

#150

**COMPLETE**

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## Page 2: LOCAL GOVERNMENT INFORMATION

**Q1 Name of Local Government** **Fort St. Johns, City of**

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**Q2 Name of member Regional District** **Peace River**

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**Q3 Regional Growth Strategy (RGS) in your region** **No**

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**Q4 Population** **10,000 - 49,999**

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**Q5 Submitted by:**

**Name** **Shirley Collington**  
**Position** **Director of Finance**  
**Email Address** **scollington@fortstjohn.ca**  
**Phone Number** **250 787 8150**

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## Page 3: BROAD PLANNING ACTIONS

**Q6 2017 Community-Wide Broad Planning Actions**

1. **Annual Christmas Tree pickup & recycling. On behalf of City, local non-profits collect X-mas trees from residents for chipping, City then recycles for compost.**
  2. **Northern Environment Action Team (NEAT) Yard Waste Collection – 5 x yr. Residents can drop yard waste at city facility, materials are then recycled for compost.**
  3. **Live it Green initiatives; a month long awareness campaign on waste reduction, food security, and more**
  4. **Creation of Vacant No More; a strategic action plan to address vacant and brownfield sites in the downtown**
  5. **Continued promotion and monitoring of City owned certified Passive House**
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**Q7 Additional 2017 Community-Wide Broad Planning (Optional - separate each reported action with a "\")**

Continued communication and education of city-wide recycling collection program./  
Current OCP Bylaw #2076, 2011 has GHG policies for the City; Section 8.1 Air, objectives (page 42-43). This includes: GHG reduction targets, infill policies, identification of CEEP, promote alternative modes of transportation (as supported through the 2015 TMP), promote: energy efficient practices in municipal operations and facilities, energy efficient design and construction, regional energy conservation, densification plans for downtown (supported through the 2015 Downtown Action Plan)./Finalization of the downtown action plan to revitalize downtown addressing densification and downtown living leading to reduced vehicle need and increased walkability

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**Q8 Community-Wide Broad Planning - Actions Proposed for 2018**

1. **Continue with annual Christmas Tree pickup & recycling.**
  2. **Continue with annual Northern Environment Action Team NEAT Yard Waste Collection – 5 x yr.**
  3. **Develop an industrial land strategy; include plans to address clustering, waste product reuse, food security, energy creation, and shared servicing**
  4. **Promote passive house building including future RCMP Building and BC Hydro / BC Housing Multi-family complex**
  5. **Align strategies and plans with UN - Sustainable development goals where appropriate**
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**Q9** 2017 Corporate Broad Planning Actions

1. **Development of move up here recruitment program**
2. **Creation of the 5-year Strategic Plan aligning with the UN Sustainable Development goals**
3. **The City has reinstated our membership with ICLEI Canada. ICLEI Canada is an association of local governments with a mission to build and serve a worldwide movement of local and regional governments that are committed to achieving tangible improvements in environmental sustainability.**
4. **Update to OCP Bylaw to update the GHG targets and policies, incorporate the TMP and Downtown Action Plan, update to other applicable policies on density and land use. Targeted adoption of bylaw in 2018.**

**Q10** Additional 2017 Corporate Broad Planning Actions(Optional - separate each reported action with a "\")

**Respondent skipped this question**

**Q11** Corporate Broad Planning - Actions Proposed for 2018

1. **OCP Bylaw # 2076, 2011, Section 8.1 Air, objective 1: To achieve the city-wide greenhouse gas reduction targets of 1% below 2007 levels by 2020; 6.5% below 2007 levels by 2025; and 12% below 2007 levels by 2030. In 2017 the OCP was reviewed and in 2018 a new OCP will be adopted reflecting the city's commitments to a 33% reduction from the 2007 levels by 2020 and an 80% reduction by 2050.**

**Q12** What is(are) your current GHG reduction target(s)?

1990.4

**Q13** Are you familiar with your community's community energy and emissions inventory (e.g. CEEI or another inventory)?

