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Florenceville-Bristol Milestone 3: Climate Action Plan

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Florenceville-Bristol Milestone 3: Climate Action Plan

Town of Florenceville-Bristol

Produced on March 6th, 2020

Additional Information

Additional information about the effects of climate change can be found through the program and websites below:

- The Intergovernmental Panel on Climate Change (<https://www.ipcc.ch/>)
- United Nations Environment Program (<https://www.unenvironment.org/>)
- The David Suzuki Foundation (<https://davidsuzuki.org/>)
- Government of Canada
(<https://www.canada.ca/en/services/environment/weather/climatechange.html>)
- Natural Resources Canada Climate Impacts and Adaptation Division
(<https://www.nrcan.gc.ca/climate-change/21442>)

Executive Summary

This report meets the requirements for Milestone 3 of the Federation of Canadian Municipalities (FCM) Partners for Climate Protection (PCP). Outlined in the sections below is the baseline figures, target reduction goals and climate action plan for the Town of Florenceville-Bristol, New Brunswick, Canada. The Town aims to reduce their corporate greenhouse gas emissions 25% by 2027 from 2017 levels and their community greenhouse gas emission 10% by 2027 from 2017 levels. This will be done through a number of actions such as building retrofits, streetlight LED light bulb conversion and water conservation. Overall, the Town of Florenceville-Bristol is taking the correct steps to decrease their greenhouse gas emission, costs and increase the health of all its citizens.

Introduction

Through the Florenceville-Bristol Climate Change & Energy Initiative (CCEI) a comprehensive action plan has been developed to decrease greenhouse gas (GHG) emissions and energy consumption. This plan outlines the climate actions the Town of Florenceville-Bristol will implement to reduce their corporate GHG emissions by 25% of 2017 by 2027 and community GHG emissions by 10% of 2017 by 2027.

To implement and monitor this change, the Town of Florenceville-Bristol has chosen to use the Federation of Canadian Municipalities (FCM) Partners for Climate Protection tool. The tool breaks down the process into 5 Milestones. Milestone 1 identifies where GHG emissions are coming from in the local community and produces a baseline for which reduction can occur. Milestone 2 introduces reduction goals for which 25% and 10% were chosen on the corporate and community level respectively. Milestone 3 is the production of the climate action plan, for which the Town of Florenceville-Bristol has identified which actions will be taken to decrease their GHG emissions. Milestone 4 is the implementation phase for which the actions in Milestone 3 will be acted upon and Milestone 5 is the continuous monitoring and updating until the end of the plan. The Town of Florenceville-Bristol has successfully completed Milestones 1 and 2 and is currently in the process of completing Milestone 3. The remaining of this report is laid out as follows: Section 1 introduces the study site and the results from Milestone 1. Section 2 reviews the results from Milestone 2 and section 3 presents Milestone 3. Finally, conclusions are presented in section 4.

Study Site

Located in western New Brunswick, Canada, the Town of Florenceville-Bristol is located on the Saint John River and is part of Carleton County. With a population of 1,604 as of the 2016 census, Florenceville-Bristol is a rural community that hosts corporate headquarters of McCain Foods, the largest producer of French fries in the world. Florenceville-Bristol has an average temperature of 11.5 degrees Celsius and reaches record lows of -37.8 degrees Celsius in winter months and 35.0 degrees Celsius in summer months. Florenceville-Bristol receives approximately 1100mm of precipitation per year and experiences all 4 seasons. During spring months, flooding can occur along the Saint John River in low laying areas. The location of the Town of Florenceville-Bristol is shown in Figure 1.

