



Saanich Climate Plan

Annual Report Card 2022



2022 Highlights



Mobility



Over 380 people received e-bike incentives as part of the E-Bike Incentive Pilot Program, including larger incentives for lower income households



5 Km of protected bike lanes installed



A **Vision Zero policy** was adopted for transportation safety



250 parking stalls were retrofitted with EV Ready infrastructure in multi-family buildings



The first **10 Battery Electric Buses** have been ordered by BC Transit and will be operating in the Victoria Region in the latter half of 2023. A trial electric bus was in operation in the system in December 2022



Saanich-owned public EV chargers were used for a total of **25,951 hours**



Buildings and Infrastructure



402 Saanich residents received **top-up incentives for switching from fossil fuels** (oil and natural gas) to heat pumps



Adopted **zero carbon standards for new construction** by 2025



Oil to Heat Pump Financing pilot launched and fully subscribed with **over 50 participants**



73% of new homes built in Saanich in 2022 installed **heat pumps** for space heating and cooling



Home Energy Navigator Service launched with the CRD and member local governments



Food and Materials



Love Food Hate Waste contest on social media had 109 participants and over 5,200 views!



Saanich initiated a **Food Hub Feasibility Study** with funding support from the Ministry of Agriculture



Ecosystems



193 volunteers provided more than **16,300 hours** in **Pulling Together** program, engaged in invasive species removal and ecosystem restoration work on **45 sites**



Tree Appreciation Day site at Mahon Brook saw planting of dozens of native trees, hundreds of shrubs and more than 500 herbaceous plants



2,398 trees planted in 2022 in the Urban Forest and Natural Areas



0.75 hectares of new park land acquired



Saanich declared a **Bird Friendly City**



Community Well-being



Neighbour to Neighbour (N2N) Resilience Initiative launched



Over 90 students participated in the **One Planet Student challenge**



Online **Climate Action Workshop Series** offered to **over 80 registrants**



Saanich Emergency Program's **Community Risk Assessment** completed and **35 presentations** on preparedness provided to **652 residents**



One Planet Saanich grew to **21 organizations**, who collectively committed to **over 550 sustainable actions**



127 students in 20 classes in Saanich participated in **BCSEA Cool It!** program and reported a total of **79.9 tonnes of GHGs saved** through the program



Leadership in District Operations



2 new all-electric pickup trucks added to the Saanich municipal fleet



Installed 5 Level 2 EV charging stations for fleet at the Saanich Operations Centre



Completed **LED lighting upgrade** in the Public Safety Building



Saanich declared an **A-List City by the Carbon Disclosure Project (CDP)** for the third year in a row



The District of Saanich and the City of Victoria have received the **Community Energy Association's 2022 Climate and Energy Action Award**



New heat pump replaced an oil heating system at Hampton Park Lawn Bowling Clubhouse



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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. It looks at both mitigation (reducing our GHG emissions) and adaptation (preparing for a changing climate) in the wider Saanich community as well as the District's operations. It contains 131 actions across 6 focus areas:

1. Mobility;
2. Buildings and Infrastructure;
3. Food and Materials;
4. Ecosystems;
5. Community Well-Being; and
6. Leadership in District Operations.

An important action in the plan is to report annually on our progress. This Report Card provides a summary of:

- progress on greenhouse gas (GHG) emissions targets;
- progress on Climate Plan objectives (i.e. the metrics and targets) for each Focus Area; and
- progress on Climate Plan actions for each Focus Area.

While some Focus Areas still need metrics to be developed, particularly related to ecosystems, climate adaptation and resilience, staff are hopeful that the completion of the Environmental Policy Framework, Biodiversity Conservation Strategy and other updated strategies in 2023 will support the development of these metrics ready for the next report card.

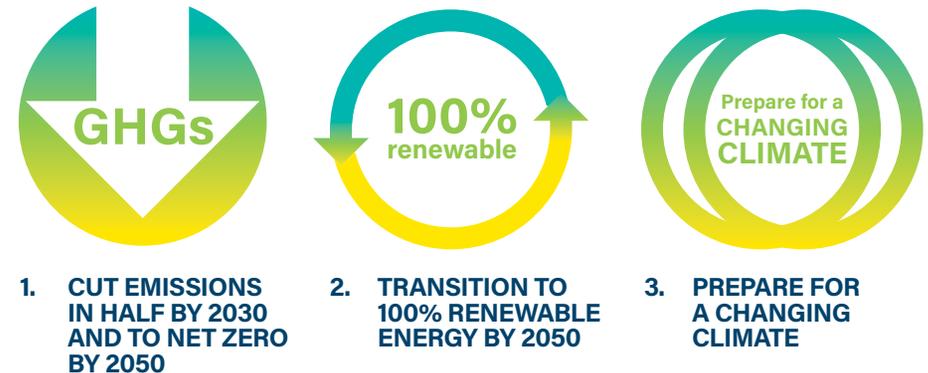
Another challenge we face is obtaining up-to-date data. For example, data for several of the targets outlined in the Climate Plan are currently unavailable on an annual basis; targets related to mobility rely on the regional Origin Destination Household Travel Survey and targets related to waste rely on regional waste composition studies, both conducted roughly every five years. Staff are working on data access and improvements across several of the Climate Plan key focus areas. Where data is unavailable or metrics are in development, this is noted within the report. Data sources and methodologies are available upon request from sustainability@saanich.ca.

While the District has direct control over the implementation of our Climate Plan actions, we have shared influence over our community-wide GHG emissions and the Climate Plan objectives, so it is clear that we cannot achieve this alone. Our collective success requires action from everybody, including in particular the provincial government, the federal government, and then businesses, non-profits, community organizations, institutions, and residents.

We need to do this together.

Figure 1: Climate Plan Goals

Saanich Community-wide Climate Goals



District of Saanich Corporate Climate Goals



Progress on Community-Wide GHG Targets

Territorial Emissions Inventory

The latest Saanich community-wide greenhouse gas (GHG) emissions inventory is for 2021 and outlined in Figure 2. It follows the [Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories](#), accounting and reporting standard for cities (Basic+).

The majority of our territorial GHG emissions come from fossil fuels used for transportation (mainly gasoline and diesel) and buildings (mainly natural gas and, to a lesser extent, oil). In comparison to the fossil fuels, approximately 98% of BC's electricity generation is renewable and the Provincial government and BC Hydro have committed to a 100% Clean Electricity Delivery Standard for electricity by 2030. Given this, Climate Plan actions focus heavily on electrification.

The latest territorial inventory shows the following:

- [Overall community-wide emissions](#) have decreased by 19% in 2021 compared with the 2007 baseline. If we are to meet our 2030 targets, we should have seen a 30% reduction in overall emissions by 2021. So we are not currently on track.
- [Transportation emissions](#) have decreased by 25% in 2021 compared with the 2007 baseline, which is a 5% increase compared with 2020. The majority of these emissions continue to be from personal vehicles. This is not on track to meet our 2030 targets.
- [Building emissions](#) have decreased by 11% in 2021 compared with the 2007 baseline, which is a 10% reduction compared with the 2020 inventory. This is not on track to meet our 2030 targets.
- [Waste emissions](#) continued to decrease in 2021 with a 56% reduction from the 2007 baseline, which is a 9% reduction compared with the 2020 inventory. This is primarily through widespread adoption of composting as well as landfill methane capture and the biological treatment of waste in addition to changes in emissions factors*. This already exceeds our 2030 targets of a 50% reduction in emissions from our 2007 baseline.

It is likely that the 2021 GHG emissions inventory continues to show the impact of behaviour changes established during COVID-19. Unlike 2020, there was no formal closure of businesses, but much of the workforce continued to work from home for at least part of the work week and recreational travel continued to be impacted by travel restrictions and/or a general hesitancy to travel far during a pandemic. While many climate actions last year have aimed to cement those sustainable behaviours established during COVID, it is anticipated that the next inventory will show an increase in transportation emissions given the reduced travel restrictions and increased return to office work seen in 2022.

In summary, we continue to see a decrease in community-wide GHG emissions since our 2007 baseline given both our commitment to climate action and positive behaviour changes during COVID-19 that may not fully persist. However, while we are trending in the right direction, we are not yet on track to meet our targets and considerable action continues to be needed.

Key Data Updates

Multiple sources of data are used to inform the community-wide GHG inventory including, but not limited to, Statistics Canada, the [CRD Origin Destination Survey](#), ICBC data, FortisBC and BC Hydro etc. Emissions factors* are provided by the Province in the [2021 BC Best Practices Methodology for Quantifying Greenhouse Gas Emissions](#). Some key changes to data sources were used in the 2021 inventory and are outlined below.

A household oil heating survey was conducted in 2022 and indicates that there are approximately 2,500 oil-heated homes in Saanich compared with the previous estimate of 4,600 oil-heated homes. This information was used to update the 2021 GHG emissions inventory.

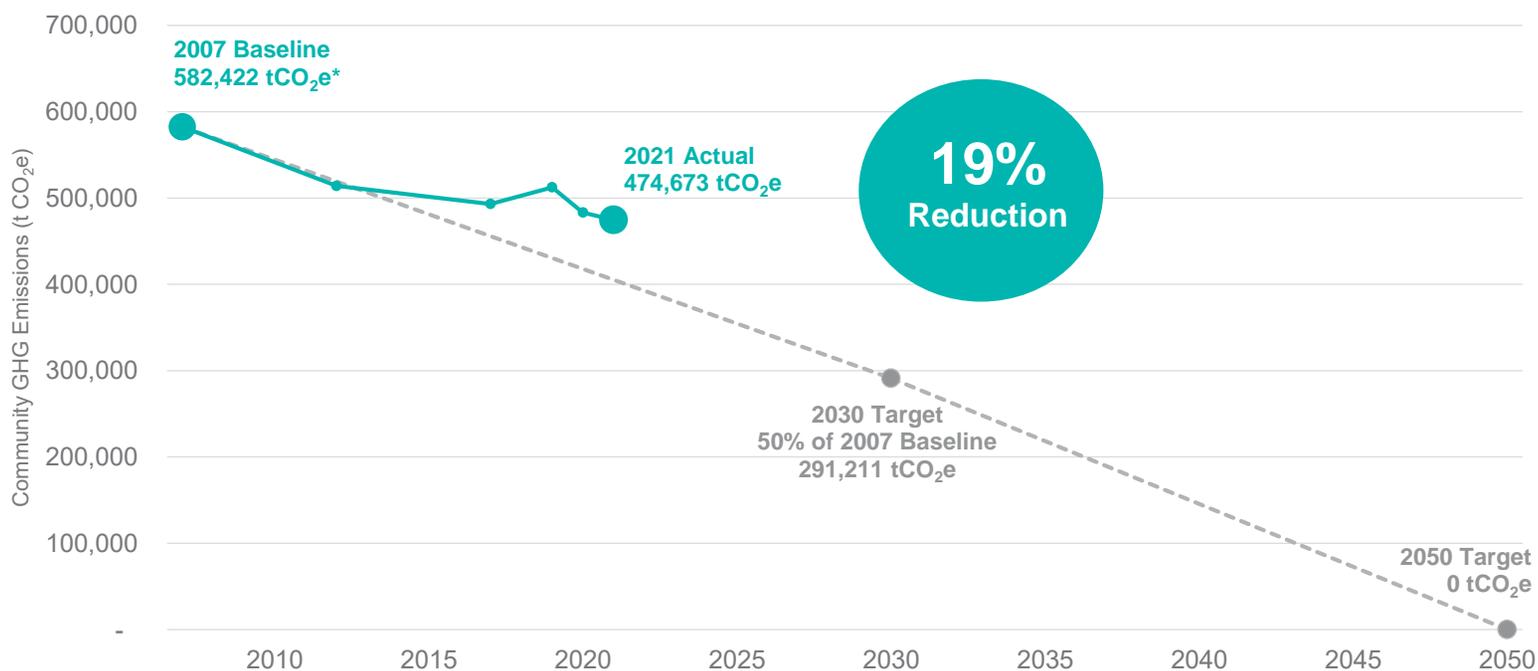
* Emissions factors are used to estimate the amount of GHG emissions per unit of fuel. There are different emissions factors for different fuel types and these are updated annually by the Province, available [here](#).

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 the Province committed to providing it in their ministerial letters. However, the data is yet to be provided and so the District of Saanich and City of Victoria conducted a VKT survey in 2022, which was used to inform the 2021 GHG inventory.

We continue working with regional partners and advocating to the Province, ICBC and utilities to acquire more frequent, reliable data at the local level to assist with reporting.

For more information on data sources and methodologies, please contact sustainability@saanich.ca.

Figure 2: Saanich Community-Wide Territorial GHG Emissions and Targets



* tCO₂e = tonnes of carbon dioxide equivalent, which is a measure of the global warming potential of greenhouse gas (GHG) emissions.

Consumption Based Emissions Inventory and One Planet Living

While the global standard for measuring city-wide climate impact is the territorial GHG emissions inventory (Figure 2), 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 Saanich.

