

LGCAP Year 2 Survey

The Survey

Question 1: How many staff in full time equivalents (FTEs) are dedicated to working on climate action?*

For example: Can include staff in engineering, emergency management, sustainability, transportation, waste management, etc.

If a staff member is a climate action coordinator and works 100% on climate-related issues, add 1.0. If a staff member works approximately 25% (please estimate) on climate-related issues, add 0.25. Working on climate-related issues does not need to be written into the staff member's job description to be counted here.

5.5

Question 2: Does your local government or Nation have a climate action plan or other guiding document(s)? *

Yes

No

Please select the type of plan(s) from the list.*

Integrated climate plan (addressing mitigation, adaptation and/or energy use)

Integrated climate plan (addressing mitigation and adaptation)

Integrated climate plan (addressing mitigation and energy)

Integrated climate plan (addressing adaptation and energy)

Standalone mitigation plan

Standalone adaptation plan

Standalone energy-related plan

Don't know

Please indicate the date the plan was adopted/approved.*

If you don't remember the month, you can enter "01" for January.

2021-11

Please include a link to the document or webpage if available.

<https://www.rdn.bc.ca/sites/default/files/inline-files/CATAC%20Final%20Report%20%281%29.pdf>

If not, please select one or more options from the list.*

No, but we are currently undertaking one and it will be completed in the next two years.

No, we are not intending to undertake one due to lack of financial capacity.

No, we are not intending to undertake one due to lack of expertise or technical capacity.

Question 3: Has your local government or Nation declared a climate emergency?*

Yes

No

Question 4: Please select the top 3 challenges impeding the advancement of climate action in your community.*

Lack of jurisdiction.

Lack of staff capacity or expertise.

Lack of financial resources.

Lack of data or information.

Lack of local political support.

Lack of provincial or federal government support or collaboration.

Other.

Question 5: For the 2022 calendar year, has your local government or Nation measured and reported associated corporate GHG emissions?*

- Yes
 No
 No, but for a past year. (Please enter most recent year completed: YYYY)

If your local government or Nation measured 2022 corporate GHG emissions, please report the number of corporate GHG emissions from services delivered directly by your local government (in tonnes of carbon dioxide equivalent).*

If your local government or Nation measured 2022 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent).*

If your local government or Nation measured 2022 corporate GHG emissions, please report the total number of corporate GHG emissions from both directly delivered and contracted services (in tonnes of carbon dioxide equivalent).*

This would be the sum of the two questions above.

Optional: Please indicate how many tonnes of CO2e are associated with facilities.

Optional: Please indicate how many tonnes of CO2e are associated with mobile sources.

Please provide the link to the public report if available.

Optional

If not, please select all that apply.*

- No, due to lack of staff and technical capacity.
 No, due to lack of financial resources.
 No, due to lack of awareness regarding which GHG accounting tools are available.
 No, corporate emissions are measured but not reported.
 Measurement is in-progress.
 Corporate inventory is not developed annually.

Optional: Please provide any further comments you wish to share on corporate emissions measurement and reporting here (e.g. system or approach used to measure corporate emissions).

The emissions reported do not include credits from our organics program nor our credits from early adoption of landfill gas management. With those credits we are carbon neutral for 2022.

Question 6: For the 2022 calendar year, have community-wide GHG emissions been measured for your local government or Nation?*

- Yes
 In-progress
 No

Please report your community-wide transportation sector emissions in tonnes of CO2e for 2022.

Please report your community-wide buildings sector emissions in tonnes of CO2e for 2022.

Please report your community-wide solid waste sector emissions in tonnes of CO2e for 2022.