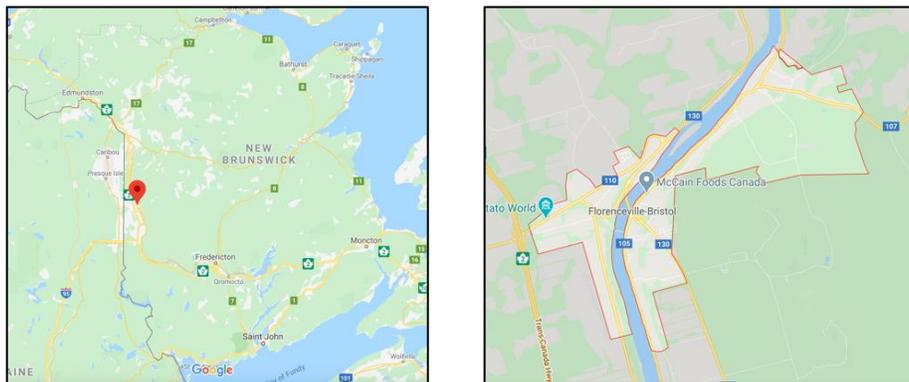


Figure 1 - Town of Florenceville-Bristol Study Site

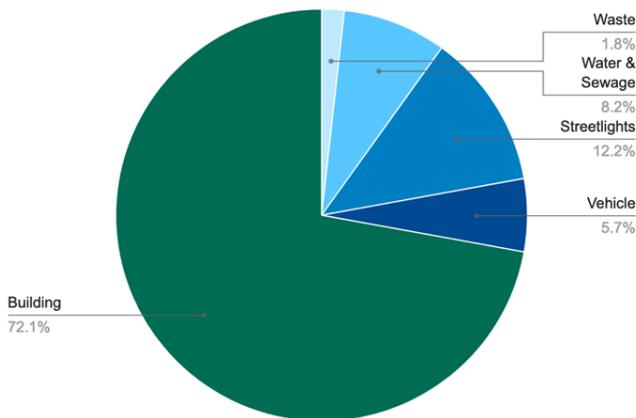
Section 1: Milestone 1 Emissions by Sector

In Milestone 1, from the Federation of Canadian Municipalities (FCM) Partners for Climate Protection tool, it was identified that the Town of Florenceville-Bristol consumed 8,678 GJ of energy, produced 736 tCO₂e and spent \$325,104 on a corporation level for 2017. On a community side, it was identified that the Town of Florenceville-Bristol consumed 250,609 GJ of energy, produced 21,099 tCO₂e and spent \$7,500,796 for 2017. The breakdown of these numbers is show in figure 2 and figure 3 below respectively.

Corporate Breakdown:

Greenhouse gas emissions (tCO₂e) by sector

Chart Data



Energy (GJ) by source

Chart Data

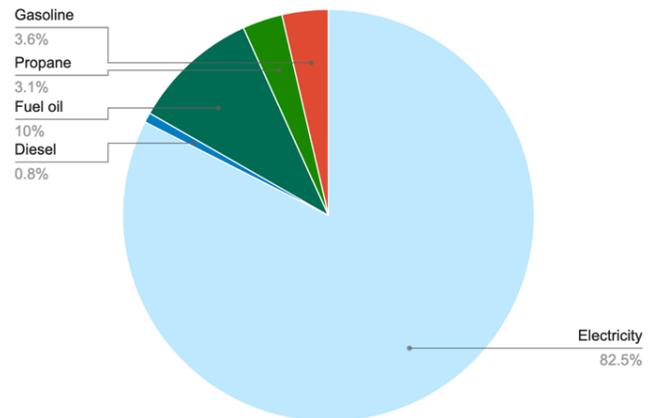


Figure 2 - Corporate Baseline Breakdown

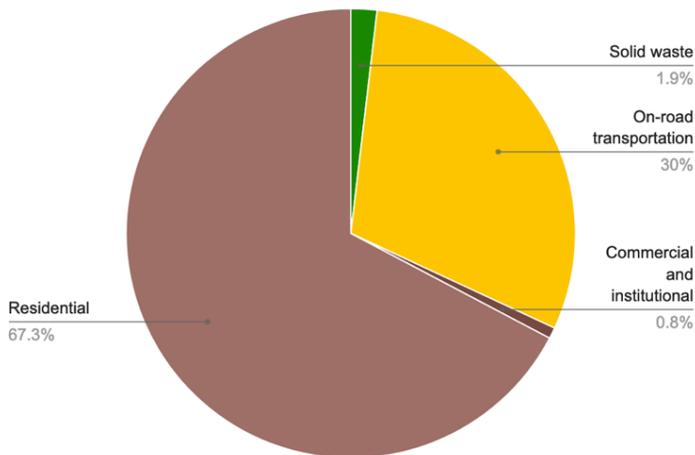
Breaking down the emissions by sector further, on a corporation level, the Town of Florenceville-Bristol produced the most greenhouse gases (GHG) from building assets.

Approximately 72% of all greenhouse gas emissions came from corporate buildings in Florenceville-Bristol while approximately 82% of all energy consumption came from electricity. It was recognised in Milestone 1, that the Town of Florenceville-Bristol aims to reduce energy costs to decrease greenhouse gas emissions.

Community Breakdown:

Greenhouse gas emissions (tCO₂e) by sector

Chart Data



Energy (GJ) by source

Chart Data

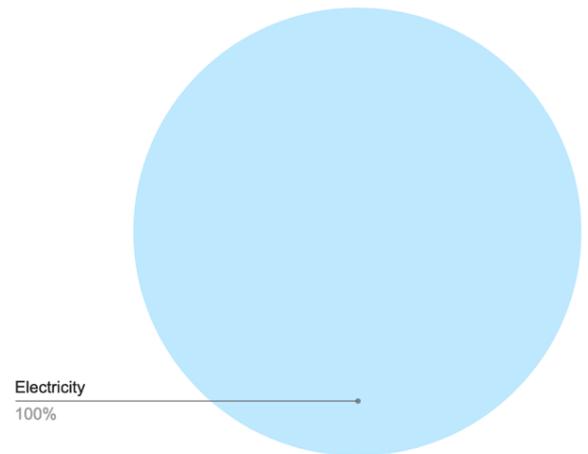


Figure 3 - Community Baseline Breakdown

Community Breakdown

On a community level, the largest producer of greenhouse gases was acknowledged as residential buildings. Approximately 67% of all greenhouse gas emissions came from residential buildings, primarily through heating and water consumption. As the Town of Florenceville-Bristol does not have any natural gas, approximately 100% of all energy consumption came from electricity, excluding vehicle gas consumption. It was recognised in Milestone 1, that the