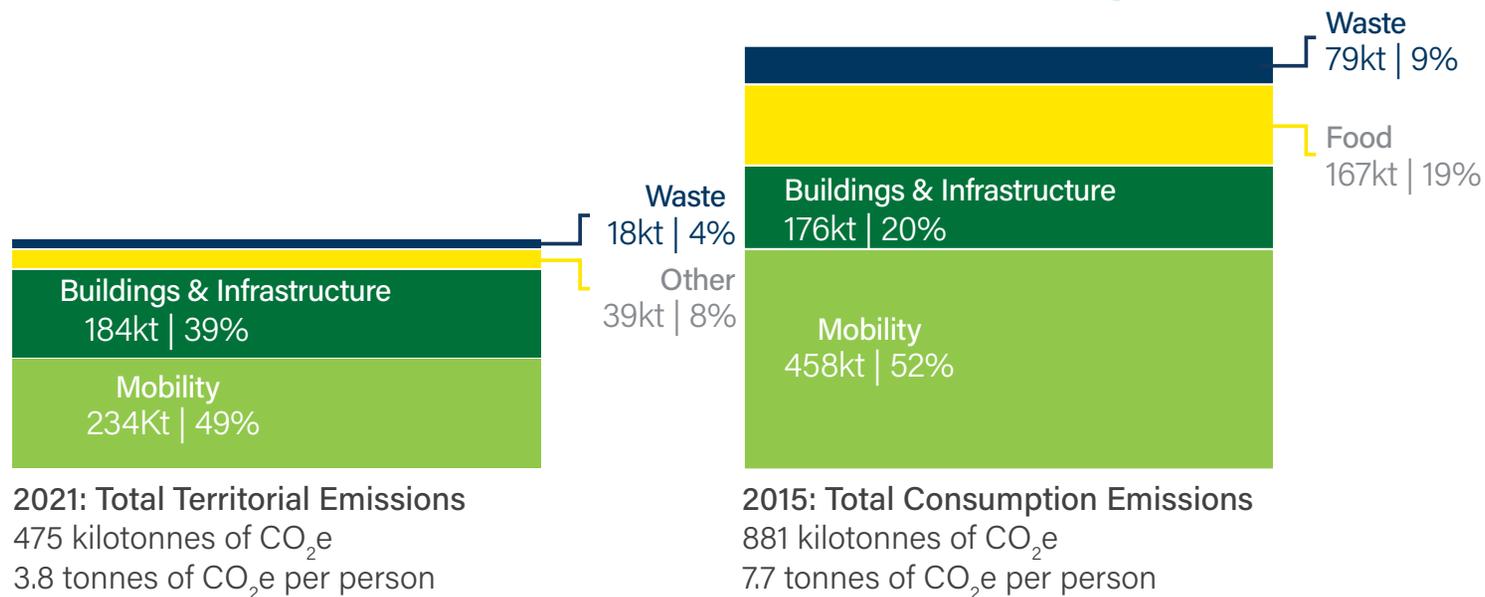
Most of the goods we consume in Saanich are produced in other regions and countries. In order to better understand the climate impact of our consumption, the Climate Plan also includes a Consumption Based Emissions Inventory (CBEI) and actions to reduce it. The last CBEI was completed in 2015 and shows our consumption based emissions are almost double what we report in our territorial emissions inventory (Figure 3). Work has commenced on updating our CBEI alongside our ecological footprint in time for our next Climate Plan report card.

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. More information on One Planet Living and the list of principles can be found at oneplanetbc.com.

Figure 3: Saanich GHG Inventories: Territorial vs. Consumption Based Emissions





Progress on Objectives

Table 1: Progress on Objectives

KEY FOCUS AREA	MEASURE OF SUCCESS (OBJECTIVE)	WHERE WE ARE AT	2030 TARGET	2050 TARGET
 Mobility	 % of all trips taken by walking and cycling	13%	22%	30%
	 % of trips taken by transit	10%	14%	20%
	 % of personal vehicles that are electric	3%	36%	100%
	 % of commercial vehicles that are electric	6%	-	50%
	 % of remaining transport fuel that is “biofuel”	5%	10%	100%
	 % of buses that are electric	0%	100%	100%
 Buildings and Infrastructure	 New buildings that achieve the higher steps of BC Energy Step Code	0%	100% by 2025	100%
	 New buildings that are net-zero carbon (defined as all-electric space and hot water heating)	23%	100% by 2030	100%
	 Embodied emissions are reported and lowered*	0%	100%	100%
	 % of residential oil heating systems replaced by heat pumps since 2017	22%	100%	100%
	 Building space heating demands are reduced by 30%	Emissions increased from baseline	40%	80%
	 % of existing natural gas heating systems that are replaced by renewable energy systems	1.6%	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/climate_plan

KEY FOCUS AREA	MEASURE OF SUCCESS (OBJECTIVE)	WHERE WE ARE AT	2030 TARGET	2050 TARGET
 Food and Materials	 Saanich's consumption-based emissions related to food are reduced	Metrics to be developed		
	 0% of compostable organic waste and paper that is landfilled	19% organics 16% paper	0% 0%	0% 0%
	 Agricultural land is protected: Hectares of land in Saanich within the Agricultural Land Reserve (ALR)	1,843 ha	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	1,478 ha 14%	TBD	TBD
	 The majority of local farmers have the ability to adapt their production practices to a changing climate	Metrics to be developed		
 Ecosystems	 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		
 Community Well-being	 Emergency and community health services are adequate to respond to the 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		
 Leadership in District Operations	 The District of Saanich is a recognized leader in climate action: Carbon Disclosure Project (CDP) report score	A	A	A
	 Reduction in GHG emissions from municipal operations compared to 2007 levels	21%	50% by 2025	100% by 2040

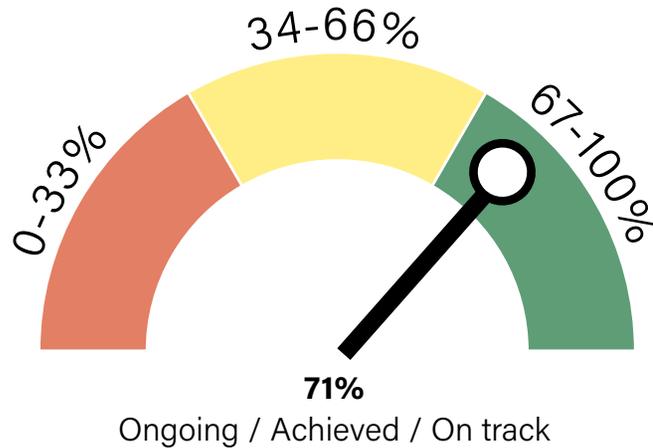
Progress on Actions

The Climate Plan identifies a total of 131 actions to be implemented over the coming years, of which 96 were due to be initiated by 2022. Saanich staff have evaluated the status of those actions based on the descriptions in Table 3. Of the 96 actions due to be initiated by 2022, 68 (71%) are Ongoing, Achieved, or On Track, with an additional five actions

from future years Ahead of Schedule. Twenty-eight (29%) of the actions are currently Behind Schedule or On Hold (Figure 4).

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

Figure 4: Progress on all 2020 - 2022 actions



- 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 in Figure 5. As stated in the introduction, these actions are under the District’s control. However, we require action from everyone, in particular, high levels of government, if we are to achieve our climate targets.

Council approved seven First Priority Actions to shift away from business as usual and respond quickly and effectively to the Climate Emergency. These First Priority Actions include the following:

Figure 5: 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
68% of actions are Ongoing / Achieved / On track	77% of actions are Ongoing / Achieved / On track	33% of actions are Ongoing / Achieved / On track	75% of actions are Ongoing / Achieved / On track	92% of actions are Ongoing / Achieved / On track	53% of actions are Ongoing / Achieved / On track

Table 2: First Priority Actions Status

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	Behind schedule
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 2020-2022 Ongoing or On track and three 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	Three of four actions identified for 2020-2022 Ongoing or 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	Seven of eight actions identified for 2020-2022 Achieved, Ongoing or On track and one Behind schedule

Table 3: 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

Mobility Summary

The latest 2021 community-wide GHG inventory shows a 25% reduction in Saanich’s transportation GHG emissions since our 2007 baseline. In order to meet our 2030 targets we should have seen a 30% reduction by 2021 and, therefore, we are not currently on track to meet our transportation emission targets.

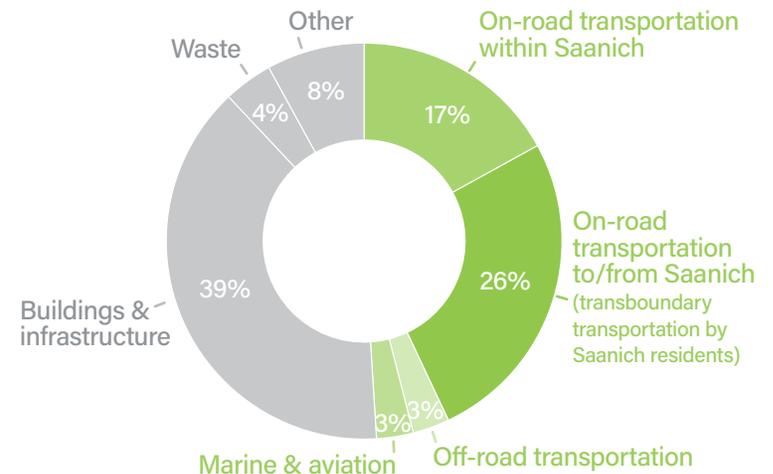
The 2021 inventory continues to demonstrate the impact of travel restrictions and a move to work-from-home first seen in 2020 with COVID-19. However, there was a 5% increase in emissions in 2021 compared with the 2020 inventory, likely with a partial return to the office for at least some employers in addition to reduced travel restrictions.

While we await updated mode share data from the regional origin-destination survey, due in 2023, considerable efforts continue to be made to support active transportation. This has included new and upgraded sidewalks, bike-lanes, bus shelters, transit priority measures and quick-win infrastructure measures to deliver on the [Active Transportation Plan](#). In addition, key programs such as the [Ready Step Roll](#) and [Community E-bike Incentive Pilot Program](#) are delivering showcase examples of leadership on both climate and equity goals. Most importantly on this front is the necessity to direct growth in a climate supportive manner, along frequent/rapid transit corridors and AAA bike networks. This is being supported by the updated OCP and the Centre, Corridor and Village (CCV) workplan.

Transit ridership is slowly recovering following COVID-19, supported by efforts to improve service through implementation of the [RapidBus](#) plan, transit priority measures and approval of a new tap fare system expected in 2023. The commitment to a 100% electric fleet by the Victoria Regional Transit Commission will support further emissions reductions in the coming years.

The growth in electric vehicles (EVs) continues, supported by an expanding public charging network, EV charging infrastructure requirements in new builds, top-up incentives for EV ready plans and infrastructure in Multi-Unit Residential Buildings (MURBs) and major awareness campaigns. Challenges related to market supply continue. Of the 36 actions in the [Electric Mobility Strategy](#) due to start by 2022, 28 (78%)

Figure 6: Transportation emissions in Saanich Territorial GHG Inventory, 2021



In reference to the new Tillicum bike lanes:
"I primarily drive this route but I am also a casual cyclist especially with children and these bike lanes have me certain I will purchase an e-bike to get one more car off the road."

Nicole McKenzie,
 Capital Region resident.

are Ongoing, Achieved or On track with eight (22%) Behind Schedule or On Hold.

Of the 19 Mobility actions in the Climate Plan due to start by 2022, 13 (68%) are Ongoing, Achieved or On track but six (32%) are Behind Schedule or On hold. These delays are primarily related to cost escalations, budget constraints and staff resource restrictions (see Appendix). An update on the acceleration of the [Active Transportation Plan](#) will be presented to Council in 2023, which will provide further information.



Photo credit: Philip Marciniak

“One of my businesses is a home repair service and I render virtually all of my jobs by cargo bicycle. Cycling on Tillicum road in Saanich used to be a frightening white-knuckle experience. I now breathe a sigh of relief and ease my grip when I enter the newly protected portions of Tillicum. The difference is night and day.”

Philip Marciniak, Saanich resident and business owner

Table 4: Progress on Mobility GHG Emissions Targets - Not on Track

Baseline:	In 2007, Saanich's transportation emissions were	310,790	t CO ₂ e	Baseline
Latest measurement:	As of 2021, Saanich's transportation emissions were	233,826	t CO ₂ e	25% lower than baseline
Where we should be:	As of 2021, Saanich's transportation emissions should be	216,202	t CO ₂ e	30% lower than baseline
2030 target:	As of 2030, Saanich's transportation emissions should be	155,395	t CO ₂ e	50% lower than baseline

Table 5: 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 that are electric	2%	2020	3%	2021	36%	100%
% of commercial vehicles that are electric	-	-	6%	2021	-	50%
% of remaining transport fuel that is biofuel	5%	2020	5%	2022	10%	100%
% of transit buses that are electric	0%	2018	0%	2021	100%	100%

Table 6: Progress on Electric Mobility Strategy Metrics

Metric	Where we were		Where we are at	
	Status	Year	Status	Year
EVs in Saanich by use				
• # of EVs for personal use (% of all vehicles registered for personal use)	1,362 (2%)	2020	1,766 (2.9%)	2021
• # of EVs for business use (% of all vehicles registered for business use)	213 (2.1%)	2020	264 (5.9%)	2021
EVs in Saanich by vehicle class				
• # of passenger/light duty EVs (% of passenger vehicle registrations)	730 (11%)	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
Municipally owned public EV charging station use				
• # of Saanich-owned public EV charging stations	32	2021	32	2022
• Total hours of use annually	18,198 hours	2021	25,951 hours	2022
• Average daily hours of use per station in each calendar year	2.3 hours	2021	2.2 hours*	2022
• Total electricity use annually	87,504 kWh	2021	120,015 kWh	2022
• Average daily electricity use per station in each calendar year	11.3 kWh/day	2021	10.3 kWh/day*	2022
Saanich-wide public EV charging network				
• # of level 2 public EV charging stations	91	2021	106	2022
• # of DCFC public EV charging stations (includes Tesla superchargers)	26	2021	26	2022
Availability of at-home charging in multi-family buildings				
• # of multi-family buildings that have installed EV Ready infrastructure for all units	8	2021	5 (13 cumulative)	2022
• # of parking stalls in existing multi-family buildings that have been retrofitted to become 100% EV Ready (all units)	73	2021	255 (328 cumulative)	2022
Saanich fleet				
• # of Municipal Fleet vehicles electrified/renewable (% of municipal fleet)	25 (14%)	2021	27 (15%)**	2022
• # of Fire Fleet vehicles electrified/renewable (% of fire fleet)	1 (3%)	2021	1 (3%)	2022
• # of Police Fleet vehicles electrified/renewable (% of police fleet)	1 (1%)	2021	3 (4%)	2022

* First full year that all 32 public charging stations were online. Therefore, while the total hours and kWh are higher, this amount is spread over these stations so the hours of use and kWh/station is lower.

