.g., refrigerants, aerosols, foams, equipment, livestock, fertilizer, etc.) are reduced i.e. Industrial Processes and Product Use (IPPU) and Agriculture, Forestry and Other Land Use (AFOLU) <p>11,397 t CO<sub>2</sub>e</p>		-	0 t CO <sub>2</sub> e
	 Agricultural land is protected: Hectares of land in Saanich within the ALR <p>1,843 ha</p>		TBD	TBD
	 A greater proportion of food is grown and consumed locally: Hectares of land and % of total land that is actively farmed in Saanich <p>1,478 ha 14%</p>		TBD	TBD
	 The majority of local farmers have the ability to adapt their production practices to a changing climate <p>Metrics to be developed</p>			
	 <b>Ecosystems</b>	 Ecosystem health and biodiversity are protected <p>Metrics to be developed</p>		
 The removal of carbon from the atmosphere by trees, plants, and ecosystems in Saanich is increased <p>Metrics to be developed</p>				
 Ecosystem services are maintained or enhanced <p>Metrics to be developed</p>				
 <b>Community Well-being</b>	 Emergency and community health services are adequate to respond to the identified climate risks <p>Metrics to be developed</p>			
	 Climate action benefits people in Saanich, helping to improve air quality and community health while supporting clean energy jobs and a diverse economy <p>Metrics to be developed</p>			
 <b>Leadership in District Operations</b>	 The District of Saanich is a recognized leader in climate action: Carbon Disclosure Project (CDP) report score <p>A</p>		A	A
	 Reduction in GHG emissions from municipal operations compared to 2007 levels <p>12%</p>		50% by 2025	100% by 2040

# Progress on Actions

The Climate Plan identifies a total of 131 actions to be implemented over the coming years, of which 86 were due to be initiated by 2021. Of these, 62 actions (72%) are Ongoing, Achieved, or On Track, with an additional 6 actions from future years Ahead of Schedule. 24 (28%) of the actions are currently Behind Schedule or On Hold.




The next section provides a summary of progress on the Climate Plan Targets, Objectives and Actions for each Focus Area:

- Mobility
- Buildings and Infrastructure
- Food and Materials
- Ecosystems
- Community Well Being
- Leadership in District Operations

Details on all actions are included in the Appendix and the progress on actions within each Focus Area are outlined below.

## Progress on all 2020 and 2021 actions

Progress on 2020 and 2021 Actions for each Focus Area					
Mobility	Buildings and Infrastructure	Food and Materials	Ecosystems	Community Well-being	Leadership in District Operations
<b>72%</b> Ongoing / Achieved / On track	<b>79%</b> Ongoing / Achieved / On track	<b>100%</b> Ongoing / Achieved / On track	<b>73%</b> Ongoing / Achieved / On track	<b>67%</b> Ongoing / Achieved / On track	<b>53%</b> Ongoing / Achieved / On track

Council approved seven First Priority Actions to shift away from business as usual and respond quickly and effectively to the Climate Emergency. First Priority Actions are discussed in each Focus Area and identified in the Action Tables in the Appendix with the following icon. 

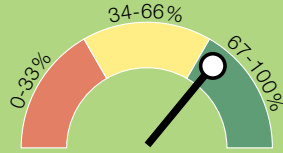
These First Priority Actions include the following:

First Priority Action	Climate Plan Action / Strategy	Status Update
1. Increase investment in active transportation to reduce both territorial and consumption-based emissions, improve air quality, and promote health and equity.	Action M1.1	On track
2. Accelerate personal transportation electrification by developing an electric mobility strategy for Saanich.	Action M3.1	Achieved
3. Convert all oil heating systems to renewable heating systems by 2030 or sooner.	Action B2.2	Behind Schedule
4. Enhance support for efficiency and renewable energy upgrades in existing buildings to enable 40% of homes and businesses to switch to efficient and renewable energy systems by 2030.	Strategy B2	10 of 13 actions identified for 2020 and 2021 Ongoing or On track and 3 On Hold or Behind Schedule
5. Double the rate of planting trees to enhance urban forest for increased carbon sequestration and other ecosystem services.	Action E1.1	On track
6. Improve climate resilience of Saanich's infrastructure, such as our stormwater system, flood hazard planning, and engineering design specifications.	Strategy B5	2 of 3 actions identified for 2020 and 2021 On track and 1 Behind schedule
7. Catalyze community actions by developing a supportive network and resources to encourage and sustain personal efforts.	Strategy C2	5 of 8 actions identified for 2020 and 2021 Achieved, Ongoing or On track and 3 Behind schedule

Action Reporting Status	
Ongoing	The action has no completion timeline and requires continuous work on an annual basis.
Achieved	The action has been implemented.
Ahead of schedule	The action is underway and anticipated to be completed before the designated time frame.
On track	Work is progressing and the action is anticipated to be met in the designated time frame.
Behind schedule	Work has either not started or it progressed, but the pace of effort will need to increase before it can be considered on track to be completed in the designated timeframe.
On hold	The action is currently on hold and work is not proceeding.
Future action	The action has not yet started and is slated for development in the future.



# Mobility and Electric Mobility



Students, staff and volunteers tried out e-bikes at the Intercultural Association's (ICA) Climate-friendly Transportation event in partnership with Saanich, Victoria, the CRD, and the Community Social Planning Council.

(Photo credit: ICA)

# Mobility Summary

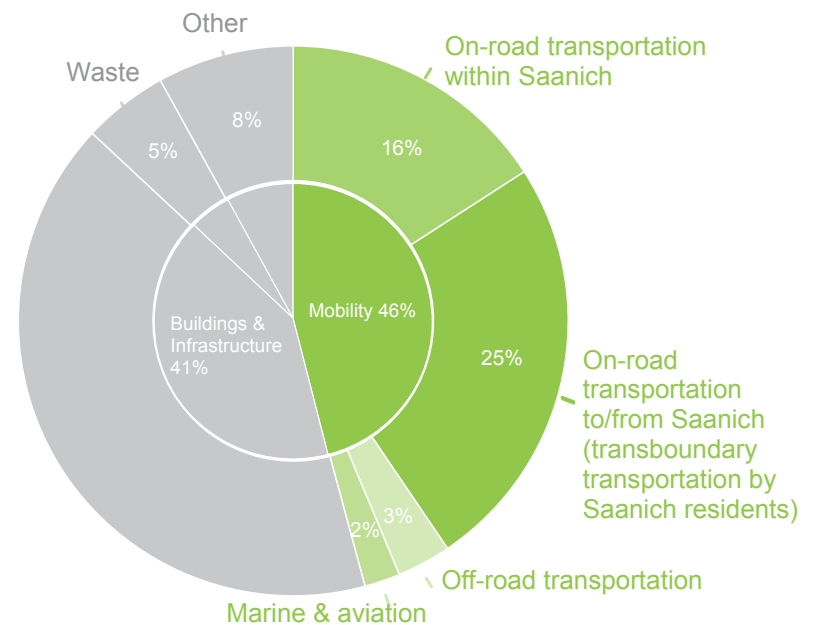
The latest 2020 community-wide GHG inventory indicates that there has been a 29% reduction in Saanich's transportation GHG emissions since our 2007 baseline (compared to a 7% reduction between 2007 and 2018). The considerable drop in 2020 is related to reduced fuel use in personal vehicles and aviation, and is likely heavily influenced by behaviour changes during COVID-19, as a result of travel restrictions and a rapid increase in working-from-home. It is difficult to determine what behavioural changes will persist as the pandemic evolves but it is expected that transportation emissions reductions will not be reflected to the same extent in the next inventory and that continued acceleration of efforts in this focus area will be required to meet our targets.

While the GHG impact is positive overall, COVID-19 has negatively impacted transit use and BC Transit has frozen planned expansion hours for 2021, focusing efforts on improving service through RapidBus and attracting riders back to transit. On a positive note, 2021 has seen an increase in cycling and the use of electric bikes and other e-mobility devices, supported by the successful launch of the Saanich Community E-bike Incentive Pilot Program.

The growth in electric vehicles (EVs) continues, supported by the installation of 20 new public chargers at Saanich facilities, top-up incentives for EV ready infrastructure in Multi-Unit Residential Buildings (MURBs) and major awareness campaigns. Of the 32 actions in the Electric Mobility Strategy due to start by 2021, 24 (75%) are Ongoing, Achieved or On track with 8 (25%) Behind Schedule or On Hold.

Of the 18 Mobility actions in the Climate Plan due to start by 2021, 13 (72%) are Ongoing, Achieved or On track but five (28%), all related to active transportation, are Behind Schedule or On hold. With the additional budget approved by Council in 2021 to accelerate implementation of the Active Transportation Plan, and commitment to exploring further fast-tracking this action, it is expected to get back on track in the next two years.

## Transportation emissions in Saanich Territorial GHG Inventory, 2020





In October 2021 Saanich launched the Community E-Bike Incentive Pilot Program to help residents adopt renewable active transportation options. E-bikes are a climate-friendly transportation choice that make it easier to use a bike for longer trips, for routes with steep hills, for wearing street instead of exercise clothes and for hauling young children or heavier loads such as groceries. The pilot was designed to address equity and informed by input from the Community Social Planning Council, providing higher incentive tiers for income qualified individuals. A study by UBC will evaluate the impact of the incentives and of e-bikes on GHG emissions in Saanich.

Saanich Community E-bike Incentive Pilot Program participants say:  
*“This program has made it affordable to buy an e-bike and got me to try out a bike after over 25 years.”*  
*“This will be great for me and my kids. Will cut down the use of my car by so much!”*

## Progress on Mobility Targets

Baseline:	In 2007, Saanich’s transportation emissions were	310,789	t CO <sub>2</sub> e
Latest measurement:	As of 2020, Saanich’s transportation emissions were	221,741	t CO <sub>2</sub> e

## Progress on Mobility Objectives

Objective	Where we were		Where we are at		2030 Target	2050 Target
	Status	Year	Status	Year		
% of all trips taken by walking and cycling	10%	2011	13%	2017	22%	30%
% of trips taken by transit	7%	2011	10%	2017	14%	20%
% of personal vehicles electrified	<1%	2018	2%	2020	36%	100%
% of vehicles renewably powered (all vehicle classes)	<1%	2018	2%	2020	N/A	100%
% of transit buses that are electric	0%	2018	0%	2021	100%	100%

# Progress on Electric Mobility Strategy Metrics

Metric	Where we were		Where we are at	
	Status	Year	Status	Year
<b>EVs in Saanich by use</b>				
• # of EVs for personal use (% of all vehicles registered for personal use)	596 (0.9%)	2018	1,362 (2.0%)	2020
• # of EVs for business use (% of all vehicles registered for business use)	134 (1.2%)	2018	213 (2.1%)	2020
<b>EVs in Saanich by vehicle class</b>				
• # of passenger/light duty EVs (% of passenger vehicle registrations)	730 (1.1%)	2018	1,574 (2.5%)	2020
• # of Commercial/medium & heavy duty EVs (% of commercial vehicle registrations)	4 (0%)	2018	2 (0%)	2020
• # of “other”EVs/motorcycles & motorhomes (% of “other” vehicle registrations)	2 (0.1%)	2018	3 (0.1%)	2020
<b>Municipally owned public EV charging station use</b>				
• # of Saanich-owned public EV charging stations	12	2018	32	2021
• Total hours of use annually	30,892 hours	2019	18,198 hours*	2021
• Average daily hours of use per station in each calendar year	6.1 hours	2019	2.3 hours*	2021
• Total electricity use annually	129,474 kWh	2019	87,504 kWh*	2021
• Average daily electricity use per station in each calendar year	25.3 kWh/day	2019	11.3 kWh/day*	2021
<b>Saanich-wide public EV charging network</b>				
• # of level 2 public EV charging stations	59	2019	91	2021
• # of DCFC public EV charging stations (includes Tesla superchargers)	24	2019	26	2021
<b>Availability of at-home charging in multi-family buildings</b>				
• # of multi-family buildings that have installed EV Ready infrastructure for all units	0	2019	3	2021
• # of parking stalls in existing multi-family buildings that have been retrofitted to become 100% EV Ready (all units)	0	2019	73	2021
<b>Saanich fleet</b>				
• # of Municipal Fleet vehicles electrified/renewable (% of municipal fleet)	11 (4%)	2019	25 (14%)**	2021
• # of Fire Fleet vehicles electrified/renewable (% of fire fleet)	1 (3%)	2019	1 (3%)	2021
• # of Police Fleet vehicles electrified/renewable (% of police fleet)	1(1%)	2019	4 (5%)	2021

\*A \$1 per hour user fee was introduced at Saanich owned public EV charging stations in 2021 to encourage turnover at stations so more users may access them, and to recuperate the costs of electricity and maintenance. This has resulted in an initial reduction in use as was expected. It is expected that this use will grow with further uptake of EVs in the coming years.

\*\* 100% of Municipal Fleet light duty vehicles (cars) are electric.





