



Local Government Climate Action Program Survey Submission Report

qathet Regional District

Report generated on Saturday, July 16, 2022 17:09 PST

Question	Answer
1. Does your local government or Modern Treaty Nation have a climate action plan or strategy?	The qRD has developed a Greenhouse Gas Reduction Strategy but as a small LG we lack the financial, expertise and technical capacity to complete a comprehensive climate action plan.
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.	https://www.qathet.ca/about/forms-documents/reports-studies/
2.b. Report emissions based on Services Delivered Directly (in tCO ₂ e).	96
2.c. Report emissions based on Contracted Services (in tCO ₂ e).	80
2.d. Report emissions based on Total Corporate Emissions (in tCO ₂ e).	176

3. For calendar year 2021, did your local government or Modern Treaty Nation measure and publicly disclose a community-wide emissions inventory?	No, and we are not intending to undertake due to lack of expertise/technical capacity
4. Is your local government or Modern Treaty Nation tracking progress on its community-wide GHG reduction target?	No
4.e. If no, select all that apply:	"The qRD lacks the financial, expertise and technical capacity to measure and implement community-wide GHG reduction targets.", "No, due to a lack of resources"
5. Describe up to four climate initiatives, and their outcomes, your local government or Modern Treaty Nation is currently undertaking for Buildings	The qRD does not have a building bylaw, inspections or permitting. Therefore no initiatives have been undertaken that fit this category.
6. Describe up to four climate initiatives, and their outcomes, your local government or Modern Treaty Nation is currently undertaking for Transportation	<p>1) In 2021 the qRD completed an active transportation corridor connecting electoral area B to the urban centre. The corridor provides residents with a viable commuting option which takes vehicles off the road and reduces GHG emissions.</p> <p>2) The qRD is currently researching and assessing the purchase and installation of electric vehicle charging stations. The infrastructure will support resident's transition from gas to electric vehicles.</p> <p>3) The qRD has contracted with BC Transit to expand the rural paratransit service in 2022 and 2023. This change will support residents to use mass transit which will reduce GHG emissions.</p> <p>4) The qRD added secure bike storage at its main offices to encourage commuting to work through active transportation.</p>
7. Describe up to four climate initiatives, and their outcomes, your local government or Modern Treaty Nation is currently undertaking for Community	<p>1) The qRD launched an organics diversion pilot program and is in the process of developing an organics collection program and organics processing facility within the region to process food waste, soiled paper and yard and garden materials. This will divert these materials from the landfill and eliminate the by-products of landfilling organic materials.</p> <p>2) The qRD funds a Coastline Clean Up Initiative, supporting volunteer led shoreline clean-ups throughout the region. The initiative reimburses successful applicants for boat fuel, transportation costs and any associated disposal or recycling fees on a first come first serve basis. The qRD is also host to BC's first Ocean Plastic Depot. The Ocean Plastic Depot targets materials collected from cleanup efforts as well as legacy equipment from the marine sector to divert landfill waste and reduce oceanic plastic pollution. The Ocean Plastic Depot provides a designated location for these materials to be properly contained and select items recycled. This infrastructure and ocean plastic diversion program is made possible through a partnership</p>

between the Ocean Legacy Foundation and qathet Regional District with funding from the Department of Fisheries and Oceans. Through this funding opportunity, residents can drop off collected marine debris for free.

3) The qRD has been facilitating the Wood Stove Exchange Program (WSEP) each year starting in 2019 through successful grant funding through the BC Ministry of Environment and Climate Change Strategy (MOECCS) and the BC Lung Association. The qRD offers financial incentives to residents to replace of old, “smoky” wood stoves with newer, cleaner technology. This reduces fine particulate matter and contributes to cleaner air quality in the region. For the 2022 program, the qRD chose to exclude incentives for fossil fuelled appliances as a replacement option, taking proactive action on climate change mitigation choosing instead to offer higher incentives and promote electric heat pumps. The WSEP helps remove financial barriers to replacing old inefficient wood stoves and provides education to homeowners through Burn-It-Smart workshops.

4) The qRD was closing an existing landfill and developing a Resource Recovery Centre. Storm water runoff from a landfill closure mound needed to be received, flow-reduced, and filtered before being distributed back into the surrounding natural water courses. The engineered design would have been costly, require significant engineered infrastructure and would have resulted in the loss of approximately 0.4 hectares of second growth forest adjacent to park land. The qRD’s project team designed and constructed a rock apron that effectively dissipated, and evenly distributed storm water runoff to the surrounding forest at a significantly reduced cost. The apron design resulted from taking a step back from the engineered design, consulting with local forest professionals and a hydrogeologist and engineer to consider what the natural forest asset could provide for sustainable storm water service delivery. The resultant solution eliminated the use of tonnes of concrete and hundreds of hours of heavy equipment time, while introducing rainfall back into the water table. In addition, the qRD’s project team identified multiple materials found at the closure site (asphalt, concrete, wood, metal) that could be safely repurposed and reincorporated into the site’s future development. Repurposing these materials onsite, reduced the need to export the waste materials and associated GHG emissions. Landfill cover materials (sand, rock, etc.) were also excavated from the existing site reducing the GHG’s associated with trucking in new materials to the site.

