



CORPORATION OF THE CITY OF VERNON

CLIMATE ACTION ADVISORY COMMITTEE

MARCH 27, 2024, AT 4:00 PM

A G E N D A

1) **CALL TO ORDER**

2) **LAND ACKNOWLEDGEMENT**

As chair of the City of Vernon's Climate Action Advisory Committee, and in the spirit of this gathering, I recognize the City of Vernon is located in the traditional territory of the Syilx people of the Okanagan nation.

3) **ADOPTION OF AGENDA**

4) **ADOPTION OF MINUTES**

January 31, 2024 (Attached)

5) **UNFINISHED BUSINESS**

- Council Business Update – *Councillor Guy*
- Staff Update – *Kevin McCarty, Specialist, Climate Action*

6) **NEW BUSINESS:**

- **Subcommittees / Working groups**
- **Creek Sampling Program**
- **Transit Challenge results**

7) **INFORMATION ITEMS**

8) **NEXT MEETING**

The next meeting of the Climate Action Advisory Committee is scheduled for **May 29, 2024**.

9) **ADJOURNMENT**



THE CORPORATION OF THE CITY OF VERNON

**MINUTES OF THE
CLIMATE ACTION ADVISORY COMMITTEE
HELD JANUARY 31, 2024 AT 4:00 PM
OKANAGAN LAKE ROOM (COUNCIL CHAMBER)**

- PRESENT:** VOTING:
Casey Bain, Youth Member
Stephanie Hendy, Community at Large Rep.
Councillor Guy, Council Appointed
Mayor Cumming
Barry Dorval, Educators, Primary and Secondary Rep.
Sid Kwakkel, Educators, Post Secondary Rep.
Donna Bartel, Community at Large
Jenn Comazzetto, SD22 Rep.
- ABSENT:** Casey Neathway, Health & Social Services Rep.
Fawn Ross, Community Stewardship Rep.
Jenna Boone, Youth Member
Patrick Riley, Okanagan Indian Band Rep.
Jordan Hart, Business and Commercial Services Rep.
- STAFF:** Kevin McCarty, Specialist, Climate Action
Barbara Everdene, Long Range Planner
Roy Nuriel, Acting Manager, Planning
Wes Brassard, FireSmart Coordinator

ORDER The meeting was called to order at 4:03 p.m.

**LAND
ACKNOWLEDGEMENT** *As Chair of the City of Vernon's Climate Action Advisory Committee (CAAC), and in the spirit of this gathering, I recognize the City of Vernon is located in the traditional territory of the Syilx people of the Okanagan nation.*

**ADOPTION OF THE
AGENDA** Moved by B. Dorval, seconded by S. Hendy:

THAT the agenda of the January 31, 2024 Climate Action Advisory Committee meeting be adopted:

CARRIED

ORIENTATION

K. McCarty provided an orientation for Committee members, which included the following:

- Review of the Corporate Policy
- Review of the Committee's Terms of Reference
- Review of the City of Vernon's Bullying & Harassment Policy

ELECTION OF CHAIR AND VICE CHAIRChair

There was a call for nominations. S. Kwakkel accepted a nomination for Chair. No other nominations were put forward. S. Kwakkel is appointed Chair for 2024.

Vice Chair

There was a call for nominations. B. Dorval accepted a nomination for Vice Chair. No other nominations were put forward. B. Dorval is appointed Vice Chair for 2024.

GENERAL MEMBERSHIP

General membership was also discussed. Staff is currently advertising for a new CAAC member to represent science and technology. It was recommended by the Committee to advertise and fill the third youth representative position.

UNFINISHED BUSINESS:**COUNCIL UPDATE**

Councillor Guy provided the following update on City Council business:

November 27, 2023 – Regular Council Meeting

- EV charging network keeps expanding; this year we added a fast charger and a level 2 charger at Civic Memorial Park and 6 new level 2 chargers outside the Community Services building.
- Report on the e-scooters: 2023 was another very strong year. The Neuron Mobility staff who presented at Council said that Vernon punches above its weight class on scooter usage.
- Neuron scooters will be back in 2024.

December 11, 2023 - Regular Council Meeting

- Mark Dowhaniuk, Manager, Infrastructure, agreed to provide this Committee with information on the creek sampling plan at a future meeting.
- A motion was passed to ask staff to report back to Council on the pros and cons and possible strategic advantages of advancing our adoption of the BC Energy Step Code and the Zero Carbon Step Code.
- At the Public hearing for 3330 31st Avenue (the old Legion site), the developer agreed to include EV and scooter/ebike charging in the underground parking; also, solar-ready infrastructure will be

added upfront to enable possible future solar panels , and the building will developed to Step 3 of the BC Energy Step Code (at present we only require step 2 for commercial buildings).

