CARIP and Carbon Neutral Reporting

Webinar

March 6, 2019 – 10am to 11:30am
Attendee Control Panel

- Hide/unhide
- Raise hand
- Ask a question
Presenters:

Ministry of Municipal Affairs and Housing
Urszula Mezynska, Manager, PLUM
Carolyn Gisborne, Senior Policy Analyst, PLUM

Ministry of Environment
Ken Porter, Senior Policy Analyst CAS
Alvaro Diaz, Senior Policy Analyst, CAS
CARIP and Carbon Neutral Reporting

Ministry of Municipal Affairs and Housing
Climate Action Secretariat, Ministry of Environment and Climate Change Strategy
March 6, 2019
POLL TIME
Presentation Outline

1. Background
   – BC Climate Action Charter
   – Green Communities Committee (GCC)

2. CARIP Reporting

3. Carbon Neutral Framework Reporting
   – BC Recycling Regulation
   – New Trenchless Technology Project Profile

4. Recognition

5. Questions and Answers
BC Climate Action Charter

• Established in 2007 and signed by 187 local governments

THE BRITISH COLUMBIA CLIMATE ACTION CHARTER
BETWEEN
THE PROVINCE OF BRITISH COLUMBIA (THE PROVINCE)
AND
THE UNION OF BRITISH COLUMBIA MUNICIPALITIES (UBCM)
AND
SIGNATORY LOCAL GOVERNMENTS
(THE PARTIES)

• Local governments commit to:
  – Becoming carbon neutral in their corporate operations
  – Measuring and reporting on community emissions
  – Creating complete, compact, energy efficient rural and urban communities.
Green Communities Committee (GCC)

- The GCC was established under the Climate Action Charter to support local government climate action
  - Provincial Climate Action Revenue Incentive (CARIP) Program
  - Carbon Neutral Framework for BC local governments
  - BC Climate Action Toolkit – [https://www.toolkit.bc.ca/](https://www.toolkit.bc.ca/)
  - GCC Recognition Program
  - UBCM Excellence Awards
CARIP – Climate Action Revenue Incentive Program

- Charter signatories are eligible

- Conditional grant program that provides funding equivalent to 100% of carbon tax paid directly

- Recipients must report annually on climate actions including progress on carbon neutrality (survey)
1. Carbon Tax Calculation Form
2. 2018 CARIP Climate Action/Carbon Neutral Progress Survey
2. Public report of survey content
3. 2018 CARIP Public Report Attestation Form

CARIP Program Guide for 2018 Claims
https://www2.gov.bc.ca/assets/gov/british-columbians-our-governments/local-governments/planning-land-use/carip_program_guide_2018_claims.pdf

Deadline: JUNE 1/19
April 1, 2018: the provincial carbon tax increased by $5 to $35 per tonne.
The increase has been reflected in the Carbon Tax Calculation Form and includes calculation of fuels before and after the increase.
Questions – contact infra@gov.bc.ca

<table>
<thead>
<tr>
<th>Fuel Type</th>
<th>Unit measure</th>
<th>Units</th>
<th>Tax Rate per unit, January 1, 2018 to March 31, 2018</th>
<th>Carbon Tax paid</th>
<th>Units</th>
<th>Tax Rate per unit, April 1, 2018 to December 31, 2018</th>
<th>Carbon Tax paid</th>
<th>Total Carbon Tax Paid in 2018</th>
</tr>
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1. CFOs receive a message from SurveyMonkey inviting them to participate in the survey.

2. SurveyMonkey cannot produce a report for the party filling in the survey.
   - We recommend using the **Word Template**.
   - We will send you a pdf copy once you have completed your survey but it is not edited and includes all the questions.
Climate Actions Reporting

• Corporate and community-wide climate actions
• Required questions, including:
  – Contact information
  – Snapshot questions

2018 CARIP Climate Action/Carbon Neutral Progress Survey

BROAD PLANNING ACTIONS

Broad Planning refers to high-level planning that sets the stage for GHG emissions reductions, including plans such as Official Community Plans, Integrated Community Sustainability Plans, Climate Action Plans or Community Energy Emissions Plans. Land use planning that focuses on Smart Growth principles (e.g. compact, complete, connected and centred settlement patterns) plays an especially important role in energy and GHG reduction.

