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COMPLETE

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PAGE 2: LOCAL GOVERNMENT INFORMATION

Q1: Name of Local Government	Fort St. Johns, 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:	
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PAGE 3: BROAD PLANNING ACTIONS

Q6: 2016 Community-Wide Broad Planning Actions

1. Live it Green Campaign for the month of September focusing on: • energy conservation • water conservation • Recycling • Composting • Electric Car demonstration
2. In 2016 it was decided to retain the City's passive house until 2020 for demonstration purposes, it will now house the UNBC's Community Development Institute.
3. The City of Fort St. John has implemented a tree rebate program where a residential property owner can receive a credit on their utility bill by sending the receipt for a tree planted on their property. In 2016 206 trees were planted using this program.
4. The City in conjunction with the Northern Environment Action Team and Bert Bowes and Dr. Kearney Junior Secondary Schools developed solar demonstration projects, results of which were presented to Council and the public on May 13, 2017.
5. Parks and Recreation Master Plan was developed.

2016 CARIP Climate Action/Carbon Neutral Progress Survey

Q7: Additional 2016 Community-Wide Broad Planning (Optional - separate each reported action with a "\")

Respondent skipped this question

Q8: Community-Wide Broad Planning - Actions Proposed for 2017

- | | |
|----|---|
| 1. | Tours of the City's passive house will continue to be given in an attempt to encourage the building and development community to integrate some or all of the technology in their projects. |
| 2. | The Live it Green Campaign in the month of September will continue as an annual event. |
| 3. | The Tree rebate program will continue annually to encourage the development of the tree canopy in the City. |
| 4. | Parks and Recreation Master Plan will be implemented. |

Q9: 2016 Corporate Broad Planning Actions

Respondent skipped this question

Q10: Additional 2016 Corporate Broad Planning Actions(Optional - separate each reported action with a "\")

Respondent skipped this question

Q11: Corporate Broad Planning - Actions Proposed for 2017

Respondent skipped this question

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

2189

Q13: Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?

No

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

Official Community Plan (OCP), Do not have a plan

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

No

Q16: Does your local government set aside funds in a climate reserve fund or something similar?

Yes

PAGE 4: BUILDING AND LIGHTING ACTIONS

Q17: 2016 Community-Wide Building and Lighting Actions

- | | |
|----|--|
| 1. | In 2016 it was decided to retain the City's passive house until 2020 for demonstration purposes, it will now house the UNBC's Community Development Institute. |
|----|--|

Q18: Additional Community-Wide Building and Lighting Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

2016 CARIP Climate Action/Carbon Neutral Progress Survey

Q19: Community-Wide Building and Lighting - Actions Proposed for 2017

1. Tours of the City's passive house will continue to be given in an attempt to encourage the building and development community to integrate some or all of the technology in their projects.
2. Will be assessing and implementing an appropriate level of the BC Building Codes Step Energy Program.

Q20: 2016 Corporate Building and Lighting Actions

1. Replaced the furnace in the City Hall with a new high efficiency 350m,000 btu Furnace.
2. Council has a policy in place that all municipal buildings must be built to LEED specifications.
3. Replaced 40 High Pressure Sodium Street Lights with more efficient LED lights

Q21: Additional 2016 Corporate Building and Lighting Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

Q22: Corporate Building and Lighting - Actions Proposed for 2017

1. The City will continue with the streetlight replacement program as funding and time allows.

PAGE 5: ENERGY GENERATION ACTIONS

Q23: 2016 Community-Wide Energy Generation Actions

Respondent skipped this question

Q24: Additional 2016 Community-Wide Energy Generation Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

Q25: Community-Wide Energy Generation - Actions Proposed for 2017

Respondent skipped this question

Q26: 2016 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 was completed in 2015 and remained in service throughout 2016.

Q27: Additional 2016 Corporate Energy Generation Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

2016 CARIP Climate Action/Carbon Neutral Progress Survey

Q28: Corporate Energy Generation - Actions Proposed for 2017

- | | |
|----|--|
| 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. | The City will install interpretive signage at and the promotion of Micro Hydro project, including tours, presentations and speaking engagements. |

Q29: Is your local government developing or constructing... None of the above

Q30: Is your local government operating... A renewable energy system

Q31: Is your local government connected to a district energy system that is operated by another energy provider? No

Q32: Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit? Yes

PAGE 6: GREENSPACE/NATURAL RESOURCE PROTECTION ACTIONS

Q33: 2016 Community-Wide Greenspace Actions *Respondent skipped this question*

Q34: Additional 2016 Community-Wide Greenspace Actions (Optional - separate each reported action with a "\") *Respondent skipped this question*