** 100% of Municipal Fleet light duty cars are electric.



The District of Saanich opened 20 new level 2 public electric vehicle (EV) charging stations to make it easier for Saanich residents to drive EVs in the community and ensure access to charging on the go. We now have 32 Saanich-owned public EV charging stations with nearly 30,000 hours of use in 2022.

E-Bike Incentive Program

The first of its kind among e-bike incentive programs in BC, the [Saanich Community E-bike Incentive Pilot Program](#) distributed incentives to 389 residents for e-bikes for personal transportation in 2021 and 2022. E-bikes make cycling more possible for more people for more types of trips, and also help with affordability. They have the potential to help accelerate GHG emission savings from transportation and increase active transportation mode share.

Designed in collaboration with the Greater Victoria Community Social Planning Council (CSPC) and researchers at the UBC Research on Active Transportation (REACT) Lab, the program incorporated equity into program design by providing larger incentives for lower income households, and participants were invited to join an academically rigorous study on the impact of incentives and e-bikes on transportation choices and GHG emissions.

Interim results clearly demonstrate that the e-bike incentive pilot is successfully delivering against the program objectives. It has motivated new e-bike purchases and participants are using their e-bikes to replace vehicle trips. It is succeeding in reducing GHG emissions while delivering multiple co-benefits such as improved affordability and exercise levels. Final study results are expected in late 2023. Saanich received many inquiries about the pilot from other interested municipalities and the program was very popular with residents.

Participant feedback about the E-bike Incentive Pilot Program:

"This program is such a great idea, brilliant. It will help people my age get out and about. If I had a bike I'd get out a lot more. It's too far to get to the beach by bus, and walking hurts, but cycling is gentle with an e-bike on my arthritis and I would get out a lot more."



Trying out e-bikes at the Intercultural Association's (ICA) Climate-friendly Transportation event

Photo credit: ICA



Buildings and Infrastructure



Image credit:
Power to Be

The new Prospect Lake facility is an expression of non-profit Power to Be's core values of respect for the environment and inclusion for all. The building is aiming for Living Building Challenge Petal Certification. It is designed to be highly efficient and runs on renewable energy, including geothermal space heating and a solar PV with battery backup system. It is also designed to be highly accessible using Rick Hansen Foundation principles.

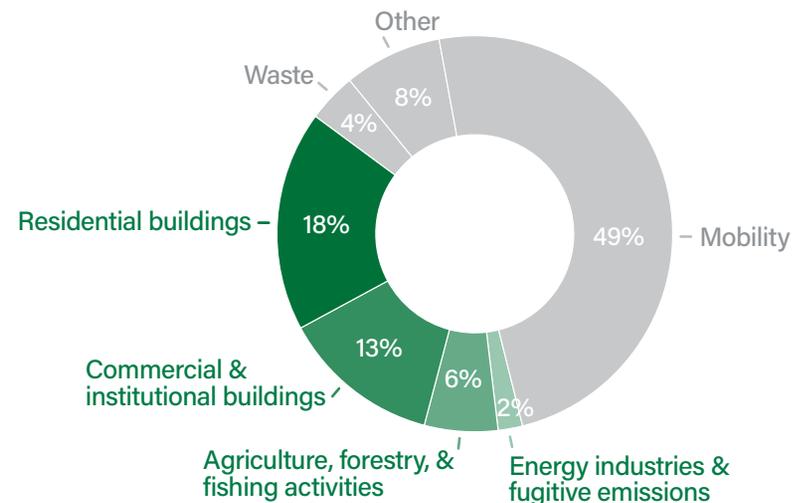
Buildings & Infrastructure Summary

The latest 2021 community-wide GHG inventory indicates that there has been an 11% reduction in Saanich's building and infrastructure GHG emissions since our 2007 baseline. In order to meet our 2030 targets we should have seen a 30% reduction by 2021. Therefore, we are not currently on track to meet our building emissions targets.

In 2020 we had seen an increase in emissions compared with previous years, mainly due to a shift to work-from-home during COVID-19 and a considerable increase in the 2020 electricity emissions factor. While there was a reduction in emissions in 2021 compared with 2020, a key reason for this was due to a reduction in the 2021 electricity emissions factor. Building energy use actually increased between 2020 and 2021, including a 6% increase in natural gas consumption for both residential and commercial buildings (Table 8).

Of the 31 Buildings & Infrastructure actions in the Climate Plan due to start by 2022, 24 (77%) are Achieved, Ongoing or On Track and an additional four from future years are Ahead of Schedule. Seven actions (23%) are Behind Schedule.

Figure 7: Building and Infrastructure emissions in Saanich Territorial GHG Inventory, 2021



New Buildings

In 2022, Council adopted an approach to implement low and zero carbon requirements for new construction using the new [Provincial Zero Carbon Step Code Standard](#). This will result in all applicable new buildings being net zero carbon by 2025. This delivers on a key climate action and ensures that these new buildings do not become part of the future existing building stock that need energy retrofits.

Existing Buildings

Saanich continues to see some of the highest uptake of home energy upgrades and fuel switching rebates province wide. This has been supported by our incentive top-ups, major communications campaigns and the launch of the [Home Energy Navigator](#) with the CRD and regional partners in 2022, providing end-to-end support for homeowners throughout the retrofit journey. In addition, there was ongoing support for larger commercial and residential building retrofits through multiple programs, including the [Greater Victoria 2030 District](#), the design of a Strata Energy Advisor program to launch in 2023 and the design of a Revitalization Tax Exemption program recently presented to Council.

Other improvements included the long-awaited federal [Canada Greener Homes Loan Program](#). However, equitable access to this program remains an issue in addition to a lack of access to data for both provincial and federal rebate programs.

Saanich launched the innovative [Oil to Heat Pump Financing Pilot](#) in 2022 and Council will consider a resource request for a green revolving fund as part of the 2023 budget in order to continue with this successful program. The absence of provincial Property Assessed Clean Energy (PACE) financing legislation means BC municipalities are unable to access significant federal funding available to support such programs. Saanich continues to advocate to the Province, stressing the value of this legislative amendment. Other Provincial commitments that would support building emissions reductions include a Building Alterations Code to trigger more efficiency upgrades, Equipment Efficiency Standards and Energy Labelling. However, some of these

are delayed and staff continue to push for strong regulation and timely implementation from the Province.

Despite efforts to date, the data clearly demonstrates that much more is needed to address the continued increase in natural gas connections and consumption in buildings, 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 the best and most efficient industrial uses and hard to electrify sectors.

Staff are in the process of finalizing a Community Building Retrofit Strategy that will model the current and proposed programs and legislation against our 2030 and 2050 building emissions targets. This will be shared with Council and the Province in 2023 and is expected to clearly communicate the critical need for Provincial legislative changes and will provide a funding plan for the implementation of Saanich actions.

Infrastructure

This section of the Climate Plan also speaks to the resiliency of our infrastructure and assets. Work continued in 2022 on the Saanich [Asset Management Strategy, Integrated Stormwater Management Plans](#) (ISMP) and Enterprise Risk Register, which each embed climate considerations. A one-time resource request for the 2023 portion of the ISMP funds will be included in the upcoming budget. The Water Supply Master Plan and Sewer Master Plans were updated in 2022 and both contain recommended capital programs for system growth and renewal, due to be presented to Council in 2023. Rainfall Intensity-Duration-Frequency (IDF) curves have been updated incorporating more recent rainfall data from across the District with a climate change adjustment. These curves will be part of the Engineering Specifications and Subdivision Bylaw project that is currently in progress. Work will commence in 2023 on the updated climate projections from the CRD, which will inform an updated climate risk assessment and further analysis of climate risks on our assets.

Table 7: Progress on Buildings and Infrastructure GHG Emissions Targets - Not on Track

Baseline:	In 2007, Saanich's building and infrastructure emissions were	206,509	t CO ₂ e	Baseline
Latest measurement:	As of 2021, Saanich's building and infrastructure emissions were	184,146	t CO ₂ e	11% lower than baseline
Where we should be:	As of 2021, Saanich's building and infrastructure emissions should be	143,658	t CO ₂ e	30% lower than baseline
2030 target:	As of 2030, Saanich's building and infrastructure emissions should be	103,255	t CO ₂ e	50% lower than baseline

Table 8: 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	0%	2022	100% by 2025	100%
New buildings are net-zero carbon (defined as all-electric space and hot water heating)	Unknown	2018	23%	2022	100%	100%
New Part 9 buildings that installed a heat pump and can provide cooling	Unknown	2018	73%	2022	100%	100%
Existing residential oil heating systems replaced by heat pumps annually (cumulative % removed since 2017)	62 (5%)	2019	159 (22%)	2022	100%	100%
Existing residential natural gas heating systems replaced by heat pumps annually (cumulative % removed since 2017)	11 (0.1%)	2019	203 (1.6%)	2022	40%	100%
Total natural gas connections (Residential)	14,649	2018	16,558	2021	8,789	TBD
Total natural gas consumption (Residential)	731,870 GJ	2018	900,271 GJ	2021	TBD	TBD
Total natural gas connections (Commercial)	930	2018	965	2021	558	0
Total natural gas consumption (Commercial)	825,369 GJ	2018	869,187 GJ	2021	TBD	TBD
Building space heating demands are reduced by 30%	2,873 TJ	2018	2,980 TJ	2021	2,011 TJ	TBD
Renewable Natural Gas use in buildings (as a % of all natural gas used)	0.1%	2017	0.46%	2021	-	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					



The new Student Housing and Dining project at UVic is providing a total of 783 student spaces. Designed to meet LEED V4 Gold and Passive House standards, these buildings demonstrate UVic's commitment to climate action and sustainability. Elders from the Songhees and Esquimalt Nations have guided the project team to incorporate Indigenous design elements and teachings. The building includes mass-timber and uses electric rather than natural gas powered commercial kitchen equipment.

Photo credits: UVic Photo Services



The new menu at the Student Housing and Dining project is vegan by default, which reduces the climate impact of food served.



Food and Materials

LOVE FOOD hatewaste

63%
of food waste at home is avoidable.



CRD

check out:
lovefoodhatewaste.ca
for tips on saving food & wasting less

This year's Love Food Hate Waste contest on social media had 109 participants and over 5,200 views! Residents submitted their favourite ways to reduce food waste at home, which is an important way to reduce the climate impact of food. Winners received \$100 grocery store gift certificates.

Food and Materials Summary

The community-wide GHG inventory 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, there has been a 56% reduction in Saanich's waste emissions since our 2007 baseline, primarily due to the [Greener Garbage program](#), landfill methane capture, the biological treatment of waste and changes in emissions factors.

While this progress is positive, it should be noted that the amount of waste going to landfill per person is increasing and is still far from the regional waste targets. 100% organics waste diversion is required to meet our climate targets and this remains the largest component of waste sent to landfill, despite the [Love Food Hate Waste](#) campaign that continued in 2022. However, a comprehensive Zero Waste Strategy that ties closely with the regional [CRD Solid Waste Management Plan](#) is necessary to meet our climate and waste targets. It is expected that this work will commence in 2023, resource request dependent, and will be informed by the updated regional waste composition study, due early 2023.

While waste is a relatively small portion of our territorial GHG emissions inventory, food and materials play a much greater role in our Consumption Based Emissions Inventory (CBEI). The last CBEI is from 2015 and an update is underway to inform the next Climate Plan report card. Local food production also plays a key role in climate resiliency and is likewise heavily impacted by climate changes. The impacts of climate related extreme weather events on local agriculture are still being assessed. While several of the Agriculture and Food Security Plan climate actions stalled in 2022 given staff changes and resources, Saanich did initiate a Food Hub Feasibility Study with funding support from the BC Ministry of Agriculture, which will benefit both our local food system and local economy.

The desire to address waste and consumption is strong in Saanich, demonstrated by community support for banning single use plastics and the commitment to local food production. However, of the six Food & Materials actions due to be initiated by 2022, only 2 (33%) are Ongoing, On Track or Achieved, and 4 (67%) are Behind Schedule. This is primarily due to resource limitations and staffing changes in 2022. Several resource requests aim to address this shortfall and bring these actions back on track in 2023 and beyond.

Figure 8: Food and Materials emissions in Saanich Territorial GHG Inventory, 2021

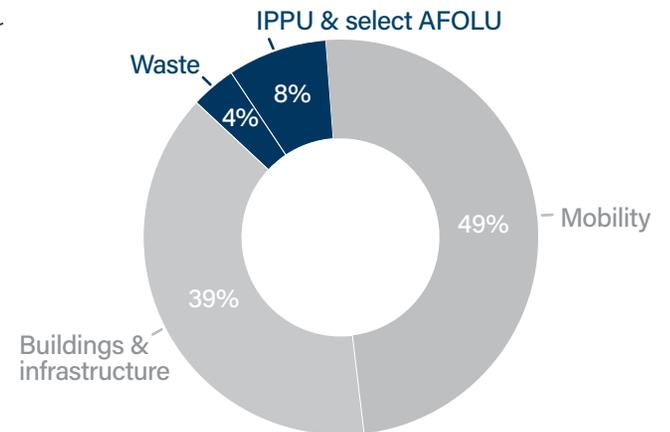


Table 9: Progress on Waste GHG Emissions Targets

- On Target

Baseline:	In 2007, Saanich's emissions from waste were	40,134	t CO ₂ e	Baseline
Latest measurement:	As of 2021, Saanich's emissions from waste were	17,560	t CO ₂ e	56% lower than baseline*
Where we should be:	As of 2021, Saanich's emissions from waste should be	27,919	t CO ₂ e	30% lower than baseline
2030 target:	As of 2030, Saanich's emissions from waste should be	20,067	t CO ₂ e	50% lower than baseline

* Note: although waste emissions reductions appear to be ahead of schedule, these savings were mainly achieved before the Climate Plan modelled pathway was completed. So most of the emissions savings were already assumed in the Business as Usual scenario when planning the additional actions that were needed.