January 8, 2024 – Regular Council Meeting

- The Province has passed several pieces of legislation this fall related to housing, and the changes are significant and complex. The goal is to add significantly to the housing stock and to densify everywhere in B.C. However, the legislation could easily have some unintended negative consequences. Council has authorized the Mayor to arrange an in-person meeting with Ravi Kahlon, Housing Minister, focusing on Bill 44, particularly on the changes to public hearings contained in that Bill.
- We have officially started on the road to renew both the Official Community Plan (OCP) and Transportation Master Plan (TMP). Barbara Everdene, Long Range Planner, will be leading the OCP renewal and Danielle de Vries, Transportation Planner, will be leading the TMP update; both are planned to be finished by the end of 2025. These are both significant undertakings and I'm extremely pleased to see that they are both now underway. It's through this renewal initiative that the Climate Action Plan (CAP) can become fully embedded into the key documents that will guide the city for the next several years, and this committee should play a role in this process.

January 22, 2024 – Regular Council Meeting

- Council gave first, second and third reading to amendments to Zoning Bylaw 5000 to permit secondary suites and accessory dwelling units (aka carriage houses) in all single-family and semi-detached housing anywhere in the city.
- Independent of the province we've been moving forward to modernize our zoning bylaw and increase density, however, our progress has been overtaken by the Province with the legislation they have passed this past fall.
- Staff have been studying the implications of Bills 35, 44, and 47.
- Council authorized hiring three more planners for a two-year period to incorporate the required changes into our zoning bylaw, and the province has funded approximately half of the cost.
- Council amended the January 8, 2024 authorization for the Mayor to arrange an in-person meeting with housing minister Ravi Kahlon to include discussing the changes to the rules governing short term rentals (Bill 35) and the unintended consequences for the City of Vernon.

Council has yet to direct Staff to investigate prohibiting 2-stroke engines to reduce greenhouse gas emissions. Upon further review, I

believe this would be a distraction to Staff right now. The CAP has a long list of actions and priorities and this isn't specifically mentioned. It was suggested that CAAC wait to bring that motion to Council to a time when it will have more impact.

The following questions / comments were received:

- Councilor Guy confirmed that speeding up the Step Code should include the pros and cons builders will face. There is no specific timeline for this. Five or six communities have already implemented these changes to their building codes.
- The Committee asked if there is a role for them on the TMP or OCP. Staff confirmed that the OCP/TMP is in the scope of Kevin's work and it is critical that Committees are a part of the process.
- Barbara Everdene commented that Staff do not want climate action to be a reference chapter; we want it woven in the entire document. The OCP covers the entire business of the City and land use, and will set a tone that climate action is important to the city.
- Councillor Guy commented that the CAAC has not started the community engagement part of the CAP. He is hopeful for public input on the CAP dovetailing OCP public interactions.
- Mayor Cumming commented that neighborhood density data should be tracked and Roy Nuriel confirmed this will be part of the OCP process.

J. Comazzetto joined the meeting at 4:25 p.m.

NEW BUSINESS:

STAFF UPDATE

K. McCarty provided the Committee with "Proposed 2024 CAP Implementation Initiatives and Budget" (Attached to these minutes as 'Attachment 2') on table. A total budget of \$650,000.00 was recommended for CAP implementation in 2024, which includes a 20% contingency. Each CAP focus area was discussed separately as follows:

Transportation

- \$275,000.00 from the City's climate action reserve fund is recommended to support active transportation and public transit initiatives in 2024 and into 2025.
- In response to a query on on-demand transit, K. McCarty stated there is not enough capacity to price this out in 2024. The City of Kelowna is currently piloting on-demand transit and our Transportation Department is awaiting the results and will update this Committee on the outcomes.

- Buying electric vehicles for the City is part of the Council Strategic Plan, as well as the Fleet Services Financial Plan. The Climate Action budget may be used to cover the cost premium of EV's purchased by the City.
- Mayor Cumming suggested that fuel consumption data be shared with the CAAC to help track the performance of shift to EV's. This will be provided at a future meeting.
- The Transportation Department is actively developing EV charging infrastructure to support e-mobility.
- Mayor Cumming suggested traffic counters on multi-use paths would help track performance of active transportation metrics.
- Roy Nuriel stated that Google Maps data may be available for active transportation routes.

Decarbonize Buildings

- \$225,000.00 from the City's climate action reserve funds is recommended to support building retrofits and modeling the carbon impacts of future building developments in 2024 and into 2025.
- It is also recommended that the City apply for up to \$200,000.00 from the Federation of Canadian Municipalities GHG Reduction Feasibility Pathway Study fund to support the City in analysis of building retrofit opportunities to decarbonize City facilities. The Committee agreed to support this.
- It was commented that the weak link might be contractors who are not qualified to install or fix heat pumps. Often rebates comes with a caveat that you only receive the rebate if installed by a qualified installer.
- It was recommended that the City or this Committee provide energy efficiency coaching.
- It was further commented that the Maritime region of Canada has seen great success from using a retrofit advisor.

Community Engagement

- \$100,000.00 from the City's climate action reserve fund is recommended to support community engagement for the CAP implementation.
- The CAAC agreed that community engagement is critical for successful implementation of the CAP and that the budget recommendation needs to be increased to develop a robust communication and engagement strategy. A \$100,000.00 increase (for a total of \$200,000.00) was agreed upon by the Committee.
- It was further suggested that the community engagement also include consumption and embedded carbon in products as this is a large source of emissions.

- The CAAC agreed that community engagement metrics need to be developed to track the performance of community engagement initiatives.

