

Combined CARIP Carbon Tax Calculation - Attestation Form

Local Government Name:	District of Tumbler Ridge
Contact Information	
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**Calculation of carbon tax paid directly by the local government
for fuel purchased between January 1 and December 31, 2019**

Fuel Type	January 1 to March 31/2019				April 1 - December 31/2019			Total Carbon Tax Paid	
	Unit	Units	Tax Rate per Unit	Carbon Tax Paid	Units	Tax Rate per Unit	Carbon Tax Paid		
Most common fuels in a local government context:									
Gasoline	Litre	9642.9	0.0778	750.22	31765	0.0889	2823.89961	3574.11723	
Diesel	Litre	21864	0.0895	1956.78	29060	0.1023	2972.80731	4929.59056	
Bio-Diesel ²	Litre		0.0895	0.00		0.1023	0	0	
Natural Gas	Gigajoule ³	5159.7	1.7381	8968.07	7675	1.9864	15245.62	24213.69457	
Natural Gas	m ³		0.0665	0.00		0.076	0	0	
Propane	Litre	3750.5	0.0539	202.15	4481.8	0.0616	276.07888	478.23083	
Other fuels which are taxed:									
Heating Oil	Litre		0.0895	0		0.1023	0	0	
Locomotive Fuel	Litre		0.0895	0		0.1023	0	0	
Heavy Fuel Oil	Litre		0.1103	0		0.126	0	0	
Aviation Fuel	Litre		0.0861	0		0.0984	0	0	
Jet Fuel	Litre		0.0914	0		0.1044	0	0	
Kerosene	Litre		0.0914	0		0.1044	0	0	
Naphtha	Litre		0.0893	0		0.102	0	0	
Methanol	Litre		0.0382	0		0.0436	0	0	
Butane	Litre		0.0616	0		0.0704	0	0	
Ethane	Litre		0.0343	0		0.0392	0	0	
Refinery Gas	m ³		0.0616	0		0.0704	0	0	
Coke Oven Gas	m ³		0.0564	0		0.0644	0	0	
Coal -- Low Heat Value ⁴	Tonne		62.2	0		71.08	0	0	
Coal -- High Heat Value ⁴	Tonne		72.7	0		83.08	0	0	
Coke	Tonne		87.05	0		99.48	0	0	
Petroleum Coke	Litre		0.1285	0		0.1468	0	0	
Tires -- shredded ⁵	Tonne		83.69	0		95.64	0	0	
Tires -- whole ⁵	Tonne		72.8	0		83.2	0	0	
Peat	Tonne		35.77	0		40.88	0	0	
Current Year Total Carbon Tax Paid:				\$ 11,877				\$ 21,318	\$ 33,196
Previous Year Total Carbon Tax Paid (Value Entered by Local Government):								\$ 28,216	
Variance Calculation:							18%	\$ 4,980	

Please use this box to provide an explanation for any increases/decreases in year over year carbon taxes paid that are 25% or greater.

- Only list fuels that were purchased for the local government's own use, on which carbon tax was paid, and where that carbon tax was not refunded or recovered from another party (e.g., through a lease arrangement). Also do not include any fuels that were exempted from carbon tax (for more information on exemptions see the *Carbon Tax Act* and its Regulations)
- Bio-diesel blends must be prorated in order to claim the diesel and bio-diesel portions on the appropriate line. The proportion of the blend (B5, B10, B15 etc) that is conventional hydrocarbon-based diesel is included on the diesel line; consequently, the bio-diesel pro-rated amount must be entered on the bio-diesel line. For example, a 10,000 litre purchase of B10, which is 10% bio-diesel and 90% hydrocarbon-based diesel, would be recorded as 9,000 litres hydrocarbon-based diesel (90% of 10,000 purchased litres) and bio-diesel would be recorded as 1000 litres (10% of purchased bio-diesel).
- Marketable Natural Gas may be recorded at either Gigajoules or m³
- Low Heat Value Coal includes Sub-Bituminous Coal; High Heat Value Coal includes Bituminous Coal
- Only include tires if they are combusted

I declare that the information contained in this Carbon Tax Calculation Form is true and correct and based on actual accounting records and not estimates.