Table 10: 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	New data expected 2023		TBD	TBD
Amount of waste landfilled per person per year	395 kg/person/year	2020	400 kg/person/year	2021	250 kg/person/year	125 kg/person/year
0% compostable organic waste is landfilled	21%	2016	19%	2022	0%	0%
0% compostable paper is landfilled	15%	2016	16%	2022	0%	0%
Agricultural land is protected: Hectares of land in Saanich within the Agricultural Land Reserve (ALR)	1,843 ha	2018	1,843 ha	2022	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



The District is developing an arboretum at Quick's Bottom. Trees, shrubs, and plants for the arboretum were selected to create new bird, butterfly, and wildlife habitat, contributing to Saanich's certification as one of Canada's only Bird Friendly Cities. Tree collections on site will be used to assess tree resilience and response to climate change. To date the following have been planted: 200 trees (75% native), 525 native shrubs, and 2,000 native plants.

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. Actions such as tree planting and ecosystem restoration may increase carbon sequestration, while events such as wildfires and tree removal could release emissions. There are issues with the quality of AFOLU data that will be explored in 2023, but generally emissions have increased since our 2007 baseline given land use changes over time.

Beyond carbon sequestration, ecosystems and natural areas deliver a suite of other 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, including recreation and 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.

Whereas the methodology for calculating GHG emissions is well established and climate mitigation actions are supported by considerable grants, the methodologies for quantifying ecosystem services are more complex, less standardized and dependent upon extensive and regularly updated data with little grant funding support. Despite this, natural assets and ecosystem services are currently being embedded within the development of the Saanich Asset Management Strategy and Plans, and are a key consideration in the development of the Biodiversity Conservation Strategy and the updated Urban Forest Strategy both due in 2023 and the Integrated Stormwater Management Plan (ISMP), which is ongoing. This is being supported by our participation in the Municipal Natural Assets Initiative (MNAI) workshops and training.

2022 saw the completion of several key projects that protect, enhance and expand our natural areas, supported by multiple organizations and many volunteers. Efforts also continued on multiple education and awareness campaigns such as the [Natural Intelligence](#) and [Pulling Together](#) programs.

Of the 12 Ecosystem actions due to start by 2021, nine (75%) are Ongoing, Achieved or On track, but three (25%) are Behind Schedule. It is hoped that the Environmental Policy Framework and Biodiversity Conservation Strategy will support the development of appropriate metrics and data sets for this section of the Climate Plan, ready for the next report card.

Table 11: 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

Photo credit: Laurie Jones



A native plant garden at Wascana and Burnside was planted by volunteers working with the Gorge Tillicum Community Association's Natural Areas Working Group. The flowers and plants will provide food and habitat for native pollinators. The garden was developed through a collaboration with the UVic Community Mapping Class and is part of a larger Gorge Tillicum Pollinator Project.





Community Well-being

Community Well-being Summary

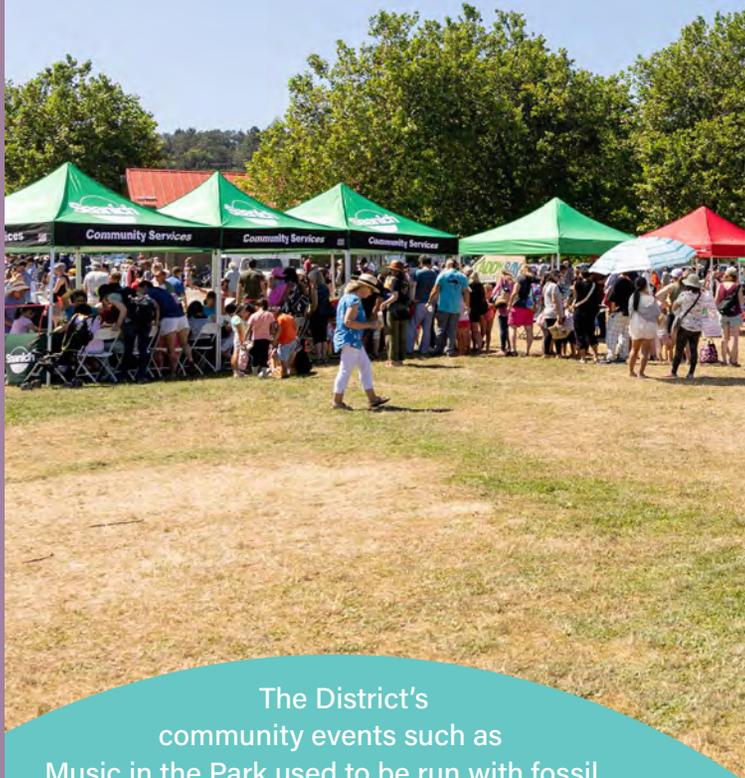
This section focuses on the ability of people and organizations to be resilient to climate change and empowered to take climate action. The need for this has become greatly apparent in recent years with unprecedented heat waves, wildfires and flooding across BC, impacting health, destroying infrastructure and property, disrupting supply chains and resulting in millions of dollars of damage.

Several actions were undertaken in 2022 to empower the public and support climate preparedness, including the [Online Climate Action workshop series](#), [Neighbour to Neighbour \(N2N\) program](#), [Emergency Preparedness program](#), [Natural Intelligence program](#), [One Planet Saanich](#), [One Planet School Challenge](#), [BCSEA CoolIt! program](#) and presentations to community groups and educational institutions. Saanich Earth Day Festival was held in person again in April 2022 with great attendance and feedback.

In 2022 Saanich collaborated with the CRD and regional partners on a successful grant application for the development of a regional urban heat map and dashboard, expected to be complete in 2023. This will be used to inform extreme heat plans and policies. Heat pump installations at smaller Saanich buildings, such as the Hampton Park Lawn Bowling Club House, now provide cooling in the summer. Increased cooling and filtration are being incorporated into designs for upgrades at Les Passmore, G.R. Pearkes and Cedar Hill Recreation Centre and a resource request to design upgrades to a heat pump with cooling at the Municipal Hall is included in the 2023 budget. An inventory of corporate facilities and cooling/air filtration provision and needs is underway.

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. We collaborated with multiple regional partners to embed equity in our climate work in 2022, including the Community Social Planning Council on their [Transportation Access Climate and Economic Security \(TACES\)](#) project and the implementation of the [Saanich Community E-Bike Incentive Pilot Program](#) and the [Oil to Heat Pump Financing Program](#). Further progress was made on the Saanich Diversity, Equity and Inclusion Strategic Plan, expected to be finalized in 2023 and used to further inform climate action. Sustainability staff undertook Indigenous Perspectives training to support future collaboration on climate action with local First Nations, including working on climate related priorities identified within the WSÁNEĆ Leadership Council and District of Saanich ÁTOL,NEUEL (“Respecting One Another”) Memorandum of Understanding.

13 Community Wellbeing actions were identified to commence by 2022 with 12 of these (92%) Ongoing, On track or achieved. Metrics are expected to be developed to monitor and report on outcomes in the coming years.



The District's community events such as Music in the Park used to be run with fossil fuel generators, but are now quieter with better air quality thanks to a switch to electric generators.

Table 12: 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



The first annual One Planet Student Challenge welcomed videos and illustrations from over 90 students across the region showcasing their vision of how One Planet Living can thrive in our communities and personal lives. Students shared inspiring and practical ideas and projects about sustainable living.

Art credit: Ava Bate



Leadership in District Operations



Two new all-electric Ford F-150 Lightning pickup trucks joined the Saanich fleet in 2022. They will reduce the District's carbon emissions and save on fuel costs. They are the first electric pickup trucks in the Saanich fleet. The units are unique, featuring a power on-board system that allows the vehicle battery to power and charge tools on job sites. This allows us to further decrease our corporate fuel consumption by reducing reliance on fossil fuel generators and brings us closer to our goal of being carbon neutral by 2040. Reducing our reliance on noisy generators also creates quieter job sites.

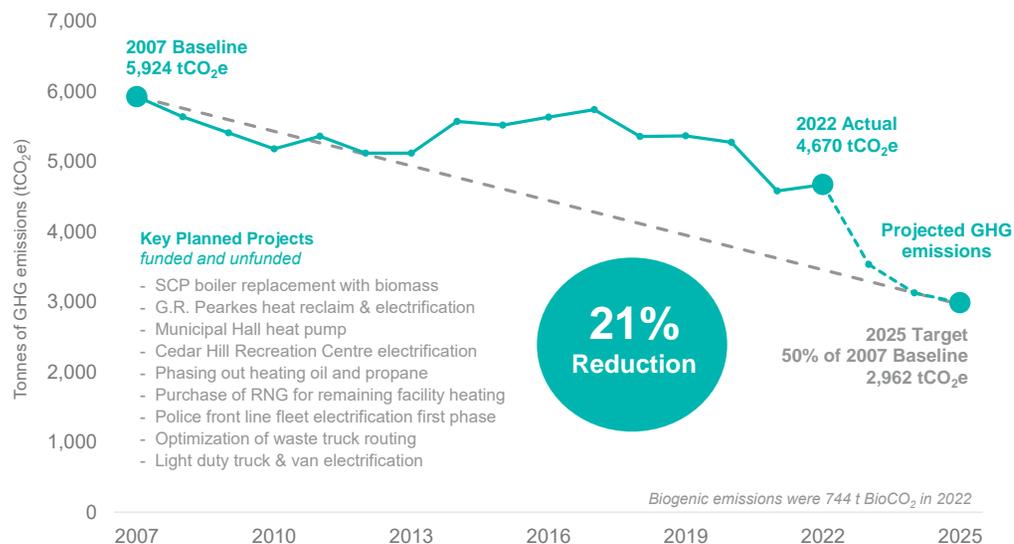
Leadership in District Operations Summary

The 2022 corporate greenhouse gas (GHG) emissions inventory shows a 21% reduction in Saanich's GHG emissions since our 2007 baseline (Figure 9 and Table 13). If we are to meet our 2025 targets, we should have seen a 42% reduction in our corporate GHG emissions compared with our 2007 baseline by 2022. As such, we are not on track to meet our corporate GHG emissions targets.

Building emissions saw an increase over the last year, mainly due to ageing mechanical systems requiring considerably greater energy use, which was countered somewhat by energy reductions from facility closures as systems were upgraded. Fleet emissions also saw a slight increase in 2022, mainly due to greater diesel fuel use in the Fire Department given an increase in call volume and in-person training. The 2022 inventory was also impacted by a slight increase in electricity emissions factors.

Eight of the 15 Leadership in District Operations climate actions (53%) identified to start by 2022 are On track, Ongoing or Achieved. Several that are Behind Schedule are due to get back on track during 2023 and 2024 with support from new staff, including the Zero Emissions Fleet strategy and the climate friendly commuter program.

Figure 9: District of Saanich Corporate GHG Emissions



Fleet electrification progressed in 2022 with the installation of Level 2 electric vehicle (EV) chargers at multiple sites with grant funding support from NRCan, the delivery of two electric light duty trucks and orders placed for electric vans due to be delivered in 2023. Feasibility, design work and grant applications continue to support the future electrification of our front-line police vehicles and medium- and heavy-duty fleet.

Two major grant applications were approved in 2022; \$2.4 million from the Green and Inclusive Community Building Program for energy and accessibility upgrades and electrification at Cedar Hill Recreation Centre, and \$2.9 million from CleanBC Community Grant - Investing in Canada Infrastructure Program for the Pearkes heat reclaim project. Both projects will see major GHG emissions reductions and conversion to renewable energy and are due to be delivered by 2025. Mechanical system upgrades to a biomass boiler at Saanich Commonwealth Place are underway and expected to be operational in 2023. The Public Safety building lighting upgrade was completed alongside other building efficiency improvements and the Saanich Operations Centre business case was approved by Council with an expectation that this will be an energy and climate resiliency showcase for the District.

Several planned projects are projected to help Saanich reach our 2025 corporate emissions targets as outlined in Figure 9 and there are several resource requests in the 2023 budget needed to support these emissions reductions, including the Municipal Hall heat pump design and the Solid Waste Collection Routing Project. While it will take considerable effort to reach our goal of zero carbon by 2040, future work must also focus on embodied emissions, zero waste and the conservation and enhancement of biodiversity and ecosystem services.

Saanich Fire Department adopted more idle reduction technologies for their fire engines this year. Pictured below is electric battery powered life saving equipment, just part of the move away from fossil fuel equipment the Fire Department has been making over the past several years. This not only reduces GHG emissions, but also local air and noise pollution.



Table 13: Progress on Leadership in District Operations Targets

- Not on Target

Baseline:	In 2007, Saanich's corporate emissions were	5,924*	t CO ₂ e	Baseline
Latest measurement:	As of 2022, Saanich's corporate emissions were	4,618	t CO ₂ e	21% lower than baseline
Where we should be:	As of 2022, Saanich's corporate emissions should be	3,456	t CO ₂ e	42% lower than baseline
2025 target:	As of 2025, Saanich's corporate emissions should be	2,962	t CO ₂ e	50% lower than baseline

*Updated for new electricity emissions factors

Table 14: Progress on Leadership in District Operations Objectives

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

Conclusions and Next Steps

This is our third year of reporting on Climate Plan implementation and Saanich continues to see recognition for our climate action work and progress on our targets. In 2022 Saanich received the Community Energy Association's Climate and Energy Action Award and was once again declared an 'A List City' by the CDP for our climate reporting and disclosure.

Community-wide emissions have decreased by 19% since our 2007 baseline given our climate action efforts, the provincial commitment to 100% clean electricity by 2030, and positive behaviour changes during COVID-19. While many climate actions last year have aimed to cement those sustainable behaviours established during the pandemic, it is anticipated that the next inventory will show an increase in transportation emissions given the reduced travel restrictions and increased return to office work seen in 2022.

Our corporate emissions also continue to decline and 2022 saw a 21% reduction in emissions compared with our 2007 baseline. Several projects that are underway are projected to help Saanich decrease corporate emissions further and resource requests have been made as part of the 2023 budget to help reach our 2025 corporate emissions targets.