<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>Initiative: Regional Sea Level Rise Coastal Flood Mapping - Mainland & Islands Outcome: Coastal flood inundation maps that show the anticipated impacts resulting from sea level rise, storm surge, and coastal erosion across the region. The flood maps identify the anticipated boundaries of potential flood events and the probabilities of occurrence. The mapping is of significant value for public safety, infrastructure planning, as well as the protection of environmental and economic assets throughout the region.</p> <p>Initiative: Regional Coastal Flood Adaptation Strategy Outcome: Through this work, we are exploring how sea level rise and a range of coastal storms (both small and frequent, as well as large and rare) interact with the places and things that our communities value along the coast. We are engaging with stakeholders and the public in exploring adaptation and mitigation options based on the provincial Flood Hazard Area Land Use Management Guidelines and findings from the Regional Coastal Flood Mapping. The final strategy will set out mitigation options to guide adaptation efforts and increase resiliency to rising sea levels and coastal 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>The land use policies in each of the qathet Regional District's Official Community Plans promote higher density mixed use development within unincorporated villages where water and/or sewer servicing is available. These policies support the creation of complete, compact communities.</p>
<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>No actions since 2020.</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>The qathet Regional District is composed of rural electoral areas and small island communities. The rural nature and small population of our electoral areas are not conducive to creating complete, compact communities.</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>In June, 2022 the qRD applied for funding to develop a risk management framework in order to appropriately consider the potential impact of asset failures and the associated implications to / of health and safety, finance, business operational effectiveness, legislation and regulation, strategy, reputation, the environment and climate change for each of the qRD's services that have associated infrastructure.</p> <p>The framework will contain best practices for risk management techniques, including monitoring and recording defined risk events and will identify the need for scheduled risk evaluations in future months/years.</p> <p>Using the developed framework, a risk profile will be prepared for a select number of qRD services that outlines the known risks and prioritized actions to address the risks based on identified tolerance thresholds developed in the framework. Each profile will identify and document critical assets that have the highest impact to service delivery.</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>No, but we are intending to undertake one in the next two years</p>
<p>14. What are the three most significant climate hazards faced by your jurisdiction</p>	<p>"Wind, rain, and other storm events", "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", "Overland flooding", "Wildfire", "Water shortage", "Extreme heat and heat stress", "Extreme cold, snow and ice"</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>"Low-income households", "People experiencing homelessness", "Seniors"</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", "People experiencing homelessness", "Seniors"</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?	"Low-income households", "People experiencing homelessness", "Seniors"
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.	"Increased staff knowledge, expertise and data specific to climate adaptation", "Increased staff capacity", "Political support and direction"
20. How does your local government or Modern Treaty Nation ensure equitable access to, and distribution of, climate action opportunities and benefits?	"By collecting and analyzing disaggregated and/or spatial data on the impact of climate actions", "By engaging with equity seeking groups/frontline communities most impacted by climate change"
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?	"The qRD has not had adequate capacity and expertise to develop comprehensive climate action plans.", "No, there is no process currently for multilevel government collaboration and alignment of climate plans and implementation", "No, our resource capacity doesn't permit us to collaborate or align more effectively with senior levels of government"
22. Is your local government a signatory to the B.C. Climate Action Charter or a Modern Treaty Nation?	Yes
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.	"Staff time", "Climate or energy plans, policies and/or strategy development", "Climate resilient infrastructure and/or capital project (s)"
24. Please provide your (or survey primary contact's) first and last name.	Linda Greenan

25. Please indicate your (or survey primary contact's) position with your local government or Modern Treaty Nation.	Manager of Financial Services
26. Please provide your (or survey primary contact's) business email address.	lgreenan@qathet.ca
27. Please provide your (or survey primary contact's) business phone number.	6044852260



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 qathet Regional District (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) qathet Regional District
on (date) July 18 2022

Signature of Attestor:

Printed Name of Attestor:

Linda Greenan

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

Manager of Financial Services

Telephone Number of Attestor:

604-485-2260

Email Address of Attestor:

lgreenan@qathet.ca

**Ministry of Environment and
Climate Change Strategy**

Climate Partnerships and
Engagement Branch
Climate Action Secretariat

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Website:

