



Local Government Climate Action Program Survey Submission Report

Langley, District Municipality

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Question	Answer
1. Does your local government or Modern Treaty Nation have a climate action plan or strategy?	Yes
1.a. Indicate the date the plan was adopted.	JANUARY 25, 2021
1.b. Include a link to the document (URL) or webpage.	https://www.tol.ca/at-your-service/sustainability/climate-action/
2. For the calendar year 2021, did your local government or Modern Treaty Nation measure and publicly disclose corporate greenhouse gas (GHG) emissions?	Yes
2.a. Include a link to the document (URL) or webpage where it is disclosed.	Corporate emissions will be disclosed as part of the planned public dashboard and LGCAP survey, in the late summer 2022.
2.b. Report emissions based on Services Delivered Directly (in tCO ₂ e).	6672

2.c. Report emissions based on Contracted Services (in tCO2e).	1867
2.d. Report emissions based on Total Corporate Emissions (in tCO2e).	8539
3. For calendar year 2021, did your local government or Modern Treaty Nation measure and publicly disclose a community-wide emissions inventory?	Waiting for CEEI data for 2021
4. Is your local government or Modern Treaty Nation tracking progress on its community-wide GHG reduction target?	Yes
4.a. Please provide your reduction target(s).	45%
4.b. Please provide the target year.	2030
4.c. Please provide the baseline year.	2010
4.d. Please provide the link(s) to the document(s) or website if available.	https://www.tol.ca/at-your-service/sustainability/climate-action/

<p>5. Describe up to four climate initiatives, and their outcomes, your local government or Modern Treaty Nation is currently undertaking for Buildings</p>	<p>Step Code: All new building permit applications with a residential occupancy currently require meeting Step 3 of the BC Energy Step Code. As the BCBC updates its requirements and minimum energy thresholds are increased, the Township expects to support regulation that goes beyond the minimum requirements of the BCBC.</p> <p>The Township is planning on requiring Step Code compliance for a variety of other building types, including commercial and retail occupancies. An updated Step Code requirements matrix that includes Step Code requirements for non-residential occupancies and residential occupancies is expected to be proposed in 2022 and, upon industry consultation, implemented in 2023.</p> <p>Builder forum series (BFS): The Township has provided educational workshops to the building industry and other stakeholders across the province since 2017 through the Builder Forum Series (BFS). Subject matter experts discuss topics ranging from how to meet the BC Energy Step Code targets, how to mitigate overheating through passive design, best practices around implementing airtight envelopes and more. The BFS attracts a wide spectrum of industry stakeholders, including builders, developers, trades, engineers, architects, and municipal staff such as Building Officials and plan checkers. The BFS will be targeting a number of online workshops in the future as well as in-person field workshops highlighting Net Zero Energy Ready design and construction best practices and lessons learned.</p> <p>Corporate energy and emissions reduction: Energy and emissions reduction projects in Township-owned assets are being implemented aligned with the Climate Action Strategy, Corporate Energy Policy, and Strategic Energy Management Plan. Examples include recommissioning and monitoring-based commissioning at major facilities, conducting energy assessments (partnering with BC Hydro and Fortis BC) and detailed electrical assessments for future low-carbon electrification projects. In addition, the Township is currently switching approximately 7000 municipally owned and operated streetlights over to LED (light-emitting diode) streetlights. More information: https://www.tol.ca/at-your-service/sustainability/climate-action/climate-action-projects/led-streetlights/</p> <p>GHG DPA Guidelines: Per commitments in the Climate Action Strategy, the Township is analyzing and evaluating options to revise the current GHG DPA Guidelines. A more streamlined process is anticipated to be established, where outcomes will be more predictable and repeatable.</p>
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6. Describe up to four climate initiatives, and their outcomes, your local government or Modern Treaty Nation is currently undertaking for Transportation

Connected Communities Project

The Connected Communities project includes upgrading existing on-street two-way bike routes into separated lanes using tactical urbanism measures for walking, biking, and rolling in between the communities of Walnut Grove, Willoughby, and Fort Langley. The active mobility corridors will include pavement markings and flexible delineators to create a buffer from vehicular traffic on the road. Additionally, the project will add a protected on-street pedestrian area to Glover Road in Fort Langley (on a pilot basis) and includes the installation of additional bike parking facilities. The project is planned to be completed by Dec 2022.