*“Making our buildings EV ready is important because we want to reduce our carbon footprint and also maintain the building marketability and the value of our suite, so it really was the time to move on this.”*

- Barbara, Saanich resident

*“The wave is coming... electric vehicle requirements are coming and I think stratas should do their very best to prepare for that”*

- Jim, Saanich resident

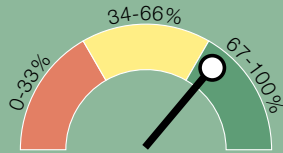
## EV Ready MURBs

In 2021, Saanich was the first local government to introduce top-up incentives to the Province’s CleanBC Go Electric Rebate Program for “EV Ready” multi-family buildings. The program provides funding and support for multi-family buildings or complexes to develop an EV Ready Plan that outlines the electrical design and costs to enable EV charging for every unit, and additional funding available to help implement the plan. In 2021, 14 buildings/complexes in Saanich completed an EV Ready Plan and, so far, three buildings have implemented their plans. Jim and Barbara’s strata was one of the first buildings in Saanich to complete an EV Ready retrofit, full project details are available at [saanich.ca/ev](http://saanich.ca/ev).





# Buildings and Infrastructure



*“We love our heat pump because it is a very efficient heating and cooling system. It provides us with year round comfort since the filtration system has cleaned the air circulating through my home of allergens such as dust and pollen. It’s also climate friendly.”*

- Joanne, Saanich resident

waves in 2021.

Regional engagement on higher steps of the BC Energy Step code, Low Carbon Energy Systems (LCES) and the introduction of a GHG performance standard for new buildings will commence in 2022. However, greater effort is needed to address the continued increase in natural gas connections and consumption in the existing building stock, ensuring that buildings are switching from fossil fuels to renewables and that the limited long-term supply of Renewable Natural Gas (RNG) is preserved for hard to electrify sectors, such as industrial uses.

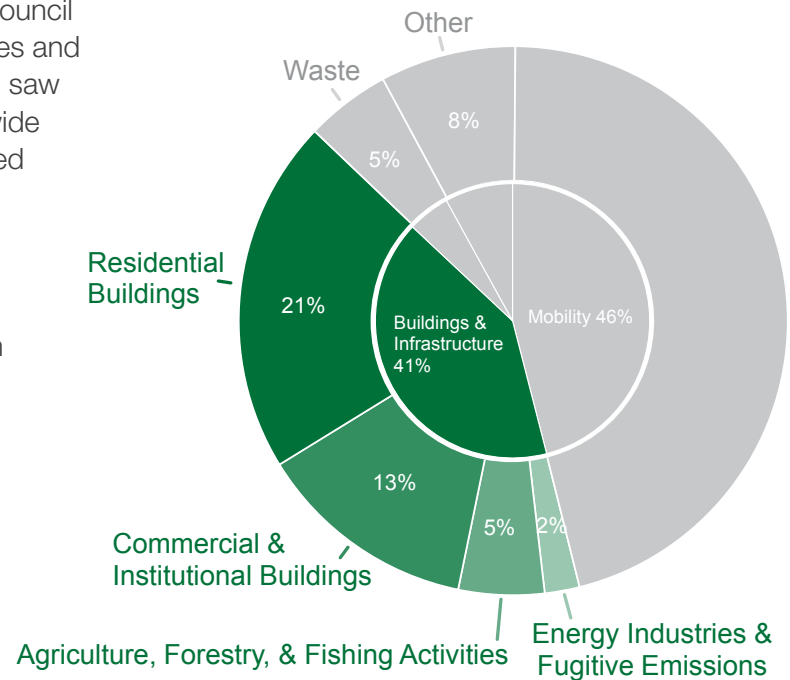
Key progress was made in 2021 with a surge in home energy retrofits, fueled by the Province’s “double the rebates” offer, increased Council spending for municipal top-up incentives and a major awareness campaign. Saanich saw some of the highest uptake province wide with a 226% increase in 2021 compared with 2020. In one year we went from 6% to 21% of our annual target for homes converting from fossil fuels to renewables, with some months as high as 40% of the target. Progress on multiple other building actions was also seen with 22 of the 28 actions (79%) identified to start by 2021 either Achieved, Ongoing or On Track and an additional four from future years Ahead of Schedule.

# Buildings & Infrastructure Summary

The latest 2020 community-wide GHG inventory indicates that there has been a 3% reduction in Saanich’s building and infrastructure GHG emissions since our 2007 baseline (compared to a 12% reduction between 2007 and 2018).

The considerable increase in 2020 was primarily due to increased fuel use to heat residential buildings, likely influenced by COVID-19 with a shift to work-from-home for a proportion of the workforce. It is difficult to determine what behavioural changes will persist as the pandemic evolves. However, this change clearly outlines the critical need to accelerate building energy upgrades to address both GHG emissions and also climate adaptation, particularly the provision of cooling following the devastating heat waves in 2021.

**Building and Infrastructure emissions in Saanich Territorial GHG Inventory, 2020**



# Progress on Buildings and Infrastructure Targets

Baseline:	In 2007, Saanich's building and infrastructure emissions were	206,509	t CO <sub>2</sub> e
Latest measurement:	As of 2020, Saanich's building and infrastructure emissions were	199,421	t CO <sub>2</sub> e

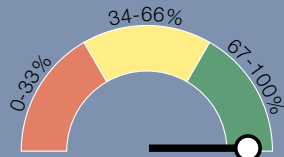
# Progress on Buildings and Infrastructure Objectives

Objective	Where we were		Where we are at		2030 Target	2050 Target
	Status	Year	Status	Year		
New buildings that achieve the higher steps of BC Energy Step Code	0	2018	<1%	2021	100% by 2025	100%
New buildings are net-zero carbon	<1%	2018	<1%	2021	100% *	100%
Residential oil heating systems replaced by heat pumps annually (cumulative % removed since 2017)	62 (3%)	2019	207 (9%)	2021	100%	100%
Residential natural gas heating systems replaced by heat pumps annually (cumulative %)	11 (0.1%)	2019	60 (<1%)	2021	40%	100%
Total natural gas connections (Residential)	14,649	2018	15,982	2020	8,789	TBD
Total natural gas consumption (Residential)	731,870 GJ	2018	847,026 GJ	2020	TBD	TBD
Total natural gas connections (Commercial)	930	2018	949	2020	558	0
Total natural gas consumption (Commercial)	825,369 GJ	2018	817,053 GJ	2020	TBD	TBD
Building space heating demands are reduced by 30%	2,873 TJ	2018	2,879 TJ	2020	2,011 TJ	TBD
Renewable Natural Gas use in buildings (as a % of all natural gas used)	0.1%	2017	0.62%	2020	-	100%
Sufficient renewable energy sources are available to support required conversions from fossil fuel systems						Metrics in development
Embodied emissions are reported and lowered						Metrics in development
Buildings and infrastructure are designed or retrofitted for changing climate conditions, support ecological functions and reduce exposure to climate hazards.						Metrics in development
Land use and development patterns minimize exposure to sea-level rise.						Metrics in development

\* 2030 target updated from 2032 to align with latest provincial direction



# Food and Materials



*The Checkout Bag Regulation Bylaw came into effect in 2021, phasing out single-use plastic bags in Saanich. “Reducing the negative impacts that discarded plastic bags have on the environment and our municipal facilities and services is a small but significant step toward becoming more sustainable as a district and community,” said Mayor Fred Haynes.*



## Food and Materials Summary

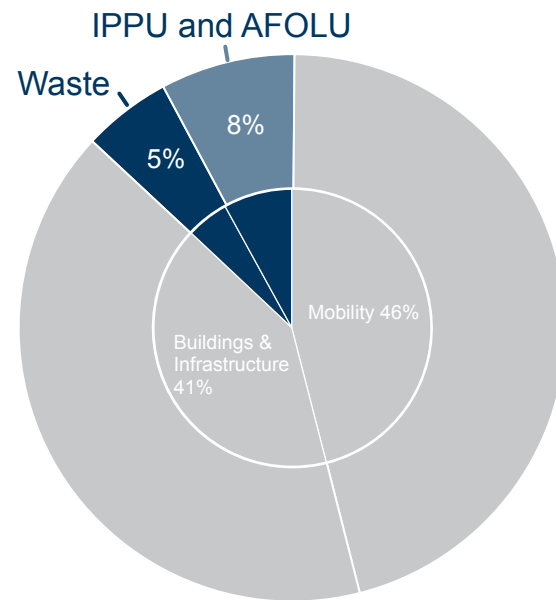
The community-wide GHG inventory (GPC Basic+ methodology) includes emissions from solid waste, compost and waste water; Industrial Processes and Product Use (IPPU); and other land use emissions from livestock and aggregate sources.

There is limited local data available on Product Use emissions, so national data is used, which shows a considerable increase since our baseline. In comparison, the latest inventory shows a 36% reduction in Saanich’s waste emissions since our 2007 baseline, primarily due to the Greener Garbage program and landfill methane capture. While waste is a relatively small portion of our territorial GHG emissions inventory and this progress is positive, 100% organics waste diversion is still required to meet our climate targets and this remains the largest component of the waste sent to landfill. An extensive Love Food Hate Waste awareness campaign was initiated in 2021 and this will need to continue, alongside accelerated implementation of the CRD’s Solid Waste Management Plan and development of a Zero Waste Strategy in order to see the emissions reductions required to meet our targets.

Food and consumption of materials play a much greater role in our climate impact when considering a Consumption Based Emissions Inventory (CBEI). An updated CBEI, based on local data, is required in order to determine progress on these emissions. Local food production also plays a key role in climate resiliency and is likewise heavily impacted by climate changes. The impacts of the 2021 heat waves and flooding on local agriculture are still being assessed and realized.

Many of the actions in this focus area are identified for future years. However, the appetite to address or accelerate these is strong, demonstrated by the community support for the banning of single use plastic items and the commitment to local food production, among other actions. Of the five Food & Materials actions due to be initiated by 2021, 100% are now Ongoing, On Track or Achieved.

### Food and Materials emissions in Saanich Territorial GHG Inventory, 2020



# Progress on Food and Materials Targets



The South Island FarmHub (SIFH) was created in response to COVID-19 to help farmers and communities as local and global food and economic systems were rocked by the crisis. As farmers lost valuable buyers with restaurants closing or changing, communities were simultaneously struggling with access to local and healthy foods. The SIFH, supported by the Rapid Release Fund, was a win-win response. By developing infrastructure for aggregation and distribution of local food, local farmers were able to continue to get their products to new markets including Schools, Charities and home deliveries. In 2021, the SIFH sold \$280,000 in local products from 19 farmers and 14 food processors.

## GHG Emissions Target (Waste)

Baseline:	In 2007, Saanich's emissions from waste were	40,151	t CO <sub>2</sub> e
Latest measurement:	As of 2020, Saanich's emissions from waste were	25,496	t CO <sub>2</sub> e

## GHG Emissions Target (IPPU)

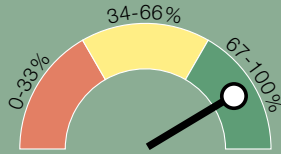
Baseline:	In 2007, Saanich's emissions from Industrial Processes and Product Use (IPPU) were	24,438	t CO <sub>2</sub> e
Latest measurement:	As of 2020, Saanich's emissions from Industrial Processes and Product Use (IPPU) were	38,730	t CO <sub>2</sub> e

# Progress on Food and Materials Objectives

Objective	Where we were		Where we are at		2030 Target	2050 Target
	Status	Year	Status	Year		
Saanich's consumption-based emissions related to food are reduced	19%	2015	TBD	TBD	TBD	TBD
0% compostable organic waste and paper is landfilled (1 <sup>organics</sup> , 2 <sup>paper</sup> )	21% <sup>1</sup> 15% <sup>2</sup>	2016	New data expected	2022	0%	0%
Emissions from consumer choice and industry transition (e.g. refrigerants, aerosols, foams, equipment, livestock, fertilizer, etc.) are reduced i.e. Industrial Processes and Product Use (IPPU) and Agriculture, Forestry and Other Land Use (AFOLU)	29,627 t CO <sub>2</sub> e	2017	11,397 t CO <sub>2</sub> e	2018	TBD	TBD
Agricultural land is protected: Hectares of land in Saanich within the ALR	1,843 ha	2018	1,843 ha	2020	TBD	TBD
A greater proportion of food is grown and consumed locally: Hectares of land and % of total land that is actively farmed in Saanich	1,713 ha 17%	2006	1,478 ha 14%	2020	TBD	TBD
The majority of local farmers have the ability to adapt their production practices to a changing climate	Metrics to be developed					



## Ecosystems



## Ecosystems Summary

Ecosystems and natural areas can be both sinks and sources of GHG emissions and contribute towards our territorial emissions inventory through the Agriculture, Forestry and Other Land Use (AFOLU) category, dependent upon land use changes over time and associated carbon sequestration. Some actions such as tree planting and ecosystem restoration may increase carbon sequestration within Saanich, while events such as wildfires and tree removal could release emissions.