Town of Florenceville-Bristol aims to reduce energy costs to decrease greenhouse gas emissions.

Reductions and Savings by Sector

Corporation Reductions and Saving

In Milestone 1, it was recognised that the largest consumer of energy and GHG production is corporate building assets. The Town of Florenceville-Bristol has older buildings that are not up to date with current energy standards. By completing building retrofits, Florenceville-Bristol will be able to save between 20 – 40% of their total energy consumption. Additionally, by replacing old streetlights with new LED lights, Florenceville-Bristol will be able to up to save 75% on their energy costs. Further division of the sectors is provided in table 1 below.

Table 1 - Corporations Sectors and Potential Savings

Sector	Typical Unit	Savings
Buildings	Electricity (kWh) and gas (GJ)	20 – 40%
Streetlights	Electricity (kWh)	25 – 75%
Water Pumping	Electricity (kWh)	0 – 5%
Vehicle Fuel Consumption	Gasoline/diesel (L)	5 – 15%
Solid Waste	Landfill waste (t)	5 – 25%

Community Reductions and Saving

Similar to corporation findings, the sector that was recognised as the largest consumer of energy and GHG production in the community was residential buildings. Due to cold Canadian winters, the local homes consume larger amounts of electricity to heat buildings. The Town of Florenceville-Bristol can provide public education on tips to reduce energy consumption as well as partner with other corporations such as NB Power to create an incentive program to update and upgrade homes to new energy efficient standards. This will decrease the overall energy consumption by 10 – 30%. Further division of the sectors is provided in table 2 below.

Table 2 - Community Sectors and Potential Savings

Sector	Typical Unit	Savings
Homes	Electricity (kWh)	15 – 35%
Vehicle Fuel Consumption	Gasoline/diesel (L)	5 – 15%
Solid Waste	Landfill waste (t)	5 – 10%

Targets, Savings and Potential Actions by Sector

The targets provided in tables 3 and 4 below outline potential goals and milestones that the Town of Florenceville-Bristol can take to achieve their goals of reducing their overall GHG emissions. Actions included are building retrofits, new LED lights, recycling program and further. Below in each table is an outline of the GHG Reductions, the Energy Reductions, and Potential Annual Savings.

Corporate Targets, Savings and Potential Actions

For the corporate targets, with a low target, the total annual GHG reductions will be 18%, the energy reduction will be 1550 GJ, and potential savings of approximately \$60,000 annually. For a medium target, the total annual GHG reductions will be 29%, the energy reduction will be 2499 GJ, and potential savings of approximately \$95,000 annually. For a high target, the total annual GHG reductions will be 40%, the energy reduction will be 3448 GJ, and potential savings of approximately \$130,000 annually. Note, that all actions are not required in each section to achieve these goals. The calculations as based on previous potentials savings from each sector.

Table 3 - Corporate Targets and Potential Actions

Target	Potential Actions	Annual GHG Reduction	Annual Energy Reduction	Annual Potential Savings
Low Target	<ul style="list-style-type: none"> • Building Retrofits • New LED Lights • Driver Training • Recycling Program 	131 Tonnes CO ₂	1550 GJ	~ \$60,000
Medium Target	<ul style="list-style-type: none"> • Building Retrofits • New LED Lights • Solar Pool water heating • Driver Training • Water Reduction Program • Recycling Program 	212 Tonnes CO ₂	2499 GJ	~ \$95,000
High Target	<ul style="list-style-type: none"> • New LEED Building • Aggressive Building Retrofits • Solar Pool Water Heating • Driver Training • Natural Gas Fleet Conversion • Zero-waste Plan • Water Reduction Program • Solar Panels on Buildings • Small Solar or Wind Farm 	292 Tonnes CO ₂	3448 GJ	~ \$130,000

Community Targets, Saving and Potential Actions

For the community targets, with a low target, the total annual GHG reductions will be 8%, the energy reduction will be 20,860 GJ, and potential savings of approximately \$624,000 annually. For a medium target, the total annual GHG reductions will be 17%, the energy reduction will be 41,954 GJ, and potential savings of approximately \$1,255,692 annually. For a high target, the total annual GHG reductions will be 25%, the energy reduction will be 63,048 GJ, and potential savings of approximately \$1,887,048 annually. Note, that all actions are not required in each section to achieve these goals. The calculations as based on previous potentials savings from each sector. Additionally, for the community, the potential annual savings is how much the total population could save when reducing their own GHG emissions.