In addition, sidewalk infrastructure improvement projects were completed at several locations, including 92A Avenue, 198 Street, and 96th Avenue. Furthermore, two phases of the North Langley connector cycling network project completed in 2021.

EV Charging Stations

The Township continues expanding its network of electric vehicle (EV) charging stations for both the community and fleet vehicles, which helps reduce greenhouse gas emissions and lower air pollution. The Township currently operates ten public level 2 charging stations across the municipality and is accelerating charging capacity at Township facilities.

A new, dedicated BC Hydro service was added to the municipal Operations Centre in Murrayville, and several new chargers were installed:

- eight new chargers for Township fleet vehicles,
- four new chargers for Township staff, and
- one new public DC fast charger, the first of its kind in the neighborhood

The new electrical service upgrade ensures that the Operations Centre is “future-proofed” with enough capacity to power up to 60 level 2 chargers and 2 DC fast chargers as EV adoption grows.

As of January 2022, the Township Civic Facility has 20 EV chargers, including:

- six new fleet chargers
- six new staff chargers

The project included electrical capacity improvements to allow for an additional 18 chargers in the future as charging needs increase.

These projects were made possible through support from the Government of Canada and the Province of BC.

More information: <https://www.tol.ca/at-your-service/sustainability/climate-action/climate-action-projects/ev-charger-expansion/>

7. Describe up to four climate initiatives, and their outcomes, your local government or Modern Treaty Nation is currently undertaking for Community

Climate Action Strategy: In 2021, Township of Langley Council unanimously adopted the Climate Action Strategy (CAS); a municipal roadmap to mitigating and adapting to climate change for both the community and corporate operations. The CAS sets GHG reduction targets of 45% by 2030, and 100% by 2050, which is supported by 149 actions across 8 Priority Areas. The Strategy's development included robust internal engagement, resulting in the integration of climate action across the organization, and 22 different departments leading and executing actions. More information: www.tol.ca/climateaction.

District Energy: A pre-feasibility study was conducted on low-carbon district energy system for new corporate facilities. The study resulted in a favorable option of a low-carbon district energy system utilizing ASHP & Geo-Exchange. Next steps include touring district energy systems in the region and developing schematic designs and Class D cost estimates.

Organics Diversion and Bioenergy: In 2021, Metro Vancouver organics diversion reports 3,952tCO₂e credits from 12,200 tonnes of organics diversion in the Township as part of the Green Cart program. Curbside organics diversion options are being investigated to further divert waste-related emissions. Furthermore, a bioenergy feedstock study is currently underway. The study expects to identify waste-to-resource opportunities in the Township through external stakeholder engagement and waste stream analysis.

Zoning Bylaw Updates: The council adopted changes to the zoning bylaw reducing parking requirements in certain areas, additional parking for persons with disabilities, and added requirements for end-of-trip facilities for bicycles in ICI buildings. A total of ten locations implemented traffic calming measures to encourage active mobility. In addition, bylaw amendments were integrated to remove the 50% parking requirement in specific locations. Collaborating with TransLink on Transport 2050 to connect Town Centres within the Township and connecting into employment areas, improving service to destinations like Fort Langley.