If not, please select all that apply from the list.*

- No, community GHG emissions were not reported because the 2022 Provincial Community Energy and Emissions Inventory data has not been released.
- No, community GHG emissions were not reported because the 2022 Provincial Community Energy and Emissions Inventory does not report transportation data.
- No, we do not measure and report community-wide emissions data due to lack of financial capacity.
- No, we do not measure and report community-wide emissions data due to lack of staff and technical capacity.
- No, we do not measure and report community-wide emissions annually. (Please indicate most recent year completed: YYYY)

If not, has your community or Nation measured and reported community-wide emissions in the past?*

- Yes
- No

When was the last year your community or Nation reported its community-wide emissions and what is the interval for reporting (ex. every 5 years)?*

For the 2022 calendar year, did your community use raw data from the Community Energy and Emissions Inventory initiative to calculate community-wide emissions?*

- Yes
- No
- Not sure

Question 7: Currently, the Province's legislated GHG emission reduction targets are 40% by 2030, 60% by 2040 and 80% by 2050, relative to 2007. Please state your local government or Nation's target(s).*

	Reduction (format: e.g., 40%)	Baseline Year (format: 2007)
2030	n/a	n/a
2040	n/a	n/a
2050	80%	2007

If your local government or Nation's targets don't conform to the target years noted above, please enter them here.

Format e.g.: target 2035 50% baseline 2010, target 2060 70% baseline 2010, ...

Question 8: The Province has also committed to introducing a target of net-zero emissions by 2050. Does your local government or Nation have a net-zero or carbon-neutral emissions target?*

- Yes: Net-zero (Net-zero refers to a jurisdiction achieving a balance between greenhouse gas emissions produced and removed from the atmosphere (e.g. planting trees or using carbon capture technologies))
- Yes: Carbon neutral (Carbon neutral refers to a jurisdiction achieving a state of no net carbon dioxide emissions being released into the atmosphere (e.g. Reducing emissions as far as practical and purchasing offsets or other similar mechanisms))
- No

Question 9: If data was provided by the Province, which three supporting indicators would be most valuable to your local government or Nation to advance climate action?*

- Housing type: Private dwellings by structural type
- Floor area: Average floor area by building category and era
- Residential density: Population and dwelling units per "net" land area
- Commute by mode: Employed labour force by mode of commute
- Greenspace: Land area that is parks and protected greenspace
- Walk score: Proximity to services
- Proximity to transit: Persons, dwelling units and employment within walking distance of a "quality" transit stop/line

Other

forest/tree cover and change over time (not land-use based, but actual forested canopy)

Optional: Please provide any further comments you wish to share on community-wide emissions measurement and reporting here.

Need access to annual vehicle registration data by vehicle class and fuel type by municipal government. Province has this data, it is not available in the form that is required to support GHG quantification. ICBC tableau datasets are not complete. Access to a peer reviewed database of vehicle kilometers travelled or funding support to complete origin destination studies. This would support all governments across BC. Timely provision of natural gas and electricity consumption data.

Question 10: Please indicate all climate initiatives your local government or Nation had in-progress or completed in the 2022 calendar year related to the buildings sector.*

The buildings and communities sectoral target for the province is 59% to 64% emissions reductions by 2030.

- Zero-carbon new construction (please enter date in pop-up textbox below)
- Highest efficiency standards for new space and water heating equipment
- Topping up Provincial energy efficiency programs
- Step Code adoption
- Zero Carbon Step Code
- Zero-carbon heating requirement
- Net zero buildings commitments
- Efficiency upgrades to public buildings
- Demand-side management
- Not applicable
- Other

Please enter date effective for zero-carbon new construction requirement.

Optional: Please highlight a community project(s) that was in-progress or completed in the 2022 calendar year related to buildings.

The Regional District of Nanaimo provided top-up rebates to Electoral area residents to support uptake of climate-adaptive home retrofits. The Regional District also initiated a project in collaboration with the City of Nanaimo to assess feasibility of local government financing programs (e.g. PACE, utility-on-bill), and completed work to identify additional supports needed by area residents to undertake climate-adaptive home retrofits. The District hosted webinars for residents to learn about heat pump technology, climate-adaptive home renovations tips and tricks, and delivered other community outreach initiatives to improve resident awareness. The RDN and area municipalities also started work on a Regional Strategy for Net Zero Buildings and Localized Energy Generation, including evaluating options for Energy Step Code and Zero Carbon Code implementation. The RDN also started scoping work for a retrofit concierge service to support residents undertaking home energy retrofits.