Q35: Community-Wide Greenspace - Actions Proposed for 2017 *Respondent skipped this question*

Q36: 2016 Corporate Greenspace Actions *Respondent skipped this question*

Q37: Additional 2016 Corporate Greenspace Actions (Optional - separate each reported action with a "\") *Respondent skipped this question*

Q38: Corporate Greenspace - Actions Proposed for 2017 *Respondent skipped this question*

Q39: Does your local government have urban forest policies, plans or programs? No

PAGE 7: SOLID WASTE ACTIONS

Q40: 2016 Community-Wide Solid Waste Actions

- | | |
|----|--|
| 1. | Continued with the curbside recycling program and continued to educate the public on the do's and don'ts of recycling. |
|----|--|

2016 CARIP Climate Action/Carbon Neutral Progress Survey

Q41: Additional 2016 Community-Wide Solid Waste Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

Q42: Community-Wide Solid Waste - Actions Proposed for 2017

1. Continue with the curbside recycling program and continue to educate the public on the do's and don'ts of recycling.

Q43: 2016 Corporate Solid Waste Actions

1. Paper recycling bins are placed at all City office sites.

Q44: Additional 2016 Corporate Solid Waste Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

Q45: Corporate Solid Waste - Actions Proposed for 2017

Respondent skipped this question

Q46: Does your local government have construction and demolition waste reduction policies, plans or programs?

No

Q47: Does your local government have organics reduction/diversion policies, plans or programs?

No

PAGE 8: TRANSPORTATION ACTIONS

Q48: 2016 Community-Wide Transportation Actions

1. Free Monthly bus passes are available all students in full time attendance at any public or private school up to and including grade 12, the same pass is also available to full time students attending Northern Lights College or any accredited institution.

Q49: Additional 2016 Community-Wide Transportation Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

Q50: Community-Wide Transportation- Actions Proposed for 2017

1. The City will continue to offer free monthly bus passes to all students in full time attendance at any public or private school up to and including grade 12, as well as to full time students attending Northern Lights College or any accredited institution.
2. Public Transit routes are scheduled to be reviewed and adjusted to better suit our ever expanding city.

Q51: 2016 Corporate Transportation Actions

- | | |
|----|---|
| 1. | The City's Transportation Master Plan is used to direct infrastructure construction projects to include and encourage active transportation through designated corridors and paths. |
| 2. | The City specifies that all new Heavy Duty diesel fueled equipment purchased include the most advance emissions controls available including tier 4 emissions controls. |

Q52: Additional 2016 Corporate Transportation Actions (Optional - separate each reported action with a "\") *Respondent skipped this question*

Q53: Corporate Transportation - Actions Proposed for 2017

- | | |
|----|--|
| 1. | The Transportation Master Plan will be used to help guide future planning and design of both capital and private development projects. |
| 2. | The City will continue to invest in equipment with advance emissions controls for its fleet vehicles. |

Q54: Does your local government have policies, plans or programs to support: Walking, Cycling, Transit, Electric Vehicles

Q55: 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

Q56: Does your local government have policies, plans or programs to support local food production? (Thus reducing transportation emissions) Yes

PAGE 9: WATER AND WASTEWATER

Q57: 2016 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. |
|----|---|

Q58: Additional 2016 Community-Wide Water and Wastewater Actions (Optional - separate each reported action with a "\") *Respondent skipped this question*

Q59: Community-Wide Water and Wastewater - Actions Proposed for 2017

- | | |
|----|---|
| 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. |
|----|---|

2016 CARIP Climate Action/Carbon Neutral Progress Survey

Q60: 2016 Corporate Water and Wastewater Actions

1. Recycled 1.6 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. Rainwater re-use tanks used for irrigation system at our Pomeroy Sports Center.
3. Continue with our leak detection and repair program using our recently acquired ultrasonic leak detector.

Q61: Additional 2016 Corporate Water and Wastewater Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

Q62: Corporate Water and Wastewater - Actions Proposed for 2017

1. Continue with our leak detection and repair program.
2. The city will be upgrading our sewage treatment facility with an instream screening plant to make out lagoons more efficient.
3. The City will also be installing a water recovery facility at our lagoons for the sale and distribution of reclaimed water.
4. The City will continue to re-use and explore new opportunities to use backwash effluent from the Water Treatment Plant.

Q63: Does your local government have water conservation policies, plans or programs?