**Yes**

**Q14** What plans, policies or guidelines govern the implementation of climate mitigation in your community?

**Community Energy and Emissions Plan** ,  
**Official Community Plan (OCP)**

**Q15** Does your local government have a corporate GHG reduction plan? **No**

Page 4: BUILDING AND LIGHTING ACTIONS

**Q16** 2017 Community-Wide Building and Lighting Actions **Respondent skipped this question**

**Q17** Additional Community-Wide Building and Lighting Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

**Q18** Community-Wide Building and Lighting - Actions Proposed for 2018 **Respondent skipped this question**

**Q19** 2017 Corporate Building and Lighting Actions

- |    |   |
|----|---|
| 1. | <b>Changed lighting in the North Peace Arena to LED from florescent tube lighting</b> |
| 2. | <b>Replaced 50 High Pressure Sodium Street Lights with more efficient LED lights</b>  |

**Q20** Additional 2017 Corporate Building and Lighting Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

**Q21** Corporate Building and Lighting - Actions Proposed for 2018

- |    |  |
|----|--|
| 1. | <b>Going to change lighting in the Kids Arena Fieldhouse to LED from Metal Halide and florescent tube lighting</b> |
| 2. | <b>The City will continue with the streetlight replacement program as funding and time allows.</b>                 |

**Q22** Is your local government aware of the BC Energy Step Code? **Yes**

**Q23** Is your local government planning on implementing the BC Energy Step Code? **Yes**

Page 5: ENERGY GENERATION ACTIONS

**Q24** 2017 Community-Wide Energy Generation Actions **Respondent skipped this question**

2017 CARIP Climate Action/Carbon Neutral Progress Survey

**Q25** Additional 2017 Community-Wide Energy Generation Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

**Q26** Community-Wide Energy Generation - Actions Proposed for 2018

Respondent skipped this question

**Q27** 2017 Corporate Energy Generation Actions

1.

Continued to use and maintain the solar panels mounted at City Hall

2.

A 100kW micro-hydro generating station on our South Lagoon Treated Sewage outfall line continued to generate electricity offsetting our needs

**Q28** Additional 2017 Corporate Energy Generation Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

**Q29** Corporate Energy Generation - Actions Proposed for 2018

1.

The City will continue to use and maintain solar panels mounted at City Hall

2.

The City will continue to maintain and operate the 100kW micro-hydro generating station on our South Lagoon Treated Sewage outfall line.

3.

Research and feasibility study will be performed to determine if a second Micro-Hydro Generation Unit could be installed on the same outfall.

**Q30** Is your local government developing or constructing...

None of the above

**Q31** Is your local government operating...

A renewable energy system

**Q32** Is your local government connected to a district energy system that is operated by another energy provider?

No

**Q33** Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit? Yes

**Q34** Are you familiar with the 2017 "List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments"? **Yes**

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Page 6: GREENSPACE/NATURAL RESOURCE PROTECTION ACTIONS

**Q35** 2017 Community-Wide Greenspace Actions

1. **The City of Fort St. John is coordinated a "Pitch-In" Week May 21 – May 27, 2017 as part of the spring clean-up and beautification efforts for the community. During this week, hundreds of community-minded volunteers will have the opportunity to come together to show their community pride and pick up the garbage and debris left behind from winter, around our schools, city parks and open spaces.**
  2. **In 2016 Parks and Recreation Master Plan was endorsed by Council which identified future park needs.**
  3. **Ongoing discussion & meetings with School District on school sites. Include City activities to support the development of a new school, i.e. re-zone, subdivision.**
  4. **The City of Fort St John has continued its tree rebate program whereby a residential property owner can receive a credit on their utility bill by sending the receipt for a tree planted on their property. In 2017, 203 trees were planted using this program.**
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**Q36** Does your local government have policies, plans or programs to support local food production? **Yes**

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**Q37** Additional 2017 Community-Wide Greenspace Actions (Optional - separate each reported action with a "\") **Respondent skipped this question**

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**Q38** Community-Wide Greenspace - Actions Proposed for 2018

1. **The City of Fort St. John will continue to host & coordinate our annual "Pitch-In" Week in May of 2018**
  2. **The tree rebate program will continue annually to encourage the development of the tree canopy in the City of Fort St John.**
-

**Q39** 2017 Corporate Greenspace Actions

1. Update to OCP Bylaw to update incorporate the Parks & Recreation Master Plan, update to other applicable policies on parks, urban agriculture, urban greenspaces, riparian areas. Targeted adoption of bylaw in 2018.
  2. Planted 25 trees
- 

**Q40** Additional 2017 Corporate Greenspace Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

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**Q41** Corporate Greenspace - Actions Proposed for 2018

1. Planning to plant 50 trees
- 

**Q42** Does your local government have urban forest policies, plans or programs?

No

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Page 7: SOLID WASTE ACTIONS

**Q43** 2017 Community-Wide Solid Waste Actions

1. 2017 OCP annual report, data for waste diversion and recycling: OCP section 8.2 objective "Implement a 35% diversion of solid waste transported from within Fort St. John to the land fill." 21.6% waste diverted from landfill in 2017, 874.8 tonnes of recycling.
  2. Yard waste "Drop off Days"
  3. Continued with the curbside recycling program and continued to educate the public on the do's and don'ts of recycling.
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**Q44** Additional 2017 Community-Wide Solid Waste Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