Question 11: Please indicate all climate initiatives your local government or Nation had in-progress or completed in the 2022 calendar year related to the transportation sector.*

The transportation sectoral target for the province is 27% to 32% emissions reductions by 2030.

- Demand-side management to reduce distance travelled (single-occupancy vehicle commute reduction programs, parking disincentives)
- Improving or expanding public transportation
- Mode shift targets in Official Community Plan, Regional Growth Strategy or other guiding document
- Established personal transportation target goals, and measures to reach them, in annual reports – must include target goals for vehicle kilometre reduction, mode share for active transportation and zero-emission vehicles – and report on progress
- Established commercial transportation target goals, and measures to reach them, in annual reports – must include target goals for vehicle kilometre reduction, mode share for energy efficient commercial transportation and zero-emission vehicles – report on progress
- Implemented zero-emission vehicle first procurement policy for all local government on and off-road vehicles purchases.
- Implemented a zero-emission vehicle preference or requirement for contracted work from a service provider
- Bylaws updated to prioritize energy efficient transportation hierarchy (i.e. pedestrians first)
- Revising existing bylaws or implementing new ones to support active transportation
- Active transportation planning

- Active transportation infrastructure investments
- Electric vehicle charging studies/planning
- Established electric vehicle charging ready bylaws
- Electric vehicle charging infrastructure investments
- Streamlined hydrogen fuelling station permitting process
- Required new and/or existing gasoline and card lock fuel stations to include zero-emission vehicle infrastructure development
- Required green roads certification for any new or significantly modified existing roads
- Not applicable
- Other

Optional: Please highlight a community project(s) that was in-progress or completed in the 2022 calendar year related to transportation.

We completed an active transportation plan for Electoral Area G, which was integrated into the Area G Official Community Plan that adopts clear new policy direction to better support active transportation in the community. The Regional District also formally adopted a new Parks and Trails strategy which includes improved supports for regional and localised active transportation initiatives. Established, with Cowichan Valley Regional District a new-interregional transit route between Duncan and Nanaimo. Expanded transit service hours and routes as funding allowed. Some expansions were reduced due to lack of funding from higher levels of government. We continued leading the mid-Island Electric Vehicle Charging Network projection, through which 28 Level 2 Charging units are being installed across 12 different mid-island local governments.

Question 12: Please indicate all climate initiatives your local government or Nation had in-progress or completed in the 2022 calendar year related to community-wide action.*

- Complete, compact communities
- Organics diversion
- Circular economy or zero waste strategy
- Sustainable procurement policy
- Energy emission plans
- Renewable energy investments (e.g. district energy, waste heat recovery, biomass)
- Green/blue carbon sequestration
- Compliance carbon offset projects
- Voluntary carbon offset projects
- Bylaws updated to allow at least three units in all single-family zones
- Other
- Not applicable

Complete, Compact Communities - Please select all that apply.*

See Complete Communities Guide and Program for supports advancing identified community goals through the creation of more complete, compact and energy efficient communities.

- Rezoning
- Smaller lots
- Density bonuses
- Secondary suites and laneway homes
- Infill development
- Urban containment boundaries
- Official Community Plans
- Regional Growth Strategies
- Community Development Plans

Optional: Please highlight a community project(s) that was in-progress or completed in the 2022 calendar year related to community-wide action.

Update RDN's Regional Growth Strategy (RGS) to improve housing, transit and climate action policy areas. The updated strategy represents the collective vision for how our region will manage growth (est. 193,000 people and 80,598 jobs) over the next 20 years. Expanded policies for climate adaptation and mitigation will support future action on climate in our area. The RDN continued work on two key waste management bylaws (mandatory Waste Source Separation, requiring all business, multifamily and institutional buildings to have a system to separate wastes into organics, recyclables, and garbage with appropriate disposal, and 2. Waste Hauler Licensing – licensed haulers would help ensure commercial customers have systems in place to separate and collect organics/recycling and garbage and allows landfill free structures that encourage diversion of useable waste streams over landfilling.