COMMUNITY-WIDE BROAD PLANNING - 2018 ACTIONS

In the following section, please identify up to five Community-Wide Broad Planning actions taken in 2018 (one action per box). There is a separate box for additional actions that you wish to report.

* 12. What is (are) your current GHG reduction target(s)?

* 13. Are you familiar with your local government’s community energy and emissions inventory (e.g. CEE or another inventory)?
   - Yes
   - No

* 14. What plans, policies or guidelines govern the implementation of climate mitigation in your community?
   - Community Energy and Emissions Plan
   - Integrated Community Sustainability Plan
   - Community-Wide Climate Action Plan
Climate Actions Reporting

• Corporate and community-wide climate actions
  – Broad Planning
  – Building and Lighting
  – Energy Generation
  – Greenspace/Natural Resource Protection
  – Solid Waste
  – Transportation
  – Water and Wastewater

• Adaptation

• Innovation/Peer Learning
Summary Report on LOCAL GOVERNMENT CLIMATE ACTIONS 2017

Climate Action Highlights

The installation of solar generation systems appears to be an effective way for smaller local governments to reduce the GHG consumption of their community-owned buildings and facilities. Examples include the Village of Alert Bay, which installed a battery bank to store the energy generated by the solar panels put on community-owned buildings during the previous year, the District of Sparwood’s district office and leisure centre solar photovoltaic energy systems, and Port McNeill’s installation of a solar heating system at their public swimming pool.

As identified in the following examples, solar energy projects and building upgrades not only reduce GHG emissions but can also save money.

The District of Hudson’s Hope is engaged in what is expected to be the largest municipal solar array in BC. The District is installing enough solar panels to generate 500kW of electricity, including roof-mounted solar arrays on seven municipally-owned buildings and ground-mounted arrays at the sewage treatment lagoon and District swimming pool. The project will be “grid tied” meaning that the surplus solar energy generated will be fed into the grid and accumulate credit with BC Hydro to be used during the darker winter months. The District anticipates saving approximately $50,000 in electrical costs annually. The project was supported by Gas Tax funding.

There were a number of other energy upgrades reported including the District of Wells upgrades to the Wells Benchville Elementary School heating system. Two oil-fired boilers were replaced with high efficiency propane fired condensing boilers. The new boilers and existing hot water heating system were connected to an existing geothermal heating system. This reduced greenhouse gas emissions as well as heating and cooling costs.

Community-Wide Actions

As in past years, a number of small communities indicated that they are installing LED street lighting, supporting transit and other transportation alternatives, preserving parkland and forests and supporting local food production. Improving and expanding recycling and composting activities community wide is also a focus. For example, the District of Chetwynd initiated a pilot curbside recycling pickup program in two large subdivisions resulting in a significant reduction in the amount of residential garbage that was taken to the landfill.

96% of CARIP respondents have water conservation plans or policies in place (a 1% increase from 2016).

45% of CARIP respondents have urban forest policies, plans or programs. 63% have policies, plans or programs to support local food production.
1. Submit CARIP Survey
2. Make survey content public
3. Sign and submit Attestation Form
4. Fill out and submit Carbon Tax Calculation Form

Deadline: JUNE 1/19
Measuring vs Not Measuring

* 81. Did your local government measure corporate GHG emissions for 2018?  📅
  - Yes
  - No

- If **NO**, you will skip the carbon neutral reporting section and if you have reported a corporate action you will identify that you are at “Level 1 – Demonstrating Progress on Charter Commitments”