B. Dorval declared a conflict of interest with the Climate Action Ripple Effect Youth program and exited the meeting at 5:38 p.m.

- It was commented that the CARE program is often heard about within the community. It is a well known and loved program.

B. Dorval joined the meeting at 5:42 p.m.

Decision Making & Policy

- \$50,000.00 from the City's climate action reserve fund is recommended to support the development of data analysis systems to support decision making, and also a parks and green space inventory and analysis for the OCP review and updates.
- It was noted that it would be beneficial for the City to have a natural asset inventory. The parks and green space inventory will support this.
- A brownfield inventory was also discussed as an important part of the OCP review and Roy Nuriel confirmed that this is in scope for the OCP review.

Moved by B. Dorval, seconded by S. Hendy:

THAT the CAAC recommends that Council authorize the release of up to \$750,000.00 from the City of Vernon's climate action reserve fund to the Long Range Planning budget in 2024, as presented in the report titled "Proposed 2024 CAP Implementation Initiatives and Budget", prepared by Kevin McCarty, Specialist, Climate Action, and presented to the CAAC on January 31, 2024.

CARRIED

Moved by S. Hendy, seconded by J. Comazzetto:

THAT the CAAC recommends that Council supports administration in a grant application to the Federation of Canadian Municipalities' Greenhouse Gas Reduction Pathway Feasibility Study program, as presented in the report titled "Proposed 2024 CAP Implementation Initiatives and

Budget” prepared by Kevin McCarty, Specialist, Climate Action and presented to the CAAC on January 31, 2024.

CARRIED

CAAC WORKING GROUPS

It was suggested by B. Dorval and S. Kwakkel that working groups be created again. They will be aligned with K. McCarty’s work. Ideas for working groups are:

- OCP/TMP Group
- Metrics
- Community Engagement

B. Dorval and S. Kwakkel will bring solid recommendations to the next meeting.

BC TRANSIT WEEK CHALLENGE

S. Hendy informed the Committee of the progress of the BC Transit Week Challenge and will bring the final results to a future meeting.

INFORMATION ITEMS:

NEXT MEETING

The next meeting for the Climate Action Advisory Committee is set for March 27, 2024 at 4:00 p.m.

ADJOURNMENT

The meeting of the Climate Action Advisory Committee adjourned at 6:17 p.m. by call of the Chair.

CERTIFIED CORRECT:

_____ Chair



THE CORPORATION OF THE CITY OF VERNON

MEMORANDUM

TO: Patti Bridal, Chief Administrative Officer **FILE:** 5280-01

PC: Terry Barton, Director, Planning & Community Services **DATE:** February 28, 2024
 Roy Nuriel, Acting General Manager, Planning & Community Services
 Debra Law, Director, Finance
 Terry Martens, Manager, Financial Planning & Reporting

FROM: Kevin McCarty, Specialist, Climate Action

SUBJECT: CLIMATE ACTION PLAN IMPLEMENTATION

In order to support the implementation of the seven priority goals of Vernon’s Climate Action Plan (CAP), as defined in the 2023-2026 Council Strategic Plan, Administration recommends funding the following initiatives with the Local Government Climate Action Program (LGCAP) fund. This is the first set of initiatives for immediate implementation starting in 2024. Background to support these recommendations is provided in the attached report titled “Proposed Climate Action Implementation Initiatives” (Attachment 1).

	Initiative Description	Funding Amounts
1	Access data analysis tool to forecast project-level greenhouse gas (GHG) reduction potentials to guide future decision making.	\$7,000
2	Conduct a parks, green space, and wetland inventory for the Official Community Plan (OCP) update and the development of a natural asset inventory.	\$120,000
3	Enhance GoByBike Week with additional contractor support, promotional materials, and community engagement initiatives.	\$50,000
4	Top up for the E-mobility Accelerator Program technology demonstration to temporarily provide equitable e-scooter trials.	\$10,000
5	Sponsor the Climate Action Ripple Effect (CARE) annual Youth Symposium & Community Expo (Attachment 2).	\$20,000
6	Sponsor two UBC Sustainability Scholars research projects (a. how best to increase the uptake of community building energy retrofits, b. feasibility study of an equity-based e-scooter program).	\$22,000
7	Model the GHG emissions of future housing development with the 2024 Housing Needs Assessment.	\$40,000
8	Conduct a GHG reduction feasibility study for energy retrofits to City owned buildings (<i>subject to FCM grant*</i>).	\$40,000
	Total	\$309,000

** Administration recommends applying to the Federation of Canadian Municipality’s (FCM) GHG Reduction Feasibility Study program to fund a study of energy retrofit scenarios for City owned buildings. FCM provides up to \$200,000, and requires an additional 20% to be invested by the grant recipient (up to \$40,000 from the LGCAP fund).*

The Provincial LGCAP provides annual installments of \$205,000. Two installments have been received and a third is expected in 2024. Each installment needs to be spent within three years, meaning the first installment of \$205,000 must be spent by March 2025.