Question 13: Please indicate all initiatives your local government or Nation completed or had in-progress in the 2022 calendar year to adapt to and build resilience to climate impacts. *

- Undertaking or completing a risk assessment or <https://www2.gov.bc.ca/gov/content/safety/emergency-management/local-emergency-programs/assessment-analysis> (HRVA)
- Addressing current and future climate risks through plans, adaptation measure implementation, programs, service delivery, asset management and/or other functions.
- Collaboration with other communities on resilience planning/initiatives
- [Hydro climatological](https://www.weather.gov/safety/drought-hydroclimate) data collection
- Monitoring climate risks (floods, wildfire, etc.)
- Public engagement on climate risks and actions
- Providing training (adaptation and mitigation skills)
- Creation of policy/procedures to affect change (putting climate considerations into decision-making processes)
- Creating data systems to support climate action
- Utilizing natural assets/nature-based solutions
- Developing emergency/hazard response plans
- Not applicable
- Other

Optional: Please highlight one or more climate adaptation project(s) that were completed or in-progress in the 2022 calendar year to reduce risk and increase resilience.

To ensure the most up-to-date information is being used in land use decisions, the RDN has completed a series of flood hazard studies for the Englishman River, Little Qualicum River, Nanaimo River and the coastal zone. The studies are part of the RDN's broader Flood Management Program and build on the regional Flood Risk Assessment completed by the RDN in 2019. For the three river study areas and the coast, the floodplain maps were based on model results for the 200-year return period flood under future climate change conditions to the year 2100. This multi-year work program provides information to help communities and individuals better prepare for climate change impacts (erosion, storm surge, and over time sea level rise) and to update flood mitigation measures, including applicable plans, policies and bylaws. During 2022, the RDN also started design of new development permit areas (DPAs) that will help ensure development within the RDN has reduced exposure to climate risk.

Question 14: Has a climate risk and vulnerability or similar assessment been undertaken for your local government or Nation?*

- Yes
- No

Please provide the link to the public assessment if available.

<https://www.rdn.bc.ca/sites/default/files/inline-files/2019%20RDN%20HRVA%20Report%20FINAL.pdf>

If not, please select one or more options from the list.*

- No, but we are currently undertaking one and it will be complete in the next two years.
- No, we are not intending to undertake due to lack of financial capacity.
- No, we are not intending to undertake due to lack of staff and technical capacity.
- No, we are waiting for direction from the Provincial Government before undertaking an assessment.

Question 15: What are the most significant climate hazards faced by your jurisdiction and what is the timeframe of their expected impact to your community? *

For each selection, please then indicate if the timeframe of their expected impact is short, medium, long or not sure. (short [current/by 2025]; medium [2026-2050]; long [beyond 2050])

- Extreme heat and heat stress
- Extreme cold, snow and ice
- Water shortages
- Wildfire
- Overland flooding
- Coastal flooding, storm surge events and/or other coastal hazards
- Wind, rain, and other storm events
- Ecological impacts (examples of ecological impacts include biodiversity loss and erosion)
- Cultural impacts (examples of cultural impacts include threats to identities, languages, and livelihoods)
- Human health impacts
- Not applicable/no hazards
- Not sure
- Other

Question 16: What information do you need to know to be able to plan effectively for the future of your community, with respect to the impacts identified in Question 15? Please select one or more of what you consider the most valuable types of information for planning.*

- Local observations and/or Indigenous knowledge
- Localized climate modelling and projected scenarios
- Assessment of potential community impacts
- Assessment of community vulnerabilities
- Risk assessment of hazards
- Mapping of climate change impacts and hazards
- Demographic information
- Projected development
- Adaptation planning information
- Technical expertise to implement solutions
- Community/stakeholder engagement and support
- Information on partnership opportunities
- Examples of actions taken by other communities
- Not sure
- Other

Question 17: Based on the hazards you indicated as most significant in Question 15, which groups are most vulnerable to the impacts of climate hazards?*

- Low-income households
- Indigenous Peoples

- Racialized communities
- Newcomers to Canada (immigrants and refugees)
- People experiencing homelessness
- Seniors
- Women and girls
- Persons with disabilities
- LGBTQIA2S+: Lesbian, Gay, Bisexual, Transgender, Queer or Questioning, Intersex, Asexual, Two-Spirit, and additional sexual orientations and gender identities
- Not sure
- Other

Question 18: Of the hazards identified in Question 15, please specify the associated adaptation measures completed or in-progress in the 2022 calendar year, if any.

