



# Saanich Climate Plan

## Annual Report Card 2020



# 2020 Highlights



## Mobility



More than **16** new or enhanced **crosswalks**



More than **3 km** of new all ages and abilities (“AAA”) bike lanes

**6**

**Traffic signals upgraded** to give more pedestrian priority



Implemented a **\$1 user fee for Saanich owned public EV charging stations** to manage use and secure replacement funds



Developed and adopted our **Saanich Electric Mobility Strategy**



Installed **7 new transit bus shelters** and completed the Saanich portion of the Bus Rapid Transit project on Douglas St/Hwy 1



New buildings are required to have **parking stalls electrified** and ready to install EV chargers

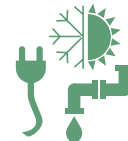


Secured **federal grant funding for an additional 20 public Level 2 EV Charging stations** for Saanich facilities



## Buildings and Infrastructure

Participated in building retrofit acceleration programs:



Over **100 participants in CleanBC Home Energy retrofits** that have Saanich top-ups



Implemented the next steps of the **BC Energy Step Code** to achieve higher energy efficiency for new buildings in Saanich



## Food and Materials



Provided funding support to **My Fed Farm to deliver food start-ups to over 100 homes** in Saanich impacted by COVID-19



Updated the **Carbon Calculator to align with our Climate targets** and to include food and consumption



Joined the Canada wide **Love Food Hate Waste campaign**



## Ecosystems

Published inventories of rare ecosystems through our public GIS system – almost **doubling the area of mapped rare ecosystems** in Saanich



Completed **flood inundation and sea level rise mapping** with the CRD and other local municipal partners

**Provided 174 free trees**, all native species, to residents on National Tree Day



Pulling Together volunteers active on **44 stewardship sites and replanted 25 sites with diverse native plants**



## Community Well-being



Launched the **Neighbour to Neighbour Project**, a central hub for a range of Saanich programs and resources that support community connections



Supported the delivery of **15 BCSEA Cool It! workshops** reaching a total of **305 students** in Saanich schools



Saanich's **Neighbourhood Emergency Preparedness Program** shifted to online presentations due to COVID and included climate adaptation content for hundreds of residents



**One Planet Saanich provided virtual meetings and workshops** helping support twelve Saanich-based organizations, and several new stakeholders for 2020, implement their One Planet Action Plans



## Leadership in District Operations



The Saanich Climate Plan was awarded the Community Energy Association 2020 **Climate & Energy Action Award** and the 2020 **PIBC Silver Award** for Excellence in Policy Planning – City and Urban Areas by the PIBC (Planning Institute of BC)



**Completed lighting upgrades** at the Gordon Head and G.R. Pearkes recreation centres, **reducing our energy use by over 90,000 kWh annually**, enough to power 90 homes a year.

**Replaced 8 fleet vehicles with new EVs**, meaning all municipal fleet cars are now electrified



**Installed 4 Level 2 EV charging stations for fleet** at the new Engineering building



Saanich joined the Global Covenant of Mayors and reported on our **Climate Action progress to the CDP, achieving an A grade for 2020**

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# Introduction

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

## PLAN GOALS



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



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



3. **PREPARE FOR A CHANGING CLIMATE**

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

This is our first year of reporting and there are still areas of the plan that need metrics and indicators to be developed, particularly related to climate adaptation and resilience. Data for several of the targets is also not available annually, for instance, targets related to mobility rely on the regional Origin Destination Household Travel Survey conducted every five years. Where data is unavailable or metrics are in development, this is noted within the report.

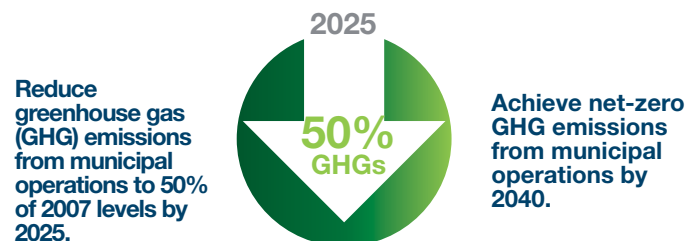
While the Plan focuses on strategies and actions over which the District has either control or influence, it is clear that we cannot achieve this alone. Our collective success requires action from everybody, including residents, businesses, non-profits, community organizations, institutions, neighbouring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

**We need to do this together.**

## Progress on Community-

### LEAD BY EXAMPLE

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



# Wide GHG Targets

The latest Saanich community-wide greenhouse gas (GHG) emissions

inventory is for 2018 and follows the Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories, accounting and reporting standard for cities (Basic+). This shows the following:

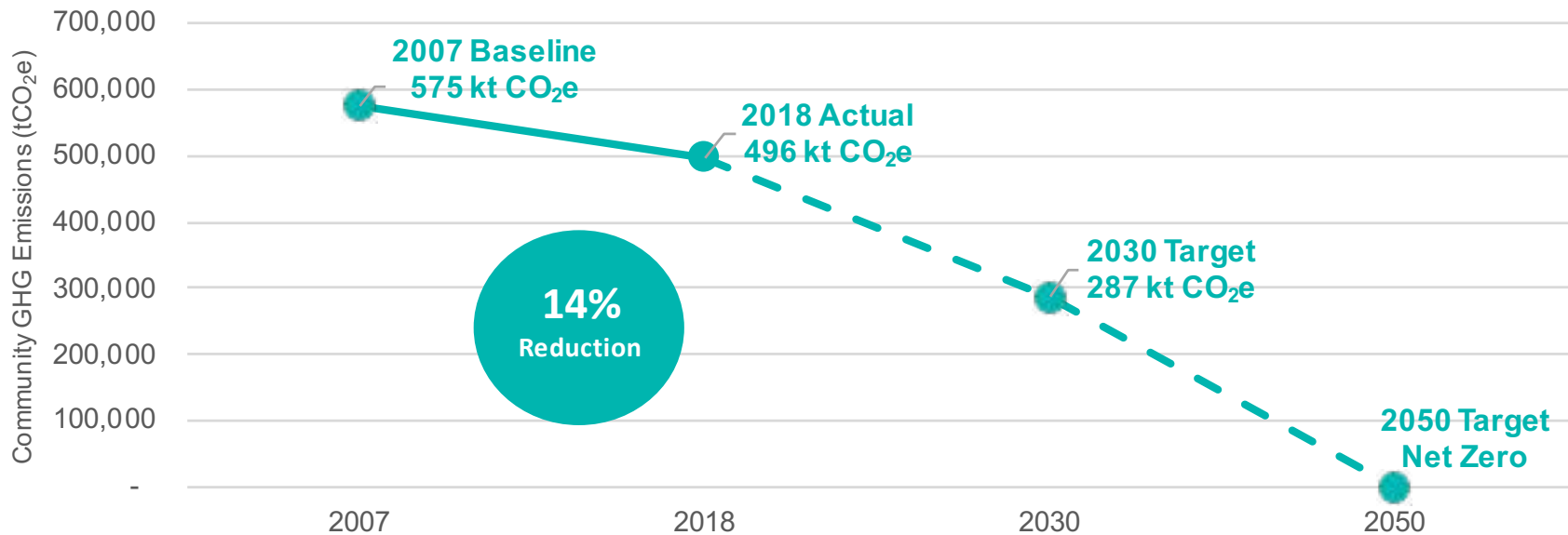
- Overall community-wide emissions decreased by 14% between 2007 and 2018
- Fossil fuel use in transportation followed by building operations remains the largest source of GHG emissions in our community
- Transportation and buildings emissions each decreased by 12% between 2007 and 2018

- Waste emissions decreased by 30% between 2007 and 2018, primarily through widespread adoption of composting as well as landfill methane capture.

## Methodology and Data Updates

Several updates to the methodology were required for this inventory

### Saanich community-wide territorial GHG emissions and targets



meaning there are notable differences compared to the 2017 data included in the Saanich Climate Plan.

A variety of data constraints also mean that caution should be applied when drawing conclusions from the marked drop in Saanich's 2018 emissions inventory compared with the 2017 inventory presented in the Climate Plan, particularly related to transportation. We continue working with regional partners, the Province, ICBC, BC Hydro, and FortisBC to acquire more frequent, reliable data at the local level to assist reporting on progress.

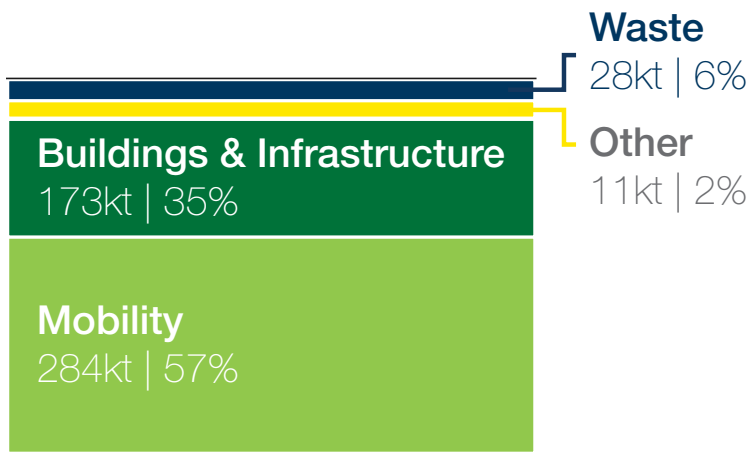
The last Consumption Based Emissions Inventory (CBEI) was in 2015 and showed that our consumption based emissions were almost double what we reported in our territorial emissions inventory. The CBEI

relies on several data sets at the national level. We are exploring the opportunity to collect consumption data locally prior to completing the next CBEI update.