At its meeting of January 31, 2024, the Climate Action Advisory Committee (CAAC), adopted the following supportive resolutions:

THAT CAAC recommends that Council authorize the release of up to \$750,000 from the City of Vernon's climate action reserve fund to the Long Range Planning budget in 2024, as presented in the report titled "Proposed 2024 Climate Action Implementation Initiatives and Budget," prepared by the Specialist, Climate Action and presented to CAAC on January 31, 2024.

THAT CAAC recommends that Council supports administration in a grant application to the Federation of Canadian Municipalities' Greenhouse Gas Reduction Pathway Feasibility Study program, as presented in the report titled "Proposed 2024 Climate Action Implementation Initiatives and Budget" prepared by the Specialist, Climate Action and presented to CAAC on January 31, 2024.

Upon further consideration, Administration is recommending a phased approach beginning with the eight priority initiatives presented herein for immediate implementation.

RECOMMENDATION:

THAT Council authorize the allocation of \$309,000 from the Provincial Government Climate Action Program fund to proceed with initiatives described in the memorandum titled "Climate Action Plan Implementation" dated February 28, 2024 and respectfully submitted by the Specialist, Climate Action;

AND FURTHER, that Council supports Administration's grant application to the FCM GHG Reduction Pathway Feasibility Study program in the amount of \$200,000.

Respectfully submitted:

Kevin McCarty
Specialist, Climate Action

Attachment 1 – Proposed Climate Action Implementation Initiatives report
Attachment 2 – Climate Action Ripple Effect sponsorship request letter

Approved for the Agenda by the CAO



COUNCIL RESOLUTION

Climate Action Plan Implementation

At their March 11, 2024 Regular meeting, Vernon City Council passed the following resolution:

'THAT Council authorize the allocation funding from the Local Government Climate Action Program fund to proceed with initiatives described in the memorandum titled "Climate Action Plan Implementation" dated February 28, 2024, respectfully submitted by the Specialist, Climate Action as follows:

	Initiative Description	Funding Amounts
1	Access data analysis tool to forecast project-level greenhouse gas (GHG) reduction potentials to guide future decision making.	\$7,000
2	Conduct a parks, green space, and wetland inventory for the Official Community Plan (OCP) update and the development of a natural asset inventory.	\$120,000
3	Top up for the E-mobility Accelerator Program technology demonstration to temporarily provide equitable e-scooter trials.	\$10,000
4	Sponsor the Climate Action Ripple Effect (CARE) annual Youth Symposium & Community Expo (Attachment 2).	\$20,000
5	Sponsor two UBC Sustainability Scholars research projects (a. how best to increase the uptake of community building energy retrofits, b. feasibility study of an equity-based e-scooter program).	\$22,000
6	Model the GHG emissions of future housing development with the 2024 Housing Needs Assessment.	\$40,000
7	Conduct a GHG reduction feasibility study for energy retrofits to City owned buildings <i>(subject to FCM grant*)</i> .	\$40,000
		\$259,000

AND FURTHER, that support for the Go By Bike Week be provided from within the Transportation Department budget;

AND FURTHER, that support for the Climate Action Ripple Effect (CARE) annual Youth Summit & Community Climate Expo (Initiative No. 4) be provided directly to School District 22;

AND FURTHER, that Council directs Administration to prepare a draft framework for a Climate Action Plan Community Engagement Strategy and Plan to be presented to the Climate Action Advisory Committee in May;

AND FURTHER, that Council supports Administration's grant application to the FCM GHG Reduction Pathway Feasibility Study program in the amount of \$200,000.

CARRIED'

The undersigned hereby certifies the above resolution to be a true copy of the resolution passed by Council of the City of Vernon on March 11, 2024



Janice Nicol, Corporate Officer
The Corporation of the City of Vernon / File: (5280-01)



Proposed Climate Action Implementation Initiatives

February 2024

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Purpose & Summary

This report proposes a set of climate action initiatives to support the implementation of the seven priority goals of the Climate Action Plan (CAP), as set out in the 2023-2026 Council Strategic Plan. This report also discusses the available climate action funding and provides background on the CAP implementation to support this proposal.

Proposed Climate Action Plan Implementation Initiatives & Funding

Table 1 outlines the set of priority climate action initiatives for implementation starting in 2024. Up to \$309,000 is being requested from the Local Government Climate Action Program (LGCAP) fund to implement these initiatives. Additional details for each initiative are provided following Table 1. This is the first set of initiatives for immediate implementation starting in 2024.

Table 1: Climate Action Implementation Initiative Descriptions and Funding

	Initiative Description	Funding Amounts
1	Access data analysis tool to forecast project-level greenhouse gas (GHG) reduction potentials to guide future decision making.	\$7,000
2	Conduct a parks, green space, and wetland inventory for the Official Community Plan (OCP) update and the development of a natural asset inventory.	\$120,000
3	Enhance GoByBike Week with additional contractor support, promotional materials, and community engagement initiatives.	\$50,000
4	Top up for the E-mobility Accelerator Program technology demonstration to temporarily provide equitable e-scooter trials.	\$10,000
5	Sponsor the Climate Action Ripple Effect (CARE) annual Youth Symposium & Community Expo.	\$20,000
6	Sponsor two UBC Sustainability Scholars research projects (a. how best to increase the uptake of community building energy retrofits, b. feasibility study of an equity-based e-scooter program).	\$22,000
7	Model the GHG emissions of future housing development with the 2024 Housing Needs Assessment.	\$40,000
8	Conduct a GHG reduction feasibility study for energy retrofits to City owned buildings (<i>subject to FCM grant*</i>).	\$40,000
	Total	\$309,000

* Administration recommends applying to the Federation of Canadian Municipality's (FCM) GHG Reduction Feasibility Study program to fund a study of energy retrofit scenarios for City owned buildings. FCM provides up to \$200,000, and requires an additional 20% to be invested by the grant recipient (up to \$40,000 from the Local Government Climate Action Program fund).