I declare that the information contained in the 2019 Climate Action Revenue Incentive Program (CARIP) Survey submitted online to the Province on April 2, 2020 was made public on April 20, 2020.

Signature of Financial Officer: *Celma Schribar*

2019 Climate Action Revenue Incentive Program (CARIP) Survey

April 2, 2020

2019 Climate Action Revenue Incentive Program (CARIP) Survey Overview

INTRODUCTION:

The 2019 CARIP survey highlights and celebrates local government climate action in British Columbia.

Local governments are required to submit the 2019 CARIP/ Carbon Neutral Progress Survey by June 1, 2020.

Detailed survey instructions, FAQs and definitions can be found in the CARIP Program Guide for 2019 Claims.

Once the survey is complete, please download a copy of your responses (you will be given the download link at the end of the survey).

SURVEY CONTENT:

Section 1: Local Government Information

Section 2: Narrative Focus

2019 Corporate Climate Action

2019 Community-wide Climate Action

2019 Climate Change Adaptation Action

Section 3: 2019 Carbon Neutral Reporting

Section 1 – Local Government Information

Does your region have a Regional Growth Strategy (RGS):

- Yes
- No
- Don't know

Population:

- 0-4,999
- 5,000 to 9,999
- 10,000 to 49,999
- 50,000 to 99,999
- 100,000+

Submitted by:

Name

Celma Schribar

Position

Director of Finance

Email Address

cschribar@dtr.ca

Phone Number

250-242-4242 Ext 234

Section 2 - Narrative Focus

Local government signatories to the B.C. Climate Action Charter have committed to taking climate action by:

Working towards achieving corporate carbon neutrality;
Measuring and reporting on their community-wide GHG emissions; and
Creating complete, compact, energy-efficient communities.

A key part of the 2019 CARIP survey is to highlight and celebrate successful climate actions undertaken by local governments in British Columbia.

In 2019, what actions has your local government taken to support the creation of compact, complete, and energy efficient communities?

The District of Tumbler Ridge continues to assess its assets in order to determine where energy efficiencies can be implemented. There are ongoing assessments on the building envelopes at Town Hall, Fire Hall and Public Works Building. The District started the Airport Infrastructure assessment. The District replaced some of the streetlight control units and will continue to do some each year. The tennis

court lighting was upgraded. The Community Centre Boiler was upgraded to be more energy efficient. Four (4) pieces of Golf Course maintenance equipment were purchased to replace the old equipment which was not fuel efficient. The District completed the Interpretive Trail in 2019. The District completed its Recreation Master Plan. The District has commenced a Downtown Sidewalk Assessment. The District feels that any improvements to its trails and sidewalks will encourage residents to "Walk don't Drive". The District implemented a vehicle replacement plan in order to dispose of inefficient vehicles and equipment in a timely manner. The District upgraded a portion of its storm sewer system in order to mitigate any flooding that might occur in the future.

2019 CORPORATE CLIMATE ACTION:

Corporate climate actions refer to actions that reduce the GHG emissions produced as a result of a local government's delivery of "traditional services", including fire protection, solid waste management, recreational/cultural services, road and traffic operations, water and wastewater management, and local government administration.

In 2019, when it comes to corporate climate action, did your local government undertake any of the following (PLEASE SELECT ALL THAT APPLY):

- Building and Lighting Actions
- Energy Generation Actions
- Greenspace Actions
- Planning Actions
- Solid Waste Actions
- Transportation Actions
- Water and Wastewater Actions
- Other Climate Actions (PLEASE SPECIFY)
- Don't know

Please specify 'Other Climate Actions'

Replacement of vehicles and equipment with fuel efficient vehicles and equipment.