In summary, there has been a decrease in community-wide GHG emissions since our 2007 baseline, but we are still not on track to meet our targets and considerable action is needed.

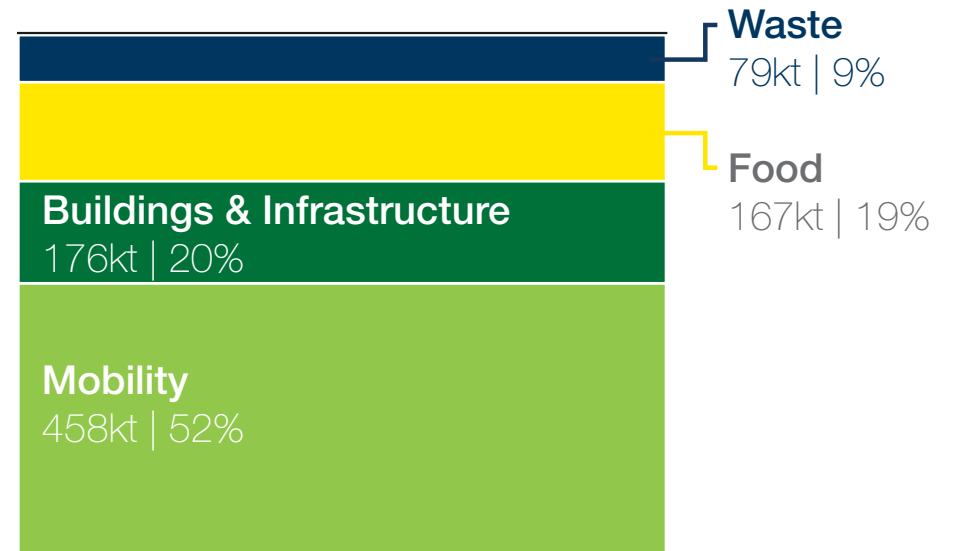
## Progress on 2020 Actions

The Climate Plan identifies a total of 131 actions to be implemented



### 2018: Total Territorial Emissions

















496 kilotonnes of CO<sub>2</sub>e  
4.3 tonnes of CO<sub>2</sub>e per person




















### 2015: Total Consumption Emissions

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

# Progress on Objectives

KEY FOCUS AREA	MEASURE OF SUCCESS (OBJECTIVE)	WHERE WE ARE AT	2030 TARGET	2050 TARGET
 <b>Mobility</b>	 % of all trips taken by walking and cycling	13%	22%	30%
	 % of trips taken by transit	10%	14%	20%
	 % of personal vehicles electrified	2%	36%	100%
	 % of personal and commercial vehicles renewably powered	1%	-	100%
	 % of buses that are electric	0%	100%	100%
 <b>Buildings and Infrastructure</b>	 New buildings that achieve the higher steps of BC Energy Step Code	<1%	100% by 2025	100%
	 New buildings that are net-zero carbon	<1%	100% by 2023	100%
	 Embodied emissions are reported and lowered	0%	100%	100%
	 % of oil heating systems replaced by heat pumps	3%	100%	100%
	 % of buildings in which the heating demands are reduced by 30%	TBD	40%	80%
	 % of existing natural gas heating and hot water systems that are replaced by renewable energy systems	TBD	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		



KEY FOCUS AREA	MEASURE OF SUCCESS (OBJECTIVE)	WHERE WE ARE AT	2030 TARGET	2050 TARGET
 <b>Food and Materials</b>	 Saanich's consumption-based emissions related to food are reduced.	Metrics to be developed		
	 By 2030, 0% compostable organic waste and paper is landfilled	21% organics 15% paper	0% 0%	0% 0%
	 Emissions from consumer choice and industry transition (e.g., refrigerants, aerosols, foams, equipment, livestock, fertilizer, etc.) are reduced i.e. Industrial Processes and Product Use (IPPU) and Agriculture, Forestry and Other Land Use (AFOLU)	11,397 t CO <sub>2</sub> e	-	0 t CO <sub>2</sub> e
	 Agricultural land is protected: Hectares of land in Saanich within the 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	2,222 ha 21%	TBD	TBD
	 The majority of local farmers have the ability to adapt their production practices to a changing climate	Metrics to be developed		
	 <b>Ecosystems</b>	 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		
 <b>Community Well-being</b>	 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		
 <b>Leadership in District Operations</b>	 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.	14%	50% by 2025	100% by 2040

over the coming years, of which 71 were due to be initiated in 2020. Of these, 41 actions (58%) are Ongoing, Achieved, or On Track, with an additional 10 actions from future years Ahead of Schedule. 30 (42%) of the 2020 actions are currently Behind Schedule or On Hold.

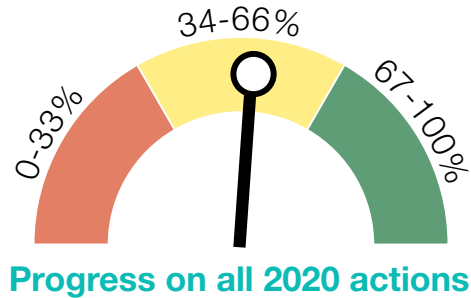
The next section provides a summary of progress on the Climate Plan Targets, Objectives and Actions for each Focus Area:

- Mobility

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

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

Council approved seven First Priority Actions to shift away from business as usual and respond quickly and effectively in response to the Climate Emergency. First Priority Actions are discussed in each



Progress on 2020 Actions for each Focus Area					
Mobility	Buildings and Infrastructure	Food and Materials	Ecosystems	Community Well-being	Leadership in District Operations
<b>81%</b> Ongoing / Achieved / On track	<b>55%</b> Ongoing / Achieved / On track	<b>0%</b> Ongoing / Achieved / On track	<b>75%</b> Ongoing / Achieved / On track	<b>33%</b> Ongoing / Achieved / On track	<b>53%</b> Ongoing / Achieved / On track

Focus Area and identified in the Action Tables in the Appendix with the following icon. ☀️ These First Priority Actions and progress made in 2020 towards their implementation include the following:

## Progress on Mobility Targets

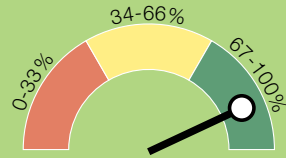
First Priority Action	Climate Plan Action / Strategy	Status Update
1. Increase investment in active transportation to reduce both territorial and consumption-based emissions, improve air quality, and promote health and equity.	Action M1.1	Behind Schedule
2. Accelerate personal transportation electrification 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	6 of 12 actions identified for 2020 Ongoing or On track and 6 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	Behind Schedule
6. Improve climate resilience of Saanich's infrastructure, such as our stormwater system, flood hazard planning, and engineering design specifications.	Strategy B5	1 of 1 action identified for 2020 On track
7. Catalyze community actions by developing a supportive network and resources to encourage and sustain personal efforts.	Strategy C2	2 of 8 actions identified for 2020 Achieved or On track and 6 of 8 actions On hold or Behind schedule

### Action Reporting Status

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



# Mobility and Electric Mobility



# Mobility Summary

The latest 2018 community-wide greenhouse gas (GHG) inventory indicates that there has been an 11% reduction in Saanich’s transportation GHG emissions since our 2007 baseline. There has been a gradual increase in active transportation and transit users during this time, and a more rapid uptake of electric vehicles (EVs) in very recent years.

While this progress is positive, we are not on track to meet our 2030 targets. Resource restrictions have limited progress on the Climate Actions related to active transportation and transit, including *First Priority Action 1 (Climate Action M1.1): Increase investment in Active Transportation/Accelerate the implementation of the Active Transportation Plan*. However, considerable progress has been made on Climate Actions related to electric mobility, including achieving *First Priority 2 (Climate Action M3.1): Create a community-wide Electric Mobility Strategy*. There were a total of 16 Mobility actions identified for 2020 of which 13 (81%) are Achieved or On track and two additional actions are Ahead of schedule. Three actions (19%), all related to active transportation are Behind schedule or On hold. In addition, of the 21 actions identified in the Electric Mobility Strategy to commence in 2020, 15 (71%) are On track, and one additional action from future years is Ahead of Schedule. Specific resources required to get back on track are identified within the Mobility and Electric Mobility Actions tables in the Appendix.

## Transportation emissions in Saanich Territorial GHG Inventory, 2018

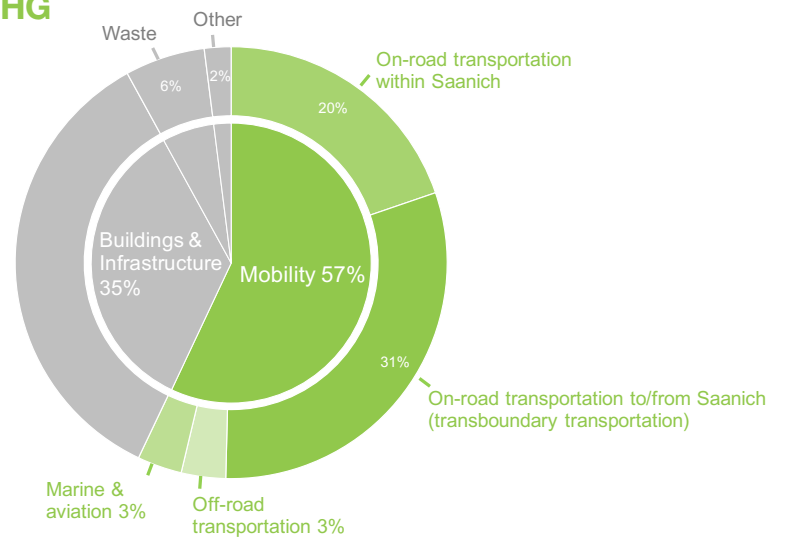


Photo supplied courtesy of Parks, Recreation and Community Services



*“My favorite way to travel is by bike. It’s fun, keeps me in shape and I never have to sweat about parking. My backup is an EV. How can you beat a car that doesn’t have mechanical issues and avoids all use of carbon fuels? I bought a second-hand Leaf and with the money left over was able to put solar panels on my house to fuel my car.”*

Tory Stevens, retired biologist and urban farmer

### What is “tCO<sub>2</sub>e”?

Short for “tonnes of carbon dioxide equivalent,” tCO<sub>2</sub>e is a handy way of talking about all greenhouse gas emissions (e.g. carbon dioxide, methane, and refrigerants, etc.) together in the same measurement.