Initiative Details

- 1. A GHG data analysis tool** is needed to forecast project-level GHG reduction potentials to guide future decision making. Calculating the GHG reduction potential per dollar invested will help to compare and prioritize various options. Up to \$7,000 is needed to access, customize, and receive training on the GHG Calculator for Municipal Projects, which was recently developed by the Sustainability Solutions Group, the City of Calgary, Region of Durham, and the City of Ottawa.
- 2. Conducting a parks, green space and wetland inventory and analysis** is needed for the Official Community Plan (OCP) update and the development of a sensitive ecosystem

inventory and a natural asset inventory, which are defined in the CAP and the Council Strategic Plan, respectively. Up to \$120,000 is estimated to hire a contractor for this work.

3. **GoByBike Week** (June 3-9, 2024) is the most established active transportation community event in Vernon, engaging hundreds of cyclists while tracking their GHG savings data and the associated health benefits. As the City's Transportation staff are focusing their efforts on updating the Transportation Action Plan and the Official Community Plan in 2024, funding is needed this year to outsource more of the work for this event. Funding is also needed for media and promotions, prizes and incentives, and celebration/engagement events. Up to \$50,000 is requested for GoByBike Week this year.
4. **The E-mobility Accelerator Program** is approved and underway, in collaboration with Community Energy Association and with partial funding from BC Hydro. This program includes four committed work areas: new electric vehicle (EV) chargers, an EV-ready bylaw, community education, and a technology demonstration. Several new chargers have been installed on City-owned properties and a charger gap assessment is underway to identify additional charger needs. Education on electric mobility will be offered through the Transportation Master Plan and development of an EV Charger-Ready Zoning Bylaw amendment is planned. Finally, Administration is recommending temporarily subsidizing equitable e-scooter trials in the community to fulfill the e-mobility technology demonstration commitment and to inform future e-scooter equitable access analysis. The Transportation Department has \$10,000 committed for the e-scooter technology demonstration, but an additional \$10,000 is needed from the LGCAP fund to cover the full cost of temporarily subsidizing equitable e-scooter trials in the community.
5. **The Climate Action Ripple Effect (CARE) annual Youth Symposium & Community Expo** is an important community engagement initiative that will help to achieve the CAP community engagement goals. Since 2022, the summit has successfully engaged hundreds of teachers, students, mentors, judges and attendees in climate action. Youth are provided the opportunity to get course credits for designing local climate action projects. They are mentored by a community expert and their projects are judged and awarded prizes. This year CARE plans to add a Community Climate Expo to the event to promote green businesses, organizations and initiatives. Up to \$20,000 is requested from the LGCAP fund to sponsor both the summit and the expo.
6. **The UBC Sustainability Scholars program** provides UBC graduate students unique experiences to apply their research skills and contribute directly to advancing sustainability work with partner organization research sponsors. Sponsorship of one project costs \$8525, which provides 250 research hours. \$22,000 is requested from the LGCAP fund to cover the cost of two research projects, as well as travel expenses for the students to visit Vernon. The following two research topics have been proposed to the UBC Sustainability Scholars program:
 - a) How to increase the uptake of community building energy retrofits in Vernon; and,
 - b) Conducting an e-scooter equitable access feasibility study.
7. **Modelling the GHG emissions of future housing developments with the 2024 Housing Needs Assessment** is important to ensure that new housing is as low carbon and affordable as possible, to meet both Housing Action Plan and Climate Action Plan targets. It will be important to model scenarios considering the BC Energy Step Code, the

achievement of the CAP GHG reduction targets, and consider the cost of energy options to homebuyers and renters. Up to \$40,000 is requested from the LGCAP fund to conduct this analysis.

- 8. Studying the feasibility of GHG reduction scenarios for City owned building retrofits** is also important and timely. This initiative would align well with the City's planned 2024 Building Facility Asset Management Plan and condition assessments. There is also an opportunity to access the Federal of Canadian Municipality's (FCM) GHG Reduction Feasibility Study grant. Requirements of the study include designing a minimum of two scenarios for building energy retrofits that would reduce GHG emissions from City buildings by at least 50% within 10 years and at least 80% within 20 years, while managing capital costs and reducing operating costs. FCM can provide up to \$200,000, but they require an additional 20% to be invested by the grant recipient (i.e., up to \$40,000 from the LGCAP funding). A Council resolution is required to submit a grant application to FCM.