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**Q45** Community-Wide Solid Waste - Actions Proposed for 2018

1. Increasing Yard waste drop off days
  2. Continue with the curbside recycling program and continue to educate the public on the do's and don'ts of recycling.
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**Q46** 2017 Corporate Solid Waste Actions

1. **Adding more recycling containers at Recreation Facilities and special events**

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**Q47** Additional 2017 Corporate Solid Waste Actions (Optional - separate each reported action with a "\")

**Respondent skipped this question**

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**Q48** Corporate Solid Waste - Actions Proposed for 2018

1. **Adding more recycling containers at City Facilities**

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**Q49** Does your local government have construction and demolition waste reduction policies, plans or programs? **No**

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**Q50** Does your local government have organics reduction/diversion policies, plans or programs? **No**

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Page 8: TRANSPORTATION ACTIONS

**Q51** 2017 Community-Wide Transportation Actions

**Respondent skipped this question**

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**Q52** Additional 2017 Community-Wide Transportation Actions (Optional - separate each reported action with a "\")

**Respondent skipped this question**

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**Q53** Community-Wide Transportation- Actions Proposed for 2018

1. **Public Transit routes are scheduled to be reviewed and adjusted to better suit our ever expanding city.**

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**Q54** 2017 Corporate Transportation Actions

1. **The City of Fort St John Fire Department put into service a new 2017 Smeal fire apparatus which is equipped with a feature called "Green Power". It is a three cylinder auxiliary power unit which takes over the main engine power function when parked at a scene for more than 5 minutes where the fire pump has not been engaged. It shuts down the main truck engine and this unit runs all the emergency equipment lighting equipment, radios and internal functions of the truck.**
  2. **The fire department also replaced the gasoline powered positive pressure ventilation fans we use at structure fires with battery powered fans serving the same purpose.**
  3. **The fire department replaced an old set of gasoline powered "Jaws of Life" with a battery powered unit set of tools. These batteries charge when the truck is running at a scene or when it is plugged in back at the station.**
  4. **Update to OCP Bylaw to incorporate the TMP and Downtown Action Plan, update to other applicable policies on multi-modal options, re-classification of road network to support efficient modes, walking/cycling paths. Targeted adoption of bylaw in 2018.**
  5. **2017 OCP annual report, data for bus ridership: OCP section 13 objective: "Increase transit ridership by 50%." Target=193,801 riders; 2017=130,400 riders.**
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**Q55** Additional 2017 Corporate Transportation Actions (Optional - separate each reported action with a "\")

Added a new trail(West bypass Trail) / Clear trails in the winter so people can use them

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**Q56** Corporate Transportation - Actions Proposed for 2018

1. **The Fire Department will continue to investigated the functionality and use of such equipment on future apparatus purchases.**
  2. **Developing a new trail**
  3. **The City will continue to invest in equipment with advance emissions controls for its fleet vehicles.**
-

**Q57** Does your local government have policies, plans or programs to support:

**Walking,**  
**Cycling,**  
**Transit,**  
**Electric Vehicles**

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**Q58** Does your local government have a Transportation Demand Management (TDM) strategy? (e.g. to reduce single-vehicle occupancy trips, increase travel options, provide incentives to encourage individuals to modify travel behavior)

**Yes**

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**Q59** Does your local government integrate its transportation and land use planning?

**Yes**

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Page 9: WATER AND WASTEWATER

**Q60** 2017 Community-Wide Water and Wastewater Actions

1. **Continued with scheduled increases to metered water and sewer rates for the City of Fort St. John allowing for full cost recovery over a ten year period. We are currently in year five of a 10 year program. This also has had the effect of making people more aware of their water usage and conservation.**

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**Q61** Additional 2017 Community-Wide Water and Wastewater Actions (Optional - separate each reported action with a "\")

**Respondent skipped this question**

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**Q62** Community-Wide Water and Wastewater - Actions Proposed for 2018

1. **The City plans to continue with the ten year plan of scheduled rate increases to allow for full cost recovery for water and wastewater.**

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**Q63** 2017 Corporate Water and Wastewater Actions

1. "Rainwater Harvesting" as a water conservation method at the Pomeroy Sport Centre facility. At construction (2008/09), the City installed holding tanks in two spots under the parking lot of the Pomeroy Sport Centre to hold the rainwater collected and channelled off the massive structure's rooftop. This water is then be pumped from the tanks and used in the facility's landscaping needs and irrigation of the site.
2. Update to OCP Bylaw to update applicable policies. Targeted adoption of bylaw in 2018.
3. Continue with our leak detection and repair program using our recently acquired ultrasonic leak detector.
4. The city started the upgrading our sewage treatment facility with an instream screening plant to make our lagoons more efficient.
5. Recycled 1.5 million litres of backwash effluent water from the water treatment plant. Water is used in city street sweepers, flush trucks and for watering planters and flower baskets.