## Progress on Mobility

Baseline:	In 2007, Saanich’s transportation emissions were	320,156	t CO <sub>2</sub> e
Latest measurement:	As of 2018, Saanich’s transportation emissions were	283,617	t CO <sub>2</sub> e

## Objectives

Objective	Where we were		Where we are at		2030 Target	2050 Target
	Status	Year	Status	Year		
% of all trips taken by walking and cycling	10%	2011	13%	2017	22%	30%
% of trips taken by transit	7%	2011	10%	2017	14%	20%
% of personal vehicles electrified	<1%	2018	2%	2019	36%	100%
% of personal and commercial vehicles renewably powered	<1%	2018	TBD	2019	N/A	100%
% of electric buses	0%	2018	0%	2020	100%	100%

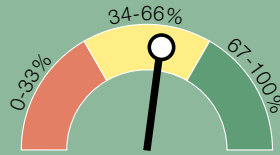
# Progress on Electric Mobility Strategy Metrics

Metric	Where we were		Where we are at	
	Status	Year	Status	Year
<b>Passenger EVs in Saanich</b>				
• Absolute number	730	2018	1,219	2019
• Share of total number of registered passenger vehicles	1.12%	2018	1.86%	2019
<b>Commercial electric vehicles in Saanich</b>				
• Absolute number	3	2019	4	2020
• Share of total number of registered commercial vehicles	0.02%	2019	0.03%	2020
<b>Municipally owned public EV charging station use</b>				
• Total hours of use annually	30,892 hours	2019	28,662 hours	2020
• Average daily hours of use per station in each calendar year	6.1 hours	2019	5.6 hours	2020
• Total electricity use annually	129,474 kWh	2019	126,879 kWh	2020
• Average daily electricity use per station in each calendar year	25.3 kWh/day	2019	24.8 kWh/day	2020
<b>Availability of home, workplace, and public EV charging stations in Saanich</b>				
• # energized outlets and charging stations in new development	Not available	2019	Not available	2020
• # new buildings & parking spaces/units with energized outlets and charging stations	Not available	2019	Not available	2020
• # energized outlets and charging stations installed in existing residential, institutional, commercial and industrial buildings	Not available	2019	Not available	2020
• # existing buildings & parking spaces/units with energized outlets and charging stations	Not available	2019	Not available	2020
<b>Saanich Municipal Fleet</b>				
• # Municipal Fleet Vehicles electrified/renewable	11	2019	21	2020
• % of Municipal Fleet Vehicles electrified/renewable	4%	2019	9% (100% for cars)	2020
<b>Saanich Fire Fleet</b>				
• # Fire Fleet Vehicles electrified/renewable	1	2019	1	2020
• % of Fire Fleet Vehicles electrified/renewable	3%	2019	3%	2020
<b>Saanich Police Fleet</b>				
• # Police Fleet Vehicles electrified/renewable	1	2019	1	2020
• % of Police Fleet Vehicles electrified/renewable	1%	2019	1%	2020





## Buildings and Infrastructure



*“We love our heat pump! It keeps our home warm in the winter and cool in the summer. When we renovated to include a home music studio, we decided to install a heat pump to help our household be more energy efficient. The upfront costs were worth it – we love how well the heat pump works to keep our house at a comfortable temperature, we appreciate the savings on our energy bills, as well as the peace of mind of knowing we’re doing what we can to be more energy efficient”.*

Kathryn Calder. Musician. Saanich.

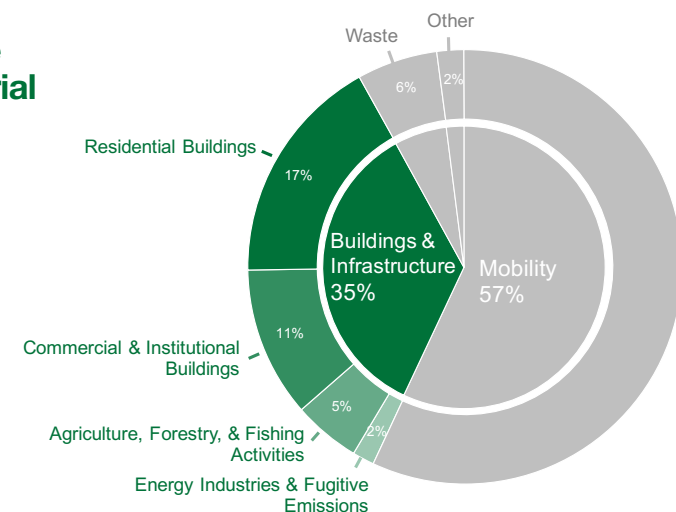
## Buildings and Infrastructure Summary

The latest 2018 community-wide greenhouse gas (GHG) inventory indicates that there has been a 12% reduction in Saanich’s building and infrastructure GHG emissions since our 2007 baseline. Good progress was made between 2007 and 2012, supported by Provincial Building Code energy efficiency standards and home energy retrofit rebates. However, there has been a notable increase in buildings switching from renewable electricity to fossil fuel natural gas for heating in recent years, which is likely the reason behind a slight increase in emissions between 2012 and 2018.

Adoption of the BC Energy Step code will assist in reducing energy use in new development, but greater effort to ensure a switch from fossil fuels to renewable energy and electrification is required both in new developments and retrofits.

As with mobility, we are currently not on track to meet our 2030 GHG emissions reduction targets. Saanich has made progress on Climate Plan Actions by adopting the BC Energy Step Code, supporting building industry capacity development, pursuing energy benchmarking, and delivering considerable resources and programs through the Transition 2050 (T2050) program. However, many actions are behind schedule due to resource restrictions or the impact of COVID-19, including *First Priority Action 3: Convert all oil heating systems to renewable heating systems by 2030 or sooner* and *First Priority Action 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*. Of the 20 actions identified for 2020, 11 (55%) are *Achieved* or *On Track* and an additional four from future years are *Ahead of schedule*. The resources required to get back on track with the remaining actions and those actions due to commence in 2021 are identified within the Building and Infrastructure Actions tables in the Appendix.

### Building and Infrastructure emissions in Saanich Territorial GHG Inventory, 2018





# Progress on Buildings and Infrastructure Targets

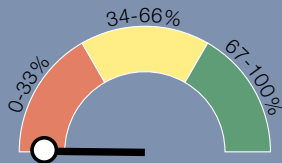
Baseline:	In 2007, Saanich's building and infrastructure emissions were	196,053	t CO <sub>2</sub> e
Latest measurement:	As of 2018, Saanich's building and infrastructure emissions were	173,142	t CO <sub>2</sub> e

# Progress on Buildings and Infrastructure Objectives

Objective	Where we were		Where we are at		2030 Target	2050 Target
	Status	Year	Status	Year		
New buildings that achieve the higher steps of BC Energy Step Code	0	2018	<1%	2019	100% by 2025	100%
New buildings are net-zero carbon	<1%	2018	<1%	2019	100% by 2032	100%
Oil heating systems replaced by heat pumps	78	2018	140	2019	100%	100%
Natural gas furnace/boilers replaced with heat pumps (Residential)	no info	2018	<1%	2019	40%	100%
New Metric: Natural gas connections (Residential)	14,649	2018	15,403	2019	TBD	TBD
New Metric: Natural gas consumption (Residential)	731,870 GJ	2018	793,979 GJ	2019	TBD	TBD
Natural gas space heating replaced with renewable space heating (Commercial)			no data		40%	100%
New Metric: Natural gas connections (Commercial)	930	2018	944	2019	TBD	TBD
New Metric: Natural gas consumption (Commercial)	825,369 GJ	2018	857,850 GJ	2019	TBD	TBD
Building heating demands are reduced by 30%			no data		40%	100%
Renewable Natural Gas use in buildings (as a % of all natural gas used)	0.1%	2017	0.5%	2019	-	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					



# Food and Materials

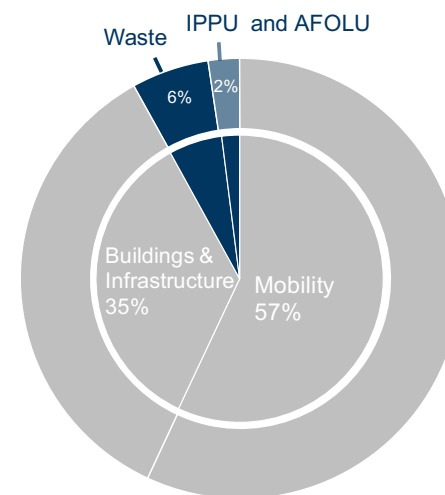


## Food and Materials Summary

The latest 2018 community-wide greenhouse gas (GHG) inventory indicates that there has been a 30% reduction in Saanich’s waste GHG emissions since our 2007 baseline and a 38% reduction in emissions from other sources, which includes Industrial Processes and Product Use (IPPU) and Agriculture, Forestry and Other Land Use (AFOLU). While Saanich has limited influence over IPPU emissions, good progress has been made on waste diversion regionally and since the introduction of the Greener Garbage Program. However, although food and materials are smaller sources of GHG emissions in our territorial emissions, they constitute almost 30% of our consumption based emissions inventory and, as such, are an important focus for continued efforts.