There has been an increase in emissions from AFOLU since our 2007 baseline given land use changes over time. While the carbon sequestration value of ecosystems is relatively limited in a territorial emissions inventory, their value goes much further than this. Ecosystems and natural areas are often referred to as natural assets because they have the ability to deliver a suite of critical values and services, including stormwater management, erosion control, water quality improvement, air filtration, cooling, pollination and habitat. Natural areas also provide rich co-benefits for the community, providing places for recreation and are important for improving physical and mental health and well-being. As we prepare for a changing climate, natural areas and ecosystems that are functioning properly and are in good condition will have the highest potential to continue to provide values and services under future climate scenarios.

The loss and degradation of our natural areas and biodiversity therefore comes at a considerable cost to society, the environment and the economy. Built or engineered infrastructure can only substitute for one, or a few at most, of the multitude of values provided by an ecosystem. For example, an underground creek located in a pipe still transports water downstream, but the system loses other functions such as water quality improvement, carbon and nutrient cycling, groundwater recharge, pollination, carbon sequestration, creek and riparian habitat for invertebrates, fish, birds and wildlife, and other recreational, health, spiritual or aesthetic benefits to society. Natural assets can support and buffer natural processes such as drainage and runoff, and reduce the need to replace infrastructure more frequently in response to climate change effects. Natural assets can also act as a buffer against the severity and impacts from storms, heat, drought and other climatic and environmental events, reducing potential repair and damage costs.

However, the value of ecosystem services is often overlooked without clear tools enabling us to quantify those values in decision-making



Photo credit: Rick Hatch, Parks Supervisor, Natural Areas

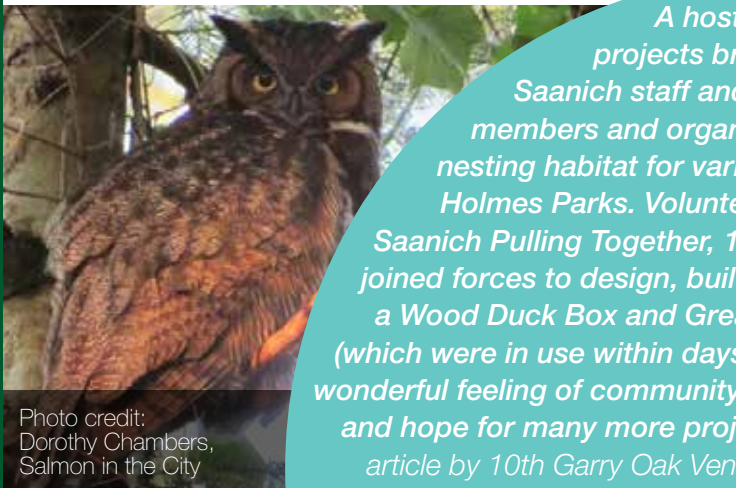
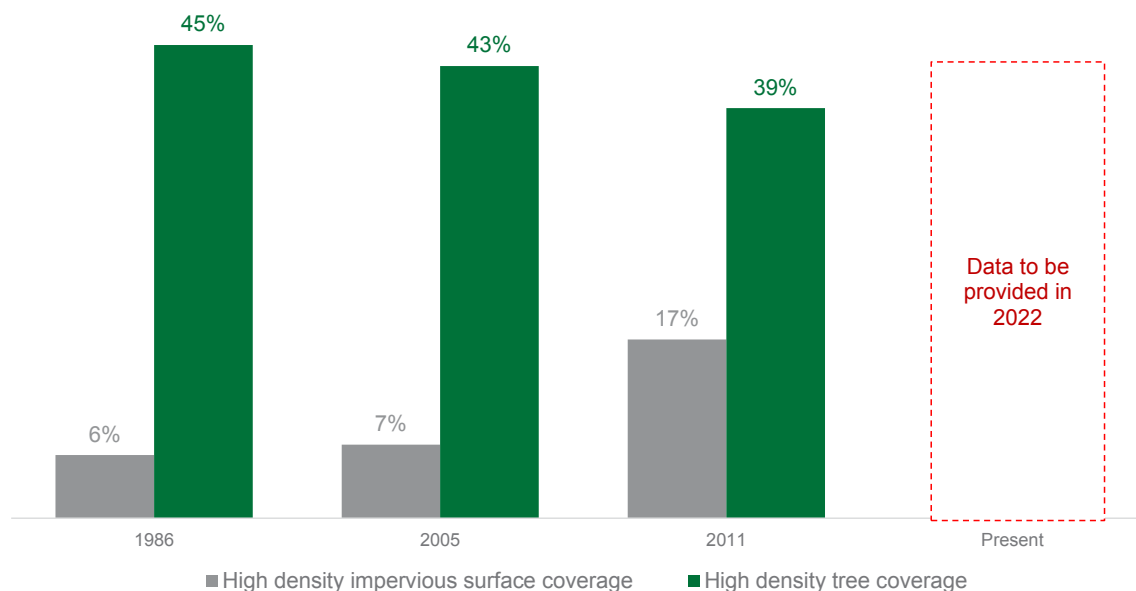


Photo credit: Dorothy Chambers, Salmon in the City

*A host of nesting projects brought together Saanich staff and multiple community members and organizations in 2021 to create nesting habitat for various bird species in Cuthbert Holmes Parks. Volunteers from Salmon in the City, Saanich Pulling Together, 10th Garry Oak Scouts and others joined forces to design, build and install swallow/wren boxes, a Wood Duck Box and Great Horned Owl nesting platforms (which were in use within days of installation!). The projects left a wonderful feeling of community partnership and relationship building and hope for many more projects to come. (Credit: edited from an article by 10th Garry Oak Venturer Scout Jevin and Scouter Rick).*

## Select Land Use Changes in Saanich, 1986-present



processes. Whereas the methodology for calculating GHG emissions from transportation, buildings and waste is well established, embedded in much of our work and supported by considerable grants, the methodologies for quantifying the values and ecosystem services of our natural areas and biodiversity are more complex, less standardized and dependent upon extensive and regularly updated data with little grant funding support. Some tools to quantify ecosystem functions and services have been developed and provide standardized methods for assessing functions and services, for instance, the use of I-Tree by parks. However, this work will be reliant upon resources to access accurate and frequently updated data, allowing us to assess values and ecosystem services; develop metrics; and monitor changes over time. Natural assets and ecosystem services will be explored in the development of the asset management plan, climate adaptation projects, in the next phase of Resilient Saanich, the development of the Biodiversity Conservation Strategy, the updated Urban Forest Strategy and the Integrated Stormwater Management Plan.

While capital budget was approved in 2021 to support work on the Integrated Stormwater Management Plan, the identified climate plan funding necessary to progress this work and that was approved in principle in 2020, was not allocated in 2021. A portion of this funding and the associated staff resource will be included in the 2022 budget requests. In addition, Information Technology support is also required to ensure approval of programs and software necessary for ecosystem climate actions to be completed. This has been restricted to date due to resources.

Despite this, 2021 did see incremental progress on the Integrated Stormwater Management Plan and the completion of several key projects that protect, enhance and expand our natural areas, supported by multiple organizations and many volunteers. Efforts continued on education and awareness with the Natural Intelligence program being recognized as the Campaign of the Year at the 2021 International Digital Communications Awards in Berlin.

Of the 11 Ecosystem actions due to start by 2021, eight (73%) are Ongoing, Achieved or On track but three (27%) are Behind Schedule. This includes First Priority Action 6 (Climate Plan Strategy E2): Improve climate resilience of Saanich's infrastructure, such as our stormwater system, flood hazard planning and engineering design specifications. Additional resource requests in 2022 should assist in moving these back on track. In addition, appropriate early metrics are expected to be developed as part of Phase 3 of the Resilient Saanich: Environmental Policy Framework in 2022.

# Progress on Ecosystems Targets

Baseline:	In 2007, Saanich's emissions from Agriculture, Forestry and Other Land Use (AFOLU) were	(5,946)	t CO <sub>2</sub> e
Latest measurement:	As of 2018*, Saanich's emissions from Agriculture, Forestry and Other Land Use (AFOLU) were	(27,332)	t CO <sub>2</sub> e

\*AFOLU could not be updated for the 2020 inventory due to data constraints

# Progress on Ecosystems Objectives

Objective	Where we were		Where we are at		2030 Target	2050 Target
	Status	Year	Status	Year		
Ecosystem health and biodiversity are protected						Metrics to be developed
The removal of carbon from the atmosphere by trees, plants, and ecosystems in Saanich is increased						Metrics to be developed
Ecosystem services are maintained or enhanced						Metrics to be developed

*Phase one of the Colquitz River riparian restoration project, in Cuthbert Holmes Park, focuses on a stretch of the Colquitz River that had an unhealthy monoculture with little plant and habitat diversity, infested with invasive English Hawthorn. The goal of the three-year project is to restore a thirty-metre riparian buffer zone along both sides of the creek. Three habitat water features were built in 2021 in addition to planting and creek work. This was in an effort to re-create floodplain riparian zones and attract insects. Some of the tree species added included Trembling Aspen, endangered Oregon Ash, Big-leaf Maple, Douglas-fir and Western Redcedars. Since the completion of the Phase 1 creek work and planting, Great Blue Herons, Cooper's Hawks, Belted Kingfishers, California Quails, native frogs, spawning Salmon, American Kestrels and sandpipers have already begun utilizing this new and diverse habitat.*

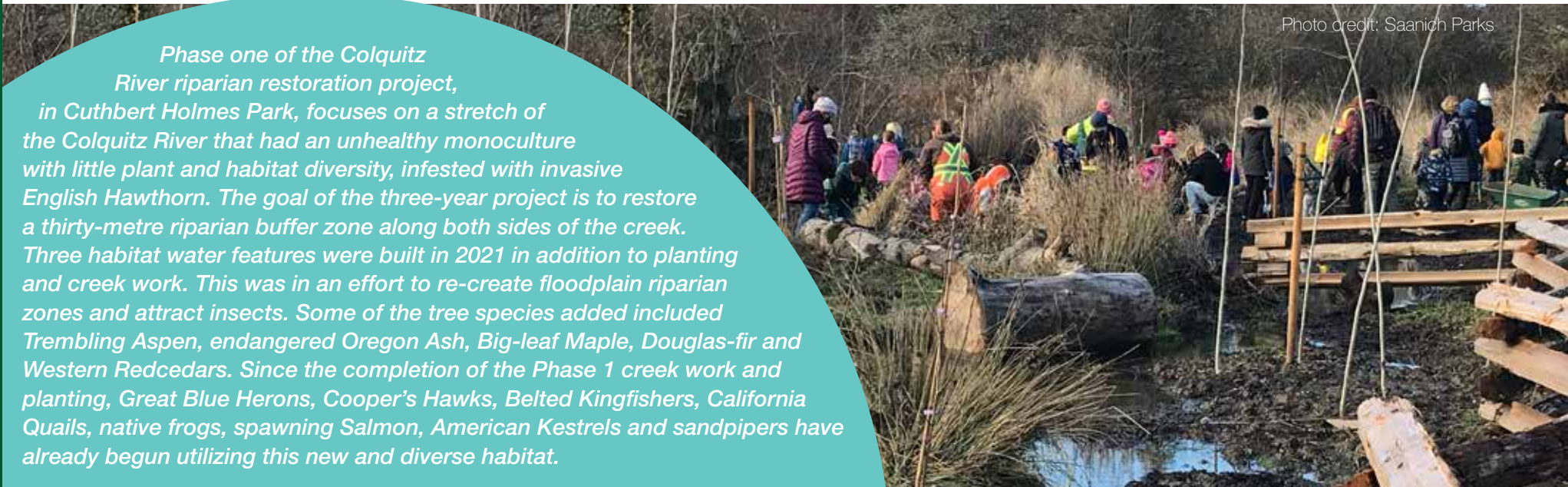


Photo credit: Saanich Parks





*One person can make a big impact when it comes to protecting species and ecosystems at risk of extinction. Barry took the initiative to encourage Saanich to place an interpretive sign explaining why he put low-impact fencing on the coastal bluff beside his home and beach access. The sign explains the significance of the rare plants and ecosystem and the fence that protects them from trampling. This effort will increase the resilience of the already harsh shoreline environment.*

*Over the last year, Parks staff and Pulling Together volunteers have supported youth from local schools, with at least one stewardship session per week in McMinn, Haro Woods, Mount Tolmie, Feltham, Cedar Hill and Marigold Parks. Students work together to survey, carefully remove invasive species and replant some restoration sites with native plants and trees. The goal is to enhance biodiversity, meet the needs of our school community, and foster a sense of belonging that promotes greater care of the natural environment that we depend on.*

*Some reflections from Spectrum Secondary students on their experience:  
"Very satisfying and rewarding...I was thrilled to learn that there is something that I can do to help make a change."*

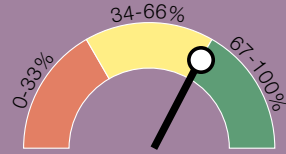
*"I also loved this day. Because it gave me hope for the future. That there are people looking out for the environment. It was also great exercise. Very Relaxing!"*



Photo credit: Saanich Parks



## Community Well-being



## Community Well-being Summary

This section focuses on the ability of people and organizations to be resilient to climate change and empowered to take climate action. The need for this was greatly apparent in 2021 with unprecedented heat waves, wildfires and flooding across BC, resulting in hundreds of deaths, thousands of evacuations, destruction of infrastructure and property, major disruption to supply chains and millions of dollars of damage. While Saanich was spared the extent of damage suffered in some parts of BC, heat wave impacts, road washouts and flooding occurred in our region.