However, while we are trending in the right direction, we are not yet on track to meet our climate targets and considerable action continues to be needed. 29% of our climate actions are currently behind schedule or on hold with several new actions due to be initiated in 2023. Much of this delay is due to resource restrictions, escalating costs and legislative barriers with other orders of government. Several resource requests within the 2023 budget and opportunities for enhanced advocacy to the Province look to bring some of these actions back on track in 2023 and beyond.

We are reminded almost daily now of the devastating impacts of climate change around the globe. It is evident from the unprecedented heat waves, wildfires and floods over the last few years that BC and Saanich are not isolated from these extreme climate related weather events. This continues to underscore the importance of resiliency and the need for accelerated action in our Ecosystems and Community Well-Being focus areas. These are areas of the Climate Plan that still need metrics and indicators to be developed and are reliant on considerable data needs and analysis to understand the costs of adapting to climate change. Staff are hopeful that the completion of the Environmental Policy Framework, Biodiversity Conservation Strategy and other updated strategies in 2023 will support the development of metrics in this area ready for the next report card.



The District of Saanich and the City of Victoria have received the Community Energy Association's 2022 Climate & Energy Action Award in the Community Planning & Development category. The award is in recognition of the contribution Victoria and Saanich have made to the Greater Victoria 2030 District initiative in partnership with the Building Owners and Managers Association of BC (BOMA BC) and the University of Victoria. The 2030 District was launched in 2021 to unite the private and public sector, creating a hub of thriving high performance buildings that are reducing GHG emissions and increasing their resilience.



Appendix: Progress on Individual Actions



Appendix: Progress on Individual Actions

Progress on Mobility Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS	
<i>Strategy M1: Invest in active transportation</i>					
M1.1	Accelerate the implementation of the Active Transportation Plan	●	2020	Behind schedule	While some non-traditional construction methods have been piloted e.g. quick wins on Tillicum, only approximately 10-20% of the ATP can be delivered by these methods. Considerable cost inflation is impacting the ability to accelerate other major ATP projects. Update report to Council due Q2 2023.
M1.2	Pilot an electric bicycle incentive program	●	2020	Achieved	Program launched successfully in October 2021. All initial rebates allocated and additional incentives distributed in 2022, supported through grant funding. Interim report presented to Council Feb 2023. Final UBC study and comprehensive report expected end of 2023. Discussions with provincial staff regarding a provincial program ongoing.
M1.3	Expand the Active School Travel planning program	●	2020	On track	Ready Set Roll program led by the CRD for elementary/ middle schools - Saanich provides top-up funding to add additional schools. All Saanich schools have participated once in this program so there is the opportunity for enhancements during a second round. Expect more Saanich staff capacity following completion of the ATP update.
M1.4	Improve bike parking at existing buildings	●	2020	Behind schedule	Challenges with staff capacity caused delays in 2022. Expect to commence work on this in 2023.
M1.5	Explore integration between transit and other shared mobility providers	●	2022-2024	Future action	BCT planning and preparing for the introduction of the new fare technology platform. Users will be able to utilize a mobile app, reloadable smart card or credit/debit card in the future - this approach may support multi-modal payment systems given many may adopt similar payment approaches. The fare system updates will be phased and likely to commence in 2023.

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.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

Progress on Mobility Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
M1.6	Support bike shares and other shared mobility services	●	2020 Ongoing	Saanich has bylaws in place to support bike share programs and a couple of companies expressed interest in 2022. The provincial e-mobility pilot will conclude in 2024 and may provide updates regarding other e-mobility devices beyond e-bikes (e.g. e-scooters) that may support future shared mobility services. Staff continue to monitor.
M1.7	Support lower speed limits on residential streets	●	Underway On track	Council approved the Speed Limit Establishment Policy in July 2022, providing direction to lower speed limits on Type A (primarily neighbourhood) and Type B streets. Safe Speed Studies conducted on nine priority Type B streets during Fall 2022. Bylaw Amendments and updated signage in 2023 will put the lower speed limits into place.
<i>Strategy M2: Prioritize transit-supportive policies and practices</i>				
M2.1	Work with partners (VRTC, BC Transit) to accelerate service level improvement and increase transit mode share	●	Underway Ongoing	Implementation of RapidBus program with McKenzie Rapid Transit Study and Uptown Mobility Hub design underway and early discussions regarding bus lanes on Hwy 1 at the bridges and from McKenzie to Colwood interchange. Planning for queue jumpers at Hwy 17 and Saywood southbound underway. Northern part of UVic Exchange refreshed. Reintroduction of some service reduced during COVID and extra running time added to accommodate for increased traffic. Extension of routes to Tillicum Mall.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

Progress on Mobility Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
M2.2	Support increased residential density along public transit routes	●	2021-2022 Ongoing	The Official Community Plan (OCP) update and Centre, Corridor and Village (CCV) workplan are underway. Uptown Douglas Plan was approved early 2022 and McKenzie-Quadra Area Plan has started. These direct growth in a climate supportive manner, along frequent/rapid transit corridors and AAA bike networks. OCP to include updated population projections, ecological footprint metrics and potential growth targets, which further supports climate action.
M2.3	Make transit travel time-competitive	●	2021-2022 Ongoing	The focus on growth and density along rapid and frequent transit corridors with the OCP update and CCV plan makes transit more time-competitive. Short bus queue jumper lanes and other transit priority measures are incorporated into infrastructure projects e.g. Tillicum quick build project.
M2.4	Investigate and consider updating off-street parking requirements to support a mode shift towards active transportation	●	2021-2022 Behind schedule	Challenges with staff capacity caused delays in 2022. This project is expected to commence in 2023.
M2.5	Advocate for increased funding for transit service expansion and improvement	●	2020-2022 Behind schedule	The Regional Transportation Priorities working group was established in 2021 and transit and active transportation were identified as top priorities - advocacy work initiated. Transit ridership is still in recovery following COVID. While there was a reintroduction of some service reduced during COVID and extra running time added to accommodate for increased traffic, no expansion hours were requested in 2022.
M2.6	Advocate for climate-informed ride hailing regulations	●	2020-2022 On hold	There is limited control at the municipal level and advocacy to the Province has stalled due to staff resource restrictions.
M2.7	Work with BC Transit to incorporate latest best practices and new technology needs	●	2022-2024 Future action	Work on this action will commence in 2024 dependent upon staffing resources.
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	
<i>Strategy M3: Accelerate electric and renewable mobility</i>					
M3.1	Create a community-wide Electric Mobility Strategy	●	Underway	Achieved	Electric Mobility Strategy adopted by Council in November 2020. See E-Mobility Strategy Actions for progress on implementation (p.32-p.39).
M3.2	Require EV-ready infrastructure for new development	●	Underway	Achieved	EV-Ready Infrastructure Requirements bylaws adopted and came into effect September 1, 2020. Monitoring underway.
M3.3	Support EV infrastructure retrofits in existing buildings	●	Underway	Ongoing	Continued to promote programs and provide top-up incentives for EV Ready Plans and electrical infrastructure upgrades in existing Multi-Unit Residential Buildings. Webinars and other resources provided in partnership with the CRD (e.g. Charge your Ride), the Vancouver Island Strata Owners Association, Plug In BC and others.
M3.4	Expand public EV charging network	●	Underway	On track	Projected EV charging station numbers and potential sites required to meet 2030 targets have been identified, with an emphasis on serving multifamily neighbourhoods. Feasibility study underway for first three sites - construction expected 2023-24 (grant dependent).
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. Consideration of charging by kWh will occur in 2023.
M3.6	Support "Right to Charge" legislation	●	2020	Ongoing	The Province committed to this legislation in the 2020 ministerial mandate letters but no timeline or updates have been shared. Minimal time has been given to this action due to limited staff resources. Greater advocacy can be undertaken in 2023, dependent upon approval of 2023 budget requests.
M3.7	Work with organizations in Saanich to reduce emissions from fleets	●	2022-2024	Ongoing	Four electric buses deployed in SD 61 in 2022. BC Transit committed to buying 130 electric buses between 2021-25. Saanich partnered with the CRD on an NRCan grant application to support transition to medium and heavy duty fleets in the region.

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	While some non-traditional construction methods have been piloted e.g. quick wins on Tillicum, only approximately 10-20% of the ATP can be delivered by these methods. Considerable cost inflation is impacting the ability to accelerate other major ATP projects. Update report to Council due Q2 2023.
EB.2	Plan compact, complete communities and focus density in nodes and corridors	●	2020-2025 On track	OCP update underway to more closely align with housing and climate objectives. Centres, Corridors and Villages (CCV) planning approach is underway with Quadra MacKenzie study initiated and Uptown Douglas Corridor Plan adopted by Council. Efforts to accelerate housing development presents an opportunity to better support complete, compact communities served by frequent transit and the AAA network.
EB.3	Identify and plan for infrastructure to ensure the safety and security of e-bike riders and others	●	2020-2025 Behind schedule	No progress made in 2022. Desire to see this action supported by the Regional Transportation Priorities Group in 2023.
EB.4	Advocate to the provincial and federal governments for an e-bike incentive program not linked to Scrap-It	●	2020-2022 On track	There is strong interest by Provincial staff in the Saanich E-bike Incentive Pilot and we are sharing information regarding the program design, implementation and results. Given the success of this pilot to date, Saanich staff are advocating to the Province for a provincial program of similar design that is not tied to the Provincial Scrap-It program. More information on this is expected 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.5	Provide 'top-up' incentives to augment provincial/ federal e-bike incentive programs	●	2020-2022	On hold	This action requires a provincial or federal e-bike incentive program with an option for local governments to offer top-up incentives. There is strong interest by Provincial staff in the Saanich E-bike Incentive Pilot and we are sharing information regarding the program design, implementation and results. Given the success of this pilot to date, Saanich staff are advocating to the Province for a provincial program of similar design where local governments may provide top-ups. More information on this is expected 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 distributed in 2022, supported through grant funding. Interim report presented to Council Feb 2023. Final UBC study and comprehensive report expected Fall 2023. Discussions with provincial staff regarding a provincial program ongoing.
EB.7	Increase awareness of e-bikes through a comprehensive communications campaign	●	2020-2023	Ongoing	Supported CRD's Charge Your Ride Initiative to provide information on e-bikes at community events, including opportunities to test ride e-bikes. Considerable marketing achieved and awareness raised with the implementation of the Saanich Community E-Bike Incentive Pilot Program.
EB.8	Support lower speed limits on residential streets	●	2020-2023	On track	Council approved the Speed Limit Establishment Policy in July 2022, providing direction to lower speed limits on Type A (primarily neighbourhood) and Type B streets. Safe Speed Studies conducted on nine priority Type B streets during Fall 2022. Bylaw Amendments and updated signage in 2023 will put the lower speed limits into place.
EB.9	Review and update the Zoning Bylaw to consider amendments that support e-bikes	●	2021-2023	Behind schedule	Challenges with staff capacity caused delays in 2022. Expect to commence work on this 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.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	On hold	While Saanich explored the opportunity to be part of the Motor Vehicle Act Pilot project related to e-mobility devices such as electric kick scooters, the timing and resources required resulted in a recommendation to monitor the pilot and await results. These are expected in 2024 and should be used to inform recommendations to support other forms of e-mobility. This action is on hold until that time.
<i>Electric Vehicles</i>					
EV.1	Advocate to provincial and federal governments to maintain EV incentive programs	●	2020-2025	Ongoing	Ongoing messaging to province on importance of EV incentives and feedback on existing programs. 2022 program improvements include a new income-based structure for EV incentives and an increase in the "EV Ready" infrastructure cap for multifamily buildings from \$80,000 to \$120,000.
EV.2	Increase awareness of EVs through a comprehensive communications campaign	●	2020-2023	Ongoing	Supported CRD's Charge Your Ride Initiative to provide information on EVs and charging at summer events, including opportunities to test drive EVs. Currently focusing on providing educational materials to industry and strata buildings. Saanich also launched a communications campaign and mini-video series with testimonials from strata residents who retrofitted their buildings with EV Ready infrastructure.
EV.3	Explore E-mobility requirements and incentives for business licenses and fees	●	2021-2022	Behind schedule	Behind schedule due to limited staff capacity. This work could commence in 2023, budget dependent.

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.4	Encourage and support regional organizations to convert their fleets to Zero Emission Vehicles (ZEVs)	●	2020-2025	On track	Four electric buses deployed in SD61 in 2022. BC Transit committed to buying 130 battery electric buses between 2021-25 and piloted one in December 2022. Saanich partnered with the CRD on an NRCan grant application to support the transition to electric medium and heavy duty fleets in the region.
EV.5	Support car sharing organizations to electrify their fleet	●	2021-2023	On track	Identified locations for car share dedicated Level 2 EV chargers as part of on-street charging to serve multifamily neighbourhoods. Initiated design and costing for charger installations and submitted grant application in partnership with CRD to support implementation. 2023 work will include developing a licensing program to enable car share use of dedicated on-street chargers.
EV.6	Advocate that higher levels of government work to remove barriers to EV adoption	●	2021-2024	Ongoing	Continue to message higher levels of government about these key barriers, and participate in opportunities for input. Measurement Canada has approved a temporary dispensation program to facilitate kWh billing for existing stations and is working towards certification of stations. BC Hydro is considering elimination of the Tier 2 rate structure and introduction of voluntary whole home and/or EV time-of-use-rates which would support electrification and affordability.
EV.7	Explore the potential for EVs to act as backup power supply	●	2021-2025	Future action	Future action.
<i>Home and Workplace Charging</i>					
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 Tempest software program limitations.