Only three actions within the Climate Plan Food & Materials focus area were identified for 2020 and while some work progressed, including joining the Love Food, Hate Waste campaign and continuing to support One Planet Saanich stakeholders, all three of these actions are behind schedule due to resource restrictions or the impact of COVID-19.

### Food and Materials emissions in Saanich Territorial GHG Inventory, 2018



# Progress on Food and Materials Targets

## GHG Emissions Target (Waste)

Baseline:	In 2007, Saanich's emissions from waste were	40,134	t CO <sub>2</sub> e
Latest measurement:	As of 2018, Saanich's emissions from waste were	28,252	t CO <sub>2</sub> e

## GHG Emissions Target (IPPU)

Baseline:	In 2007, Saanich's emissions from Industrial Processes and Product Use (IPPU) were	24,438	t CO <sub>2</sub> e
Latest measurement:	As of 2018, Saanich's emissions from Industrial Processes and Product Use (IPPU) were	38,729	t CO <sub>2</sub> e

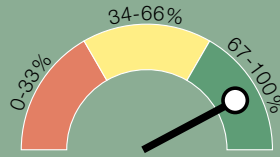
*'Staff and students at Reynolds Secondary School have been delivering a salad bar program sourced from their own courtyard garden and local farms for almost 10 years. This year, they adapted the program for COVID-19 and have held masked pop-up markets selling local, seasonal, organic produce and delivering workshops for canning, pickling and making lip balms and salves.'*

# Progress on Food and Materials Objectives

Objective	Where we were		Where we are at		2030 Target	2050 Target
	Status	Year	Status	Year		
Saanich's consumption-based emissions related to food are reduced	19%	2015	TBD	TBD	TBD	TBD
0% compostable organic waste and paper is landfilled	21% organics 15% paper	2016	New data expected 2022		0% 0%	0% 0%
Emissions from consumer choice and industry transition (e.g. refrigerants, aerosols, foams, equipment, livestock, fertilizer, etc.) are reduced i.e. Industrial Processes and Product Use (IPPU) and Agriculture, Forestry and Other Land Use (AFOLU)	29,627 t CO <sub>2</sub> e	2017	11,397 t CO <sub>2</sub> e	2018	TBD	TBD
Agricultural land is protected: Hectares of land in Saanich within the ALR	1,843 ha	2018	TBD	TBD	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	2,222 ha 21%	2016	TBD	TBD
The majority of local farmers have the ability to adapt their production practices to a changing climate	Metrics to be developed					



## Ecosystems



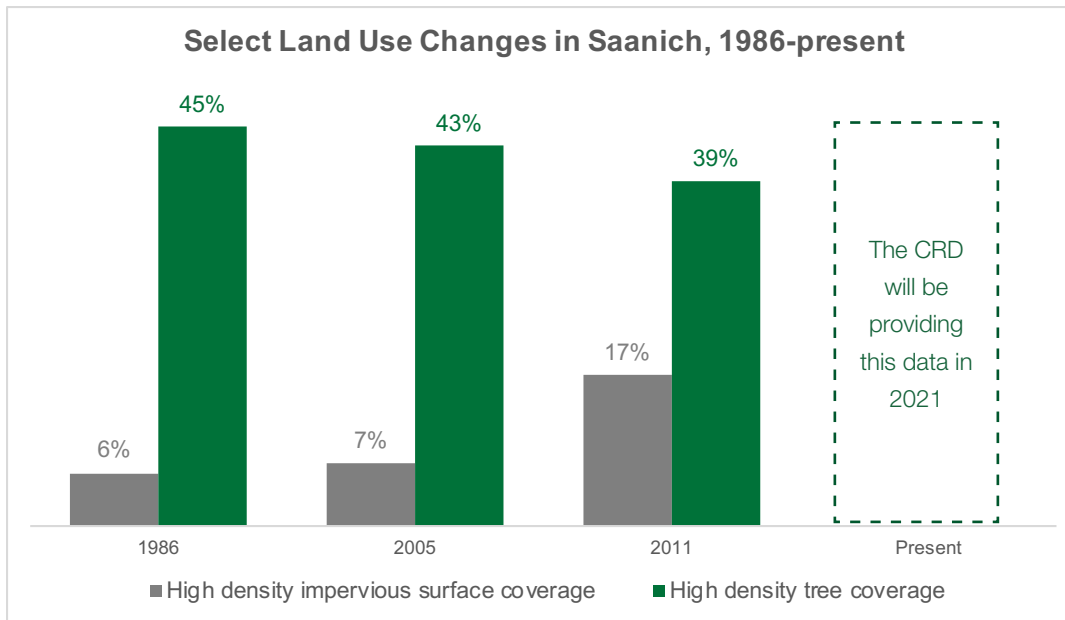
## Ecosystems Summary

Ecosystems and natural areas can be both sinks and sources of greenhouse gas (GHG) emissions and contribute towards our territorial emissions inventory through the Agriculture, Forestry and Other Land Use (AFOLU) category. As such, they can also assist in reaching our targets through carbon sequestration. However, estimates for land use carbon emissions and sequestration have a high degree of uncertainty today and so they are not reported on separately at this time. Work is underway to explore data in this field to potentially report specifically on this emissions sector in future years.

There are three Ecosystems Objectives within the Climate Plan and appropriate metrics are expected to be developed as part of the Resilient Saanich: Environmental Policy Framework over the next couple of years. In the interim, the Climate Plan Report Card will focus on reporting on Ecosystem actions; eight of which were identified as either underway or to commence in 2020. Six of these 2020 actions (75%) are *Ongoing* or *On track* and two additional actions identified for 2021 have commenced and are also *On track*. However, additional resources are required to get the remaining 2020 actions back on track and make further progress in 2021, including on *First Priority Action 5 (Climate Action E1.1) Double the rate of planting trees to enhance urban forest* and *First Priority Action 6 (Climate Plan Strategy E2): Improve climate resilience of Saanich's infrastructure, such as our stormwater system, flood hazard planning and engineering design specifications*. The resources needed to do this are identified against specific actions in the Ecosystems Actions tables in the Appendix.



“Saanich has started a process to develop an Environmental Policy Framework that is referred to as “Resilient Saanich”. “Resilient Saanich” is based on three pillars: Biodiversity Conservation Strategy, Climate Plan and Enhanced Environmental Stewardship. It will consider existing and potential future policies, plans, and programs to integrate sustainability and the natural environment.”



“Saanich Parks Staff, Council, and community members have been celebrating Tree Appreciation Day in Saanich since 1995. The 25th anniversary celebration was held in Mount Douglas Park this year. Over 600 native trees, shrubs and ferns were planted to help restore the barren forest floor understory adjacent to the Beach Parking Lot.”



Photo supplied courtesy of Parks, Recreation and Community Services

## Progress on Ecosystems Targets

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

## 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



# Community Well-being

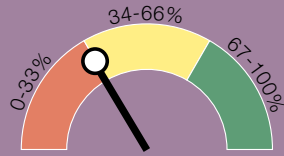


Photo supplied courtesy of Parks, Recreation and Community Services

# Community Well-being Summary

The objectives, strategies and actions within Community Wellbeing focus on the ability of people and organizations in Saanich to be resilient in a changing climate and empowered to take climate action. This also emphasizes the need to consider equity - we must work towards the just distribution of the benefits of climate actions and alleviate unequal burdens created or worsened by climate change. We are fortunate to have multiple existing and potential future partners within the region that support us in embedding equity in our climate actions.

Metrics are yet to be developed to monitor and report on progress towards achieving this vision. In the interim, the Climate Plan Report Card will focus on reporting on Community Wellbeing actions; nine of which were identified to commence in 2020. Three of these nine actions (33%) are either *Achieved* or *On track* and three additional actions identified for future years have commenced and are also *On track*. However, additional resources are required to get the remaining 2020 actions back on track and make further progress in 2021, including on *First Priority Action 7 (Climate Plan Strategy C2): Catalyze community actions by developing a supportive network and resources to encourage and sustain personal efforts.*



People in Saanich learned to measure their personal GHG emissions and develop a simple three point action plan to become more climate-friendly and resilient using the Residents' Climate Action Guidebook. Then they shared their climate commitments with us – here's a word cloud of their answers.