If entering a hazard under "Other", please also write the hazard in the "Adaption measure" textbox.

Hazard

Adaptation measure

Hazard	Adaptation measure
Extreme heat and heat stress	<i>Building and infrastructure design for future climate/weather</i>
Extreme cold, snow and ice	
Water shortages	<i>Outreach/research/regional coordination of water-centric development/planning</i>
Wildfire	<i>Update of community evacuation routes, delivery of community FireSmart outreach</i>
Overland flooding	<i>Flood plain mapping and update of floodplain bylaws</i>
Coastal flooding, storm surge events and/or other coastal hazards	<i>Promotion of RDN coastal flood atlas and sharing of project results with other local governments.</i>
Wind, rain, and other storm events	<i>Consideration of future climate events in infrastructure design</i>
Ecological impacts	<i>Development of invasive plant management in RDN parks</i>
Human health impacts	<i>Education and alerts around unsafe conditions, early scoping of air quality monitoring</i>
Cultural impacts	<i>Ongoing investment in relationship-building with First Nations</i>
Other	

Question 19: How does your community ensure equitable access to and distribution of climate action opportunities and benefits?*

Please select all that apply.

- By collecting and analyzing disaggregated and/or spatial data on the impacts of climate policy and change.
- By engaging with equity seeking groups/frontline communities most impacted by climate policy and change.
- By designing and implementing climate actions that remove barriers to participation in planning and programs faced by equity seeking groups/frontline communities most impacted by climate change.
- There are no specific measures in place to ensure equitable access to and distribution of opportunities and benefits.

- Not sure how to integrate equity into our climate action work.
- Not sure if equity is being integrated into our climate action work.

Optional: Please highlight a climate initiative completed or in-progress in the 2022 calendar year that promotes equity and inclusion.

We are working to incorporate the principles of the Urban Sustainability Directors Network (USDN) guidelines on Equitable Clean Energy Program Design for Local Governments and Partners in all climate work and have included requirements for adherence to these design principles in our procurement of community focused projects, including for those beyond clean energy/retrofits. (<https://cadmusgroup.com/wp-content/uploads/2018/09/Cadmus-USDN-Equitable-Clean-Energy-Guidebook.pdf>).

Question 20: What did/will your local government or Nation spend its LGCAP funding on for year one of the Program (2022)? Please select all that apply and indicate the total dollar value associated with each initiative (including funding from all sources).*

Textbox format: no dollar sign and up to two decimal points (i.e. 2500 or 657.25).

If selecting "Other", please write both the item and the amount of funding in the textbox.

- Staffing
- Climate study
- Energy study
- Asset management
- Risk and vulnerability assessment
- Emergency response planning
- Vulnerability and risk reduction strategy
- Climate finance planning
- Climate engagement
- Resilient infrastructure
- Green infrastructure
- Natural assets evaluation and accounting
- Buildings initiatives
- Transportation initiatives
- Community-wide initiatives
- Put in reserve for future project
- Corporate emissions inventory measurement and reporting
- Leveraging funds from other sources/ grant stacking
- Other

Resilient Infrastructure - Please select from the list.*

- Buildings
- Transportation
- Municipal infrastructure (wastewater treatment facilities, etc.)
- Energy systems

Green Infrastructure - Please select from the list.*

- Parks & other green space(s)
- Community forest(s)
- Community food systems
- Green streets/alleys/corridors
- Green roof(s) or wall(s)
- Permeable surfaces or substrates
- Stormwater management
- Wetlands

Buildings - Please select from the list.*

- Zero-carbon new construction requirement
- Highest efficiency standards for new space and water heating equipment
- Enhancing energy efficiency programs
- Step code adoption
- Carbon pollution standard
- Zero-carbon heating requirement
- Net zero buildings commitments
- Efficiency upgrades to public buildings