Available Climate Action Funding

The provincial LGCAP provides annual installments of \$205,000. Two installments have been received and a third is expected in 2024. Each installment needs to be spent within three years, meaning the first installment of \$205,000 must be spent by March 2025.

CAP Implementation & Rationale to Support this Proposal

Transportation, buildings, and organic waste are the main sources of emissions (Figure 1). In 2017, Vernon's community wide GHG emissions were **309,407 tonnes CO₂ equivalents** (tCO₂e). The CAP set out the following GHG reduction targets:

- 23% GHG reduction by 2026 below 2017 levels
- 50% GHG reduction by 2030 below 2017 levels
- 75% GHG reduction by 2040 below 2017 levels
- 100% GHG reduction by 2050 below 2017 levels

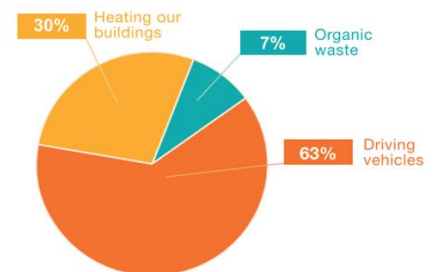


Figure 1: 2017 Community GHG Sources

100% net reduction in emissions by 2050 means having each resident reduce their emissions by 3% each year (based on 2020 population)








Table 2 quantifies the specific GHG emission reduction actions required to meet the first CAP GHG reduction target (i.e., 23% reduction by 2026). The actions include traveling by low-emission transportation (e.g., bus, bike, scooter, electric vehicle); retrofitting existing buildings and designing new buildings to be more energy efficient; and diverting organic waste from the landfill. The GHG reduction actions in Table 2 below informed the selection of the implementation initiatives presented herein.

Table 2: GHG Reduction Actions for CAP Implementation during 2020-2025

Sector	Zero Emission Transportation		Zero Emissions Buildings			Organic Waste Re-Use
Big Move	Decarbonize Transportation (Personal, Industrial, Commercial, Corporate Fleets)	Shift Beyond the Car: Active & Assisted Transportation	Retrofit Existing Residential Buildings	Eliminate the impact of new buildings (residential and commercial)	Electric Air Source Heat Pump Adoption (applicable to existing buildings only)	Divert Organic Waste & Improve landfill gas collection efficiency Capture Value from Waste
2020 – 2025						
Expected Emissions Reductions by 2025 (54, 104 tonnes CO₂ reduction between 2020 – 2025)	31,805 CO ₂ e	4,294 CO ₂ e	3,654 CO ₂ e	1,907 CO ₂ e	1,700 CO ₂ e	10,744 CO ₂ e
Necessary Implementation	5,700 EVs 20% of corporate fleet	300 single-occupancy vehicle kilometers travelled shifted per person, (2.5 % reduction of total vehicle km travelled per person)	4,300 dwellings	All new buildings must be 20% more efficient than baseline (Baseline is the current adopted Step as per the BC Energy Step Code) 75% of new builds use low carbon energy systems	1,300 dwellings	34% reduction in organics going to landfill 10% improvement in landfill gas collection efficiency

To focus CAP implementation efforts, City Council prioritized the following seven goals and actions from the CAP in the 2023-2026 Council Strategic Plan. The recommended climate action implementation initiatives presented in this report are centered around these priorities (Table 3).

Table 3: Priority CAP goals and actions for 2023-2026

CAP Focus Areas	Priority CAP goals and actions for 2023-2026
 Health & Well-Being	Health & Well-Being Goal 1 – Action 2: Develop a program to facilitate social connection, information sharing, climate awareness, and response activities amongst City residents at the neighbourhood scale.
 Governance	Governance Goal 3 – Action 1: Develop and fund a climate-ready community communications and outreach strategy.
 Governance	Governance Goal 1 – Action 1: Embed the CAP into all existing and new policy and bylaws.
 Land-Use & Transportation	Land Use & Transportation Goal 1 – Action 1: Integrate all climate risk, vulnerability analyses, emissions data, objectives, actions, and targets from the CAP into the Official Community Plan.
 Land-Use & Transportation	Land Use & Transportation Goal 2 – Action 1: Continue to implement the Master Transportation Plan, and update as needed, concurrently with the OCP to integrate and prioritize active transportation investments with the goals of the CAP.
 Buildings & Real Estate	Buildings & Real Estate Goal 2 – Action 1: Develop a building retrofit program to support residents to be more resilient to climate change, reduce energy investments and greenhouse gas emissions by improving building efficiency and installing low-carbon energy systems.
 Agriculture & Food Security	Agriculture & Food Security Goal 1 – Action 1: Explore City of Vernon's role in supporting food/agriculture systems.

GHG emissions performance data

Since 2017, GHG emission levels have been trending down, with COVID-19 creating the largest annual reduction in 2020 (Figure 2). Based on the most current data, recent community wide GHG emissions were:

- **down by 36,197 tCO_{2e} (-11.7%) in 2020** (compared to 2017 GHG levels); and,
- **down by 3,010 tCO_{2e} (-0.97%) in 2021** (compared to 2017 GHG levels).