*“The Institute for Global Solutions at Claremont Secondary School, a One Planet Saanich stakeholder, adapted to COVID-19 by hosting their guest speaker series at Cordova Bay. They’ve now entered a working agreement with Peninsula Streams to conduct research at Cordova Bay as part of their Environmental Science class.”*

## Progress on Community Well-being Targets

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

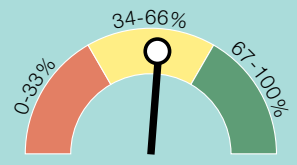
## Progress on Community Well-being Objectives

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





# Leadership in District Operations

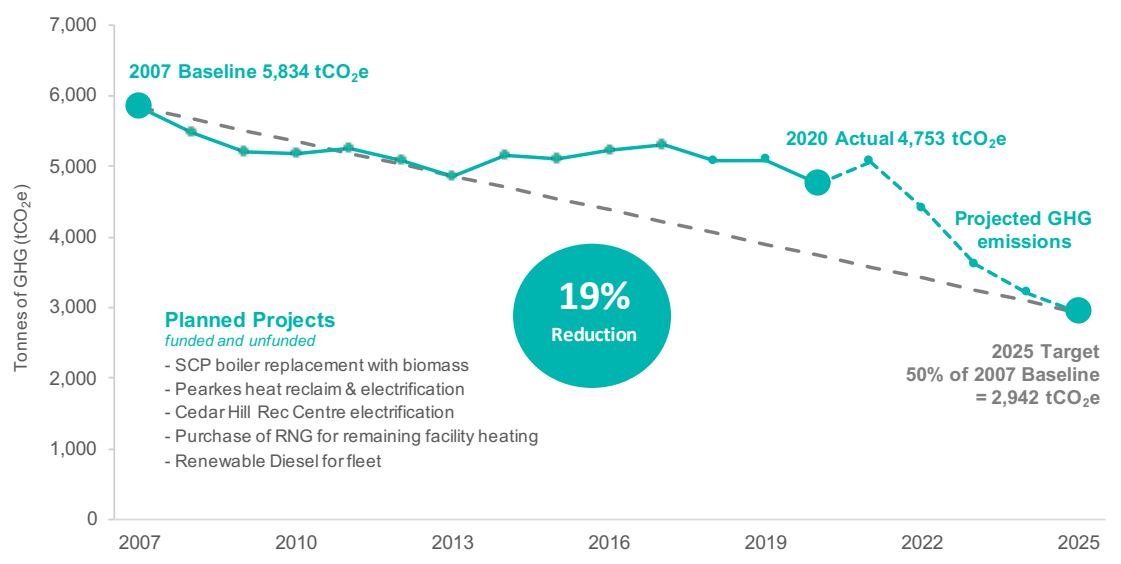


# Leadership in District Operations Summary

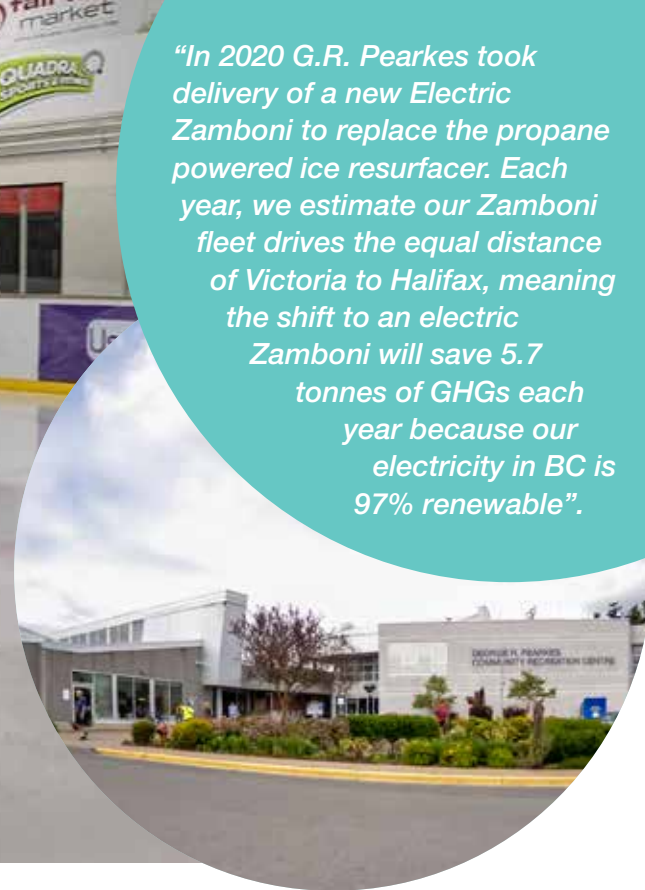
The latest 2020 corporate greenhouse gas emissions (GHG) inventory indicates that there has been a 19% reduction in Saanich's GHG emissions since our 2007 baseline. While, 2020 marked a climate milestone for the municipal fleet, with all light duty cars now fully electric, our heavy duty vehicles and trucks continue to be the main contributor to our corporate GHG emissions. Progress on fleet emissions is primarily hindered by the lack of market available medium and heavy duty electric vehicles. However, there is the potential to purchase Renewable Diesel as an interim solution to help meet our 2025 corporate GHG emissions reduction target while the electric vehicle market further develops.

Multiple Leadership in District Operations actions were progressed in 2020 with eight of the 16 actions identified for 2020 either achieved or on track. The feasibility, design work and grant applications to support several future corporate climate projects progressed in 2020 and these are listed in the Figure below. Many of these projects are currently unfunded and their implementation will be required if we are to reach our 2025 corporate GHG emissions target. Specific resources and needs required to get back on track for the remaining actions are identified within the Appendix.

District of Saanich Corporate GHG Emissions







“In 2020 G.R. Pearkes took delivery of a new Electric Zamboni to replace the propane powered ice resurfer. Each year, we estimate our Zamboni fleet drives the equal distance of Victoria to Halifax, meaning the shift to an electric Zamboni will save 5.7 tonnes of GHGs each year because our electricity in BC is 97% renewable”.

## Progress on Leadership in District Operations Targets

Baseline:	In 2007, Saanich’s corporate emissions were	5,834	t CO <sub>2</sub> e
Latest measurement:	As of 2020, Saanich’s corporate emissions were	4,753*	t CO <sub>2</sub> e

\*October 2019 to September 2020 data

## 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	not reported	2019	A	2020	A	A



## Conclusions and Next Steps



At the beginning of 2020, Council approved the Climate Plan: 100% Renewable & Resilient Saanich. The District of Saanich was awarded the Community Energy Association's 2020 Climate & Energy Action Award and the Planning Institute of British Columbia's 2020 Silver Award for Excellence in Policy Planning for the Climate Plan, and was recognized for demonstrating exceptional climate leadership. Council also made the commitment to implement the plan and monitor progress; approving climate action funding requests in principle and joining the Global Covenant of Mayors for Climate, reporting publicly through the CDP platform. In 2020, the District of Saanich was recognized by the CDP as one of 88 global cities and 6 within Canada to score the top 'A' grade based on our global environmental reporting and disclosure.

However, while Council unanimously adopted the Climate Plan and approved in principle the funding and resources required for its implementation, the outbreak of COVID-19 led to an unprecedented situation for budget discussions and, as such, resulted in a status quo budget being approved for 2020. Given this, some of the climate plan actions identified for 2020 have not been initiated or are behind schedule.









Despite this, there has been an incredible amount of climate work implemented by the District of Saanich, our partners and community members in this difficult year with many inspiring examples of adapting climate action to new constraints. We have also seen some small progress on our community-wide and corporate GHG emissions reductions in the latest inventories. However, we recognize that we are still not on track to meet our 2030 climate targets and considerable work is required. As directed by Council, the climate action resource requests deferred from the 2020 budget have been resubmitted for Council deliberation as part of the 2021 Budget to assist with getting back on track throughout 2021 and beyond.



## 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	Funding required. Resource requests will be made as part of the 2021 Budget.
M1.2	Pilot an electric bicycle incentive program		2020	Behind schedule	Program design underway. Grant application to be made. Funding required - resource requests will be made as part of the 2021 Budget.
M1.3	Expand the Active School Travel planning program		2020	Behind schedule	Resources required. Resource requests will be made as part of the 2021 Budget.
M1.4	Improve bike parking at existing buildings		2020	Behind schedule	Requires review and amendments to the Zoning Bylaw delayed due to resource restrictions. Expected to commence in 2021.
M1.5	Explore integration between transit and other shared mobility providers		2022-2024	Future action	Future action.
M1.6	Support bike shares and other shared mobility services		2020	Achieved	Completed bylaw updates to permit these and provided license for operation of U-bike. Staff will monitor results of the Phase 1 BC Motor Vehicle Act pilot on e-mobility devices.
M1.7	Support lower speed limits on residential streets		Underway	On track	Application to the Province for a Phase 2 BC Motor Vehicle Act pilot project on reduced statutory speed limit in development and endorsed by Council.

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 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	COVID-19 resulted in transit expansion budget put on hold. Rapid Bus Program - due for VRTC approval early 2021. Implementation will require considerable investment to achieve necessary service level improvements.
M2.2	Support increased residential density along public transit routes	●	2021-2022	Future action	Uptown Douglas Plan complete. Regulations adopted to permit garden suites on RS lots within the sewer service area. However, other Local Area Plans on hold. McKenzie Corridor study required in 2021 as part of Rapid Bus project and would be supported through the transportation 2021 budget requests.
M2.3	Make transit travel time-competitive	●	2021-2022	Future action	Requires funding to implement the Rapid Bus Program. Transit Priority Signals installed at key Saanich locations - but investment in BCT fleet is required for this technology to be utilized.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Mobility Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
M2.4	Investigate and consider updating off-street parking requirements to support a mode shift towards active transportation	●	2021-2022	Future action	Requires review and amendments to the Zoning Bylaw. Resource requests will be made as part of the 2021 Budget.
M2.5	Advocate for increased funding for transit service expansion and improvement	●	2020-2022	On track	Early work with BC Transit to determine funding shortfall to meet targets. Council presentations/delegations due early 2021.
M2.6	Advocate for climate-informed ride hailing regulations	●	2020-2022	On track	Input to Province ongoing. Limited control at the municipal level.
M2.7	Work with BC Transit to incorporate latest best practices and new technology needs	●	2022-2024	Future action	Future action.
M2.8	Develop policies and resources for parking management and enforcement	●	2024-2029	Future action	Future action.