There are several actions to address these risks, many of which are due to commence in 2022 and that will be supported by the new Senior Climate Adaptation Planner and Asset Management Program Manager. Much of this work will rely heavily on data collection and analysis related to climate impacts and ecosystem services, which may require additional resource requests. Several actions progressed to empower the public and support climate preparedness, including the online climate action series, emergency management workshops and awareness campaigns. Major facility upgrades that include cooling and improved air filtration are also in design.

Climate change impacts are not felt equally amongst our community and we must work towards the just distribution of the benefits of climate actions and alleviate unequal burdens created or worsened by climate change. Multiple regional partners support us in embedding equity in our climate actions. Notably, in 2021 we worked closely with the Community Social Planning Council on their Transportation Access Climate and Economic Security (TACES) project and the design of the Saanich Community E-Bike Incentive Pilot Program. A corporate Diversity, Equity and Inclusion Strategic Plan was also initiated and the signing of the **ÁTOL,NEUEL** Memorandum of Understanding with the **WSÁNEĆ** Leadership Council provides a foundation to work with neighbouring First Nations on climate action.

Nine Community Wellbeing actions were identified to commence by 2021, with six of these (67%) Ongoing, On track or Achieved. Metrics are expected to be developed to monitor and report on outcomes in the coming years.

### An Online Climate Action Workshop Series

was launched in 2021. The workshop series was designed around the Residents Climate Action Guidebook and Carbon Calculator and is intended to help residents learn about climate change and provide them with resources and support to make their own personal climate action plan.

*“In these unprecedented and challenging times, I believe this little series provided necessary hope and gave participants actions which are doable, thus strengthening the group which took part. I sincerely hope you will offer this series again I’ve gotten a lot out of the series as a whole.”* Workshop participant



# Progress on Community Well-being Targets

There are no territorial GHG emissions targets associated with Community Well-being.

## Progress on Community Well-being Objectives

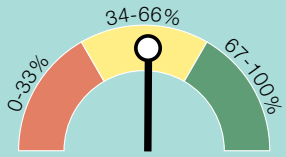
Objective	Where we were		Where we are at		2030 Target	2050 Target
	Status	Year	Status	Year		
Emergency and community health services are adequate to respond to identified climate risks						Metrics to be developed
Climate Action benefits people in Saanich, helping to improve air quality and community health while supporting clean energy jobs and a diverse economy						Metrics to be developed



*2021 saw one of the hottest summers on record in addition to devastating wildfires and flooding. Saanich volunteers and staff supported our own community and were also deployed to assist in the provincial response to these emergencies. Eight Emergency Support Services (ESS) Volunteers applied their training to provide evacuee support remotely. The Saanich Emergency Program Officer and Emergency Program Specialist were also deployed to support both wildfire and flood responses; Saanich fire fighters were deployed to assist the BC Wildfire Service, providing critical support while gaining invaluable wildland firefighting and incident management experience.*



# Leadership in District Operations



In 2021, Saanich began to pilot CarbonCure products for our corporate concrete use. This technology injects captured carbon dioxide (CO<sub>2</sub>) into concrete during mixing where it mineralizes, improving the concrete's compressive strength, enabling mix optimization and significantly reducing its carbon footprint. This will result in approximately 10 tonnes of carbon saved annually, which is equivalent to taking 3 cars off the road or switching 5 homes from natural gas to renewable electricity.

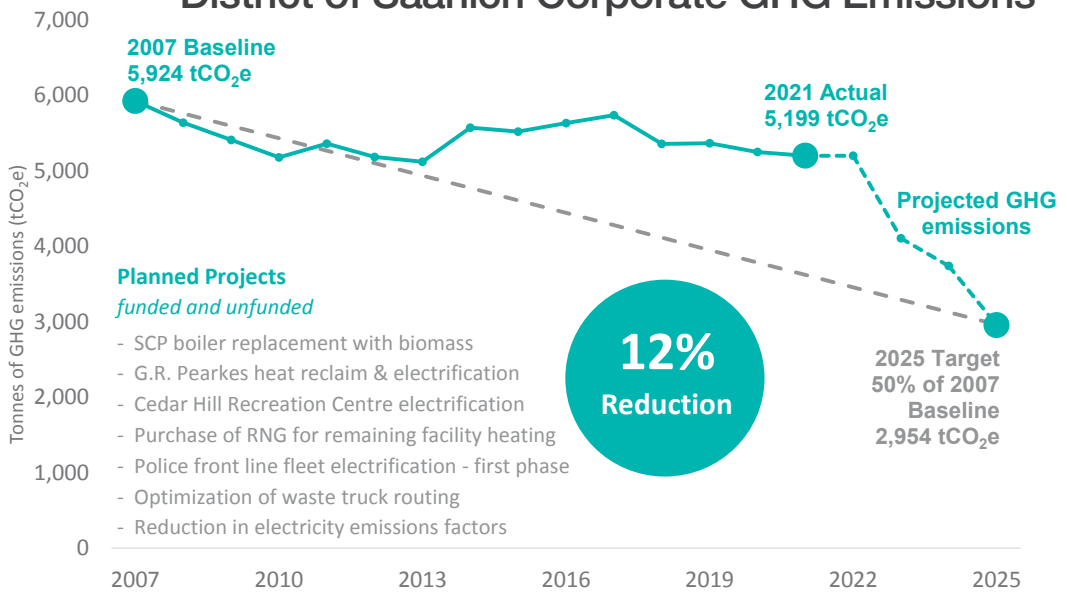
# Leadership in District Operations Summary

The latest 2021 corporate greenhouse gas (GHG) emissions inventory shows a 12% reduction in Saanich's GHG emissions since our 2007 baseline. Many District of Saanich facilities re-opened after closures in 2020 due to COVID, which meant that 2021 saw an increase in building energy use from greater operation hours and increased ventilation needs, resulting in higher heating demand. While Saanich vehicle fuel use remained steady, there was a 12% decrease in fleet emissions in 2021 due to the purchase of renewable diesel to replace a portion of our fossil fuel diesel use. The change to electricity emissions factors also had an impact on our corporate inventory, which has been updated for each year back to our baseline. While this makes us more accountable for the energy we consume, it has resulted in higher emissions in some years compared with previous reports.

Eight of the 15 Leadership in District Operations actions identified to start by 2021 are On track, Ongoing or Achieved. Several that are Behind Schedule are due to get back on track during 2022 and 2023 with support from new staff including the climate risk register, the corporate fleet strategy and the climate friendly commuter program.

While a comprehensive fleet strategy is still yet to be developed, multiple actions have progressed on this front with a grant for 22 new Level 2 EV chargers secured from NRCan and the annual purchase of Renewable Diesel (R100) for 20% of our corporate diesel use. Feasibility, design work and grant applications continue to support the future electrification of our front line police vehicles and medium and heavy duty fleet.

## District of Saanich Corporate GHG Emissions



Home energy upgrades at three Saanich residential rental properties, including the replacement of oil tanks with heat pumps, were completed with support from CleanBC. The implementation of biomass boilers at Saanich Commonwealth Place and lighting upgrades at the Public Safety Building are ongoing and the feasibility, design work and grant applications to support several other major facility upgrades is underway. Decisions related to two major grant applications for extensive upgrades at Cedar Hill Recreation Centre and G.R. Pearkes are expected in early 2022. If the grants are successful, these building upgrades, alongside the purchase of RNG for the remaining natural gas use and fleet fuel efficiency measures (IT dependent), are expected to enable us to meet our 2025 corporate GHG target by a slim margin.

There is considerable commitment to GHG emission reduction at the District of Saanich, supported by years of experience and benefiting from quantifiable methodologies and larger grant opportunities. However, a greater emphasis is needed on the value of the natural environment, the biodiversity and ecosystem services it provides and the implications of any loss or degradation. This includes cumulative impacts across the community, particularly from land conversion resulting in habitat and ecosystem loss by development on natural areas. Zero carbon buildings, zero emission fleet projects and corporate developments must not be designed to the detriment of other environmental and social factors and this may require alternative approaches and, sometimes, additional resources to achieve. Implementing a more holistic approach to development should be a key focus for corporate climate actions moving forwards.

*Two e-bikes were added to the Saanich pool fleet for work trips, and 26 staff are trained to use them safely. The e-bikes free up the fleet vehicles for longer trips or trips that require hauling heavy or bulky material, and they allow staff to easily conduct site visits where parking is challenging. Launched in summer 2021, Saanich's new e-bikes have already replaced nearly 50 car trips and over 500km of driving.*



## Progress on Leadership in District Operations Targets

Baseline:	In 2007, Saanich's corporate emissions were	5,924*	t CO <sub>2</sub> e
Latest measurement:	As of 2021, Saanich's corporate emissions were	5,199	t CO <sub>2</sub> e

\*Updated for new electricity emissions factors

## Progress on Leadership in District Operations Targets

Objective	Where we were		Where we are at		2030 Target	2050 Target
	Status	Year	Status	Year		
The District of Saanich is a recognized leader in climate action: CDP report score	A	2020	A	2021	A	A



## Conclusions and Next Steps

This is our second year of reporting on Climate Plan implementation and Saanich continues to see recognition for our climate action work. In 2021 Saanich won the Canadian Institute of Planners Award for Planning Excellence in Climate Change Planning; we were one of 94 global cities to score the top 'A' grade from the CDP platform for climate reporting; and we were shortlisted for the UBCM Community Excellence Awards for the E-Mobility Strategy, among many other awards and recognitions received this year.

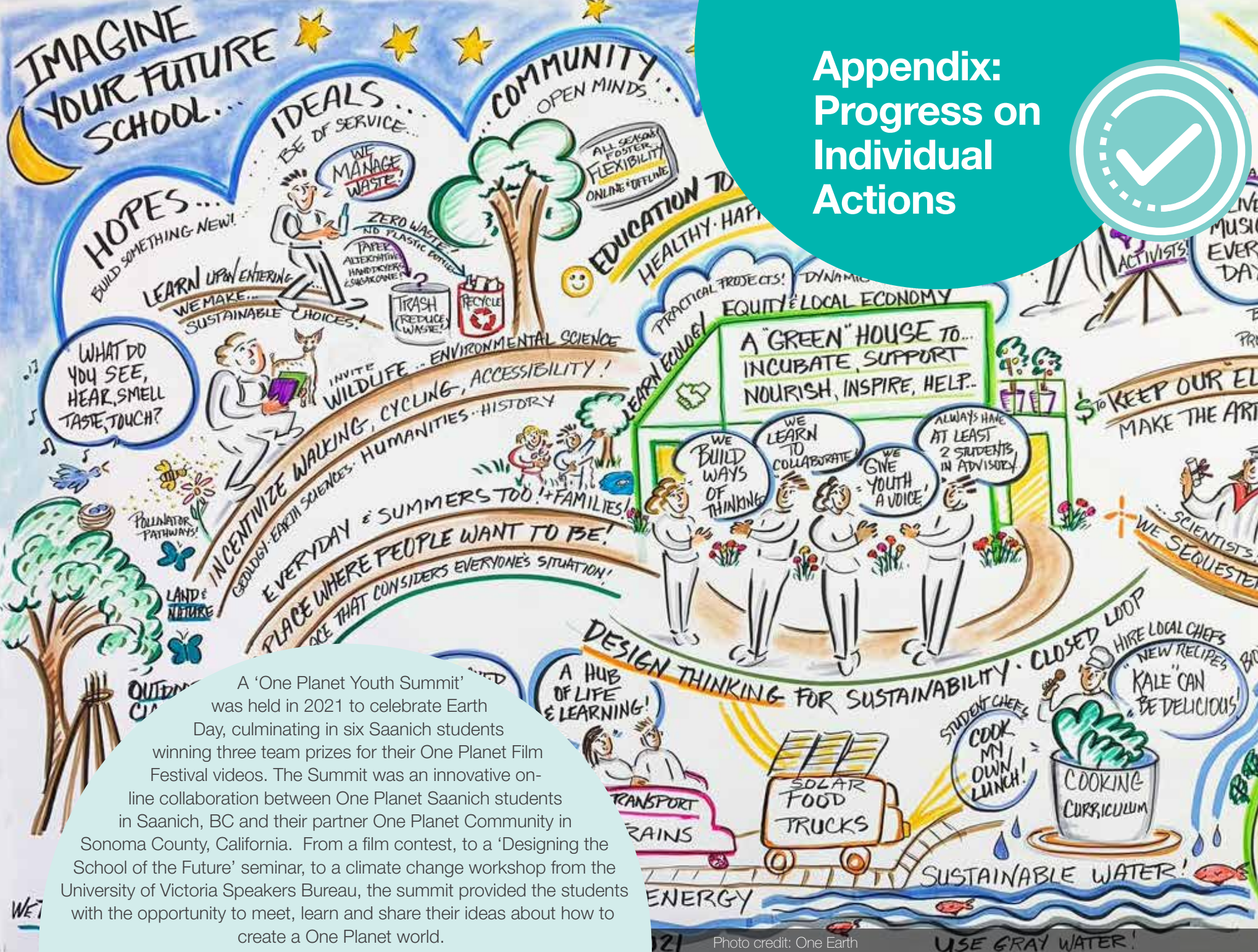
However, 2021 also highlighted the devastating impacts of climate change, with BC subject to several unprecedented heat waves, wildfires and floods. These catastrophic events resulted in deaths, evacuations, destruction of infrastructure and property, and major disruptions to supply chains. These extreme weather events also underscore the importance of resiliency and the need for accelerated action in our Ecosystems and Community Well-Being focus areas. With new staff focussed on climate adaptation and asset management, alongside the work of Resilient Saanich, the Biodiversity Conservation Strategy, the updated Urban Forest Strategy and the Integrated Stormwater Management Plan, climate adaptation and building resilience in our community will be a key focus in 2022.