<p>8. Describe up to four climate initiatives, and their outcomes, your local government or Modern Treaty Nation is currently undertaking for Climate Resilience</p>	<p>Climate Action Strategy: 88 of the 149 actions in the Climate Action Strategy work to support adaptation and climate resilience in the Township. Adaptation actions were developed using modeled climate projections for 2050 and 2080 developed by climate scientists, followed by a Risk and Vulnerability Analysis executed by staff across the organization to determine priorities.</p> <p>Water wagon and misters: In 2021 the Township purchased a water wagon and misting station for events to ensure access to cold clean drinking water and to provide cooling opportunities for event patrons.</p> <p>Natural Capital Assets Management Plan (NCAMP): The Township is currently developing a Natural Capital Assets Management Plan to evaluate our natural assets (such as forests, creeks, and wetlands) and integrate them into our asset management program. The plan's development is supported by staff across the organization, and is expected to be completed in the summer of 2022.</p> <p>Rainwater Adaptation Study: A study is underway to review current rainwater infrastructure (grey, green, and natural infrastructure) using climate projections and newly adopted IDF curves. The study will assist staff to target upgrades and interventions in areas most vulnerable to rainstorms and flooding.</p>
<p>9. Which elements of your community's current official community plan (OCP) (or other relevant strategies, policies and/or plans) support the creation of more complete, compact communities?</p>	<p>2016 OCP</p> <p>2.5 URBAN COMMUNITY AND NEIGHBOURHOOD DESIGN, encouraging complete communities is one of the five main objectives.</p> <p>2.1.2. Discourage urban development outside the urban development area to preserve agricultural land, the rural landscape, and the environment. New development that may be permitted outside the urban development area must conform to the policies of the relevant land use designation and the Rural Plan.</p> <p>2.3.5. Designate Neighbourhood Centres in community plans, as required, to provide mixed use and multi-family development and small-scale commercial development to supply basic services within walking distance of most residences.</p> <p>2.3.8. Encourage higher-density residential and commercial development and high trip generating uses in the Regional Centre, Town Centres, Community Centres and Frequent Transit Development Areas</p> <p>2.3.9. Encourage mixed-use development in all centres, including mixed-use building forms (that incorporate residential uses above commercial retail or office uses or institutional uses in the same building), subject to detailed policies in applicable community and neighbourhood plans.</p> <p>2.3.10. Develop centres with pedestrian- and transit-friendly design. Create a strong sense of place by using streetscape design and providing amenities to enrich the public realm. Strip commercial development is discouraged.</p> <p>2.3.14. Encourage efficient and safe transit, cycling, and walking in all centres and Frequent Transit Development Areas by using supportive land use, road design, and greenway design. Transit-priority measures may be implemented where appropriate.</p>

	<p>2.5.3. Design each community to have a Town Centre or Community Centre as a central node. Locating the highest density of commercial and residential development in the node will encourage walking and transit use. Design neighbourhoods with Neighbourhood Centres as nodes, providing basic services and amenities within walking distance of all residences.</p> <p>2.5.4. Balance employment and residential uses in each community to provide residents with the option to work close to home. This balance can be achieved by:</p> <ul style="list-style-type: none"> • creating a stable and diverse economic base • providing a wide variety of educational and cultural facilities to help make the Township of Langley attractive to business • matching population growth with employment growth • incorporating in each community commercial, industrial, and institutional land uses that provide employment • encouraging mixed-use development • allowing and encouraging home-based businesses, provided they do not detract from residential living environments • providing support services that make home offices more attractive (e.g., ensuring the provision of high-quality telecommunication networks in new communities)
<p>10. What actions has your local government or Modern Treaty Nation taken to increase community completeness and compactness since 2020 (e.g. urban containment boundary, increasing density by allowing secondary suites and laneway or carriage housing options)?</p>	<p>In January 2021, Council adopted the Township of Langley’s Climate Action Strategy, which strengthens and adds to our broader policy framework around building compact, complete, and climate-resilient communities and neighborhoods. Recent efforts include more space dedicated to the natural environment, new denser housing forms – detached secondary suites, 2-plex, 3-plex, and 4-plex – for typical single-family neighborhoods, walkable proximity between homes and key destinations – schools, parks, commercial and recreational services – and integration of solar optimized design – at all scales – in neighborhoods. Also, transit-oriented community design and planning principles are being integrated into land use planning and development guidance regulations and standards.</p>
<p>11. What data would be most valuable to your local government or Modern Treaty Nation in decision-making related to the creation of complete, compact communities?</p>	<p>A catalog of provincial success stories would be helpful.</p>

<p>12. From 2021 to now, has your local government or Modern Treaty Nation taken any action(s) to address climate impacts?</p>	<p>Extreme Heat Response Guidelines: The Township of Langley is currently updating its Extreme Heat Response Guidelines to account for future climate projections and experiences during the 2021 heat dome. Staff are working with community groups and other equity organizations to seek feedback and collaboration opportunities. The Township is also developing a list of locations where residents can cool down that can be promoted during heat events.</p> <p>Hazard, Risk and Vulnerability Analysis: The 2015 HRVA is currently being updated to include climate projections. A working group from across the organization is updating the risk scores for 11 hazards likely to be affected by climate change (e.g. flooding, extreme heat, landslide), as well as incorporating historical experiences from the heat dome and atmospheric river events in 2021. Wildfire has also been added as a new hazard.</p>
<p>13. Has a climate risk and vulnerability assessment (or similar assessment) been undertaken for your local government or Modern Treaty Nation?</p>	<p>Yes</p>
<p>13.a. Please provide a link to the document (URL).</p>	<p>https://www.tol.ca/at-your-service/sustainability/climate-action/</p>
<p>14. What are the three most significant climate hazards faced by your jurisdiction</p>	<p>"Overland flooding", "Extreme heat and heat stress", "Water shortage", "Wind, rain, and other storm events", "Extreme cold, snow and ice", "Wildfire", "Ecological, cultural and/or human health impacts (examples of cultural impacts include threats to identities, languages, and livelihoods; examples of ecological impacts include biodiversity loss, erosion, invasive species, ecosystem changes)", "Coastal flooding, storm surge events and/or other coastal hazards"</p>
<p>15. Are you responding to this survey on behalf of a Modern Treaty Nation?</p>	<p>No</p>
<p>16. Based on the hazard you indicated as most significant in question 14, as a local government, which groups are most exposed/vulnerable to the impacts of that climate hazard?</p>	<p>"Agriculture and farming community", "Indigenous peoples"</p>