Implementation Priority:











First Priority

High Priority

Medium Priority

Low Priority

# Progress on Mobility Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS	
<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.
M3.2	Require EV-ready infrastructure for new development		Underway	Achieved	EV-Ready Infrastructure Requirements bylaws adopted by Council and came into effect September 1, 2020.
M3.3	Support EV infrastructure retrofits in existing buildings		Underway	On track	Draft feasibility template developed for Multi-unit residential buildings. Advocated to province for increased incentives. Implementation expected 2021.
M3.4	Expand public EV charging network		Underway	On track	Grant funding for 20 new Level 2 EV charging stations secured. Installation expected 2021.
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.
M3.6	Support “Right to Charge” legislation		2020	On track	Province has committed to bringing this forward and is included in the ministerial mandate letters. Staff continue to input and monitor.
M3.7	Work with organizations in Saanich to reduce emissions from fleets		2022-2024	Ahead of schedule	Discussions underway. BC Transit RFP posted Q4 2020 for heavy duty electric buses.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on E-Mobility Strategy Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<i>Electric Bikes</i>				
EB.1	Accelerate the implementation of the Active Transportation Plan	●	2020-2025 On track	Funding required. Resource requests will be made as part of the 2021 Budget.
EB.2	Plan compact, complete communities and focus density in nodes and corridors	●	2020-2025 Behind schedule	Uptown Douglas Corridor Plan complete. However, other Local Area Plans on hold. McKenzie Corridor study required in 2021 as part of Rapid Bus project and would be supported through the transportation 2021 budget requests.
EB.3	Identify and plan for infrastructure to ensure the safety and security of e-bike riders and others	●	2020-2025 Behind schedule	Not started due to resource restrictions. Will be supported by the sustainability resource request for the 2021 Budget.
EB.4	Advocate to the provincial and federal governments for an e-bike incentive program not linked to Scrap-It	●	2020-2022 On track	Communication with provincial staff ongoing. Saanich e-bike incentive program may provide the proof of concept.
EB.5	Provide 'top-up' incentives to augment provincial/federal e-bike incentive programs	●	2020-2022 Behind schedule	Awaiting provincial e-bike incentive program.
EB.6	Pilot an e-bike incentive/trial program	●	2020-2022 Behind schedule	Program design underway. Grant application to be made. Funding required - resource requests will be made as part of the 2021 Budget.
EB.7	Increase awareness of e-bikes through a comprehensive communications campaign	●	2020-2023 On track	E-bike factsheet developed and engaging regionally on developing a communication campaign.
EB.8	Support lower speed limits on residential streets	●	2020-2023 On track	Application to the Province for a Phase 2 BC Motor Vehicle Act pilot project on reduced statutory speed limit in development and endorsed by Council.

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.9	Review and update the Zoning Bylaw to consider amendments that support e-bikes	●	2021-2023 Future action	Requires review and amendments to the Zoning Bylaw. Expected to commence in 2021.
EB.10	Advocate to BC Transit and the CRD to update their infrastructure design guidelines to support e-bikes	●	2021-2023 Future action	Future action.
EB.11	Develop policies and infrastructure to support other kinds of e-mobility in collaboration with the Province and regional partners	●	2021-2023 Future action	Future action.

<i>Electric Vehicles</i>				
EV.1	Advocate to provincial and federal governments to maintain EV incentive programs	●	2020-2025 On track	Communication and input ongoing
EV.2	Increase awareness of EVs through a comprehensive communications campaign	●	2020-2023 On track	Collaborating regionally on the development of a communications campaign
EV.3	Explore E-mobility requirements and incentives for business licenses and fees	●	2021-2022 Future action	Will be supported by the sustainability resource request for the 2021 Budget.
EV.4	Encourage and support regional organizations to convert their fleets to Zero Emission Vehicles (ZEVs)	●	2020-2025 On track	Discussions underway. BC Transit RFP posted Q4 2020 for heavy duty electric buses.
EV.5	Support car sharing organizations to electrify their fleet	●	2021-2023 Future action	Future action. Will be supported by the sustainability resource request for the 2021 Budget.
EV.6	Advocate that higher levels of government work to remove barriers to EV adoption	●	2021-2024 Ahead of Schedule	Ongoing input to higher levels of government.
EV.7	Explore the potential for EVs to act as backup power supply	●	2021-2025 Future action	Future action.

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>Home and Workplace Charging</i>					
H+W.1	Monitor Saanich EV Infrastructure Requirements for New Developments and share knowledge regionally	●	2020-2025	On track	EV Infrastructure requirements implemented, monitoring system to be established early 2021.
H+W.2	Advocate for Right to Charge legislation	●	2020-2021	On track	Province has committed to bringing this forward and is included in the ministerial mandate letters. Staff continue to input and monitor.
H+W.3	Create guidelines for 100% EV-ready feasibility studies in existing multi-unit residential buildings	●	2020-2021	On track	In development with funding support from BC Hydro.
H+W.4	Promote incentives for EV charging infrastructure	●	2020-2023	On track	Promoted through multiple channels, e.g. webpage, social media, utility bill mailouts etc.
H+W.5	Provide 'top-up' incentives to augment provincial/federal EV charging infrastructure incentives for existing MURBs as required	●	2021-2022	Future action	Will be supported by the sustainability resource request for the 2021 Budget.
H+W.6	Explore the need for and provide incentives for EV charging infrastructure feasibility studies in existing MURBs if required	●	2021-2022	Future action	Will be supported by the sustainability resource request for the 2021 Budget.
H+W.7	Provide EV charging infrastructure education for MURBs	●	2020-2021	On track	Early actions, increased engagement will be supported by the sustainability resource request for the 2021 Budget.
H+W.8	Identify and address potential policy barriers to EV infrastructure in existing buildings	●	2021-2023	Future action	Funding required. Resource requests to update the Development Permit Area Design Guidelines and review and update the Zoning and Building bylaws will be made as part of the 2021 Budget.
H+W.9	Support off-site EV charging for MURBs	●	2021-2023	Future action	Future action.

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.10	Support workplace EV charging	●	2021-2023 Future action	Future action.
H+W.11	Support dedicated EV charging access for car shares near MURBs	●	2022-2023 Future action	Future action.
H+W.12	Explore various financial approaches to overcome the capital cost barrier to EV charging	●	2022-2023 Future action	Future action.
<b>Public Charging</b>				
PN.1	Identify priority areas in Saanich for the provision of additional public EV charging stations	●	2021-2022 Future action	Future action.
PN.2	Work with BC Hydro and the provincial and federal governments to install more DC fast charging stations in Saanich	●	2020-2022 On track	Ongoing discussions with BC Hydro to demonstrate desire for additional DC fast chargers. Promoted provincial grants for DCFC installation.
PN.3	Explore how to encourage private sector investment in new EV charging infrastructure	●	2021-2025 Future action	Future action.
PN.4	Embed EV charging considerations in Saanich planning processes	●	2021-2023 Future action	Future action.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on E-Mobility Strategy Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Saanich Leadership</b>				
Lead 1	Develop a fleet strategy to reduce corporate emissions	●	2020-2021 Behind schedule	Work underway e.g. Uvic partnership to develop options for EV charging requirements at new Public Works site, grant application for fleet EV chargers. Additional resources required. Will be addressed by the sustainability and fleet resource requests for the 2021 Budget.
Lead 2	Convert all light-duty fleet vehicles to zero emissions vehicles	●	2020-2025 On track	All municipal fleet cars have now been replaced with EVs. New Level 2 EV chargers at Engineering. Grant application submitted for 20 x Level 2 EV fleet chargers.
Lead 3	Develop an e-bike fleet program	●	2020-2022 On track	Research near completion. Initial purchase expected Q1 2021.
Lead 4	Implement a Climate Friendly Commuter Program and improve bike parking at all Saanich facilities	●	2020-2022 Behind schedule	Behind schedule due to resource restrictions. Will be addressed by the sustainability resource request for the 2021 Budget.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority



# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy B1: Require efficient, net-zero carbon new construction</b>					
B1.1	Identify and remove municipal barriers to high-performance buildings	●	2020	Behind schedule	Funding required. Resource requests to update the Development Permit Area Design Guidelines and review and update the Zoning and Building bylaws made as part of the 2021 Budget.
B1.2	Accelerate adoption of net-zero carbon new construction	●	2020	Behind schedule	Requires Action B1.1 to be initiated first. Should funding for this be approved in the 2021 budget, engagement on the next phase of the BC Energy Step Code could commence late 2021.
B1.3	Require new construction to achieve upper steps of the BC Energy Step Code by 2025	●	2021-2022	Future action	Future Action. Dependent upon delivery of Climate Action B1.1 and B1.2.
B1.4	Support building industry capacity development	●	Underway	Ongoing	Industry workshop and rebate to support Step Code implementation. Considerable engagement and training on retrofits through Transition 2050 e.g. workshops, Best Practice Installation Guides, factsheets, webinars etc.
B1.5	Encourage the adoption of low-carbon materials in new construction	●	2021-2022	Future action	Will be addressed by the sustainability resource request for the 2021 Budget.
B1.6	Advocate for GHG performance metrics in the BC Building Code	●	2020-2021	Ongoing	Requests both to the province and via the BC Energy Step Code peer network.
B1.7	Require energy benchmarking for new Part 3 buildings	●	2021-2022	Ahead of Schedule	Participating in Benchmark BC to present the business case for the introduction of benchmarking BC wide.