Our first Climate Plan Report Card for 2020 showed many actions (42%) behind schedule, mainly due to budget constraints and other impacts of COVID-19. However, great progress has been made in 2021, supported by considerable budget approvals by Council in spite of the continuing pandemic and many of these actions are now back on track, with only 28% remaining Behind Schedule or On Hold. We have also seen reductions in our community-wide GHG emissions inventory, which shows continued progress due to our climate actions, but also the influence of COVID-19 on our behaviours and resulting emissions, particularly related to transportation.

With the pandemic continuing to evolve, it's difficult to determine at this stage whether behavioral changes will be altered long-term or whether they will return to pre-pandemic levels. However, we are actively supporting the continuation of those behaviours that are positively impacting our emissions inventory.

There are still areas of the Climate Plan that need metrics and indicators to be developed and are reliant on considerable data needs, particularly related to climate adaptation and resilience. Resource requests to support this work will be submitted in the 2022 budget and are expected to assist with increasing momentum towards reaching our climate goals over the next two years.





# Appendix: Progress on Individual Actions



A 'One Planet Youth Summit' was held in 2021 to celebrate Earth Day, culminating in six Saanich students winning three team prizes for their One Planet Film Festival videos. The Summit was an innovative online collaboration between One Planet Saanich students in Saanich, BC and their partner One Planet Community in Sonoma County, California. From a film contest, to a 'Designing the School of the Future' seminar, to a climate change workshop from the University of Victoria Speakers Bureau, the summit provided the students with the opportunity to meet, learn and share their ideas about how to create a One Planet world.

Photo credit: One Earth

Appendix: Progress on Individual Actions

# Progress on Mobility Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy M1: Invest in active transportation</b>					
M1.1	Accelerate the implementation of the Active Transportation Plan	●	2020	On track	Funding approved in 2021 Budget. Additional staff hired and work commenced on projects that make up the acceleration.
M1.2	Pilot an electric bicycle incentive program	●	2020	On track	Program launched successfully in October 2021. Initial rebates allocated and additional incentives expected in 2022, supported by grant funding. A 12 month study and final report expected 2023.
M1.3	Expand the Active School Travel planning program	●	2020	Behind schedule	Senior Transportation Planner hired in fall 2021 and will lead the expansion of this program to bring this action back on track by 2022.
M1.4	Improve bike parking at existing buildings	●	2020	Behind schedule	Resources now funded for staff that will lead review / amendments to the off-street parking section of the Zoning Bylaw - expected to commence in 2022.
M1.5	Explore integration between transit and other shared mobility providers	●	2022-2024	Future action	Future action.
M1.6	Support bike shares and other shared mobility services	●	2020	On hold	Staff continue to monitor results of Phase 1 BC Motor Vehicle Act pilot on e-mobility devices. Introduction of bike share and other shared mobility services likely impacted by COVID-19. Discussions with new car-share organization commenced.
M1.7	Support lower speed limits on residential streets	●	Underway	Behind schedule	Provincial application for Phase 2 BC Motor Vehicle Act pilot on reduced statutory speed limit prepared and endorsed by Council - waiting on Province to open next pilot project phase.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



# Progress on Mobility Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy M2: Prioritize transit-supportive policies and practices</b>						
M2.1	Work with partners (VRTC, BC Transit) to accelerate service level improvement and increase transit mode share	●		Underway	Ongoing	Regional Transportation Priorities report and working group established and transit a top priority. BC Transit Rapid Bus Plan approved and implementation underway including a signed infrastructure agreement for McKenzie corridor study. Free transit fares expanded to those 12 years and under. BC Transit expansion of service hours on hold due to COVID-19. Staff are in discussion with BC Transit to confirm/test the Transit Future Network corridors.
M2.2	Support increased residential density along public transit routes	●		2021-2022	Ongoing	Uptown Douglas Corridor Plan complete and awaiting Council approval. Council provided direction for a centres, corridors and villages (CCV) planning approach to focus on areas where significant growth is anticipated and to assist with housing availability. BC Transit Rapid Bus Plan approved and implementation underway including a signed infrastructure agreement for McKenzie corridor study.
M2.3	Make transit travel time-competitive	●		2021-2022	Ongoing	BC Transit Rapid Bus Plan approved and implementation underway including a signed infrastructure agreement for McKenzie corridor study. Includes a focus on dedicated transit infrastructure and technology. While Transit Priority Signals installed at key Saanich locations - BC Transit investment still required for these to be activated.
M2.4	Investigate and consider updating off-street parking requirements to support a mode shift towards active transportation	●		2021-2022	Behind schedule	Resources now funded for staff that will lead review / amendments to the off-street parking section of the Zoning Bylaw. This is expected to commence in 2022.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Mobility Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
M2.5	Advocate for increased funding for transit service expansion and improvement	●		2020-2022	Ongoing	Regional Transportation Priorities report and working group established and transit a top priority. BC Transit Rapid Bus Plan approved and implementation underway including a signed infrastructure agreement for the McKenzie corridor study. However, BC Transit service hours expansion on hold due to COVID-19.
M2.6	Advocate for climate-informed ride hailing regulations	●		2020-2022	Ongoing	Input to Province ongoing. Limited control at municipal level.
M2.7	Work with BC Transit to incorporate latest best practices and new technology needs	●		2022-2024	Future action	Future action.
M2.8	Develop policies and resources for parking management and enforcement	●		2024-2029	Future action	Future action.

Implementation Priority:











First Priority

High Priority

Medium Priority

Low Priority

# Progress on Mobility Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy M3: Accelerate electric and renewable mobility</b>					
M3.1 	Create a community-wide Electric Mobility Strategy		Underway	Achieved	Electric Mobility Strategy adopted by Council November 2020. See E-Mobility Strategy Actions for further info.
M3.2	Require EV-ready infrastructure for new development		Underway	Achieved	EV-Ready Infrastructure Requirements bylaws effective September 1, 2020. Monitoring underway.
M3.3	Support EV infrastructure retrofits in existing buildings		Underway	Ongoing	New Saanich top-up incentive to Provincial EV-Ready Multi-Unit Residential Building (MURB) program launched in fall 2021 supported by extensive awareness campaign. See E-Mobility Strategy Actions for EVs for further info.
M3.4	Expand public EV charging network		Underway	On track	Installation of additional 20 public EV charging stations at Saanich facilities completed fall 2021. Regional EV Infrastructure Roadmap complete and will inform next steps. Exploration of curbside charging underway.
M3.5	Optimize the use of public EV charging stations		Underway	Achieved	EV charger Management Plan, associated Bylaws and User Fee implemented Jan 1, 2021. Monitoring underway.
M3.6	Support “Right to Charge” legislation		2020	Ongoing	Province committed to legislation in 2020 ministerial mandate letters - timelines unstated. Staff continue to advocate for the need for Right to Charge Legislation.
M3.7	Work with organizations in Saanich to reduce emissions from fleets		2022-2024	Future action	BC Transit RFP for the first electric buses issued in 2021. SD61 installing EV chargers at several high schools. Further work to commence with other businesses and organizations in 2022.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on E-Mobility Strategy Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<i>Electric Bikes</i>				
EB.1	Accelerate the implementation of the Active Transportation Plan	●	2020-2025 On track	Funding approved in 2021 Budget. Additional staff hired and work commenced on projects that make up the acceleration.
EB.2	Plan compact, complete communities and focus density in nodes and corridors	●	2020-2025 Behind schedule	Uptown Douglas Corridor Plan complete and awaiting Council approval. Council provided direction to move away from Local Area Plan updates to a centres, corridors and villages (CCV) planning approach to focus on areas where significant growth is anticipated and to assist with housing availability. As this is initiated, this action is expected to move back on track.
EB.3	Identify and plan for infrastructure to ensure the safety and security of e-bike riders and others	●	2020-2025 Behind schedule	CRD has completed a widening and lighting study on priority sections (those most congested) of the Galloping Goose and Lochside Regional Trails. Funding for detailed design and engineering is being sought.
EB.4	Advocate to the provincial and federal governments for an e-bike incentive program not linked to Scrap-It	●	2020-2022 On track	Ongoing communication with provincial staff including their interest and input to the Saanich E-Bike Incentive Pilot Program launched in 2021.
EB.5	Provide 'top-up' incentives to augment provincial/ federal e-bike incentive programs	●	2020-2022 On hold	Requires a provincial e-bike incentive program. There is ongoing communication with provincial staff regarding the value of an e-bike incentive program and results of the Saanich E-Bike Incentive Pilot will be shared in 2023.
EB.6	Pilot an e-bike incentive/trial program	●	2020-2022 On track	Program launched successfully in October 2021. All initial rebates allocated and additional incentives expected in 2022, supported through grant funding. A 12 month study and final report expected to be complete in 2023.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on E-Mobility Strategy Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
EB.7	Increase awareness of e-bikes through a comprehensive communications campaign	●	2020-2023 On track	Supported CRD application for NRCan grant to develop and run comprehensive communications and outreach campaign on both e-bikes and EVs. Considerable marketing achieved and awareness raised with the launch of the Saanich Community E-Bike Incentive Pilot Program.
EB.8	Support lower speed limits on residential streets	●	2020-2023 On hold	Application to the Province for a Phase 2 BC Motor Vehicle Act pilot project on reduced statutory speed limit has been prepared and endorsed by Council. This action is 'On hold' while waiting for the Province to open the next pilot project phase. An update report is expected to Council in Q2, 2022.
EB.9	Review and update the Zoning Bylaw to consider amendments that support e-bikes	●	2021-2023 Future action	Resources now funded for staffing that will lead review and amendments to the off-street parking section of the Zoning Bylaw - expected to commence in 2022.
EB.10	Advocate to BC Transit and the CRD to update their infrastructure design guidelines to support e-bikes	●	2021-2023 Future action	Future action.
EB.11	Develop policies and infrastructure to support other kinds of e-mobility in collaboration with the Province and regional partners	●	2021-2023 Future action	Awaiting results of the Motor Vehicle Act Pilot Projects related to e-mobility devices. This should be used to inform recommendations to support other forms of e-mobility.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on E-Mobility Strategy Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<i>Electric Vehicles</i>				
EV.1	Advocate to provincial and federal governments to maintain EV incentive programs	●	2020-2025 Ongoing	Ongoing messaging and data provided to the Province on importance of EV incentives and feedback on existing programs. 2021 program improvements include new EV Ready MURB incentives to support condos and stratas in planning and retrofitting for 100% of units to have access to EV ready infrastructure.
EV.2	Increase awareness of EVs through a comprehensive communications campaign	●	2020-2023 Ongoing	Completed 6 week social media campaign leveraging short Emotive videos in collaboration with the CRD and City of Victoria. Supported CRD application for NRCan grant to develop and run comprehensive communications and outreach campaign on both e-bikes and EVs.
EV.3	Explore E-mobility requirements and incentives for business licenses and fees	●	2021-2022 Behind schedule	Expected to commence in 2022.
EV.4	Encourage and support regional organizations to convert their fleets to Zero Emission Vehicles (ZEVs)	●	2020-2025 On track	BC Transit issued an RFP for the first round of electric buses in 2021. SD61 are installing EV chargers at several high schools. Further work to commence with other businesses and organizations in 2022.
EV.5	Support car sharing organizations to electrify their fleet	●	2021-2023 On track	Discussions with Modo on electrification targets and plan, and how best to support. Shared Modo guidelines for new development (which includes charging requirements) with planning team to include in discussions with developers. More formal policy will be included in pending off-street parking bylaw (zoning) updates.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on E-Mobility Strategy Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
EV.6	Advocate that higher levels of government work to remove barriers to EV adoption	●		2021-2024	Ongoing	Continue to communicate with higher levels of government about these key barriers, and participate in opportunities for input. Federal government directed Measurement Canada to enable certification of EV stations in 2021 budget. Staff have been providing ongoing feedback to BC Hydro's Residential Rate redesign process to support electrification efforts.
EV.7	Explore the potential for EVs to act as backup power supply	●		2021-2025	Future action	Future action.
<b>Home and Workplace Charging</b>						
H+W.1	Monitor Saanich EV Infrastructure Requirements for New Developments and share knowledge regionally	●		2020-2025	Ongoing	Staff have monitored implementation of the new EV infrastructure requirements and no major issues have been raised. However, data collection and analysis is limited by resource restrictions and limitations with existing software programs.
H+W.2	Advocate for Right to Charge legislation	●		2020-2021	Ongoing	Province committed to legislation in 2020 ministerial mandate letters. While timelines are yet to be shared, staff continue to advocate for the need for Right to Charge Legislation.
H+W.3	Create guidelines for 100% EV-ready feasibility studies in existing multi-unit residential buildings	●		2020-2021	Achieved	Parameters for EV Ready Plans created for provincial incentives in late 2020. Complementary RFP template generated by Saanich staff to assist stratas when procuring consultants to develop an EV Ready Plan. Staff collaborated with Plug In BC to enhance and expand further resources to support stratas.
H+W.4	Promote incentives for EV charging infrastructure	●		2020-2023	Ongoing	Continuing to promote through multiple channels, including webpage, social media (including through targeted 6 week EV campaign), utility bill mail outs, newsletters and more.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on E-Mobility Strategy Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
H+W.5	Provide 'top-up' incentives to augment provincial/ federal EV charging infrastructure incentives for existing MURBs as required	●		2021-2022	Achieved	Saanich was the first local government in BC to offer this top-up incentive with agreements finalized in fall 2021. These include \$100 per stall top-ups to the provincial rebates.
H+W.6	Explore the need for and provide incentives for EV charging infrastructure feasibility studies in existing MURBs if required	●		2021-2022	Achieved	Saanich was the first local government in BC to offer this top-up incentive with agreements finalized in fall 2021. This incentive includes \$1,000 top-up to the provincial rebates, per EV-ready plan.
H+W.7	Provide EV charging infrastructure education for MURBs	●		2020-2021	Ongoing	Collaborated with Plug In BC to improve and expand the resources available to strata owners including the development of an EV Ready Guide for Stratas, a template RFP, a template survey, FAQs, and more. Webinars held in fall 2021 as part of the EV Ready Top-Up Incentive launch.
H+W.8	Identify and address potential policy barriers to EV infrastructure in existing buildings	●		2021-2023	Behind schedule	To be incorporated into the Development Permit Area (DPA) Guidelines and Bylaw review and update, expected to commence in 2022.
H+W.9	Support off-site EV charging for MURBs	●		2021-2023	Ongoing	Expansion of public EV charging network with 20 new level 2 stations at Saanich facilities and parks (12 available overnight). CRD EV Infrastructure Roadmap complete and will be used to inform future network expansion. Feedback provided to BC Hydro on expansion of DC Fast Charger network and support for residents in MURBs.
H+W.10	Support workplace EV charging	●		2021-2023	Ongoing	Supported CRD on development of EV Infrastructure Roadmap, approved in 2021. CRD convened stakeholders, including large employers, in the development of this work, which supported awareness around EV charging in the workplace.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