When it comes to corporate Building and Lighting Actions, did your local government undertake any of the following in 2019 (PLEASE SELECT ALL THAT APPLY):

- New or upgraded energy-efficient lighting systems
- New or upgraded energy-efficient heating systems

- New or upgraded building envelope initiatives
- Upgrades to amenities in recreation facilities
- Studies related to building and/or lighting energy efficiency
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

When it comes to corporate Greenspace Actions, did your local government undertake any of the following in 2019 (PLEASE SELECT ALL THAT APPLY):

- Tree planting
- Greenspace acquisition
- New or upgraded amenities in parks
- Invasive species management
- Plans or strategies related to greenspace
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

When it comes to corporate Planning Actions, did your local government undertake any of the following in 2019 (PLEASE SELECT ALL THAT APPLY):

- Energy/Emissions Management Plan (New or Updated)
- Asset Management Plan (New or Updated)
- Corporate Climate Action Plan (New or Updated)
- Strategic Plan (New or Updated)

Other (PLEASE SPECIFY)

Don't know

Please specify 'Other'

When it comes to corporate Solid Waste Actions, did your local government undertake any of the following in 2019 (PLEASE SELECT ALL THAT APPLY):

Introduction, expansion or improvement of recycling initiatives at corporate facilities

Introduction, expansion or improvement of composting initiatives at corporate facilities

Communication or education for staff related to corporate solid waste initiatives

Studies or research related to corporate solid waste initiatives

Plans or strategies related to corporate solid waste initiatives

Other (PLEASE SPECIFY)

Don't know

Please specify 'Other'

The District purchased new Commercial Solid Waste Bins. This will make the pickup of commercial solid waste bins more efficient thus reducing idling and running time of the bins.

As mentioned, a key part of the 2019 CARIP survey is to highlight and celebrate successful climate actions undertaken by local governments in British Columbia. This question provides local governments the opportunity to demonstrate leadership and innovative approaches to reduce corporate GHG emissions.

When it comes to the corporate climate action, please highlight up to three significant actions focused on reducing GHG emissions that your local government undertook in 2019:

Ongoing Townhall, Firehall and Public Works Building Assessments. Began assessment of Airport infrastructure.

Corporate Action #2

Replaced four (4) pieces of equipment with fuel efficient equipment.

Corporate Action #3

Upgraded Community Centre Boiler.

2019 COMMUNITY-WIDE CLIMATE ACTION:

Community-wide actions refer to actions that reduce GHG emissions across the community (i.e. actions not related to “traditional services” in corporate operations).

When it comes to community-wide climate action in 2019, did your local government undertake any of the following (PLEASE SELECT ALL THAT APPLY):

- Building and Lighting Actions
- Energy Generation Actions
- Greenspace Actions
- Planning Actions
- Solid Waste Actions
- Transportation Actions
- Water and Wastewater Actions
- Other Climate Actions (PLEASE SPECIFY)
- Don't know

Please specify 'Other Climate Actions'

The District continues its funding and support of the Community Garden. The District continues to support the Tumbler Ridge Community Forest.

When it comes to community-wide Greenspace Actions, did your local government undertake any of the following in 2019 (PLEASE SELECT ALL THAT APPLY):

- Tree planting
- Greenspace restoration or maintenance
- Greenspace acquisition

- Invasive species management
- Plans or strategies related to greenspace
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

As mentioned, a key part of the 2019 CARIP survey is to highlight and celebrate successful climate actions undertaken by local governments in British Columbia. This question provides local governments the opportunity to demonstrate leadership and innovative approaches to reduce community-wide GHG emissions.

When it comes to the community-wide climate action, please highlight up to three significant actions focused on reducing GHG emissions that your local government undertook in 2019:

Support the Community Garden and the Tumbler Ridge Community Forest.

Community-Wide Action #2

Finished construction of the Interpretive Trail.

Community-Wide Action #3

Upgraded the Tennis Court lighting.

2019 CLIMATE PREPAREDNESS AND ADAPTATION ACTION:

This section of the CARIP survey is designed to collect information related to the types of climate impacts local governments are experiencing and how they are being addressed.