Implementation Priority:











First Priority

High Priority

Medium Priority

Low Priority

# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy B2:  Accelerate efficiency and renewable energy upgrades in existing buildings</b>					
B2.1	Launch a Home Energy Retrofit Municipal Financing pilot project		Underway	Behind schedule	Program design underway. Delayed launch due to COVID-19.
B2.2	 Phase out oil heating by 2030		2020	Behind schedule	Behind schedule due to limited resources. Will be addressed by the sustainability resource request for the 2021 Budget.
B2.3	Carry out effective communications campaigns to promote conversion to renewable energy systems		2020	Ongoing	Multiple actions e.g. Residents' Climate Action Guidebook, utility bill inserts, presentations, participation in Bring it Home 4 Climate program.
B2.4	Explore regulatory power to require efficiency and renewable energy upgrades		2020	Behind schedule	Not started due to limited resources. Will be addressed by the sustainability resource request for the 2021 Budget.
B2.5	Increase top-up rebates for conversion from fossil fuel to renewable energy systems		Underway	On hold	While Saanich top-up rebates continue, unable to increase due to limited resources. May be somewhat addressed by the sustainability resource request for the 2021 Budget.
B2.6	Develop a comprehensive building retrofit strategy		2020-2022	On track	T2050 project complete - includes high level strategy. Grant application for a Regional Retrofit Service submitted to FCM in Q3 (design in 2021, budget dependent). Financing component included.

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
B2.7	Work with partners to support skills development	●		2021-2022	Future action	Future action.
B2.8	Advocate for long-term, effective rebate programs	●		2020	Ongoing	Multiple avenues utilized to advocate to the provincial government, including on climate related stimulus funding. 'Double the Rebates' implemented Q4 2020.
B2.9	Advocate for provincial support on property assessed clean energy financing	●		2020	Ongoing	Participation in PACE BC program, multiple presentations and discussions on the Saanich Municipal Financing Pilot.
B2.10	Work with industry partners to support renewable energy retrofits	●		Underway	Ongoing	Partnered with BOMA BC on the Greater Victoria 2030 Resilient District, participating in Building Benchmark BC and collaboration through Bring it Home 4 Climate program.
B2.11	Develop incentive tools to encourage commercial and multi-unit residential buildings to undertake deep energy retrofits	●		2020	Behind schedule	Initiated a commercial retrofit design project. However, currently behind schedule due to resource restrictions.
B2.12	Work with the Province to prevent fuel switching from low-carbon to high-carbon energy sources	●		2020	On track	Provincial lead - ongoing input to Provincial legislation and programs. Electrification incentives launched Dec, 2020.
B2.13	Participate in retrofit code development	●		2020	Behind schedule	Provincial lead. Expected 2021.
B2.14	Introduce voluntary energy benchmarking for existing buildings	●		2024-2029	Ahead of schedule	Participating in Benchmark BC to present the business case for the introduction of benchmarking BC wide and partnered with BOMA BC on the Greater Victoria 2030 Resilient District, a voluntary program incorporating benchmarking.

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
B2.15	Advocate for home energy labelling and disclosure	●		2024-2029	Future action	Future action. Home energy labelling is required for all new homes in Saanich.
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	Participating in Benchmark BC to present the business case for the introduction of benchmarking BC wide.
Strategy B3: Increase energy resilience and renewable energy supply						
B3.1	Support development of local Renewable Natural Gas production	●		Underway	On track	CRD approval in principle with FortisBC for purchase of RNG from Hartland Landfill. Developed RNG factsheet, RNG communications and purchase RNG for our facilities.
B3.2	Support the Province and utilities to produce sufficient renewable energy	●		2021-2022	Ahead of schedule	Participating and/or providing input to utility strategic plans and rate option development.
B3.3	Develop a renewable energy guide for residents	●	●	2024-2029	Future action	Future action.
B3.4	Work with the province and utilities to incentivize local renewable energy production	●		2024-2029	Future action	Future action.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Buildings and Infrastructure Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy B4: Transition towards a climate-ready building stock</b>						
B4.1	Develop strategies to preserve and enhance permeability and stormwater management		●	2021-2022	Future action	A strategy to develop an Integrated Stormwater Master Plan (ISMP) has been completed. The ISMP is a multi-year/multi-project program. Resources are required in 2021 and beyond to complete this work and will be submitted in the 2021 Budget.
B4.2	Develop a “programmed roof” policy	●	●	2021-2022	Future action	Likely delayed until ISMP is well underway.
B4.3	Advocate for the incorporation of climate adaptation considerations into the BC Building Code		●	2020	Behind schedule	Not started due to limited resources.
B4.4	Encourage building design or retrofit measures to reduce impacts from heat waves and poor air quality events		●	2022-2024	Future action	Future action.
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
<b>Strategy B5: ☀️ Increase the resilience of Saanich's infrastructure and assets</b>						
B5.1	Include climate change considerations in the corporate asset management system		●	2021-2022	Future action	Resources request in the 2021 budget for an Asset Manager to develop an Asset Management Policy and Plan - to include natural assets and climate change considerations.
B5.2	Update engineering design specifications to account for future climate projections		●	2021-2022	Future action	Future action.
B5.3	Conduct flood hazard planning		●	Underway	On track	A regional Coastal Flood Inundation Mapping project was completed in 2020 in collaboration with the CRD. Resources are required in 2021 and beyond to complete inland flood hazard planning for waterways.
B5.4	Accelerate the completion of a stormwater master plan with climate change considerations		●	2021-2022	Future action	A strategy to develop an Integrated Stormwater Master Plan (ISMP) has been completed. The ISMP is a multi-year/multi-project program. Resources are required in 2021 and beyond to complete this work.
B5.5	Investigate on-site stormwater management practices on private lands		●	2024-2029	Future action	Future action.
<b>Strategy B6: Prepare for long-term sea-level rise</b>						
B6.1	Complete sea-level rise mapping		●	Underway	Achieved	A regional Coastal Flood Inundation Mapping project was completed in 2020 in collaboration with the CRD.
B6.2	Increase sea-level rise knowledge and adaptation capacity in the community		●	2022-2024	Future action	Future action.
B6.3	Develop a Coastal Adaptation Strategy		●	2022-2024	Future action	Future action.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Food and Materials Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy F1: Reduce the climate impact of food production and consumption</b>						
F1.1	Reduce carbon emissions from local food production	●	●	2021-2022	Future action	Future action.
F1.2	Encourage residents to choose low-carbon foods and reduce food waste	●	●	Underway	Behind schedule	Joined the national Love Food Hate Waste campaign, launched the Residents' Climate Action Guidebook, which incorporates low carbon food information, updated the Saanich Carbon Calculator to incorporate food and consumption. However, limited marketing and impact due to limited resources.
F1.3	Encourage food service establishments to reduce carbon emissions from their operations	●		2022-2024	Future action	Future action.
<b>Strategy F2: Move towards "lighting living" in Saanich</b>						
F2.1	Reduce single-use plastics			Underway	On hold	Municipal bylaw on hold due to COVID-19. Federal engagement Q4 2020 on a national single-use plastic item ban.
F2.2	Develop and implement a Zero Waste Strategy	●		2022-2024	Future action	Future action.
F2.3	Work towards zero waste for large public events	●		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
F2.4	Work with partners on circular economy initiatives	●		2022-2024	Future action	Future action.
F2.5	Mobilize residents and businesses towards “lighter living”	●		2020-2022	Behind schedule	One Planet Saanich is due to pilot a ‘Lighter-living app’. Saanich launched the Residents’ Climate Action Guidebook and updated the Saanich Carbon Calculator to address consumption. However, limited marketing and impact due to limited resources.
F2.6	Advocate for expansion of extended producer responsibility programs	●		2024-2029	Future action	Future action.
F2.7	Improve monitoring of and compliance with a recyclable materials ban	●		2024-2029	Future action	Future action.

Strategy F3: Improve the resilience and self-sufficiency of the local food system						
F3.1	Accelerate the implementation of Agriculture and Food Security Plan	●		2021-2022	Future action	Future action.
F3.2	Support an Agricultural Adaptation Strategy for Vancouver Island		●	2021-2022	Future action	The Vancouver Island BC Agriculture and Climate Change Adaptation Strategies Plan now complete. Additional resources to support implementation of the plan will be required as part of the 2021 budget.
F3.3	Increase capacity for local food production	●	●	2022-2024	Future action	Future action.
F3.4	Increase adoption of water-wise agricultural practices		●	2024-2029	Future action	Future action.