# Progress on E-Mobility Strategy Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS	
H+W.11	Support dedicated EV charging access for car shares near MURBs	●	2022-2023	Future action	Work initiated - discussions with car share organizations on electrification targets and ways to support.
H+W.12	Explore various financial approaches to overcome the capital cost barrier to EV charging	●	2022-2023	Future action	Future action.
<b>Public Charging</b>					
PN.1	Identify priority areas in Saanich for the provision of additional public EV charging stations	●	2021-2022	On track	Supported CRD on development of EV Infrastructure Roadmap, approved in 2021. Provides direction on total public chargers required to achieve targets. Feasibility work ongoing for expansion of EV chargers at Saanich facilities. Next steps include establishing a 3-5 year plan for new stations Saanich wide.
PN.2	Work with BC Hydro and the provincial and federal governments to install more DC fast charging stations in Saanich	●	2020-2022	Ongoing	Have provided feedback to BC Hydro on their priorities and transparency for planning and installing new DCFCs. Will continue to collaborate with CRD on their EV Roadmap and working with diverse partners including BC Hydro to install more public charging.
PN.3	Explore how to encourage private sector investment in new EV charging infrastructure	●	2021-2025	On track	Private investment in DC Fast Chargers is being observed. Will collaborate with CRD on implementation of the regional EV Roadmap and working with diverse partners to install more public charging.
PN.4	Embed EV charging considerations in Saanich planning processes	●	2021-2023	Ongoing	EV charging infrastructure needs and considerations embedded within work of municipal, police and fire fleet, facility operations, transportation and engineering. EV considerations addressed in planning policy and other community planning opportunities will be explored further in 2022.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on E-Mobility Strategy Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Saanich Leadership</b>				
Lead 1	Develop a fleet strategy to reduce corporate emissions	●	2020-2021 Behind schedule	Considerable analysis, feasibility, design and implementation underway to support strategy. Includes grant applications and installation of L2 EV chargers, design work and grant applications for DC Fast Chargers (DCFC), purchase of renewable diesel, and analysis for fuel savings through vehicle operation optimization and route planning. IT requirements are needed to achieve fuel savings but not planned due to limited IT resources. This work will inform a comprehensive strategy expected to start in 2022.
Lead 2	Convert all light-duty fleet vehicles to zero emissions vehicles	●	2020-2025 On track	All municipal fleet light duty vehicles are electric. Pursuing DC Fast Chargers to support electrification of Police front line vehicles. NRCan grant secured for 22 fleet L2 EV chargers at five facilities - 11 now installed. Feasibility, design and construction ongoing. Additional capital resources required in 2022 to support further fleet electrification.
Lead 3	Develop an e-bike fleet program	●	2020-2022 Achieved	Fleet E-Bike program launched summer 2021 with two E-bikes located at 3500 Blanshard/Engineering, 26 staff trained and over 525 km of use since launch. Implementation at other sites anticipated in coming years after securing appropriate storage solutions.
Lead 4	Implement a Climate Friendly Commuter Program and improve bike parking at all Saanich facilities	●	2020-2022 Behind schedule	2021 budget approval included additional staff resources. Anticipated these will enable a comprehensive program to be initiated in 2022.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy B1: Require efficient, net-zero carbon new construction</b>					
B1.1	Identify and remove municipal barriers to high-performance buildings	●	2020	Behind schedule	Project Charter for Development Permit Area (DPA) Design Guidelines update and review of bylaws for high performance buildings drafted. RFQ to be issued early 2022 with expectation that we are back on track by 2023.
B1.2	Accelerate adoption of net-zero carbon new construction	●	2020	On track	Next phase of BC Energy Step Code engagement due to commence regionally in early 2022 and should be informed by forthcoming Provincial GHG intensity (GHGi) legislation.
B1.3	Require new construction to achieve upper steps of the BC Energy Step Code by 2025	●	2021-2022	On track	Next phase of BC Energy Step Code engagement due to commence regionally in early 2022 and should be informed by forthcoming Provincial GHG intensity (GHGi) legislation.
B1.4	Support building industry capacity development	●	Underway	Ongoing	Mid-construction blower door test rebate to support Step Code implementation continued. Multiple training courses available regionally for high-performance buildings. Additional needs will be explored during engagement on upper steps of the Step Code due early 2022.
B1.5	Encourage the adoption of low-carbon materials in new construction	●	2021-2022	On track	Switched to Carboncure concrete for all Saanich corporate work. Previously opted into BC Building Code revisions related to the early and localized adoption of provisions for encapsulated mass timber construction (EMTC) - leading by example with the design for Fire Hall #2. More detailed work on embodied emissions and low carbon materials will commence later in 2022 with new staff resources.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
B1.6	Advocate for GHG performance metrics in the BC Building Code	●		2020-2021	Ongoing	Continued to advocate for GHG intensity (GHGi) in BC Building Code - Provincial legislation expected early 2022. Joined the Help Cities Lead Campaign which advocates for associated municipal powers. Co-chair of the province-wide Local Government Retrofit Peer Network - informing Provincial Alterations Code and other policy tools to drive GHG reduction in existing buildings.
B1.7	Require energy benchmarking for new Part 3 buildings	●		2021-2022	On track	Continued participation in Building Benchmark BC with growing membership regionally. Will explore as part of industry engagement on next phase of Step Code adoption in 2022.
<b>Strategy B2: 🌟 Accelerate efficiency and renewable energy upgrades in existing buildings</b>						
B2.1	Launch a Home Energy Retrofit Municipal Financing pilot project	●		Underway	Behind schedule	Program was on hold due to COVID-19 and potential Provincial legislative changes to enable property assessed clean energy (PACE) financing. Program design now underway again with an anticipated launch expected in Spring 2022. However, the IT software necessary for tracking program implementation is delayed due to resource restrictions, which may impact the ability to monitor and report on the program.
B2.2 🌟	Phase out oil heating by 2030	●		2020	Behind schedule	Reviewed local government policy options but further discussion with the Province is required in 2022, particularly given the opportunity presented by the BC Building Alterations Code and Equipment Performance Standard. An updated oil tank inventory will be completed in 2022.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
B2.3	Carry out effective communications campaigns to promote conversion to renewable energy systems	●		2020	Ongoing	Multiple actions e.g. utility bill inserts, presentations, participation in Bring it Home 4 Climate program, Online Climate Action Workshop Series, social media campaigns etc.
B2.4	Explore regulatory power to require efficiency and renewable energy upgrades	●		2020	Ongoing	Advocated through Help Cities Lead and the Retrofit Peer Network for the Province to implement this through a mandatory BC Building Alterations Code and Carbon Performance Standard.
B2.5	Increase top-up rebates for conversion from fossil fuel to renewable energy systems	●		Underway	On track	Council approved considerable funding increases as demand surged for fossil fuel to heat pump rebates in 2021. The top-up rebate per household remains constant and is unlikely to increase at this time due to the increased base rebate amounts from Provincial and Federal governments, supplemented by BC Hydro. An additional 2022 budget resource request will be made to sustain this change over the next three years and make considerable progress towards targets.
B2.6	Develop a comprehensive building retrofit strategy	●		2020-2022	On track	Business case for a Regional Retrofit Service approved by CRD board in fall 2021 and a requisition vote approved by member municipalities to support implementation, expected by early 2023. A Saanich-specific retrofit strategy will be developed in 2022 informed by work undertaken to date, including the T2050 high level strategy completed in 2020.
B2.7	Work with partners to support skills development	●		2021-2022	Ongoing	Multiple opportunities throughout 2021 e.g. District 2030, Camosun College micro-credentials on clean energy, building industry training, offers from Utilities etc. Further opportunities to support training will be identified during next phase of Step Code engagement.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
B2.8	Advocate for long-term, effective rebate programs	●		2020	Ongoing	Continued messaging to Province and Federal Governments on need for long term, consistent, sizable and well-resourced climate rebates, including a UBCM resolution on the termination of CARIP funding. Improvements to rebate programs included increased Better Homes BC rebate amounts and new Federal Greener Homes grant focused on fuel switching. Two programs expected to launch in 2021 have been delayed: a federal 0% interest loan program and a Provincial income qualified program with considerably higher grants and support offered to lower income tiers.
B2.9	Advocate for provincial support on property assessed clean energy (PACE) financing	●		2020	Ongoing	Saanich staff were engaged on the development of a PACE Roadmap for BC due in mid 2021 - now significantly delayed. Saanich continues to communicate the need/urgency of this tool through direct liaison with Provincial staff, Help Cities Lead and other channels.
B2.10	Work with industry partners to support renewable energy retrofits	●		Underway	Ongoing	Continued supporting and participating in Greater Victoria District 2030, Building Benchmark BC and Bring it Home 4 Climate. Collaborating with CRD and others on the development of a Regional Retrofit Service.
B2.11	Develop incentive tools to encourage commercial and multi-unit residential buildings to undertake deep energy retrofits	●		2020	Behind schedule	Commercial Building Retrofit Options Report completed and potential financial incentive approach identified and being further explored in collaboration with Housing Strategy lead and finance/legal. Potential launch date late 2022/2023 and may require additional resources in Finance. Also collaborating on a potential Provincial Strata Energy Advisor Program to support low carbon retrofits in multi-family residential buildings.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
B2.12	Work with the Province to prevent fuel switching from low-carbon to high-carbon energy sources	●		2020	Ongoing	Continued messaging to the Province on this issue and feedback on preferred policy options being communicated through Local Government Retrofit Peer Network.
B2.13	Participate in retrofit code development	●		2020	On track	Saanich is co-chair of the Local Government Retrofit Peer Network, collating local government feedback to the Province on the development of an Alterations Code due by 2024.
B2.14	Introduce voluntary energy benchmarking for existing buildings	●		2024-2029	Ahead of schedule	Continue to support and participate in Building Benchmark BC, a voluntary program enabling building owners/managers to benchmark their energy use and GHGs against similar buildings. Continue to advocate to the Province for mandatory benchmarking or powers to enable mandatory labelling for Part 3.
B2.15	Advocate for home energy labelling and disclosure	●		2024-2029	Ahead of schedule	Province committed to mandatory energy labelling at time of listing in the 2020 ministerial mandate letters. Staff have received several updates and expect to be engaged in early 2022.
B2.16	Support mandatory recommissioning for existing Part 3 buildings	●		2024-2029	Future action	Future action.
B2.17	Support mandatory energy and emissions benchmarking for existing Part 3 buildings	●		2024-2029	Ahead of schedule	Continue to support and participate in Building Benchmark BC, a voluntary program enabling building owners/managers to benchmark their energy use and GHGs against similar buildings. Continue to advocate to the Province for mandatory benchmarking through Help Cities Lead.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy B3: Increase energy resilience and renewable energy supply</b>						
B3.1	Support development of local Renewable Natural Gas production	●		Underway	Ongoing	Continued to support CRD as required in relation to the RNG generation facility at Hartland Landfill and through the purchase of RNG for back-up natural gas use at our facilities following upgrades.
B3.2	Support the Province and utilities to produce sufficient renewable energy	●		2021-2022	Ongoing	Provided input to the CleanBC Roadmap to 2030, approved fall 2021 with accelerated actions to support renewable energy generation and commitment to a 100% Clean Electricity Delivery Standard. Provided input to utility strategic plans and rate option development including BC Hydro Electrification Plan, approved fall 2021, and the BC Hydrogen Strategy, approved in summer 2021.
B3.3	Develop a renewable energy guide for residents	●	●	2024-2029	Future action	Future action.
B3.4	Work with the province and utilities to incentivize local renewable energy production	●		2024-2029	Future action	Future action.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy B4: Transition towards a climate-ready building stock</b>						
B4.1	Develop strategies to preserve and enhance permeability and stormwater management		●	2021-2022	Behind schedule	The Integrated Stormwater Master Plan (ISMP) multi-year/ multi-project program currently underway. While some funding was committed in 2021, the remaining funding and staff resources required to progress this work will be re-submitted in the 2022 Budget. They will be necessary to evaluate permeability requirements and inform a future utility, amongst other benefits.
B4.2	Develop a “programmed roof” policy	●	●	2021-2022	Future action	A policy is contained within the proposed Cordova Bay Local Area Plan and will be explored as part of the Development Permit Area Guidelines update in 2022.
B4.3	Advocate for the incorporation of climate adaptation considerations into the BC Building Code		●	2020	Ongoing	Provided input to the draft Provincial Climate Adaptation Strategy that includes an action to incorporate climate adaptation into the BC Building Code. The new provincial Existing Buildings Renewal Strategy that the Alterations Code comes under is expected to address climate adaptation. Saanich staff co-chair the Local Government Retrofit Peer Network.
B4.4	Encourage building design or retrofit measures to reduce impacts from heat waves and poor air quality events		●	2022-2024	Ahead of schedule	Ongoing communications to public about cooling and air quality benefits of heat pumps, particularly in light of 2021 heat wave events. New adaptation webpage. Participating in Provincial engagements on the Existing Buildings Renewal Strategy and Alterations Code, which are embedding adaptation. Development of a climate risk tool in Part 3 buildings underway as part of District 2030 and Bring it Home 4 Climate campaign embeds adaptation for Part 9 building retrofits.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy B5: 🌟 Increase the resilience of Saanich's infrastructure and assets</b>					
B5.1	Consider a rainwater collection system requirement in new development	●	2024-2029	Future action	Future action.
B5.2	Encourage the implementation of engineered greywater systems	●	2024-2029	Future action	Future action.
B5.3	Include climate change considerations in the corporate asset management system	●	2021-2022	On track	New Asset Management Program Manager hired. Condition and capacity assessments underway. Natural assets to be incorporated.
B5.4	Update engineering design specifications to account for future climate projections	●	2021-2022	Future action	Future action.
B5.5	Conduct flood hazard planning	●	Underway	On track	Regional Coastal Flood Inundation Mapping project updated in 2021. Additional 3D modelling of creeks will be required and would form part of the one-time resource requests to be made as part of the 2022, 2023 and 2024 budgets related to the Integrated Stormwater Management Plan. It is important to note that the resource requests in each of those years is required to complete the work.
B5.6	Accelerate the completion of a stormwater master plan with climate change considerations	●	2021-2022	Behind schedule	Incremental progress has been made on the Integrated Stormwater Master Plan (ISMP) multi-year/multi-project program to date. Some resources were committed in 2021. Remaining funding and staff resources required to complete this work will be re-submitted as one-time resource requests in the 2022, 2023 and 2024 budgets. In order to accelerate the completion of the ISMP, this funding will also need to be accelerated.
B5.7	Investigate on-site stormwater management practices on private lands	●	2024-2029	Future action	Future action.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<i>Strategy B6: Prepare for long-term sea-level rise</i>					
B6.1	Complete sea-level rise mapping	●	Underway	On track	Regional Coastal Flood Inundation Mapping project to be used in awareness campaigns and to inform policies starting 2022.
B6.2	Increase sea-level rise knowledge and adaptation capacity in the community	●	2022-2024	Future action	Future action.
B6.3	Develop a Coastal Adaptation Strategy	●	2022-2024	Future action	Future action.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