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.2	Advocate for Right to Charge legislation	●	2020-2021	Ongoing	No updates on the Province's commitment to introduce Right to Charge legislation have been shared. Minimal time has been given to this action given limited staff resources. Greater advocacy can be undertaken in 2023 dependent on approval of budget requests.
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. Saanich staff participate in EV Working Group chaired by Technical Safety BC to provide guidance documents and address technical issues related to EV ready infrastructure.
H+W.4	Promote incentives for EV charging infrastructure	●	2020-2023	Ongoing	Continuing to promote through multiple channels, including webpage, social media (e.g. EV Ready top-up testimonial videos and case study), utility bill mail outs and newsletters, as well as through collaborative efforts such as CRD Charge your Ride initiative.
H+W.5	Provide 'top-up' incentives to augment provincial/ federal EV charging infrastructure incentives for existing Multi-Unit Residential Buildings (MURBs) as required	●	2021-2022	Achieved	Saanich offers a \$100/stall top-up for EV Ready infrastructure that provides all units in a Multi-Unit Residential Building with an EV-ready parking stall. Saanich's top-up supported the installation of 328 EV ready stalls in multi-family buildings by the end of 2022.
H+W.6	Explore the need for and provide incentives for EV charging infrastructure feasibility studies in existing Multi-Unit Residential Buildings (MURBs) if required	●	2021-2022	Achieved	Saanich was the first local government in BC to offer this with agreements finalized in Fall 2021. Saanich offers a \$1,000 top-up for EV Ready Plans that outline the design and cost for installing EV Ready infrastructure for all units in the Multi-Unit Residential Building. Saanich's top-up supported 13 buildings to complete EV Ready Plans by the end of 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	
H+W.7	Provide EV charging infrastructure education for Multi-Unit Residential Buildings (MURBs)	●	2020-2021	Ongoing	Continuing to work with Vancouver Island Strata Owners Association (VISOA), CRD, and other partners to deliver education and support for Multi-Unit Residential Buildings (MURBs). Charge your Ride webinars led by CRD and VISOA in November 2022 being promoted through Saanich outreach channels.
H+W.8	Identify and address potential policy barriers to EV infrastructure in existing buildings	●	2021-2023	On track	A review of barriers to electrification is in scope for the Development Permit Area (DPA) Design Guidelines and Bylaw review for high performance buildings that was initiated in 2022 and will be completed in 2023.
H+W.9	Support off-site EV charging for Multi-Unit Residential Buildings (MURBs)	●	2021-2023	Ongoing	Feasibility study underway for three on-street L2 public and dedicated car-share EV charging sites in multifamily neighbourhoods. Participating in CRD's Public EV Charging Guidelines Project to provide guidance and support to private sector on becoming EV charger hosts, which will increase options for residents in multifamily buildings.
H+W.10	Support workplace EV charging	●	2021-2023	Ongoing	Supporting CRD on several aligned initiatives, including Charge Your Ride and the Public EV Charging Guidelines Project. In addition, Saanich installed its first workplace-oriented set of EV chargers at the Municipal Hall.
H+W.11	Support dedicated EV charging access for car shares near Multi-Unit Residential Buildings (MURBs)	●	2022-2023	On track	Identified locations for car share dedicated Level 2 EV chargers as part of on-street charging to serve multifamily neighbourhoods. Initiated design and costing for charger installations and submitted grant application in partnership with CRD to support implementation. 2023 work will include developing a licensing program to enable car share use of dedicated on-street chargers.

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+W12	Explore various financial approaches to overcome the capital cost barrier to EV charging	●		2022-2023	On track	The Province's Low Carbon Fuel Standard was revised, and beginning in 2022, multifamily buildings with five or more units are eligible to claim and sell credits for electricity used in transportation. This represents significant potential revenue that can help pay for the cost of installation in these buildings over time. Saanich has started sharing these details as well as promoting available incentives.
Public Charging						
PN.1	Identify priority areas in Saanich for the provision of additional public EV charging stations	●		2021-2022	On track	Projected EV charging station numbers and potential sites required to meet 2030 targets have been identified, with an emphasis on serving multifamily neighbourhoods. Feasibility study underway for first three sites - construction expected 2023-24 (grant dependent).
PN.2	Work with BC Hydro and the provincial and federal governments to install more DC fast charging stations in Saanich	●		2020-2022	Ongoing	Continuing to collaborate with CRD on implementation of the Regional EV Infrastructure Roadmap, including current Public EV Charger Guidelines Project and other efforts to work with diverse partners including BC Hydro to install more public fast charging.
PN.3	Explore how to encourage private sector investment in new EV charging infrastructure	●		2021-2025	On track	Participating in CRD's Public EV Charging Guidelines Project to develop and provide guidance and support to private sector on becoming EV charger hosts. Private investment, including for installation of DC Fast Chargers (DCFC) (e.g. at gas stations) and through Saanich development approval processes continues to be observed.
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 infrastructure considered in DPA Design Guidelines and Bylaw Review project currently underway and are incorporated into other planning processes (e.g. OCP update, CCV planning) as they unfold.

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>Saanich Leadership</i>				
Lead 1	Develop a fleet strategy to reduce corporate emissions	●	2020-2021 Behind schedule	Additional staff resources enabled this project to progress in 2022. The RFQ was posted by the end of 2022 and this project is expected to be completed in 2023. The project will deliver a pathway to a Zero Emissions municipal, fire and police fleet by 2040, setting interim 2030 targets and identifying the infrastructure requirements and associated costs.
Lead 2	Convert all light-duty fleet vehicles to zero emissions vehicles	●	2020-2025 On track	All municipal fleet cars are fully electric. While market availability continues to be a major constraint, more light duty trucks and electric vans are now becoming available. Saanich saw 2 electric trucks (F-150 lightnings) delivered in December and has 5 electric vans on order to be delivered in 2023. Police light duty front-line vehicles have high fossil fuel use and emissions. Design completed for multiple level 2 and DCFC EV charging stations at the Public Safety Building, with construction due early 2023 will support phased transition to front line electric Police vehicles starting 2023.
Lead 3	Develop an e-bike fleet program	●	2020-2022 Achieved	The E-Bike Fleet program at 3500 Blanshard has been successful and is well used. Work is underway to expand the e-bike fleet to the Municipal Hall and the Saanich Operations Centre in 2023.
Lead 4	Implement a Climate Friendly Commuter Program and improve bike parking at all Saanich facilities	●	2020-2022 Behind schedule	A working group was initiated in 2022 and a project charter drafted. This work is expected to progress in 2023, staff resource dependent.

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 B1: Require efficient, net-zero carbon new construction</i>					
B1.1	Identify and remove municipal barriers to high-performance buildings	●	2020	On track	Project to review Bylaws and update Development Permit Area (DPA) Design Guidelines in support of high performance buildings was initiated in 2022 and will be completed in 2023.
B1.2	Accelerate adoption of net-zero carbon new construction	●	2020	On track	In August 2022, Council approved the new Provincial Zero Carbon Step Code Standard to achieve zero-carbon new construction by 2025. Saanich Bylaw amendments and first compliance period to start in 2023.
B1.3	Require new construction to achieve upper steps of the BC Energy Step Code by 2025	●	2021-2022	On track	In August 2022, Council approved Saanich's approach to the BC Energy Step Code, which is to align with the Province's adoption of higher steps of the step code, beginning in 2027. This provides more time for industry preparedness and a focus on accelerating the new Zero Carbon Step Code Standard in the short term. This approach has a greater impact on GHG emissions reductions from new construction.
B1.4	Support building industry capacity development	●	Underway	Ongoing	Mid-construction blower door test rebate to support Step Code implementation continued through to September 2022. Comprehensive regional engagement undertaken as part of the new provincial Zero Carbon Step Code Standards. Regional webinar with industry and BC Hydro to support building electrification.
B1.5	Encourage the adoption of low-carbon materials in new construction	●	2021-2022	Behind schedule	Due to staff capacity constraints, this action was not prioritized in 2022. The Federal low-carbon assets through life cycle assessment (LCI) initiative is developing a Canadian database that will support policies and programs. The Federal Government is also considering the inclusion of embodied carbon in model building codes. Staff resource requests have been submitted as part of the 2023 budget to support this work.

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	The Province has developed a Zero Carbon Step Code Standard which was added to the BC Building Code in February 2023 and will be available for local governments to accelerate ahead of Provincial timelines. Council adopted this standard in anticipation of the building code changes with the first phase of implementation due July 2023.
B1.7	Require energy benchmarking for new Part 3 buildings	●		2021-2022	On track	Mandatory energy benchmarking for part 3 buildings will be introduced with the new Zero Carbon Step Code, beginning in 2024. Continued participation in Building Benchmark BC with growing membership regionally in the interim.
Strategy B2: 🌟 Accelerate efficiency and renewable energy upgrades in existing buildings						
B2.1	Launch a Home Energy Retrofit Municipal Financing pilot project	●		Underway	On track	The Oil to Heat Pump Financing Pilot was launched in April 2022 and fully subscribed with over 50 participants by September. Several participants have completed their upgrades and program impacts are being tracked. Recommendations on future expansion were presented to Council in early 2023 and will be dependent on resources requested as part of the 2023 budget.
🌟 B2.2	Phase out oil heating by 2030	●		2020	Behind schedule	Staff resource constraints have limited progress on this action. However, various new data sources and programs (e.g. updated oil tank inventory, Oil to Heat Pump Financing program, Building Retrofit Strategy) will support further work on this in 2023, resource dependent.

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, Home Energy Navigator program, Online Climate Action Workshop Series, social media campaigns etc. The newly launched Climate Friendly Homes campaign provides more specific messaging about the climate impacts of natural gas.
B2.4	Explore regulatory power to require efficiency and renewable energy upgrades	●		2020	Ongoing	Saanich continued to work with Help Cities Lead to advocate for more tools to regulate emissions in existing buildings. Provincial commitments include a Building Alterations Code to trigger more efficiency upgrades, Equipment Efficiency Standards, Property Assessed Clean Energy Financing, and Energy Labelling. However, some of these are delayed and staff continue to push for strong regulation and timely implementation. Mandatory benchmarking is confirmed to be within municipal jurisdiction. The Building Retrofit Strategy, due 2023, will help quantify the impact of Provincial commitments and actions to support our advocacy.
B2.5	Increase top-up rebates for conversion from fossil fuel to renewable energy systems	●		Underway	On track	Saanich has continued the available incentives for fossil fuel to heat pump conversions in single family homes, including rebates for electrical service upgrades which also supports vehicle electrification. Design for a Revitalization Tax Exemption program for commercial and rental apartment buildings that would build upon existing CleanBC programs and accelerate fuel switching was undertaken and presented to Council early 2023.

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
B2.6	Develop a comprehensive building retrofit strategy	●		2020-2022	Behind schedule	The development of the Community Building Retrofit Strategy was initiated in fall 2022 and is expected to be completed by spring 2023. The Strategy is establishing a more detailed baseline of sector-specific emissions and fuel switching opportunities, analyzing current and potential programs and policy to evaluate gaps to achieving our 2030 targets, and outlining a funding plan for implementation.
B2.7	Work with partners to support skills development	●		2021-2022	Ongoing	Continuing to engage on skills development as opportunities arise, including through the Greater Victoria 2030 District and liaising with the Home Performance Stakeholder Council.
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. Improvements this year included the long-awaited Canada Greener Homes Loan Program (though equitable access to this program remains an issue). Data sharing by the Province on uptake of rebate programs continues to be an issue.
B2.9	Advocate for provincial support on property assessed clean energy (PACE) financing	●		2020	Ongoing	Due to lengthy delays on the Provincial commitment to implement PACE legislation, Saanich moved ahead with the Oil to Heat Pump Financing Pilot in 2022. Indication from Province is that PACE is a low priority and may not see progress in the near term. Saanich continues to advocate through Help Cities Lead and by sharing experience from our Financing Program, stressing the value of this legislative amendment. BC municipalities are unable to access significant Federal funding programs due to restrictions in borrowing and a lack of enabling PACE legislation.

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
B2.10	Work with industry partners to support renewable energy retrofits	●		Underway	Ongoing	Worked with the CRD and other regional partners to launch the Home Energy Navigator in October 2022, providing end-to-end support for homeowners throughout the retrofit journey (rebranded and expanded from Bring it Home for Climate initiative). Ongoing support for large commercial buildings through Greater Victoria 2030 District. Working with regional partners to launch a Strata Energy Advisor program in 2023/24.
B2.11	Develop incentive tools to encourage commercial and Multi-Unit Residential Buildings to undertake deep energy retrofits	●		2020	Behind schedule	A proposed Revitalization Tax Exemption program to encourage fuel switching retrofits in commercial and rental apartment buildings has been developed and was presented to Council in early 2023. Working with regional partners on the launch of a Strata Energy Advisor Program to help address decision-making barriers in these buildings.
B2.12	Work with the Province to prevent fuel switching from low-carbon to high-carbon energy sources	●		2020	Ongoing	Feedback on preferred policy options is being communicated to the Province through multiple avenues - this includes concerns regarding the risks and limitations of renewable natural gas (RNG) supply. The Province is updating legislation to restrict rebates on natural gas furnaces and boilers, expected 2023. The CleanBC Better Homes program is exploring updates to ensure that our municipal top up is only provided to applicants without gas back up.

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
B2.13	Participate in retrofit code development	●	2020	On track	Saanich is co-chair of the Low Carbon Retrofit Peer Network, collating local government feedback to the Province on the development of an Alterations Code due by 2025. This network continues to advocate for a stronger code that will trigger sufficient upgrades and regulate emissions directly. However, the current focus for Provincial and Federal Alterations codes is energy efficiency upgrades, not GHG emissions.
B2.14	Introduce voluntary energy benchmarking for existing buildings	●	2024-2029	Ahead of schedule	Continued 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.
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. Progress has been slower than was originally indicated, and staff will need to advocate more strongly to the Province to see significant strides on this action.
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	Continued to support and participate in Building Benchmark BC and determined that mandatory benchmarking can be covered within municipal jurisdiction. Staff will explore the development of a benchmarking program in partnership with other local governments in 2023.

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 B3: Increase energy resilience and renewable energy supply</i>						
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. FortisBC has shown little interest in offers to engage local farmers on the potential for RNG generation in the region.
B3.2	Support the Province and utilities to produce sufficient renewable energy	●		2021-2022	Ongoing	Ongoing work regarding long term utility plans and rate developments that impact or influence the ability to meet our Climate Targets.
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	While this action is identified for future work, the Federal Greener Homes program launched in 2022 and includes funding for solar PV on site electricity generation. This is being promoted by Saanich.