Please identify the climate impacts that are most relevant to your local government (PLEASE SELECT ALL THAT APPLY):

- Increased temperatures increasing wildfire activity
- Extreme weather events contributing to urban and overland flooding
- Changes to temperature and precipitation causing seasonal drought
- Warmer winter temperatures reducing snowpack

Sea level rise and storms causing coastal flooding and/or erosion

Other (PLEASE SPECIFY)

Don't know

Please specify 'Other'

In 2019, did your local government take any of the following actions in an effort to consider or address the impacts of climate change? (PLEASE SELECT ALL THAT APPLY)

Emergency response planning

Asset management

Infrastructure upgrades

Public education and awareness

Strategic and financial planning

Risk and vulnerability assessments

Risk reduction strategies

Official Community Plan policy changes

Other (PLEASE SPECIFY)

Don't know

Please specify 'Other'

In 2019, did your local government partner with any of the following organizations to prepare for, and adapt to, a changing climate? (PLEASE SELECT ALL THAT APPLY)

Adaptation to Climate Change Team (SFU)

Columbia Basin Trust

Community Emergency Preparedness Fund (UBCM)

- Federation of Canadian Municipalities
- Fraser Basin Council
- Pacific Institute for Climate Solutions (UVIC)
- Other (PLEASE SPECIFY)
- Don't know

Please specify 'Other'

As mentioned, a key part of the 2019 CARIP survey is to highlight and celebrate successful climate actions undertaken by local governments in British Columbia. This question provides local governments the opportunity to demonstrate leadership and innovative approaches to adapting to a changing climate.

When it comes to climate preparedness and adaptation actions, please highlight up to three significant actions/initiatives that your local government undertook in 2019:

Emergency Operations Centre Training

Adaptation Action #2

Stormwater System Upgrades

Adaptation Action #3

Section 3: 2019 Carbon Neutral Reporting

Local governments are required to report on their progress in achieving their corporate carbon neutral goal under the B.C. Climate Action Charter. Working with B.C. local governments, the joint Provincial-UBCM Green Communities Committee has established a common approach to determining corporate carbon neutrality for the purposes of the Charter, including a Carbon Neutral Framework and supporting guidance for local governments on how to become carbon neutral.

Prior to completing this portion of the survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, specifically the

Workbook and Becoming Carbon Neutral: A Guide for Local Governments in British Columbia.

Please note: As a result of the BC Recycling Regulation, local governments are no longer required to account for GHG emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper, in their annual Climate Action Revenue Incentive Program (CARIP) reports.

2019 CARBON EMISSIONS

Did your local government measure corporate GHG emissions for 2019?

- Yes
 No
 Don't Know

If your local government measured 2019 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent (tCO₂e)) from:

Service Delivery Type	2019 Corporate GHG Emissions
Services Delivered Directly by your Local Government	4264
Contracted Services	

TOTAL A - CORPORATE GHG EMISSIONS (DIRECT + CONTRACTED) FOR 2019:

TOTAL A - CORPORATE GHG EMISSIONS (DIRECT + CONTRACTED) FOR 2019:

4264

2019 CARBON REDUCTIONS

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions generated in 2019 by one or a combination of the following actions:

- Undertake Green Communities Committee-supported Option 1 Project(s)
- Undertake Green Communities Committee-supported Option 2 Project(s)
- Purchase carbon offsets from a credible offset provider

For more information about options to balance or offset corporate GHG emissions please refer to Becoming Carbon Neutral: A Guidebook for Local Governments in British Columbia.

If applicable, please report the 2019 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from any of the following Option 1 GHG Reduction Projects:

Option 1 GHG Reduction Projects	2019 GHG Emissions Reductions
1A Energy Efficiency Retrofits	
1B Solar Thermal	
1C Household Organic Waste	
1D Low Emission Vehicles	
1E Avoided Forest Conversion	
1F Trenchless Technology	

TOTAL B - REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2019:

TOTAL B - REDUCTIONS FROM ALL OPTION 1 PROJECTS FOR 2019:

0

If applicable, please report the names and 2019 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

	Names of Option 2 GHG Reduction Projects	2019 GHG Emissions Reductions
1.		
2.		
3.		
4.		
5.		
6.		