[http://www2.gov.bc.ca/gov/content/
environment/climate-change](http://www2.gov.bc.ca/gov/content/environment/climate-change)

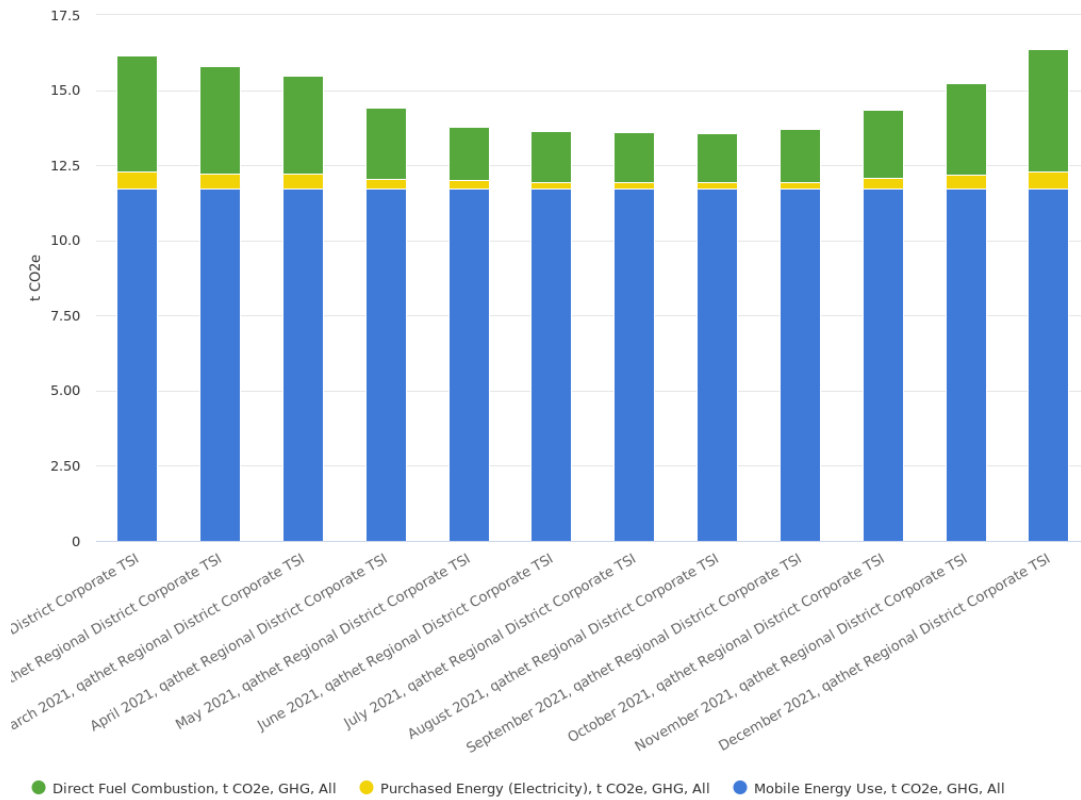


qathet REGIONAL DISTRICT

2021 BC Traditional Services GHG Inventory

<u>Reporting Entity:</u>	qathet Regional District
<u>Reporting Year:</u>	Calendar Year 2021
<u>Inventory Scope:</u>	BC Traditional Services Inventory "TSI"
<u>Quantification Methodology:</u>	2020 B.C. Best Practices Methodology for Quantification GHG Emissions, Local Governments & Public Sector Organizations
<u>System Support:</u>	SoFi GHG Reporting by GHG Accounting Services
<u>Data collection:</u>	qathet Regional District
<u>Data Entry:</u>	Data Upload

Total TSI GHG Inventory: 176 t CO₂e



Total Energy Consumption by Energy Type for Traditional Services Inventory:

	qathet Regional District Corporate TSI
Natural Gas Stationary [GJ]	227
Propane [l]	10,428
Electricity [kWh]	433,374
Gasoline [l]	13,052
Diesel [l]	43,434
Biodiesel (B100) [l]	650

Category 1:

	qathet Regional District Corporate TSI				
	GJ, Energy	t CO ₂	t CH ₄	t N ₂ O	t CO ₂ e, GHG, Category 1
Direct Fuel Combustion	541	30.5	0.000566	0.001368	31

Category 2:

	qathet Regional District Corporate TSI	
	kWh	t CO ₂ e, GHG, Category 2
Purchased Energy (Electricity)	433,374	4

Category 3:

	qathet Regional District Corporate TSI				
	GJ, Energy	t CO ₂	t CH ₄	t N ₂ O	t CO ₂ e, GHG, Category 3
Mobile Energy Use	2,055	137	0.01454	0.012706	141