Implementation Priority:




First Priority

High Priority

Medium Priority

Low Priority

# Progress on Ecosystems Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy E1: Enable natural systems to thrive and adapt</b>						
E1.1 	Double the rate of planting trees to enhance the urban forest	●	●	2020	Behind schedule	Not started due to resource requirements. Will be included in the 2021 budget requests.
E1.2	Increase stewardship tools for private land owners		●	2020	On track	A series of educational booklets launched and additional stewardship tools will be developed through the Resilient Saanich initiative.
E1.3	Implement “Natural Intelligence” parks program		●	Underway	Ongoing	Program launched in 2020 with a summer media campaign. Further initiatives to be rolled out in 2021.
E1.4	Develop an operational approach to tree retention and replacement during development	●	●	2020	Behind schedule	Streetscape design guidelines developed but yet to be adopted - address public land. Tree retention on private land requires review of the Development Permit Area Design Guidelines, also necessary for Climate Action B1.1. Resource request will be made as part of the 2021 Budget.
E1.5	Protect and expand the urban forest	●	●	2020	On track	Created an Urban Forest Reserve Fund, some strengthening of the tree bylaw and funding approved to update the Urban Forest Strategy. Canopy cover data to be partially provided by CRD, additional resources requested in 2021 budget to support data collection and tree inventory.
E1.6	Develop and implement a Biodiversity Conservation Strategy		●	2020-2022	On track	The Resilient Saanich initiative is on track which includes development of a Biodiversity Conservation Framework.
E1.7	Expand, connect and restore natural areas		●	2021-2022	Future action	Future action. Potential outcome of the Resilient Saanich initiative.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Ecosystems Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
E1.8	Partner with school districts on environmental education	●	●	Underway	Ongoing	Several actions completed e.g. Park school partnerships, school and youth group participation in invasive species plant removal. Garry Oak Education Kit completed but requires additional resources for follow-up.
E1.9	Explore carbon dioxide removal measures with partners	●		2020	On track	Participated in project to analyse forest carbon sequestration dynamics across the capital region led by the CRD in partnership with NRCan and funded in part by Pacific Institute for Climate Solutions (PICS)
E1.10	Prevent planting and spread of invasive plants		●	2021-2022	Ahead of schedule	Pulling Together Program. Staff continue to work with CRISP to coordinate efforts. A revised Noxious Weeds Bylaw will likely include provisions to regulate the planting of invasive species.
E1.11	Improve monitoring of ecosystem health		●	2022-2024	Future action	Anticipated outcome of the Resilient Saanich initiative.
E1.12	Develop principles for assisted migration		●	2022-2024	Future action	Anticipated outcome of the Resilient Saanich initiative.
E1.13	Improve compliance with new bylaws and policies		●	2022-2024	Future action	Anticipated outcome of the Resilient Saanich initiative.

## Strategy E2: Protect and manage natural assets as critical infrastructure

E2.1	Evaluate services provided by natural assets	●	●	2021-2022	Future action	Resources request in the 2021 budget to develop an Asset Management Policy and Plan - to include natural assets and climate change considerations.
E2.2	Develop a strategy to maintain services provided by natural assets	●	●	2021-2022	Future action	While the district takes a strategic approach to park land acquisition, this action will likely be an outcome of an Asset Management Policy and Plan.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Community Well-being Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy C1: Ensure emergency and community health services keep pace with climate change</b>						
C1.1	Retrofit municipal facilities to increase cooling and air filtration capabilities		●	2020-2022	On track	Cooling and air filtration considered during facility upgrades. Future-proofing often incorporated into design.
C1.2	Undertake urban heat mapping		●	2022-2024	Future action	Future action.
C1.3	Work with partners to ensure coordinated response during severe weather events		●	2022-2024	Future action	While the Provincial Extreme Weather Protocol Strategy exists, work to involve and coordinate with Island Health is a future action.
C1.4	Update Wildfire Protection Plan and Interface Fire Hazard Development Permit Area		●	2022-2024	Ahead of schedule	An update to the Community Wildfire Protection Plan is underway with grant funding support.
C1.5	Develop Saanich-specific wildfire prevention materials		●	2022-2024	Ahead of schedule	Anticipated to be included as part of the updated Community Wildfire Protection Plan.
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	Ahead of schedule	West Nile Virus Response Plan and Rat Control established
C1.8	Review severe weather protocols for vulnerable populations		●	2024-2029	Future action	Future action - the Extreme Weather Protocol Strategy is provincial but delivered at the local level and focuses on cold weather. Needs to be expanded for extreme heat/wildfire events and incorporate resources such as a concierge to enable input from vulnerable populations.

Implementation Priority:



First Priority


High Priority

Medium Priority

Low Priority



# Progress on Community Well-being Actions

ACTION	DESCRIPTION	MITIGATION	ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy C2:  Empower Saanich residents and businesses to take climate action</b>						
C2.1	Implement a tangible and hands-on neighborhood-level program	●	●	2020	Behind schedule	Neighbour-to-Neighbour website launched and many events adapted for social distancing. However, this action is behind schedule due primarily to COVID-19.
C2.2	Host an annual climate fair	●	●	2020	On hold	On-hold due to COVID-19
C2.3	Provide educational programming and workshops	●	●	2020	Behind schedule	Impacts from COVID-19. While educational programs were developed, launched and communicated e.g. the Bring it Home 4 Climate program and Neighbour-to-Neighbour webpage, greater action is required.
C2.4	Carry out a communications campaign on urgent climate action	●	●	2020	Behind schedule	Multiple actions including Residents' Climate Action Guidebook, utility bill inserts, presentations, social media, Bring it Home 4 Climate program. However, resources limited and greater action required.
C2.5	Host a Community Climate Collaborative	●	●	2020	On hold	On hold due to COVID-19.
C2.6	Develop an equity tool	●	●	2020	On track	Equity training supported by USDN. Completed an Energy Poverty Profile for Saanich. Housing Strategy and other programs will incorporate an equity lens. Recreation developing a Strategic Equity Plan with resources requested in the 2021 budget.
C2.7	Develop a Saanich climate information webpage	●	●	2020	Achieved	Developed and regularly updated.

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
C2.8	Seek opportunities to work with neighboring First Nations	●	●	2020	Behind schedule	First steps being undertaken at the leadership level and through collaboration with Community Services and the development of the Strategic Equity Plan.
C2.9	Explore a bulk-purchase program	●	●	2022-2024	Future action	Future action.
C2.10	Develop a community grants program	●	●	2024-2029	Future action	Future action.
C2.11	Collaborate with researchers and post-secondary institutions	●	●	2024-2029	Future action	Future action.
C2.12	Work with the arts community	●	●	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
<b>Strategy L1: Integrate climate action into Saanich processes and decision-making</b>						
L1.1	Establish a new Climate Action Reserve Fund	●	●	2020	Behind schedule	While a new Climate Action Reserve Fund has been established, resources are required as part of the 2021 budget to increase the carbon tax rate.
L1.2	Include a climate alignment scorecard in reports to Council for development projects	●	●	2020	On track	In development with potential implementation early 2021.
L1.3	Establish a carbon price policy	●		2020	Behind schedule	Not started due to resource restrictions.
L1.4	Create a climate leadership group	●	●	2020	Achieved	Internal Climate Working Group established.
L1.5	Develop a risk register and monitoring platform		●	2020	Behind schedule	Enterprise Risk Management Framework drafted but additional resources required to develop a Climate Risk Register. Part of budget requests in 2021.
<b>Strategy L2: Become a climate friendly employer</b>						
L2.1	Implement a Climate Friendly Commuter Program	●		2020	Behind schedule	Behind schedule due to resource restrictions. Will be addressed by the sustainability resource request for the 2021 Budget.
L2.2	Implement a training and capacity building program	●	●	2020	Behind schedule	Behind schedule due to resource restrictions. Will be addressed by the sustainability resource request for the 2021 Budget.
L2.3	Recognize innovation, successes and leadership	●	●	Underway	Ongoing	Climate Plan awarded CEA Climate & Energy Action Award, PIBC Silver Award for Excellence in Policy Planning and one of 88 global cities to achieve the CDP 'A' grade.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Leadership in District Operations Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy L3: Transition to an efficient, renewably powered fleet</b>				
L3.1	Develop a fleet strategy to reduce corporate emissions	●	2020 Behind schedule	Work underway e.g. Uvic partnership to develop options for EV charging requirements at new Public Works site, grant application for fleet EV chargers. Analysis of low and zero carbon fuel and vehicle technologies completed and ongoing. Renewable Diesel potential interim solution while electric vehicle market develops. Sustainability and fleet resource requests in 2021 will support a comprehensive strategy.
L3.2	Convert all light-duty vehicles to zero-emissions vehicles	●	Underway On track	All municipal fleet cars have now been replaced with EVs. New Level 2 EV chargers at Engineering. Grant application submitted for 24 x Level 2 EV fleet chargers.
L3.3	Develop an e-bike fleet program	●	2020 On track	Research near completion. Initial purchase expected Q1 2021.
L3.4	Review industry readiness to support medium- and heavy-duty fleet conversion pilot projects	●	2022-2024 Future action	Future action - will require additional resources.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority

# Progress on Leadership in District Operations Actions

ACTION	DESCRIPTION	MITIGATION ADAPTATION	INITIATION TIMELINE	STATUS UPDATE	COMMENTS
<b>Strategy L4: Transition to efficient and renewably-powered municipal buildings</b>					
L4.1	Transition to highly efficient and renewably-powered municipal facilities	●	Underway	Ongoing	Multiple facility energy projects completed in 2020 e.g. lighting upgrades, design for biomass at SCP, carbon neutral design for Fire Hall 2, CleanBC grant application for heat recovery at Pearkes. New electrical and mechanical standards that incorporate energy efficiency and improve building performance.
L4.2	Pilot low-carbon materials in municipal new construction	●	Underway	Ongoing	New Facility Standards for materials incorporate low carbon, environmentally friendly products. Design of Fire Station 2 follows BC's Wood First Initiatives through the application of mass timber and steel and concrete are minimized as much as possible.
L4.3	Showcase efficient and renewably-powered municipal buildings	●	Underway	On track	Sustainability webpages, social media, awards, factsheets etc. Some engagement e.g. tours, impacted by COVID-19.
<b>Strategy L5: Reduce waste and GHG emissions from goods and services</b>					
L5.1	Model a low-carbon diet through corporate catering	●	2020	Behind schedule	Not started due to resource restrictions and COVID-19 limiting in-person engagement events.
L5.2	Develop a corporate Zero Waste Strategy	●	2024-2029	Future action	Future action.
L5.3	Update Saanich Sustainable Procurement Guidelines	●	2024-2029	Future action	Future action.

Implementation Priority:



First Priority

High Priority

Medium Priority

Low Priority





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