TOTAL C - REDUCTIONS FROM ALL OPTION 2 PROJECTS FOR 2019:

TOTAL C - REDUCTIONS FROM ALL OPTION 2 PROJECTS FOR 2019:

0

2019 CARBON OFFSETS

If applicable, please report the name of the offset provider, type of project and number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2019 reporting year:

	Name of Offset Provider	Name of Project	2019 GHG Emissions Reductions
1.			
2.			
3.			
4.			
5.			
6.			

TOTAL D - OFFSETS PURCHASED FOR 2019:

TOTAL D - OFFSETS PURCHASED FOR 2019:

0

TOTAL REDUCTIONS AND OFFSETS FOR 2019 (Total B+C+D):

TOTAL REDUCTIONS AND OFFSETS FOR 2019 (Total B+C+D):

0

Corporate GHG Emissions Balance for 2019

Your local government's corporate GHG emissions balance is the difference between total corporate offsettable GHG emissions (direct + contracted emissions) and the GHG emissions reduced through Green Communities Committee Option 1 and Option 2 projects and/or the purchase of offsets.

CORPORATE GHG EMISSIONS BALANCE FOR 2019 = (Total A – (B+C+D))

CORPORATE GHG EMISSIONS BALANCE FOR 2019 (Total A – (B+C+D))

4264

If your corporate GHG emissions balance is negative or zero, your local government is carbon neutral. CONGRATULATIONS!

If your local government was carbon neutral in 2019, please record any emissions reductions you will be carrying over for future years and the source of the reductions, including the year they were earned (e.g. organics diversion, 2019 100 tCO2e):

	Source of Carryover Emission Reduction	Year Earned	GHG Emissions Reductions
1.			
2.			
3.			
4.			
5.			
6.			

TOTAL E - BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR

TOTAL E - BALANCE OF REDUCTIONS ELIGIBLE FOR CARRY OVER TO NEXT YEAR

0

GREEN COMMUNITIES COMMITTEE CLIMATE ACTION RECOGNITION PROGRAM:

The joint Provincial-UBCM Green Communities Committee is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the Green Communities Committee with an opportunity to review and publicly recognize the progress and achievements of each Climate Action Charter (Charter) signatory.

Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

Level 1 – Demonstrating Progress on Charter Commitments: For local governments who demonstrate progress on fulfilling one or more of their Charter commitments.

Level 2 – Measuring GHG Emissions: For local governments that achieve Level 1, who measure their corporate GHG emissions for the reporting year and demonstrate that they are familiar with their community’s energy and emissions inventory (i.e. CEEI).

Level 3 – Accelerating Progress on Charter Commitments: For those local governments who have achieved Level 1 and 2 and demonstrate significant action (corporately or community-wide) in reducing GHG emissions in the reporting year (e.g. through undertaking a GHG reduction project, purchasing offsets, establishing a reserve fund).

Level 4 - Achievement of Carbon Neutrality: For local governments who achieve corporate carbon neutrality in the reporting year.

Based on your local government's 2018 CARIP Climate Action/Carbon Neutral Progress Survey, please check the Green Communities Committee Climate Action Recognition Program level that best applies:

- Level 1 – Demonstrating Progress on Charter Commitments
- Level 2 – Measuring GHG Emissions
- Level 3 – Accelerating Progress on Charter Commitments
- Level 4 - Achievement of Carbon Neutrality
- Don't know

Related to Level 3 recognition, if applicable, please identify any new or ongoing corporate or community-wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time and/or financial resources and is intended to result in significant GHG reductions:

Does your local government set aside funds in a climate reserve fund or similar?

- Yes
- No
- Don't know