# Progress on Food and Materials Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy F1: Reduce the climate impact of food production and consumption</b>						
F1.1	Reduce carbon emissions from local food production	●	●	2021-2022	Future action	Future action.
F1.2	Encourage residents to choose low-carbon foods and reduce food waste	●	●	Underway	Ongoing	Marketing and awareness campaign completed during 2021 using Love Food Hate Waste materials in social media ads, garbage truck signage, bus shelter signage, e-newsletters, online climate action series, mail-outs etc.
F1.3	Encourage food service establishments to reduce carbon emissions from their operations	●		2022-2024	Future action	Future action.
<b>Strategy F2: Move towards “lighting living” in Saanich</b>						
F2.1	Reduce single-use plastics			Underway	Ongoing	Checkout Bag Regulation Bylaw came into effect in 2021. Reduction of other single use plastics to be addressed as part of the Zero Waste Strategy, expected to commence 2022.
F2.2	Develop and implement a Zero Waste Strategy	●		2022-2024	Future action	Future action - expected to be initiated in 2022.
F2.3	Work towards zero waste for large public events	●		2022-2024	Future action	Future action - will be influenced by changes to public events dependent upon COVID-19.
F2.4	Work with partners on circular economy initiatives	●		2022-2024	Future action	Future action - to be incorporated in the Zero Waste Strategy, expected to commence in late 2022.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Food and Materials Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
F2.5	Mobilize residents and businesses towards “lighter living”	●		2020-2022	On track	Online Climate Action Workshop Series launched successfully, supporting individuals to create their own climate or One Planet plans using the Residents’ Climate Action Guidebook. Lighter-living app further updated and expected to launch early 2022.
F2.6	Advocate for expansion of extended producer responsibility programs	●		2024-2029	Future action	Future action - to be incorporated in the Zero Waste Strategy, expected to commence in late 2022.
F2.7	Improve monitoring of and compliance with a recyclable materials ban	●		2024-2029	Future action	Future action - to be incorporated in the Zero Waste Strategy, expected to commence in late 2022.

## Strategy F3: Improve the resilience and self-sufficiency of the local food system

F3.1	Accelerate the implementation of Agriculture and Food Security Plan		●	2021-2022	On track	Staff hired and plan actions prioritized. First phase priorities and additional measures identified during COVID underway. Temporary bylaw for curb-side produce sales introduced successfully. Farm worker housing report drafted and expected to Council early 2022. Continued to support initiatives on local food security.
F3.2	Support an Agricultural Adaptation Strategy for Vancouver Island		●	2021-2022	Ongoing	Involved in subcommittees focused on the agriculture adaptation strategy through our membership on the PAAC, and CRD Agriculture and Food taskforce. Also inputting to provincial climate change and agriculture discussions and strategy development.
F3.3	Increase capacity for local food production	●	●	2022-2024	Future action	Future action.
F3.4	Increase adoption of water-wise agricultural practices		●	2024-2029	Future action	Future action.

Implementation Priority:




First Priority

High Priority

Medium Priority

Low Priority

# Progress on Ecosystems Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy E1: Enable natural systems to thrive and adapt</b>						
E1.1 	Double the rate of planting trees to enhance the urban forest	●	●	2020	On track	Funding provided to increase tree planting from 1,000 to 2,000 trees per year. In 2021 a total of 2,346 were planted. However, major barriers to tree planting do exist, including places to plant trees, availability of native species and availability of mature trees from local nurseries. GPS required for tree mapping, currently limited due to IT resource constraints.
E1.2	Increase stewardship tools for private land owners		●	2020	On track	Naturescape booklet, Trees and Native Plant Choices booklet and Applicant booklet expected early 2022. Native Plant Propagation database acquired to support the Native Plant Salvage Program in 2022. Funds earmarked for increasing stewardship tools through Resilient Saanich.
E1.3	Implement “Natural Intelligence” parks program		●	Underway	Ongoing	Ongoing promotion and growing of the program. Won Campaign of the Year at the 2021 International Digital Communications Awards sponsored by Quadriga University of Applied Sciences, Berlin.
E1.4	Develop an operational approach to tree retention and replacement during development	●	●	2020	On track	Discussions underway and will be further developed in 2022 with initiation of the Urban Forest Strategy update and Development Permit Area (DPA) Design Guidelines review. Potential to further amend the Tree Protection Bylaw amongst other actions to be proposed as an outcome of this work. Use of I-Tree to measure ecosystem services for individual trees.
E1.5	Protect and expand the urban forest	●	●	2020	On track	Tree Protection Bylaw updates complete and Urban Forest Reserve Fund created. Urban Forest Strategy update RFP completed and work will commence in 2022. Potential to further amend the Tree Protection Bylaw amongst other actions to be proposed as an outcome of this work.
E1.6	Develop and implement a Biodiversity Conservation Strategy		●	2020-2022	On track	Work initiated as part of Resilient Saanich. Deadline extended for completion, report due July 2022.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



# Progress on Ecosystems Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
E1.7	Expand, connect and restore natural areas		●	2021-2022	On track	Public land acquisitions are expanding natural areas. A strategy for connecting natural areas on public and private lands will be an outcome of the Biodiversity Conservation Strategy. Stream and ecosystem restoration projects are on-going and expanding on both public and private lands.
E1.8	Partner with school districts on environmental education	●	●	Underway	Ongoing	Partnerships with schools continue by offering school programs in the parks to teach environmental ethics, expanding the BCSEA CoolIt program, and providing enhanced resources to support and empower teachers. Work towards a Garry Oak Educators program for Saanich schools is also in development with the Habitat Conservation Trust Foundation. There would be greater opportunities should the School Districts choose to participate, particularly given they are a major land owner. There is high demand for these programs and additional resources would expand opportunities and increase outcomes.
E1.9	Explore carbon dioxide removal measures with partners	●		2020	Behind schedule	New Senior Sustainability Planner (Climate Adaptation) and Asset Management Program Manager hired following 2021 budget approval. As with Resilient Saanich, Ecosystem Services (including carbon sequestration) will be integrated into their work. Exploring international tools for sequestration calculations.
E1.10	Prevent planting and spread of invasive plants		●	2021-2022	On track	Efforts ongoing to address this on both public and private lands including work with CRISP and the Pulling Together program. In 2021 there were over 60 Lead Stewards for Pulling Together in 44 parks with more than 15,000 volunteer hours. However, additional resources are required for Pulling Together to address the demand and need. Resource requests will also be submitted in 2022 for a Lesser Celandine Program.
E1.11	Improve monitoring of ecosystem health		●	2022-2024	Future action	Additional resources would be required to deliver this future action. Anticipated outcome/recommendation of the Resilient Saanich initiative.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Ecosystems Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
E1.12	Develop principles for assisted migration		●	2022-2024	Future action	Potential outcome of the Resilient Saanich initiative.
E1.13	Improve compliance with new bylaws and policies		●	2022-2024	Future action	Potential outcome of the Resilient Saanich initiative.
<b>Strategy E2: 🌟 Protect and manage natural assets as critical infrastructure</b>						
E2.1	Evaluate services provided by natural assets	●	●	2021-2022	Behind schedule	New Senior Sustainability Planner (Climate Adaptation) and Asset Management Program Manager hired following 2021 budget approval. Natural assets will be incorporated within the asset management plan. Requires data and analysis from the Integrated Stormwater Management Plan (ISMP) that is reliant on additional budget and staffing to be re-submitted as a resource request in 2022 budget. This is necessary to evaluate Saanich natural assets and inform recommendations for implementation (e.g. protection, restoration, enhancement), supporting grant applications. GPS and IT programs required to map assets such as trees are currently constrained by limited IT resources.
E2.2	Develop a strategy to maintain services provided by natural assets	●	●	2021-2022	Future action	Resilient Saanich work, primarily the Biodiversity Conservation Strategy should provide the goals, indicators and targets as well as the high level protection and restoration strategy to help deliver on this action. Further land acquisition, protection and restoration recommendations will likely come from several sources including the Integrated Storm Water Management Plan (ISMP); the work of Environmental Services and Parks; the Urban Forest Strategy review and direction by council related to the 3-30-300 guidelines; and the valuation of our natural assets and their ecosystem services.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