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 B4: Transition towards a climate-ready building stock</i>						
B4.1	Develop strategies to preserve and enhance permeability and stormwater management		●	2021-2022	Behind schedule	The 2022 budget included new staff resources and partial funding for the Integrated Stormwater Master Plan. New Stormwater & Environmental Engineering Program Manager hired Q3 2022 and will further support this action. Cordova Bay Integrated Stormwater Management Plan (ISMP) is underway. One of the outcomes of this “pilot” ISMP exercise is a case study on the affects of various levels of permeability on the storm network. ISMP pilot project completion and presentation to Council due 2023.
B4.2	Develop a “programmed roof” policy	●	●	2021-2022	Behind schedule	This is being explored as part of the updated Development Permit Area (DPA) Design Guidelines project due to be completed in 2023.
B4.3	Advocate for the incorporation of climate adaptation considerations into the BC Building Code		●	2020	Ongoing	This work is ongoing - the new provincial Existing Buildings Renewal Strategy that the Alterations Code comes under is expected to address climate adaptation. Saanich staff co-chair the Alterations Code 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. Participating in Provincial engagements on the Existing Buildings Renewal Strategy and Alterations Code, which are embedding adaptation. .
B4.5	Consider a rainwater collection system requirement in new development			2024-2029	Future action	Future action.
B4.6	Encourage the implementation of engineered greywater systems			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
Strategy B5: ☀️ Increase the resilience of Saanich's infrastructure and assets					
B5.1	Include climate change considerations in the corporate asset management system	●	2021-2022	On track	Water Supply Master Plan and Sewer Master Plans updated in 2022. Both contained recommended capital programs for system growth and renewal based on prioritization/decision framework considering capacity, condition (where available), and operational risk. Reports will be presented to Council in 2023. Natural Assets Working Group has been established inclusive of the Program Manager, Parks, Engineering and Sustainability. GIS data gap analyses have been completed for water based assets. CCTV investigation and condition assessment programming for sanitary and storm mains has increased and additional flow monitors purchased.
B5.2	Update engineering design specifications to account for future climate projections	●	2021-2022	On track	Rainfall Intensity-Duration-Frequency (IDF) curves have been updated incorporating more recent rainfall data from across the District. IDF curves have also been developed with a climate change adjustment. These curves will be part of the Engineering Specifications and Subdivision Bylaw project that is currently in progress. They can immediately be applied to capital projects.
B5.3	Conduct flood hazard planning	●	Underway	On track	Integrated Stormwater Management Plan (ISMP) model development includes the ability to observe surface water pathways, lateral extents and depth. This information can then be applied to in-land flood hazard planning.

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
B5.4	Accelerate the completion of a stormwater master plan with climate change considerations		●	2021-2022	Behind schedule	2022 Budget included new staff resources and partial funding to support ISMP efforts. New Stormwater & Environmental Engineering Program Manager hired Q3 2022. Cordova Bay Pilot ISMP (the first of 4 ISMPs) and drainage master plan is well underway with project completion and presentation to Council due 2023. The funding for this work was balanced over 2022/23/24. A "one-time" resource request for 2023 portion of the funds will be included in the upcoming budget.
B5.5	Investigate on-site stormwater management practices on private lands		●	2024-2029	Future action	Future action.
<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 completed in 2020 with updates in 2021. To be used in awareness campaigns and to inform policies moving forwards.
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
Strategy F1: Reduce the climate impact of food production and consumption						
F1.1	Reduce carbon emissions from local food production	●	●	2021-2022	Behind schedule	Behind schedule due to staffing changes in 2022 and hiring of new Agriculture and Food Security Planner. Resource requests submitted in 2023 budget to support this work.
F1.2	Encourage residents to choose low-carbon foods and reduce food waste	●	●	Underway	Ongoing	Continued Love Food Hate Waste awareness campaign including new garbage truck and transit shelter ads and a social media contest. The required Food Rescue Program diverted 2.1 million lbs of food from the landfill in 2021 (2022 data not yet available).
F1.3	Encourage food service establishments to reduce carbon emissions from their operations	●		2022-2024	Future action	Future action.
Strategy F2: Move towards "lighter living" in Saanich						
F2.1	Reduce single-use plastics			Underway	Behind schedule	While the Checkout Bag Regulation Bylaw came into effect in 2021, work on the reduction of other single use plastics would be addressed as part of the Zero Waste Strategy unlikely to commence until later 2023.
F2.2	Develop and implement a Zero Waste Strategy	●		2022-2024	Future action	Expected to be initiated later 2023. Resource requests for sustainability staff to support this work included in 2023 budget.
F2.3	Work towards zero waste for large public events	●		2022-2024	Future action	Expected to be included within work on the Zero Waste Strategy, unlikely to commence until later 2023. Resource requests for additional sustainability staff to support this work included in 2023 budget.
F2.4	Work with partners on circular economy initiatives	●		2022-2024	Future action	Expected to be included within work on the Zero Waste Strategy, unlikely to commence until later 2023. Resource requests for additional sustainability staff to support this work included in 2023 budget.
F2.5	Mobilize residents and businesses towards "lighter living"	●		2020-2022	On track	Online Climate Action Workshop Series offered twice in 2022, One Planet Saanich grew to 21 organizations, Carbon Calculator and Residents' Climate Action guidebook updated and improved, and multiple presentations provided.

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
F2.6	Advocate for expansion of extended producer responsibility programs	●		2024-2029	Future action	Expected to be included within work on the Zero Waste Strategy, unlikely to commence until later 2023. This will align with regional progress on the Solid Waste Management Plan. Budget requests for additional sustainability staff will support this work.
F2.7	Improve monitoring of and compliance with a recyclable materials ban	●		2024-2029	Future action	Expected to be included within work on the Zero Waste Strategy, unlikely to commence until later 2023. This will align with regional progress on the Solid Waste Management Plan. Budget requests for additional sustainability staff will support this work.
Strategy F3: Improve the resilience and self-sufficiency of the local food system						
F3.1	Accelerate the implementation of Agriculture and Food Security Plan (AFSP)		●	2021-2022	Behind schedule	Staffing changes in 2022 and hiring of new Agriculture and Food Security Planner mean this is behind schedule. Resource requests submitted in 2023 budget to support this work. For phase 1 of the AFSP, four out of 15 priority actions are completed and eight out of 15 are in progress. Only one out of 15 priority actions, 15 in progress for Phase 2.
F3.2	Support an Agricultural Adaptation Strategy for Vancouver Island		●	2021-2022	Behind schedule	A Food Hub Feasibility Study was initiated with funding support from the BC Ministry of Agriculture. However, staffing changes in 2022 and hiring of new Agriculture and Food Security Planner mean this is behind schedule.
F3.3	Increase capacity for local food production	●	●	2022-2024	Future action	Saanich supported the feasibility study and business case development for a Regional Food and Farmland Trust. In addition, the number of Farms with Community Sponsored Agriculture Food Box Programs has gradually increased from a baseline of six to 11 as of 2022.
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 Objectives

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<i>Strategy E1: Enable natural systems to thrive and adapt</i>						
E1.1 	Double the rate of planting trees to enhance the urban forest	●	●	2020	On track	On track to meet the 10,000 trees planted by 2025 target with 6,160 total trees planted from 2020-22. However, half the trees planted are replacement trees from development (only one in two are 'new' trees that add to Saanich's urban forest canopy). Available planting areas and maintenance costs are current barriers. Climate change is significantly impacting the urban forest, with growing impacts on tree health and survival due to related increases in invasive species and diseases, heat stress, and severe weather events.
E1.2	Increase stewardship tools for private land owners		●	2020	Ongoing	Work is ongoing e.g. Naturescape Booklet completed in 2022 and further stewardship initiatives. Guidance is forthcoming in the Biodiversity Conservation Strategy.
E1.3	Implement "Natural Intelligence" parks program		●	Underway	Ongoing	Naturescape Booklet completed in 2022. Promotion and engagement is ongoing.
E1.4	Develop an operational approach to tree retention and replacement during development	●	●	2020	Ongoing	Updated Urban Forest Strategy initiated in 2022 and due to be completed in 2023. Environmental Policy Framework and Biodiversity Conservation Strategy ongoing throughout 2022 and due to be completed by end of 2023. Integrated working groups involved in several pilot projects. The Community Charter and municipal regulatory authority can limit progress on this action.
E1.5	Protect and expand the urban forest	●	●	2020	Ongoing	Updated Urban Forest Strategy underway, including an updated inventory, GIS mapping and data collection, which will inform the natural assets inventory and management and evaluation.
E1.6	Develop and implement a Biodiversity Conservation Strategy		●	2020-2022	On track	Expected to be delivered for Council consideration by the end of 2023.

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	Ongoing	Multiple projects. For example, additional ~100m stretch of Colquitz Creek at Copley East Park saw instream work for salmon habitat and riparian planting. The Layritz Park and Vic Derman Park MoTI funded Garry Oak polygons saw significant invasive removal and planting of native trees, shrubs and herbaceous plants. Approximately 30 new restoration sites each year for natural area planting, including sites cleared of invasive species by Pulling Together volunteers. Tree Appreciation Day site at Mahon Brook saw planting of dozens of native trees, hundreds of shrubs and more than 500 herbaceous plants. PKOLS/Douglas Creek bridge site saw another ~400 native trees, ferns, and shrubs planted in 2022. 2023 budget requests to support Gary Oak restoration and other biodiversity projects in light of the UN Decade on Ecosystems.
E1.8	Partner with school districts on environmental education	●	●	Underway	Ongoing	Continue to support local schools with place-based hands-on experiences with community-based ecosystem restoration and environmental education. Supported 15 schools in 2022, with 5 of those involving an ongoing relationship with a Saanich Park and a Pulling Together volunteer group. Total school youth stewardship contribution was 1445 volunteer hours. Collaborated with SD 61 Indigenous Education Department to support ecosystem restoration experiences with several local classes. Partnered with EEPsA (Environmental Educators Provincial Specialist Organization), for provincial pro-d for teachers focused on stewardship and ecosystem restoration.
E1.9	Explore carbon dioxide removal measures with partners	●		2020	Behind schedule	Efforts connected with tree protection/retention and planting will help with CO ₂ removal. No additional work or collaboration related to measuring CO ₂ removal through planting has been progressed at this time.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

Progress on Ecosystems Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
E1.10	Prevent planting and spread of invasive plants		●	2021-2022	Ongoing	CRD, CRISP (Capital Region Invasive Species Partnership) and the Province continue to work on preventing planting of invasive species. Parks invasive management programs tackle the spread of invasives with staff and the Pulling Together community volunteer program. In 2022, there were 193 registered Pulling Together volunteers, 45 sites (42 parks, 3 Right of Ways), and 16,313 volunteer hours. However, this action is behind schedule as more resources are required to keep up with the growing spread of high-risk invasive species. Parks is currently past capacity to keep up with invasive species surveys, treatment, monitoring and data entry and growing requirements for treatments.
E1.11	Improve monitoring of ecosystem health		●	2022-2024	Future action	Multiple existing monitoring measures e.g. annual walkthroughs in ~30 parks looking at invasive to remove, areas to plant, protective fencing to install; new Invasive species GIS layer being developed; monthly bird counts in Cuthbert Holmes Park by volunteers; ongoing surveys of the Colquitz River; Species at Risk (SAR) surveys in several parks in 2022; the Garry Oak UN decade restoration commitment surveys/removal of invasives/mulching/protective fencing on 5-6 sites per year, etc. Additional monitoring may be proposed as part of the Biodiversity Conservation Strategy and monitoring of ecosystem health was included within the WSÁNEĆ Leadership Council and District of Saanich ÁTOL,NEUEL ("Respecting One Another") Memorandum of Understanding.

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	Currently working on climate adaptive species planting but more developed approach would be a future action. The updated Urban Forest Strategy, due 2023, will provide more direction on this action.
E1.13	Improve compliance with new bylaws and policies		●	2022-2024	Future action	Capacity is a key consideration for improving compliance. This action may be encompassed within the Biodiversity Conservation Strategy.
Strategy E2: 🌟 Protect and manage natural assets as critical infrastructure						
E2.1	Evaluate services provided by natural assets	●	●	2021-2022	Behind schedule	This work is proposed to be included in a Natural Assets Inventory project to be identified in the Asset Management Strategy. Integrated Storm Water Management Plans include consideration of natural assets such as watercourses, wetlands and forests for drainage services.
E2.2	Develop a strategy to maintain services provided by natural assets	●	●	2021-2022	Behind schedule	This would follow completion of the Natural Assets Inventory, and is proposed to be included in a Natural Assets Asset Management Plan project to be identified in the Asset Management Strategy. This will be informed by the Integrated Stormwater Master Plans and the Biodiversity Conservation Strategy.

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
<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	Ongoing	Increased cooling and filtration incorporated into proposed designs for G.R. Pearkes and Cedar Hill Recreation Centre. A resource request to complete the design for cooling (via heat pump) at the Municipal Hall is included as part of the 2023 budget. An inventory of corporate facilities and cooling/air filtration provision and needs is underway.
C1.2	Undertake urban heat mapping		●	2022-2024	On track	Successful grant submitted for a collaborative regional urban heat mapping project and dashboard in 2022. Scoping has commenced with project completion expected Oct 2023.
C1.3	Work with partners to ensure coordinated response during severe weather events		●	2022-2024	Ongoing	Saanich continues to be engaged on heat preparedness and response work, including attendance at the Regional Emergency Management Partnership (REMP) hosted pre-heat season planning meetings with partners from the region, province and island health.
C1.4	Update Wildfire Protection Plan and Interface Fire Hazard Development Permit Area		●	2022-2024	Ongoing	The Saanich Community Wildfire Protection Plan was updated in 2021 and includes 27 recommendations. Implementation is ongoing based on priority value.
C1.5	Develop Saanich-specific wildfire prevention materials		●	2022-2024	Ongoing	Materials developed in 2022 and were well received.
C1.6	Work with service providers to vulnerable populations to develop adaptation strategies		●	2024-2029	Future action	Future action.
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	Staff continue to advocate to the Province for the Extreme Weather Protocol to resume. Police conduct proactive check-ins with vulnerable persons and enhance park patrols during extreme weather events. Police connect those who are in need with appropriate shelter services including medical and transportation services. Victoria Native Friendship Centre operates as a seasonal shelter until April 1, 2023 and has been identified as a priority for snow removal in support of this service.