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**Q64** Additional 2017 Corporate Water and Wastewater Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

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**Q65** Corporate Water and Wastewater - Actions Proposed for 2018

1. Continue "Rainwater Harvesting" program as a water conservation method at the Pomeroy Sport Centre facility.
2. 2017 OCP annual report, data for water consumption: OCP section 8 objective: "Reduce city-wide water consumption by 25% from 2009 levels." 2017 annual rate =2.1 million cubic litres.
3. Continue with our leak detection and repair program.
4. The City will also be installing a water recovery facility at our lagoons for the sale and distribution of reclaimed water.
5. The City will continue to re-use and explore new opportunities to use backwash effluent from the Water Treatment Plant.

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**Q66** Does your local government have water conservation policies, plans or programs?

Yes

Page 10: CLIMATE CHANGE ADAPTATION ACTIONS

**Q67** Is your local government concerned about any of the following impacts from a changing climate? (Please check top three)

- Warmer winter temperatures reducing snowpack** ,
- Increased temperatures increasing wildlife activity** ,
- Extreme weather events contributing to urban and overland flooding**

**Q68** In the last year has your local government addressed the impacts of a changing climate using any of the following?

- Risk and Vulnerability Assessments** ,
- Risk and Reduction Strategies** ,
- Emergency response planning** ,
- Infrastructure upgrades (e.g. stormwater system upgrades)** ,
- Economic diversification initiatives** ,
- Strategic and financial planning** ,
- Cross-department working groups, OCP policy changes**

**Q69** Climate Change Adaptation Actions Taken in 2017 Please elaborate on (as identified above or add new) key actions and/or partnerships your local government has engaged in to prepare for, and adapt to changing climate. Add links to key documents and information where appropriate.

1. **Lower emission "warm mix" asphalt is allowed over traditional "hot mix" asphalt. This results in a 20-35% reduction in energy consumption.**
2. **Asphalt removed through road construction and development is stockpiled and recycled. It is then used in the City's routine patching program offsetting the amount of new aggregate and oils that are required. This action also reduces the amount of material delivered to the regional landfill.**

**Q70** Climate Change Adaptation - Actions Proposed for 2018

1. **Continue to allow warm mix asphalt to be used within the City limits.**
  2. **Continue to encourage the recycling of asphalt.**
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**Q71** For more information please contact:

**Respondent skipped this question**

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**Q72** The following are key resources that may be helpful to your local government in identifying climate impacts, as well as, strategies, actions and funding to deal with them. Are you familiar with any of these adaptation resources?

- Indicators of Climate Change for British Columbia, 2016**
  - Preparing for Climate Change: Implementation Guide**
  - National Disaster Mitigation Program (NDMP)**
  - Community Emergency Preparedness Fund (CEPF)**
  - Municipalities for Climate Innovation Program (MCIP)**
  - Climate Adaptation Partner Grants (FCM),**
  - Infrastructure Planning Grants (MAH)**
  - Federal Gas Tax Fund**
-

## 2017 CARIP Climate Action/Carbon Neutral Progress Survey

**Q73** The following are key resources that may be helpful to your local government in identifying climate impacts, as well as, strategies, actions and funding to deal with them. For those resources that you have used, please indicate whether they were useful in advancing your work in climate change adaptation.

Indicators of Climate Change for British Columbia, 2016	<b>Haven't Used</b>
Plan2Adapt	<b>Haven't Used</b>
Climate Projections for Metro Vancouver	<b>Haven't Used</b>
Climate Projections for the Capital Region	<b>Haven't Used</b>
Climate Projections for the Cowichan Valley Regional District	<b>Haven't Used</b>
Provinces of BC's BC Adapts Video Series	<b>Haven't Used</b>
Preparing for Climate Change: An Implementation Guide for Local Governments	<b>Haven't Used</b>
The Public Infrastructure and Engineering Vulnerability Committee's (PIEVC) protocol	<b>Haven't Used</b>
Sea Level Rise Primer	<b>Haven't Used</b>
BC Regional Adaptation Collaborative Webinars	<b>Haven't Used</b>
www.ReTooling.ca	<b>Haven't Used</b>
Water Balance Model	<b>Haven't Used</b>
Water Conservation Calculator	<b>Haven't Used</b>
National Disaster Mitigation Program (NDMP)	<b>Haven't Used</b>
Community Emergency Preparedness Fund (CEPF)	<b>Haven't Used</b>
Municipalities for Climate Innovation Program (MCIP)	<b>Useful</b>
Climate Adaptation Partner Grants (FCM)	<b>Useful</b>
Infrastructure Planning Grants (MAH)	<b>Useful</b>
Federal Gas Tax Fund	<b>Useful</b>