Transportation - Please select from the list.*

- Demand-side management to reduce distance travelled (single-occupancy vehicle commute reduction programs, parking disincentives)
- Encouraging "mode shifting" to more energy efficient forms of transport
- Mode shift targets in Official Community Plan, Regional Growth Strategy or other guiding document
- Zero Emission Vehicles fleet adoption
- Active transportation plan or investments
- Transit/pedestrian-oriented development regulation, multi-modal networks
- Electric Vehicle charging infrastructure plans or number of public installations

Community-Wide - Please select from the list.*

- Public awareness and education campaign
- Organics diversion
- Renewable energy project
- Developing or updating Official Community Plan or Regional Growth Strategy
- Circular economy or zero waste strategy
- Sustainable procurement policy
- Community Energy and Emissions Plan
- Green/blue carbon sequestration
- Carbon offset projects
- Complete, compact communities (infill development, rezoning, etc.)

Renewable Energy - What is the installed capacity (MW)?

Reserve funding - How will funds be allocated?

[X] Please indicate the project(s) funds have been allocated to.

Pending budget approval for 2024, the balance of Year 1 funds will be allocated to running the home retrofit concierge program in 2024.

[] No decision has been made.

Optional: Please highlight the initiative(s) your local government or Nation's LGCAP year one funding will support.

We invested our funding in the design and development of a home energy retrofit concierge program to support Regional District of Nanaimo residents interested in climate-adaptive home renovations. This concierge program will address the non-financial hurdles associated with accelerating climate-adaptive home retrofits in our area. We also started on a Regional Strategy for Net Zero Buildings, looking at policy options for Energy Step and Zero Carbon codes for new buildings in our Region.

Question 21: How much additional funding for climate action were you able to invest by leveraging your LGCAP funds? This could include matching grants as well as private investment.*

Format: no dollar sign and up to two decimal places

30000

Question 22: Please estimate the total investment in climate mitigation your local government or Nation made in 2022, including from sources beyond your LGCAP funds.

For guidance, this includes (but is not limited to): integrating climate change mitigation (i.e. GHG reduction) measures into policies, strategies and planning; improving education, raising awareness of climate change causes and solutions, and increasing human and institutional capacity with respect to climate change mitigation.*

Format: no dollar sign and up to two decimals

If no estimate is possible, please provide 0 as an answer.

0

Question 23: If estimated and available, what are the expected emissions reductions from these investments?

Format: in tonnes CO2e

Question 24: Please estimate the total investment in climate adaptation and resilience your local government or Nation made in 2022, including from sources beyond your LGCAP funds.

For guidance, this includes all actions that strengthen resilience and the ability to adapt to climate-induced impacts. Examples include (but are not limited to): addressing climate-related hazards; integrating adaptation measures into policies, strategies and planning; improving education, raising awareness of climate change causes and solutions, increasing human and institutional capacity with respect to climate adaptation, and impact reduction and early warning systems.*

Format: no dollar sign and two decimal places

If no estimate is possible, please provide 0 as an answer.

0

Question 25: Does your community or Nation use a formal framework to apply a climate lens on infrastructure planning and decision-making?*

This could include the Provincial preliminary GHG assessment guidance, the Federal climate lens guidance, or another climate lens framework.

() Yes

(X) No

Question 26: What is the value in the Program's continuity for your community?

Optional

Note on posting the survey publicly:

- Optional questions and responses such as this one can be omitted.
- The Province will use the information for internal purposes only.
- When posting the survey publicly, the design / format of the form can be changed.
- All information from required questions must be included.

The LGCAP is the only climate-focused funding stream that is predictable, flexible and available when needed for climate action. With LGCAP we can pursue projects earlier as we do not need to wait to hear about funding-we know it is there. A longer funding horizon (e.g. five years) would be even more effective as we could fund multi-year public programs with more confidence.

Attested by (first name, last name)*

Manvir Manhas

Professional title*

Acting Chief Financial Officer

Local government or Modern Treaty Nation*

Regional District of Nanaimo

Date*

2023-07-20

Attestor signature*

A handwritten signature in black ink, reading "Manvir Manhas". The signature is written in a cursive, slightly stylized font. The first letter 'M' is large and prominent, followed by 'anvir' and 'Manhas'.