Progress on Community Well-being Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
Strategy C2:  Empower Saanich residents and businesses to take climate action						
C2.1	Implement a tangible and hands-on neighborhood-level program	●	●	2020	Ongoing	Neighbour to Neighbour (N2N) program launched in fall 2022 with funding from the Saanich Community Grants program.
C2.2	Host an annual climate fair	●	●	2020	Ongoing	Saanich Earth Day Festival was held in person again in April 2022 with great attendance and feedback.
C2.3	Provide educational programming and workshops	●	●	2020	Ongoing	Multiple educational programs are delivered by Saanich and partners that support climate action. These include the Online Climate Action workshop series, Natural Intelligence program, One Planet Saanich and the One Planet School Challenge, presentations to community groups and educational institutions, E-bike courses and awareness raising, BCSEA CoolIt! Climate Leadership program and Ready Step Roll program with the CRD etc.
C2.4	Carry out a communications campaign on urgent climate action	●	●	2020	Ongoing	The climate communications campaign is updated annually and included multiple measures to highlight the urgency of climate change e.g. the Climate Friendly homes Campaign, launch of the Home Energy Navigator, utility bill inserts, social media campaigns, and more.
C2.5	Host a Community Climate Collaborative	●	●	2020	Ongoing	The intent of this action is being addressed through focused collaborations on specific climate topics e.g. collaboration with the Community Social Planning Council to embed equity in transportation programs; through collaboration with community and business members in One Planet Saanich, District 2030 and others; through seeking input and guidance from advisory committees of Council 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
C2.6	Develop an equity tool	●	●	2020	On track	2022 saw equity embedded into multiple climate actions, including the Oil to Heat Pump Financing program and the E-bike Incentive Pilot. While a specific equity tool has not been created, there are several external equity tools and best practice examples that are being used to inform plan, policy and project development. The Saanich Diversity, Equity and Inclusion (DEI) strategy is due to be completed in 2023 and will further help to inform climate work.
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	Sustainability staff undertook Indigenous Perspectives training to support future collaboration on climate action with local First Nations, including working on climate related priorities identified within the WSÁNEĆ Leadership Council and District of Saanich ÁTOL,NEUEL ("Respecting One Another") Memorandum of Understanding.
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	Neighbour to Neighbour (N2N) program launched in fall 2022 with funding from the Saanich Community Grants program.
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 2022 supporting this action e.g. UBC React Lab and the community e-bike incentive program study.
C2.12	Work with the arts community	●	●	2024-2029	Future action	Future action.

Implementation Priority:

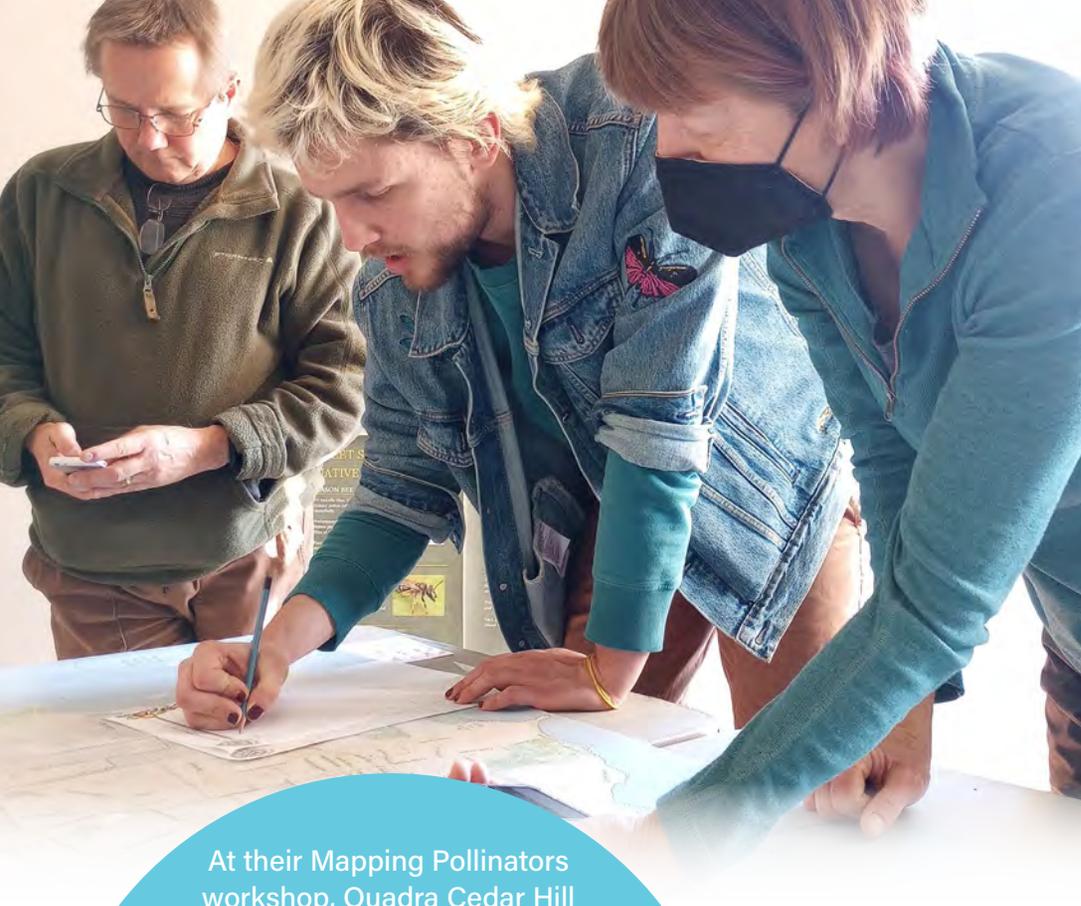


First Priority

High Priority

Medium Priority

Low Priority



At their Mapping Pollinators workshop, Quadra Cedar Hill Community Association (QCHCA) and the University of Victoria Community Mapping project helped participants learn why we need pollinators, what they need, and the benefits of creating and protecting places for pollinators to thrive. QCHCA president Susan Haddon referenced SENĆOŦEN Language and Cultural revivalist Tiffany Joseph saying: Removing invasives, building pollinator corridors, and returning habitat to its natural state can also be an act of decolonization.

The One Planet Saanich program benefits from the sustainability initiatives of many participating groups, including students at Reynolds Secondary School. Among their many sustainability actions, they continue to run a micro-farm in partnership with LifeCycles Project and TopSoil, which supplies a school salad bar and a food box program for staff and families.



Progress on Leadership in District Operations Objectives

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<i>Strategy L1: Integrate climate action into Saanich processes and decision-making</i>						
L1.1	Establish a new Climate Action Reserve Fund	●	●	2020	Achieved	Climate Action Reserve Fund established and annual funding committed. New Provincial climate action funding delivered in 2022 through the Local Government Climate Action Program (LGCAP). Work to determine the amount of funding required to deliver specific climate actions is underway.
L1.2	Include a climate alignment scorecard in reports to Council for development projects	●	●	2020	On hold	An update of the existing Sustainability Statement Guidelines was finalized and reviewed by a cross-departmental team in 2022. However, this action is on hold until implementation of the development process review is underway to ensure alignment, efficiency and that the intent of this climate action is met.
L1.3	Establish a carbon price policy	●		2020	Behind schedule	The new Sustainability Project Delivery Manager position was filled in 2022 and will consider this action in 2023/2024.
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	Enterprise Risk Management Framework was developed in 2022 and due to be finalized in early 2023. A Climate Risk Register is expected to commence in 2023 and will be informed by analysis completed in several other programs (e.g. updated climate projects, Integrated Stormwater Management Plan, Updated Urban Forest Strategy etc.). It will integrate with the Asset Management Strategy and plans.

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
<i>Strategy L2: Become a climate friendly employer</i>						
L2.1	Implement a Climate Friendly Commuter Program	●		2020	Behind schedule	A working group was initiated in 2022 and a project charter drafted. This work is expected to progress in 2023, staff resource dependent.
L2.2	Implement a training and capacity building program	●	●	2020	Behind schedule	While there has been some specific training tied to projects e.g. building controls and e-bike fleet safety training, and general climate presentations have continued to be provided to various divisions, a broader training and capacity program would likely be considered in the coming years with additional staff resources. Saanich collaborated with Camosun College in 2021 to deliver an EV maintenance and repair training course for mechanics that continued to be delivered in 2022.
L2.3	Recognize innovation, successes and leadership	●	●	Underway	Ongoing	Saanich once again achieved an 'A' grade from the CDP for climate action progress in 2022 and was a winner of the Community Energy Association's 2022 Climate & Energy Action Award for the Greater Victoria District 2030 project in collaboration with the City of Victoria and BOMA. Several 'first of its kind' for BC projects were initiated with Council endorsement in 2022 such as the E-bike Incentive Pilot Program and the Oil to Heat Pump Financing program. Collectively, these showcase innovation and raise awareness of Saanich as a climate leader in BC and beyond.

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
<i>Strategy L3: Transition to an efficient, renewably powered fleet</i>						
L3.1	Develop a fleet strategy to reduce corporate emissions	●		2020	Behind schedule	Additional staff resources enabled this project to progress in 2022. The RFQ was posted by the end of 2022 and this project is expected to be completed in 2023. The project will deliver a pathway to a Zero Emissions municipal, fire and police fleet by 2040, setting interim 2030 targets and identifying the infrastructure requirements and associated costs.
L3.2	Convert all light-duty vehicles to zero-emissions vehicles	●		Underway	On track	All municipal fleet cars are fully electric. While market availability continues to be a major constraint, more light duty trucks and electric vans are now becoming available. Saanich saw 2 electric trucks (F-150 lightnings) delivered in December and has 5 electric vans on order to be delivered in 2023. Police light duty front-line vehicles have high fossil fuel use and emissions. Design completed for multiple level 2 and DCFC EV charging stations at the Public Safety Building, with construction due early 2023 will support transition to front line electric Police vehicles starting 2023.
L3.3	Develop an e-bike fleet program	●		2020	On track	The E-Bike Fleet program at 3500 Blanshard has been successful and is well used. Work is underway to expand the e-bike fleet to the Municipal Hall and the Saanich Operations Centre in 2023.

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
L3.4	Review industry readiness to support medium- and heavy-duty fleet conversion pilot projects	●		2022-2024	Future action	Staff continue to monitor and explore options for electric medium and heavy duty and specialized fleet. An electric bike lane street sweeper was tested and an electric Fire Engine grant application was successful in 2022 – however considerable cost escalations prevented these options being pursued. The Zero Emissions Fleet Strategy, due 2023, will be critical for analyzing fleet replacement and EV lead-in times, risks, opportunities and cost estimates to maximize grants and identify budget needs in order to meet our fleet emissions targets.
<i>Strategy L4: Transition to efficient and renewably-powered municipal buildings</i>						
L4.1	Transition to highly efficient and renewably-powered municipal facilities	●		Underway	Ongoing	Two major grants approved - \$2.4mill from GICB for accessibility upgrades and electrification at Cedar Hill Rec Centre and \$2.9 million from CleanBC Communities Fund for Pearkes heat reclaim project. Both projects due to be completed 2025. Biomass boiler construction underway at Saanich Commonwealth Place. Public Safety Building lighting upgrade complete. Feasibility for cooling and electrification and Continuous Optimization (C-Op) study completed at Municipal Hall - resource request for design included in 2023 budget. Smaller buildings converted from propane, oil and gas to heat pumps. Saanich Operations Centre business case approved and will provide a climate showcase project for the District.

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
L4.2	Pilot low-carbon materials in municipal new construction	●		Underway	On track	Fire Hall #2 design follows BC's Wood First Initiatives, is registered with CaGBC as a zero carbon project, design is underway and hoping for LEED platinum. Embodied carbon has been included in the Municipal Hall design scope. A more comprehensive approach to embodied emissions will likely be taken as part of the Zero Waste work, expected to start 2023, resources dependent.
L4.3	Showcase efficient and renewably-powered municipal buildings	●		Underway	Ongoing	Showcased in sustainability webpages, social media, awards, factsheets, 2-page pathways, energy manager networks etc. Implementation of standardized controls and networked facilities will support effective public communication methods e.g. digital design boards. Greater opportunity to showcase once major upgrades are completed at SCP, Pearkes, Cedar Hill Rec and the new Fire Hall #2, expected 2023-25.

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

L5.1	Model a low-carbon diet through corporate catering	●		2020	Behind schedule	Will require additional staff resources to address this in coming years.
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.

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
<i>Strategy L6: Measure and Report on progress</i>						
ME.1	Publish annual report card			2020	Ongoing	2022 marks the third Climate Plan Report Card since the updated Climate Plan was approved. Several actions have been implemented in 2022 to improve data, reporting and accountability, including Vehicle Kilometres Traveled survey and community wide oil tank survey.
ME.2	Measure resilience			2020-2021	Behind schedule	This work is in early stages and being developed through the collaboration of multiple departments and external networks. Some metrics are expected to be developed in 2023 as several data sets are updated and projects completed such as the updated Regional Climate Projections, Cordova Bay Integrated Stormwater Management Plan, the updated Urban Forest Strategy and the Biodiversity Conservation Strategy.
ME.3	Measure community GHG emissions			2022-2024	Ongoing	The CRD provides territorial GHG emissions inventories every two years with Saanich partnering with the City of Victoria for interim years. An updated Consumption Based Emissions Inventory and Ecological Footprint are underway in 2023 and will inform the next Climate Plan Report Card as well as the updated Official Community Plan.
ME.4	Update Climate Risk Assessment			2024-2029	Future action	Future action.
ME.5	Update the Climate Plan			2024-2029	Future action	Future action.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



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