Biogenic GHG Emissions:

	qathet Regional District Corporate TSI		
	t Bio CH ₄	t Bio CO ₂	t Bio CO ₂ e, GHG
Direct Fuel Combustion		0.12805	0.12805
Mobile Energy Use		6.75	6.75
Total		6.88	6.88

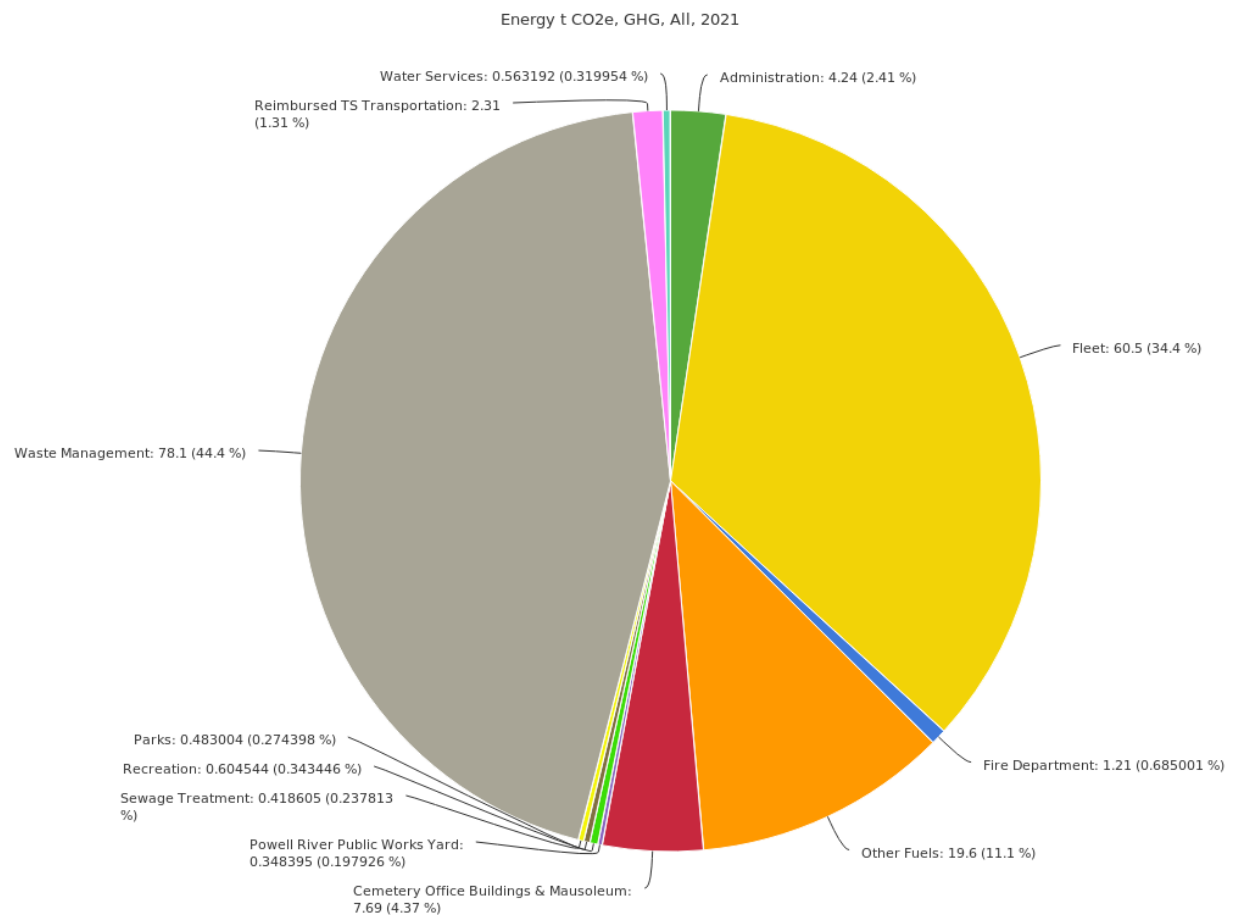
Totals by Service Delivery:

	qathet Contracted Services	qathet Delivered Directly	Total
	Energy Inventory	Energy Inventory	
	t CO ₂ e, GHG, All	t CO ₂ e, GHG, All	
2021	80	96	176

Summary:

qathet Regional District	Energy Inventory	Total
	t CO ₂ e, GHG	t CO ₂ e, GHG
	Corporate TSI	
2021	176	176

GHG by Service Area:



Top GHG Emitters:

	t CO ₂ e, GHG	%
Total qathet Regional District TSI	176	100
Waste Management	78.1	44.4
Fleet	60.5	34.4