<p>17. Based on the hazard you indicated as second most significant in question 14, as a local government, which groups are most exposed/vulnerable to the impacts of that climate hazard?</p>	<p>"Low-income households", "Seniors"</p>
<p>18. Based on the hazard you indicated as third most significant in question 14, as a local government, which groups are most exposed/vulnerable to the impacts of that climate hazard?</p>	<p>"Residents on well water", "Low-income households"</p>
<p>19. Select the top three factors your local government or Modern Treaty Nation needs most to increase the capacity to adapt to climate impacts and build community resilience.</p>	<p>"Increased funding", "More community engagement and activation", "Political support and direction"</p>
<p>20. How does your local government or Modern Treaty Nation ensure equitable access to, and distribution of, climate action opportunities and benefits?</p>	<p>"By engaging with equity seeking groups/frontline communities most impacted by climate change", "By designing and implementing climate actions that target the barriers to access and resilience faced by the equity seeking groups/frontline communities most impacted by climate change"</p>
<p>21. Do the climate action plan(s) and priorities of your local government or Modern Treaty Nation align with the climate action plans and priorities of senior levels of government?</p>	<p>"Yes, we align climate action plan(s) and priorities with the federal 2030 Emissions Reduction Plan", "Yes, we align climate action plan(s) and priorities with the provincial CleanBC Roadmap to 2030", "Yes, we assess our plans and priorities for multilevel alignment"</p>
<p>22. Is your local government a signatory to the B.C. Climate Action Charter or a Modern Treaty Nation?</p>	<p>Yes</p>
<p>23. To demonstrate commitment to climate action, climate investments (i.e., matching funding or in-kind contributions) equivalent to 20% of the provincial funding received are required of local governments and Modern Treaty Nations. The intent is to show past, current, and future investments in climate action and create awareness and education.</p>	<p>"Staff time", "Climate or energy studies and/or assessments", "Climate or energy plans, policies and/or strategy development", "Climate resilient infrastructure and/or capital project(s)"</p>

24. Please provide your (or survey primary contact's) first and last name.	Ryan Chapman
25. Please indicate your (or survey primary contact's) position with your local government or Modern Treaty Nation.	Grant Management Superintendent
26. Please provide your (or survey primary contact's) business email address.	rchapman@tol.ca
27. Please provide your (or survey primary contact's) business phone number.	6045323518



Local Government Climate Action Program Attestation Form

Instructions for the Attestor:

1. Complete and sign this form by filling in the fields below.
2. Email the completed and signed form to LGCAP@gov.bc.ca.

I, the Chief Financial Officer, or equivalent position, of _____ (name of local government) confirm the following:

1. That Local Government Climate Action Program funding has been, or will be, allocated to climate action.
2. That if funds are held in reserve, they will be spent by the end of March 2025.
3. That a completed and signed version of this form will be submitted by email to the Climate Action Secretariat, Ministry of Environment and Climate Change Strategy by July 29, 2022.
 - a. If council approval is required, it will be submitted no later than September 30, 2022.
4. That a completed and signed version of this form will be publicly posted by September 30, 2022.
5. That a completed and exported version of the program survey (submitted online) will be publicly posted by September 30, 2022.

Attested to by me at (name of local government) _____
on (date) _____ 20_____

Signature of Attestor:

Printed Name of Attestor:

Title or Profession of Attestor (i.e. Chief Financial Officer or equivalent position):

Telephone Number of Attestor:

Email Address of Attestor:

**Ministry of Environment and
Climate Change Strategy**

Climate Partnerships and
Engagement Branch

Climate Action Secretariat

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