

#160

COMPLETE

Collector: Email Invitation 1 (Email)
Started: Friday, May 24, 2019 10:19:52 AM
Last Modified: Tuesday, June 04, 2019 9:40:26 AM
Time Spent: Over a week
Email: jstewart@fortstjohn.ca
IP Address: 207.102.80.228

Page 2: LOCAL GOVERNMENT INFORMATION

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

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

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

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

Q5 Submitted by

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

Page 3: BROAD PLANNING ACTIONS

Q6 Community-Wide Broad Planning Actions Taken in 2018

1. **Advancing the Vacant No More Strategic Action Plan to address vacant and brownfield sites including contacting and building relationships with vacant property owners in order to share community master plans and encourage remediation and development or interim uses on the properties.**
-

Q7 Additional Community-Wide Broad Planning Actions Taken in 2018 (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q8 Community-Wide Broad Planning Actions Proposed for 2019

1. **Work has commenced on an industrial land strategy which includes plans to address clustering, waste product reuse, food security, energy creation and shared servicing. This strategy will be completed in 2019.**
 2. **Align strategies and plans with UN – Sustainable Development Goals where appropriate.**
 3. **Staff will continue to implement strategies outlined in the Vacant No More Strategic Action Plan.**
 4. **Development of a Food Security/Urban Agriculture Plan**
 5. **Working closely with First Nations on Urban Servicing Framework for First Nations owned lands within the municipality (both as fee simple and potential Additions to Reserve)**
-

Q9 Corporate Broad Planning Actions Taken in 2018

1. **The City has reduced the number of physical computer servers by half through server virtualization, resulting in a 50% reduction in Hydro savings.**
 2. **Continued membership with ICLEI Canada**
 3. **Update of 5 year Strategic Plan aligning with UN Sustainable Development Goals**
-

Q10 Additional Corporate Broad Planning Actions Taken in 2018 (Optional - separate each reported action with a "\")

Respondent skipped this question

Q11 Corporate Broad Planning Actions Proposed for 2019

1. **The analyzation of the City's computer network will continue to see if there are any other suitable candidates for virtualization.**
 2. **Development of a Strategic Land Assembly Acquisition and Disposition Framework to guide land based decisions.**
 3. **100 Street Charrette – intensive community wide design workshop to develop a vision for 100 Street to enhance our downtown public realm while functioning well for all forms for transportation and including winter city considerations.**
 4. **Development of a 3 year Energy Literacy Plan**
-

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

1925

Q13 Are you familiar with your local government'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

Q15 Does your local government have a corporate GHG reduction plan?

No

Page 4: BUILDING AND LIGHTING ACTIONS

Q16 Community-Wide Building and Lighting Actions Taken in 2018

1. **The City initiated a Christmas tree lighting exchange program – in partnership with a locally owned business and a local environmental agency, old lights could be exchanged for new energy efficient Christmas tree lights at a reduced cost to the consumer.**
2. **Winter Cities initiatives encouraged the downtown business community to run a light-up campaign to invite the public to continue outdoor activities during the winter months. Educated the business community on how to do this using energy efficient lighting.**
3. **Promotion of the City's certified Passive House including tours for the public, schools and on request. Staff also spearheaded tours of the BC Hydro/BC Housing 50 unit Passive Apartment building recently completed in the community.**

Q17 Additional Community-Wide Building and Lighting Actions Taken in 2018(Optional - separate each reported action with a "\")

Respondent skipped this question

Q18 Community-Wide Building and Lighting Actions Proposed for 2019

1. Continue the Christmas tree light exchange.
 2. Continue the Winter Cities light up campaign.
 3. Promotion of the City owned Passive House is ongoing and will include future RCMP Building and the BC Hydro/BC Housing 50 Unit Passive Apartment building as educational and awareness opportunities.
-

Q19 Corporate Building and Lighting Actions Taken in 2018

1. The City change the lights over Curling Club ice surface from t-12 florescent tubes to Energy Efficient LEDs.
 2. The City change out old inefficient de-hi unit for a new variable speed one.
 3. The City added LED lighting to City hall changing out t-12 florescent tubes
 4. Replaced 200 High Pressure Sodium Street Lights with more efficient LED lights
-

Q20 Additional Corporate Building and Lighting Actions Taken in 2018 (Optional - separate each reported action with a "\")