Photo credit: Saanich Parks

# Progress on Community Well-being Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<i>Strategy C1: Ensure emergency and community health services keep pace with climate change</i>						
C1.1	Retrofit municipal facilities to increase cooling and air filtration capabilities		●	2020-2022	On track	Pathways to 100% Renewable Energy & Resiliency now completed for two key facilities based upon energy studies and design work. Increased cooling and filtration incorporated into proposed designs for G.R. Pearkes and Cedar Hill Recreation Centre - implementation reliant on grant applications. Feasibility study for the Municipal Hall scoped in late 2021.
C1.2	Undertake urban heat mapping		●	2022-2024	Future action	Looking to accelerate this action and commence in 2022 given the heat waves of 2021.
C1.3	Work with partners to ensure coordinated response during severe weather events		●	2022-2024	Future action	This is a priority for Saanich Emergency Program, VIHA and the Province given the heat waves and flooding in 2021 - currently formalizing changes and developing additional protocols based on lessons learned. Emergency Management commenced a Hazard Risk Vulnerability Assessment in November 2021.
C1.4	Update Wildfire Protection Plan and Interface Fire Hazard Development Permit Area		●	2022-2024	Ahead of schedule	The Saanich Community Wildfire Protection Plan is now updated and includes 27 recommendations. Implementation is ongoing based on priority value.
C1.5	Develop Saanich-specific wildfire prevention materials		●	2022-2024	Ahead of schedule	To commence in 2022 as an outcome of the updated Community Wildfire Protection Plan.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Community Well-being Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
C1.6	Work with service providers to vulnerable populations to develop adaptation strategies		● 2024-2029	Future action	Potential to accelerate this action in 2022, building upon the program work with these organizations through Community Services and engagement with Strata/Property Managers on building upgrades.
C1.7	Work with partners to minimize impacts from vector-borne diseases		● 2024-2029	Future action	Future action.
C1.8	Review severe weather protocols for vulnerable populations		● 2024-2029	Future action	The Greater Victoria Extreme Weather Protocol/Response Plan resumed in 2021. This Response Plan developed by BC Housing, The Greater Victoria Coalition to End Homelessness and stakeholders including Saanich Police and Fire (emergency program), is a strategy for coordinating the region's overnight shelters in the event of extreme and/or dangerous weather conditions. This plan activates shelter spaces to meet the needs of people experiencing homelessness.

Implementation Priority:




First Priority

High Priority

Medium Priority

Low Priority

# Progress on Community Well-being Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy C2:  Empower Saanich residents and businesses to take climate action</b>						
C2.1	Implement a tangible and hands-on neighborhood-level program	●	●	2020	Behind schedule	Neighbour to Neighbour (N2N) program originally delayed due to COVID-19 and now partly designed in 2021. Saanich Community Grants Program policy amended in 2021 to incorporate N2N. Launch anticipated in 2022.
C2.2	Host an annual climate fair	●	●	2020	On track	Originally on-hold due to COVID-19. However, 2021 saw an amended approach, incorporating climate related engagement in the Earth Day celebration modified to address safety requirements during COVID. A virtual annual celebration event held for One Planet Saanich participants.
C2.3	Provide educational programming and workshops	●	●	2020	On track	Funding approved in 2021 enabled a more comprehensive and extensive approach to climate education programming and workshops. This included an Online Climate Action Series, Natural Intelligence Program, continuation and expansion of One Planet Saanich including a school competition, increased participation in BCSEA CoolIt program for schools, emergency management programs, Bring it Home for Climate Campaign and low and no-cost child and youth year-round outdoor programs and camps that often include an environment theme.
C2.4	Carry out a communications campaign on urgent climate action	●	●	2020	On track	Funding approved in 2021 accelerated the climate communication campaign focusing on both general climate action and specific themes/programs, e.g. Online Climate Action Series utilizing the Residents' Climate Action Guidebook; utility bill inserts; mail outs; presentations to organizations; paid advertising; social media, tv and radio coverage etc.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Community Well-being Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
C2.5	Host a Community Climate Collaborative	●	●	2020	On hold	Was originally on hold due to COVID-19 and has been reviewed through 2021. The intent of this action is being addressed through focused collaborations on specific climate topics. For example, collaboration with the Community Social Planning Council to embed equity in transportation programs. Other examples include collaboration with community and business members in One Planet Saanich and District2030 and seeking input and guidance from advisory committees of Council etc.
C2.6	Develop an equity tool	●	●	2020	On track	Education, partnerships, training and analysis undertaken and ongoing. Embedding equity in specific program design and implementation and evaluating with partners. Corporate Diversity, Equity and Inclusion Strategy underway.
C2.7	Develop a Saanich climate information webpage	●	●	2020	Achieved	Developed and regularly updated.
C2.8	Seek opportunities to work with neighboring First Nations	●	●	2020	Behind schedule	WSÁNEĆ Leadership Council and District of Saanich signed the <b>ÁTOL,NEUEL</b> (“Respecting One Another”) Memorandum of Understanding. Indigenous led tours on national truth and reconciliation day discussed climate impact and change. This provides a strong foundation to seek opportunities to work with neighbouring First Nations on climate action.
C2.9	Explore a bulk-purchase program	●	●	2022-2024	Future action	Future action.
C2.10	Develop a community grants program	●	●	2024-2029	Ahead of schedule	Saanich Community Grants Program policy amended to incorporate the Neighbour to Neighbour (N2N) program that is anticipated to launch in early 2022.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Community Well-being Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
C2.11	Collaborate with researchers and post-secondary institutions	●	●	2024-2029	Future action	While this action speaks to a specific Saanich program, there were multiple collaborations with post-secondary institutions and students in 2021. For example, Saanich partnered with the UBC React Lab on the e-bike incentive program study, with the UBC Sustainability Scholars on the Energy Poverty Community Profile report, etc.
C2.12	Work with the arts community	●	●	2024-2029	Future action	Climate change embedded in Community Services programming e.g. forest bathing for older adults focused on respite and healing including meditative drawings/rubbings of natural materials, mindful meditation etc.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



Rain garden in Gorge Park Community Gardens, newly planted with pollinator-friendly native species. Photo credit: Laurie Jones (June 2021)



*The Gorge Tillicum Community Association offers a great example of how organizations can contribute to our collective climate action. While they have been working on this front for many years, they recently developed a Climate & Ecosystem Action Framework and list of priorities for the Gorge Tillicum neighbourhood to help address our current climate and ecological crises. This builds on several existing inspirational projects including: a relatively new community garden; current efforts to convert Tillicum Road into a vibrant, walkable community destination and a safe corridor for all mobility options; and an emerging pollinator habitat mapping and enhancement project.*

*Reynolds Secondary School is an active participant of One Planet Saanich and a leader and award winner for school-based sustainability initiatives. They recently expanded their courtyard garden program into a micro-farm in partnership with LifeCycles Project and TopSoil. In addition to supplying the school salad bar, they are now selling organic produce through a food box program for staff and families. Students are also focused on shrinking their footprint by promoting 'sustainable consumption' habits - they have launched a pop-up café, clothing and book exchanges and other initiatives to repurpose food waste and upcycle products.*



Photo credit: Heather Coey, Reynolds Secondary School

# Progress on Leadership in District Operations Objectives

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy L1: Integrate climate action into Saanich processes and decision-making</b>						
L1.1	Establish a new Climate Action Reserve Fund	●	●	2020	Achieved	Climate Action Reserve Fund established and considerable funding requests approved in 2021. Province announced CARIP termination early 2021, which previously provided a consistent source of considerable funding for Saanich Climate Action. UBCM resolution submitted by Saanich to address this. A 2022 budget resource request for equivalent funds will be submitted to Council while we await updates from the Province on a replacement program.
L1.2	Include a climate alignment scorecard in reports to Council for development projects	●	●	2020	Behind schedule	Sustainability Statement Guidelines updated and in review - likely implementation 2022.
L1.3	Establish a carbon price policy	●		2020	Behind schedule	Budget approvals in 2021 will allow for this to be addressed with new Sustainability positions.
L1.4	Create a climate leadership group	●	●	2020	Achieved	Internal Climate Working Group established; instrumental for implementation, monitoring progress and supporting reporting. Meetings and collaboration ongoing.
L1.5	Develop a risk register and monitoring platform		●	2020	Behind schedule	New staff hires focusing on asset management and climate adaptation. Enterprise Risk Management Framework completed. A Climate Risk Register not likely until 2023. This will be informed by/dependent upon the analysis completed in several other programs (e.g. Integrated Stormwater Management Plan, Updated Urban Forest Strategy etc.)

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Leadership in District Operations Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy L2: Become a climate friendly employer</b>						
L2.1	Implement a Climate Friendly Commuter Program	●		2020	Behind schedule	2021 budget approval included additional staff resources. Anticipated these will enable a comprehensive program to be initiated in 2022.
L2.2	Implement a training and capacity building program	●	●	2020	Behind schedule	While some progress has been made including presentations to various divisions, project based collaboration, internal climate working group, facility specific and fleet e-bike training etc., a broader training and capacity program would likely be considered in the coming years with the additional staff resource funded in 2021.
L2.3	Recognize innovation, successes and leadership	●	●	Underway	Ongoing	Winner of the Canadian Institute of Planners 2021 Award for Planning Excellence in Climate Change Planning. The Electric Mobility Strategy was short listed for the 2021 UBCM Community Excellence Awards. Multiple other external awards and recognition for departmental work that contributes to climate action. Amended recruitment packages to represent the Saanich vision and commitment to sustainability. Internally, Buzz articles celebrate the culture of collaboration on climate action and showcase individual leadership.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Leadership in District Operations Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy L3: Transition to an efficient, renewably powered fleet</b>					
L3.1	Develop a fleet strategy to reduce corporate emissions	●	2020	Behind schedule	Considerable analysis, feasibility, design and implementation underway to support strategy. Includes grant applications and installation of L2 EV chargers, design work and grant applications for DC Fast Chargers (DCFC), purchase of renewable diesel, and analysis for fuel savings through vehicle operation optimization and route planning. IT requirements are needed to optimize fuel savings but not planned due to limited IT resources. This work will inform a comprehensive strategy expected to start in 2022.
L3.2	Convert all light-duty vehicles to zero-emissions vehicles	●	Underway	On track	All municipal fleet light duty vehicles are electric. Pursuing DC Fast Chargers to support electrification of Police front line vehicles. NRCan grant secured for 22 fleet L2 EV chargers at five facilities - 11 now installed. Feasibility, design and construction ongoing.
L3.3	Develop an e-bike fleet program	●	2020	Achieved	Fleet E-Bike program launched summer 2021 with two E-bikes located at 3500 Blanshard/Engineering, 26 staff trained and over 525 km of use since launch. Implementation at other sites anticipated in coming years after securing appropriate storage solutions.
L3.4	Review industry readiness to support medium- and heavy-duty fleet conversion pilot projects	●	2022-2024	Future action	While this is identified as a future action, work has commenced on the feasibility and design for charging requirements for medium/heavy duty fleets including Fire Engines and Garbage trucks. This will inform future grant applications and resource requests expected in 2022/23 onwards.

# Progress on Leadership in District Operations Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy L4: Transition to efficient and renewably-powered municipal buildings</b>					
L4.1	Transition to highly efficient and renewably-powered municipal facilities	●	Underway	Ongoing	Pathways to 100% Renewable and Resilient completed for G.R.Pearkes and Cedar Hill Rec Centre and major grant application submitted - results due early 2022. Implementation of biomass at SCP underway, carbon neutral design for Fire Hall 2 ongoing. 3 Saanich owned and rented homes upgraded from oil to heat pumps with envelope improvements, supported by CleanBC grants. BC Hydro Continuous Optimization Program study completed for several facilities, implementation due 2022. BC Hydro grant secured for lighting upgrades at Public Works. Solar storage explored. Study initiated for GHG mitigation and climate resiliency at Municipal Hall. Resource requests expected in coming years to support implementation.
L4.2	Pilot low-carbon materials in municipal new construction	●	Underway	On track	New Facility Standards for materials to incorporate low carbon, environmentally friendly products and Fire Hall #2 design follows BC's Wood First Initiatives. Embodied carbon is an emerging field - analysis is required to develop more comprehensive direction for both community and corporation. May be initiated as an outcome of, or in parallel with, the community-wide Zero Waste Strategy and Building Strategy, expected to commence in 2022.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Leadership in District Operations Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
L4.3	Showcase efficient and renewably-powered municipal buildings	●		Underway	On track	Showcased in sustainability webpages, social media, awards, factsheets, 2-page pathways etc. Implementation of networked facilities (IT dependent) will support effective public communication methods e.g. digital design boards. Greater resources will be allocated to showcasing facilities once major upgrades are completed at SCP, G.R.Pearkes, Cedar Hill Rec and the new Fire Hall #2. Expected 2022-25.

## Strategy L5: Reduce waste and GHG emissions from goods and services

L5.1	Model a low-carbon diet through corporate catering	●		2020	On hold	Currently on hold due to COVID-19 restricting catering and events.
L5.2	Develop a corporate Zero Waste Strategy	●		2024-2029	Future action	Future action.
L5.3	Update Saanich Sustainable Procurement Guidelines	●		2024-2029	Future action	Future action.





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