Yes

PAGE 10: CLIMATE CHANGE ADAPTATION ACTIONS

Q64: 2016 Climate Change Adaptation Actions

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.

Q65: Additional 2016 Climate Change Adaptation Actions (Optional - separate each reported action with a "\")

Respondent skipped this question

Q66: Climate Change Adaptation - Actions Proposed for 2017

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

2016 CARIP Climate Action/Carbon Neutral Progress Survey

Q67: Resources you have used to support climate change adaptation (e.g. Plan2Adapt, Preparing for Climate Change: Implementation Guide)

Respondent skipped this question

Q68: In 2016 did you consider climate change impacts in any of the following areas?

Risk reduction strategies, Asset management, Infrastructure upgrades (e.g. stormwater systems upgrades),
,
Emergency response planning,
Land-use policy changes (eg. OCP, DPA),
Economic diversification initiatives,
Public Education and awareness

PAGE 11: OTHER CLIMATE ACTIONS

Q69: 2016 Community-Wide Other Actions

Respondent skipped this question

Q70: 2016 Corporate Other Actions

1. Warm mix asphalt was used on most road projects for a reduction of 60 - 80 tCO₂e. Almost 17,000 tonnes of warm mix asphalt was placed in the city in 2016 with a reduction of 4.1-5.5 Kg GHG emissions per tonne.
2. A new fire engine was purchased ordered for 2017 delivery. It will come with an auxiliary power unit (APU). This APU reduces the idle time of the main engine by maintaining the operation of the key equipment when the main engine is not required for the pump operations
3. The City will continue to re-use and explore new opportunities to use backwash effluent from the Water Treatment Plant.

Q71: Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC)?

Yes

Q72: Have you used the CLIC?

No

PAGE 12: INNOVATION AND PEER LEARNING

Q73: 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>.

2016 CARIP Climate Action/Carbon Neutral Progress Survey

Q74: Corporate Innovation

The City completed a 100kW micro-hydro generating station on our South Lagoon Treated Sewage outfall line in 2015. This is tied into the BC Hydro Grid and helps offset the power needs of the City. This project has received an Award of Merit from the Association of Consulting Engineers of BC. It is also the recipient of the Canadian Association of Municipal Administrators 2017 Environment Award.

Q75: Programs, Partnerships and Funding

Respondent skipped this question

PAGE 13: 2016 CARBON NEUTRAL REPORTING

Q76: Did you measure your local government's corporate GHG emissions in 2016?

Yes

Q77: If your local government measured 2016 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):

3401.3

Q78: If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions from contracted services (in tonnes of carbon dioxide equivalent):

471.2

Q79: Total A: Corporate GHG emissions for 2016 (Direct GHGs + Contracted GHGs)

3872.5

PAGE 14: REPORTING REDUCTIONS AND OFFSETS

Q80: Energy Efficient Retrofits(in tonnes of carbon dioxide equivalent (tCO₂e))

Respondent skipped this question

Q81: Solar Thermal(in tonnes of carbon dioxide equivalent (tCO₂e))

Respondent skipped this question

Q82: Household Organic Waste Composting(in tonnes of carbon dioxide equivalent (tCO₂e))

Respondent skipped this question

Q83: Low Emission Vehicles(in tonnes of carbon dioxide equivalent (tCO₂e))

Respondent skipped this question

Q84: Avoided Forest Conversion(in tonnes of carbon dioxide equivalent (tCO₂e))

Respondent skipped this question

Q85: Total B: Reductions from all Option 1 Projects for 2016

Respondent skipped this question

2016 CARIP Climate Action/Carbon Neutral Progress Survey

Q86: If applicable, please report the names and 2016 GHG emissions reductions being claimed from Option 2 GHG Reduction Projects:

Option 2 Project Name	Warm Mix Asphalt
Option 2 GHGs Reduced (tCO ₂ e)	82
Option 2 Project Name	Solar Panels
Option 2 GHGs Reduced (tCO ₂ e)	0.1

Q87: Total C: Reductions from all Option 2 Projects for 2016 82.1

Q88: If applicable, please report the name of offset provider and the number of offsets purchased for the 2016 reporting year. Note: Please do not include funds set aside in a climate action reserve fund. *Respondent skipped this question*

Q89: Total D: Offsets purchased for 2016 *Respondent skipped this question*

Q90: TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) 82.1

Q91: Corporate GHG Emissions balance for 2016 = (A-(B+C+D)) = 3790.4

PAGE 15: RECOGNITION

Q92: Based on your local government's 2016 Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies: Level 2 - Measuring GHG Emissions

Q93: 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*