Respondent skipped this question

Q21 Corporate Building and Lighting Actions Proposed for 2019

1. Kids Arena Fieldhouse lighting over the playing surface is being change from very old metal halide to LED.
 2. The balance of the occupied space in the Curling Club plus the Hall is being changed to LED from t-12 florescent lights
 3. Three 30 horsepower pumps are being changed at the pool to variable speed high efficiency ones
 4. The City will continue with the streetlight replacement program as funding and time allows.
-

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

2018 CARIP Climate Action/Carbon Neutral Progress Survey

Q24 Community-Wide Energy Generation Actions Taken in 2018 **Respondent skipped this question**

Q25 Additional Community-Wide Energy Generation Actions Taken in 2018(Optional - separate each reported action with a "\") **Respondent skipped this question**

Q26 Community-Wide Energy Generation Actions Proposed for 2019 **Respondent skipped this question**

Q27 Corporate Energy Generation Actions Taken in 2018

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**
 3. **The City has installed and operated various solar powered technologies around the city including some pedestrian crosswalks, two City Welcome signs, and a remote sewer flow monitoring data transmitter.**
-

Q28 Additional Corporate Energy Generation Actions Taken in 2018 (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q29 Corporate Energy Generation Actions Proposed for 2019

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.**
-

Q30 Is your local government developing or constructing a **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 familiar with the 2018 List of Funding Opportunities for Clean Energy Projects Led by First Nations and Local Governments? **Yes**

Page 6: GREENSPACE/NATURAL RESOURCE PROTECTION ACTIONS

Q34 Community-Wide Greenspace Actions Taken in 2018

1. **The last week of May the City partnered with Pitch-in Canada to coordinate a community wide clean-up and beautification weeklong event. Numerous corporations, non-profit organizations and local businesses work together to pick up winter debris and litter left on the road sides, gardens, schools, playgrounds, trails and parks.**
 2. **Tree rebate program – the City offers a rebate program to residential property owners who plant trees on their property – this beautifies and contributes to greenhouse gas reduction by increasing the tree canopy. 208 trees were planted in 2018.**
-

Q35 Does your local government have policies, plans or programs to support local food production? **Yes**

Q36 Additional Community-Wide Greenspace Actions Taken in 2018 (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q37 Community-Wide Greenspace Actions Proposed for 2019

1. **Pitch-in week in May 2019**
 2. **Community food security committee established to review community gardens and determine next steps on food security for the Community.**
-

Q38 Corporate Greenspace Actions Taken in 2018

- | | |
|----|--|
| 1. | The City planted 50 trees in the City's greenspaces. |
| 2. | The City will develop two shelf ready park plans to update Kin Park and Surerus Park in 2019. |
| 3. | Redevelopment of part of Centennial Park – the City's signature parks space |
| 4. | Redevelopment of Toboggan Hill Park with the expansion of the dog park, washroom space added as well as connective trails and lighting. |
| 5. | Installation of an outdoor Croki-curl facility. |
-

Q39 Additional Corporate Greenspace Actions Taken in 2018 (Optional - separate each reported action with a "\")

Respondent skipped this question

Q40 Corporate Greenspace Actions Proposed for 2019

- | | |
|----|--|
| 1. | The City is undertaking an Urban Forestry Study and will be planting trees in green space depending on the study. |
| 2. | Centennial Park redevelopment to be completed. |
| 3. | Toboggan Hill Park to be completed |
| 4. | To develop an Urban Forest strategy and policy. |
-

Q41 Does your local government have urban forest policies, plans or programs?

No

Q42 Community-Wide Solid Waste Actions Taken in 2018

1. Continued with the curbside recycling program and continued to educate the public on the do's and don'ts of recycling.
2. The City partners with a local environmental agency to host a monthly yard waste compost campaign. Bins are set up at the local recreation complex where people can drop off yard waste and debris to be composted. The program occurs monthly from May – October.
3. Live It Green month – community education campaign to promote green initiatives for waste reduction, food security, and constructing buildings to a passive house standard.
4. Annual Christmas tree mulch – the community was invited to drop off their Christmas trees. The City mulches them and then uses the mulch in parks and gardens around the City.