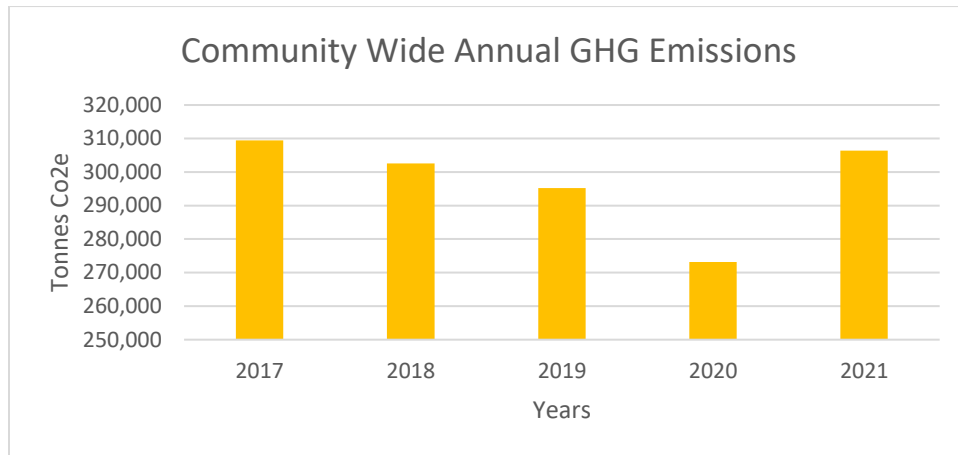


Figure 2: Community Wide Annual GHG Emissions*

* Note: the province provides the community wide GHG emissions data with a 2-year lag. The 2021 data does not account for the City's curbside composting program that launched in 2022, resulting in more than 3000 tonnes of organic waste from the landfill in 2023. It also does not include the success of Vernon's shared electric scooter program that resulted in 113,800 rides in 2023.



1101-21 Ave, Vernon, BC V1T 1G4
250-300-8797 / freshoutlookfoundation.org

February 5, 2024

RE: Funding Support for Climate Action Ripple Effect (CARE)

To Whom it May Concern:

The Fresh Outlook Foundation is respectfully requesting \$20,000 from the City of Vernon to support the Climate Action Ripple Effect (CARE) Youth Summit and Community Climate Expo. Since 2022, the summit has successfully engaged 3 students and community mentors who created projects in support of the City's Climate Action Plan and UN SDGs. The next round of CARE begins later this month, with already more than 15 teachers, 35 mentors, and 400 students confirmed.

Youth are provided the opportunity to get course credits for designing local climate action programs. They are mentored by a community expert and their projects are judged and awarded prizes. This year CARE plans to add a Community Climate Expo to the event to promote green businesses, organizations and initiatives. The following explains how CARE has proven its value to students, local institutions and governments, nonprofit organizations, and the community at large.

STUDENTS: Post-program indicators show successful outcomes ranging from increased participation to growing interest from school districts outside North Okanagan. Most significant, however, are what teachers and students reported:

- Increased understanding/literacy related to climate change and stronger commitment to climate action
- Development of project design and management skills (e.g., research and project design, delivery, and presentation)
- Improved cognitive, socio-emotional, educational, and vocational capacities
- Creation of projects that reflect science-based, justice-focused, action-oriented climate solutions that can be introduced at home, work, and play, and in future career/vocational choices
- Enhanced communication and collaboration skills among peers and with people of other cultures (i.e., Indigenous) and age groups (i.e., adult and senior climate experts and advocates)
- Newfound sense of agency... "yes, youth can be part of the solution" ... "I can make a difference" ... "I can do what I love and still make a contribution!"
- Increased awareness of diverse career opportunities in climate action and entrepreneurial opportunities in the green economy

ENVIRONMENT: Benefits include reduced GHGs; increased awareness and focus on climate change, energy efficiency, and natural habitat/species protection and restoration; increased feedback/input to community planning and decision-making; increased collaboration with and among environmental experts and organizations.

SOCIETY: Climate change is a challenge that affects individuals, families, workplaces, and communities. Therefore, climate action provides a unique opportunity to gather people together in ways that build community while addressing issues in tangible ways. Benefits include enhanced communication and collaboration among people from all sectors; increased opportunities for intergenerational engagement; increased focus on, and commitment to, stronger climate culture and behaviour change at all scales.

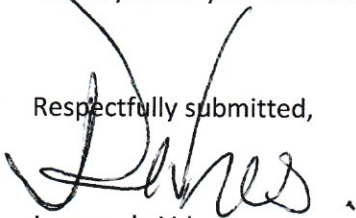
CULTURE: Cross-cultural information-sharing and engagement is a cornerstone of the CARE program moving forward. This will help build vital community relationships and increase the use of Traditional Ecological Knowledge (TEK), in combination with advancing science and technologies, to expedite meaningful and productive climate action solutions.

ECONOMY: Benefits include increased opportunity for existing and potential climate-related businesses to inform and be involved in the local climate movement; enhanced opportunity to promote BC's Interior as home to climate-friendly, energy-efficient communities, which will bring new residents and tourists. Given that the vast majority of businesses are smaller than ten employees, CARE also helps to promote climate-friendly business in ways that could provide entrepreneurial students with meaningful rewards and planetary outcomes over the longer term.