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### Page 11: OTHER CLIMATE ACTIONS

**Q74** 2017 Community-Wide Other Actions

Respondent skipped this question

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**Q75** 2016 Corporate Other Actions

1. **Warm mix asphalt was used on most road projects for a reduction of 40 - 54 tCO<sub>2</sub>e. Almost 10,000 tonnes of warm mix asphalt was placed in the city in 2017 with a reduction of 4.1-5.5 Kg GHG emissions per tonne.**
2. **The City will continue to re-use and explore new opportunities to use backwash effluent from the Water Treatment Plant.**
3. **To continue to allow contractors bidding on capital programs to use warm mix asphalt as an option for all paving projects.**

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**Q76** Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)? **Yes**

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**Q77** Have you used the CLIC? **Yes**

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Page 12: INNOVATION AND PEER LEARNING

**Q78** Community - Wide Innovation

The City created a showcase Passive House that included many green/energy saving initiatives that builders in the north have not had exposure to. There are tours of the building available on a request basis and information on the building is available on the City's website at: <http://www.fortstjohn.ca/passive-house-project>.

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**Q79** Corporate Innovation

The city completed a Micro-hydro project in 2015 and is looking at adding another turbine within the flow stream.

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**Q80** For more information on actions described above contact:

Moira Green 250 787 8150

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**Q81** Mitigation Programs, Partnerships and Funding

BC Bike Grant

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**Q82** Adaptation Programs, Partnerships and Funding **Respondent skipped this question**

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Page 13: 2016 CARBON NEUTRAL REPORTING

**Q83** Did you measure your local government's corporate GHG emissions in 2017? **Yes**

**Q84** If your local government measured 2017 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) Please note that as a result of the BC Recycling Regulation, 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, in their annual CARIP reports.

3539.26

**Q85** If your local government measured 2017 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent):

609.12

**Q86** Total A: Corporate GHG emissions for 2017 (Direct GHGs + Contracted GHGs)

4148.38

Page 14: REPORTING REDUCTIONS AND OFFSETS

**Q87** Energy Efficient Retrofits(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

**Q88** Solar Thermal(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

**Q89** Household Organic Waste Composting(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

**Q90** Low Emission Vehicles(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

**Q91** Avoided Forest Conversion(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

**Q92** Total B: Reductions from all Option 1 Projects for 2017 **Respondent skipped this question**



2017 CARIP Climate Action/Carbon Neutral Progress Survey

**Q93** If applicable, please report the names and 2017 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)) being claimed from Option 2 GHG Reduction Projects:

Option 2 Project Name	<b>Warm Mix Asphalt</b>
Option 2 GHGs Reduced (tCO <sub>2</sub> e)	<b>47</b>
Option 2 Project Name	<b>Solar PAnels</b>
Option 2 GHGs Reduced (tCO <sub>2</sub> e)	<b>0.1</b>

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**Q94** Total C: Reductions from all Option 2 Projects for 2017

47.1

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**Q95** If applicable, please report the name of offset provider, type of project and the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e)) from an offset provider for the 2017 reporting year. Note: Please do not include funds set aside in a climate action reserve fund.

**Respondent skipped this question**

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**Q96** Total D: Offsets purchased for 2017

**Respondent skipped this question**

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**Q97** TOTAL REDUCTIONS AND OFFSETS FOR 2017 (Total B+C+D)

47.1

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**Q98** Corporate GHG Emissions balance for 2017 = (A- (B+C+D) =

4101.3

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**Q99** If applicable, 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, 2017 100 tCO<sub>2</sub>e).

**Respondent skipped this question**

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**Q100** Balance of reductions eligible for carry over to the next year (tCO<sub>2</sub>e)(total of emissions reductions identified above)

**Respondent skipped this question**

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**Q101** Does your local government set aside funds in a climate reserve fund or something similar?

**No**

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**Q102** Based on your local government's 2017 Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

**Level 2 - Measuring GHG Emissions**

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**Q103** 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.

**Respondent skipped this question**

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