Q43 Additional Community-Wide Solid Waste Actions Taken in 2018(Optional - separate each reported action with a "\")

Respondent skipped this question

Q44 Community-Wide Solid Waste Actions Proposed for 2019

1. Continue with the curbside recycling program and continue to educate the public on the do's and don'ts of recycling.
2. Yard Waste Reduction Summer/Fall 2019
3. Christmas Tree Mulch
4. Live It Green month October 2019

Q45 Corporate Solid Waste Actions Taken in 2018

1. Recycled 1020 tonnes of asphalt into usable road repair material and diverted from landfills.

Q46 Additional Corporate Solid Waste Actions Taken in 2018 (Optional - separate each reported action with a "\")

Respondent skipped this question

Q47 Corporate Solid Waste Actions Proposed for 2019

1. The City will continue to recycle asphalt into usable road repair material and diverted from landfills.

Q48 Does your local government have construction and demolition waste reduction policies, plans or programs? **No**

Q49 Does your local government have organics reduction/diversion policies, plans or programs? **No**

Page 8: TRANSPORTATION ACTIONS

Q50 Community-Wide Transportation Actions Taken in 2018 **Respondent skipped this question**

Q51 Additional Community-Wide Transportation Actions Taken in 2018 (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q52 Community-Wide Transportation Actions Proposed for 2019 **Respondent skipped this question**

Q53 Corporate Transportation Actions Taken in 2018

- | | |
|----|---|
| 1. | The City replaced two old 1970's motor with no emission controls with 2 new snow blowers with T4 energy efficient engines. |
| 2. | The City added 4.8 kms of multi-use trails. |

Q54 Additional Corporate Transportation Actions Taken in 2018 (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q55 Corporate Transportation - Actions Proposed for 2019

- | | |
|----|--|
| 1. | All new heavy equipment will come standard with T4 engine emission controls or higher |
| 2. | The City will be adding 1.5 kms of multi-use trails. |

Q56 Does your local government have policies, plans or programs to support: **Walking,**
Cycling,
Transit Use,
Electric Vehicle Use

Q57 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**

Q58 Does your local government integrate its transportation and land use planning? **Yes**

Page 9: WATER AND WASTEWATER ACTIONS

Q59 Community-Wide Water and Wastewater Actions Taken in 2018

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.**

Q60 Additional Community-Wide Water and Wastewater Actions Taken in 2018(Optional - separate each reported action with a "\") **Respondent skipped this question**

Q61 Community-Wide Water and Wastewater Actions Proposed for 2019

1. **The City will be completing the construction of Waste water recovery facility which will allow for the industrial use of treated effluent, and reducing the demands on the City's potable water supply and treatment facility.**

Q62 Corporate Water and Wastewater Actions Taken in 2018

1. **Recycled 1.4 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.**
2. **In 2018 the City completed the construction of a sewage screening system and collected 2000 kg of non-organics from the sewer and diverted to landfill.**
-

Q63 Additional Corporate Water and Wastewater Actions Taken in 2018 (Optional - separate each reported action with a "\") **Respondent skipped this question**

Q64 Corporate Water and Wastewater Actions Proposed for 2019

1. **The City will continue to actively detect and repair leaks within the City's water distribution infrastructure.**
 2. **The City will actively pursue water account holders that have abnormally high consumption.**
 3. **Continue to explore ways to re-use backwash from the Water Treatment Plant.**
-

Q65 Does your local government have water conservation policies, plans or programs? **Yes**

Page 10: CLIMATE CHANGE ADAPTATION ACTIONS

Q66 Please identify the THREE climate impacts that are most relevant to your Local Government

Warmer winter temperatures reducing snowpack ,

Increased temperatures increasing wildfire activity ,

Extreme weather events contributing to urban and overland flooding

Q67 In 2018 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,**
- Official Community Plan Policy Changes** ,
- Changes to Zoning and other Bylaws and Regulations** ,
- Public Education and Awareness** ,
- Research,**
- Mapping,**
- Asset Management**

Q68 Climate Change Adaptation Actions Taken in 2018 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.**

Q69 Climate Change Adaptation Actions Proposed for 2019

1. **Continue to allow warm mix asphalt to be used within the City limits.**
2. **Continue to encourage the recycling of asphalt.**