The \$20,000 funding is needed to cover overall expenses for the Youth Summit and the Community Climate Expo, such as program design and implementation, resource updates/production (website, workbooks, etc.), student coaching, mentor and judge coordination, event planning and implementation, event costs (venue rental, catering, AV, etc. for six events), program and event promotion, fundraising, and administration.

Thank you for your consideration, and look forward to hearing back from you soon.

Respectfully submitted,



Joanne de Vries

Founder & CEO

Fresh Outlook Foundation

Climate Action Advisory Committee Subcommittees – March 2024

The Council Committee Structure Corporate Policy allows council advisory committees to form subcommittees (aka working groups) to review a particular task/subject and make recommendations to the parent committee. Subcommittees will be required to meet outside of the quarterly parent committee meetings and the City Staff Liaison and Committee Clerk are not required to provide services to a subcommittee. However, the City staff can be invited to subcommittee meetings to provide information and participate in discussions. The subcommittee will report back to the parent committee on a regular basis and will be responsible for facilitating discussion on their recommendations. Formal agendas and minutes are not required, but written meeting notes should be taken to summarize information and recommendations for the parent committee. Subcommittees may recruit appropriate members of the public to gather input and provide engagement opportunities.

The Climate Action Advisory Committee (CAAC) would like to form four subcommittees composed of volunteers from the CAAC membership. These subcommittees will be active immediately and exist until the CAAC deems necessary. Descriptions of the four subcommittees are provide below.

Communication and Engagement Subcommittee

City Council has prioritized creating a communication and engagement strategy to help implement the Climate Action Plan (CAP) and a draft strategy framework (i.e., outline of the main sections and subsections) is expected for the May 29th CAAC meeting. A subcommittee of CAAC is needed to help research how other municipalities are communicating with and engaging community members in the implementation of their climate action plans. The subcommittee can help to gather ideas from local interest groups and identify activities and events where the CAP can be promoted. After confirming the framework with the CAAC in May, the subcommittee can then support gathering additional information and make recommendations for completing the detailed sections of the strategy.

Official Community Plan Subcommittee

City Council has prioritized “integrating all climate risk, vulnerability analyses, emissions data, objectives, actions and targets from the CAP into the Official Community Plan (OCP).” A subcommittee of CAAC is therefore needed to review the current OCP to identify opportunities for achieving this goal with the update to the OCP. This may include reviewing other OCPs from municipalities that have already been updated to include climate action priorities. The City is planning public engagement opportunities for the OCP updates (in-person and online survey), which the subcommittee may participate in. Furthermore, the City’s Transportation Action Plan (formally the Transportation Master Plan) is being updated concurrently with the OCP, so the subcommittee may provide input for the Transportation Action Plan updates.

Metrics and Reporting Subcommittee

What performance metrics need to be tracked to gauge our success in implementing the CAP? How can these metrics be analyzed and the results reported? These are the main questions that subcommittee members will help to answer. City staff have done work on metrics and reporting, so the main support needed from this subcommittee will be to help staff prioritize metrics and discuss how to share the results. However, subcommittee members can also help to identify other common climate metrics and how other organizations report on their climate action performance.

Consideration of Future Climate Aspects

An important role of the CAAC is to identify and evaluate climate aspects and advise on suitable actions for Council. This subcommittee would provide CAAC with information in three main areas: (1) consideration of climate aspects beyond the seven identified in the CAP, (2) evaluation of climate aspects within the CAP, and (3) evaluation of current CAAC TOR.

Implementing Water Quality Monitoring Stations in Three Pilot Okanagan Urban Streams

The water quality creek sampling initiative is a pilot program lead by the Okanagan Basin Water Board (OBWB) and Interior Health to assess the impacts of urbanization on our creek systems. One hydrometric station was recently installed at the BX Sediment Pond to monitor turbidity, temperature, and conductivity. This station is monitored by Water Survey of Canada and subsidized by the Okanagan Basin Water Board. There is consideration for installing two more this year, but this has not been confirmed.

Table 1: Goals/objectives of the creek sampling program (source: OBWB, 2022)

Goals	Objectives
1. Find three pilot communities to install water quality monitoring systems, one before the urban centre and the other at the mouth to the shared Okanagan Lake waters.	Find three Okanagan community partners.
2. Measurement of water quality change in urban environments.	Construction of monitoring stations on three PILOT-Okanagan streams. Measurement of pH, Temperature, Conductivity, and Total Suspended Solids. Utilize data to figure out areas where water quality is poor and to track trends over time.
3. Strengthen existing land use policy to make it more transparent, informed, and balanced.	Review current land use bylaws and policies and ensure alignment. Ensure the policy is defensible and enforceable.
4. Consistent approach to monitoring stream inflows and outflows as they pass through our urban environments.	Use technological advances to enhance water quality protection. Gather data on water quality inputs to Okanagan Lake.
5. Move towards greater resilience in the delivery of water quality.	Find and reduce point and non-point source pollution Enhance urban source protection, thereby reducing treatment costs for the delivery of high quality and safe drinking water.