* 100. Based on your local government's 2018 Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies  📅
  - Level 1 - Demonstrating Progress on Charter Commitment
  - Level 2 - Measuring GHG Emissions
  - Level 3 - Accelerating Progress on Charter Commitments
  - Level 4 - Achievement of Carbon Neutrality
  - Not Sure

- If **YES**, you will fill out the rest of the carbon neutral reporting section of the CARIP survey.”
Carbon Neutral Framework for BC Local Governments

Becoming Carbon Neutral

A Guidebook for Local Governments in British Columbia

Measure

Reduce

Report

Balance and/or Offset
Traditional services include:
- Administration and governance
- Drinking, storm and waste water
- Solid waste (collection, transportation, diversion)
- Roads and traffic operations
- Arts, recreation, parks, and cultural services
- Fire protection

(See: The Workbook at http://toolkit.bc.ca/cnlq)
• BC Recycling Regulation:
  – end-of-life management of residential packaging and printed paper is the responsibility of the businesses that produce these materials.

• 2018 CARIP reporting year:
  – local governments are no longer required to account for greenhouse gas (GHG) emissions from vehicles, equipment and machinery required for the collection, transportation and diversion of packaging and printed paper.

• Solid waste (collection, transportation, diversion)
  – In scope: garbage and composting
  – Out of scope: packaging and printed paper
POLL TIME
• 80 local governments using SMARTTool
  – 2018 reporting will be completed using SMARTTool
  – SMARTTool will transition to new tool powered by SoFi Enterprise

• Contact SMARTTool Team at:
  Carbon.Neutral@gov.bc.ca

• Alternative tools – *B.C Best Practices Methodology for Quantifying Greenhouse Gas Emissions*
BC Climate Action Toolkit
http://toolkit.bc.ca/taking-action/Operations

CARIP Summary Reports
https://www2.gov.bc.ca/assets/gov/british-columbians-our-governments/local-governments/planning-land-use/carip_2017_summary.pdf
Balance/Offset Emissions

Option 1 Projects
1. Energy efficient building retrofits/ fuel switching
2. Solar hot water
3. Household organic waste composting
4. Low emission vehicles
5. Avoided forest conversion
6. Trenchless technology (NEW)

https://www.toolkit.bc.ca/sites/default/files/GCC_Process_for_New_Option_1_Project_Ideas_0.pdf

Becoming Carbon Neutral: Guidebook for B.C. Local Governments: http://toolkit.bc.ca/cnlg
Survey – Reporting on Progress Toward Carbon Neutrality

A – Total Corporate GHG Emissions

B – Reductions from Option 1 Projects such as:
  – Energy Efficient Retrofits
  – Solar Thermal
  – Household Organic Waste Composting
  – Low Emission Vehicles
  – Avoided Forest Conversion
  – Trenchless Technology (NEW)

C – Reductions from Option 2 Projects

D – Offsets purchased

\[96. \text{ Corporate GHG Emissions balance for 2018 } = (A - (B+C+D)) = tCO2e\]

E – Emissions reductions eligible for carry over to next year
Level 1: Demonstrating Progress on Charter Commitments

Level 2: Measuring GHG Emissions
- Measure GHG emissions
- Demonstrate familiarity with energy emissions inventory

Level 3: Accelerating Progress on Charter Commitments
- Measure GHG emissions
- Demonstrate significant action to reduce GHGs (i.e. GHG Option 1 or 2 reduction project, offsets, reserve fund)

Level 4: Achievement of Carbon Neutrality
57% are starting or operating a District Energy or Renewable Energy system

43% of large communities have TDM

50% have climate reserve funds to support climate actions

37% have urban forest policies, plans or programs

53% have organics collections programs

66% have policies, plans or programs to support local food production

88% have water conservation plans or policies

45 local governments reported being carbon neutral in 2016

The statistics above are taken from the CARIP 2016 survey submitted by 98% (187 of 190) of BC local governments.
QUESTIONS?
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