Q70 For more information please contact

Jim Stewart - 250 787 8150
 jstewart@fortstjohn.ca

Q71 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	Haven't Used
Plan2Adapt	Haven't Used
Climate Projections for Metro Vancouver	Haven't Used
Climate Projections for the Capital Region	Haven't Used
Climate Projections for the Cowichan Valley Regional District	Haven't Used
Provinces of BC's BC Adapts Video Series	Haven't Used
Preparing for Climate Change: Implementation Guide for Local Governments	Haven't Used
Public Infrastructure Engineering Vulnerability Committee (PIEVC)	Haven't Used
Sea Level Rise Adaptation Primer	Haven't Used
BC Regional Adaptation Collaborative Webinars	Haven't Used
Retooling for Climate Change	Haven't Used
Water Balance Model	Haven't Used
Water Conservation Calculator	Haven't Used
National Disaster Mitigation Program (NDMP)	Haven't Used
Community Emergency Preparedness Fund (CEPF)	Haven't Used
Municipalities for Climate Innovation Program (MCIP)	Useful
Climate Adaptation Partner Grants (FCM)	Useful
Infrastructure Planning Grants (MAH)	Useful
Federal Gas Tax Fund	Useful

Page 11: OTHER CLIMATE ACTIONS

Q72 Community-Wide Other Actions Taken in 2018 **Respondent skipped this question**

Q73 Corporate Other Actions Taken in 2018

1. **Warm mix asphalt was used on most road projects for a reduction of 29 - 39 tCO₂e. A little over 7,000 tonnes of warm mix asphalt was placed in the city in 2018 with a reduction of 4.1-5.5 Kg GHG emissions per tonne.**

Q74 Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)? **Yes**

Q75 Is your local government using the CLIC tool? **Yes**

Page 12: INNOVATION AND PEER LEARNING

Q76 Community-Wide Innovation Action

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>.

Q77 Corporate Innovation Action **Respondent skipped this question**

Q78 For more information on actions described above contact

Moira Green 250 787 8150

Q79 Mitigation Programs, Partnerships and Funding **Respondent skipped this question**

Q80 Adaptation Programs, Partnerships and Funding **Respondent skipped this question**

Page 13: CARBON NEUTRAL REPORTING

Q81 Did your local government measure corporate GHG emissions for 2018? **Yes**

Q82 If your local government measured 2018 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)

3792

Q83 If your local government measured 2018 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent)

320

Q84 Total A: Corporate GHG emissions for 2018 (Direct GHGs + Contracted GHGs)

4112

Page 14: REPORTING REDUCTIONS AND OFFSETS

Q85 Energy Efficient Retrofits(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q86 Solar Thermal(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q87 Household Organic Waste Composting(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q88 Low Emission Vehicles(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q89 Avoided Forest Conversion(in tonnes of carbon dioxide equivalent (tCO2e)) **Respondent skipped this question**

Q90 Total B: Reductions from all Option 1 Projects for 2018 **Respondent skipped this question**

Q91 If applicable, please report the names and 2018 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 2 GHG Reduction Projects

Option 2 Project Name **Warm Mix Asphalt**

Option 2 GHGs Reduced (tCO2e) **34**

Option 2 Project Name **Solar Panels**

Option 2 GHGs Reduced (tCO2e) **0.1**

Q92 Total C: Reductions from all Option 2 Projects for 2018

34.1

2018 CARIP Climate Action/Carbon Neutral Progress Survey

Q93 If applicable, please report the name of offset provider, type of project and number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2018 reporting year. Note: Please do not include funds that may be set aside in a climate action reserve fund.

Respondent skipped this question

Q94 Total D: Offsets purchased for 2018

Respondent skipped this question

Q95 TOTAL REDUCTIONS AND OFFSETS FOR 2018 (Total B+C+D)= tCO₂e

34.1

Q96 Corporate GHG Emissions balance for 2018 = (A- (B+C+D) = tCO₂e

4077.9

Q97 If your local government was carbon neutral in 2018, 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, 2018 100 tCO₂e)

Respondent skipped this question

Q98 Balance of reductions eligible for carry over to the next year (tCO₂e)(total of emissions reductions identified above)

Respondent skipped this question

Q99 Does your local government set aside funds in a climate reserve fund or something similar?

Yes

Page 15: GREEN COMMUNITIES CLIMATE ACTION RECOGNITION PROGRAM

Q100 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 2 - Measuring GHG Emissions

Q101 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 (e.g. project name)

Respondent skipped this question