Table 4 - Community Targets and Potential Actions

Target	Potential Actions	Annual GHG Reduction	Annual Energy Reduction	Annual Potential Savings
Low Target	<ul style="list-style-type: none"> • Building Retrofits • New LED Lights Incentives • Driver Training • Recycling Program 	1756 Tonnes CO ₂	20860 GJ	~ \$625,000
Medium Target	<ul style="list-style-type: none"> • Building Retrofits • New LED Lights Incentives • Driver Training • Water Reduction Program • Recycling Program 	3532 Tonnes CO ₂	41954 GJ	~ \$1,255,000
High Target	<ul style="list-style-type: none"> • Aggressive Building Retrofits • New LED Lights Incentives • Driver Training • Zero-waste Plan • Recycling Program • Compost Program • Water Reduction Program • Solar Panels on Buildings Program 	5308 Tonnes CO ₂	63048 GJ	~ \$ 1,900,000

Section 2: Milestone 2 Forecast for Reduction

In Milestone 2, the Town of Florenceville-Bristol set to reduce their GHG emissions 25% from 2017 level by 2027 on a corporation side and a 10% reduction from 2017 levels by 2027 on a community side. The Town of Florenceville-Bristol took a top-down approach to setting targets. The town has identified areas of concern, areas that will need updating during the Milestone 3 plan and areas that can be addressed for future reference. With the top-down approach, Florenceville-Bristol will aim to take an aggressive approach to setting targets, dramatically reducing their corporation GHG emissions from 2017 levels. On the community level, Florenceville-Bristol will take a more modest approach, as additional factors, such as community growth and development could drastically alter the plan. There were three reduction plans that were put together, low, medium and high. The outcomes of the three plans are outlined in figures 4 and 5 below, respectively.

Corporate Forecast

With the 10-year low reduction goal, the Town of Florenceville-Bristol will be able to reduce their greenhouse gas emissions approximately 18% from 2017 levels. With the 10-year medium reduction goal, the Town of Florenceville-Bristol will be able to reduce their greenhouse gas emissions approximately 29% from 2017 levels. Finally, with a high 10-year reduction goal, the Town of Florenceville-Bristol will be able to reduce their greenhouse gas emissions approximately 40% from 2017 levels. This is shown in figure 4 below.

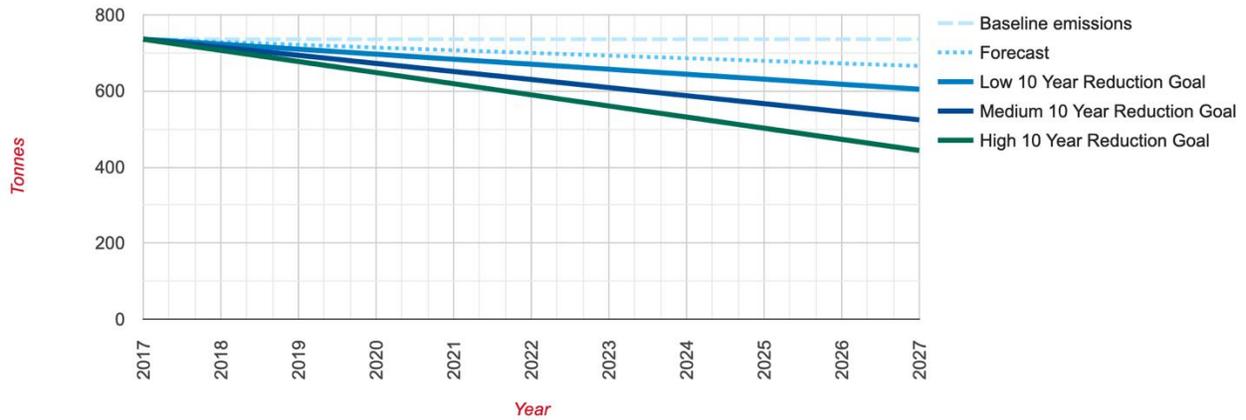


Figure 4 - Corporate forecast decrease

Community Forecast

With the 10-year low reduction goal, the Town of Florenceville-Bristol will be able to reduce their greenhouse gas emissions approximately 10% from 2017 levels. With the 10-year medium reduction goal, the Town of Florenceville-Bristol will be able to reduce their greenhouse gas emissions approximately 17% from 2017 levels. Finally, with a high 10-year reduction goal, the Town of Florenceville-Bristol will be able to reduce their greenhouse gas emissions approximately 25% from 2017 levels. This is shown in figure 5 below.

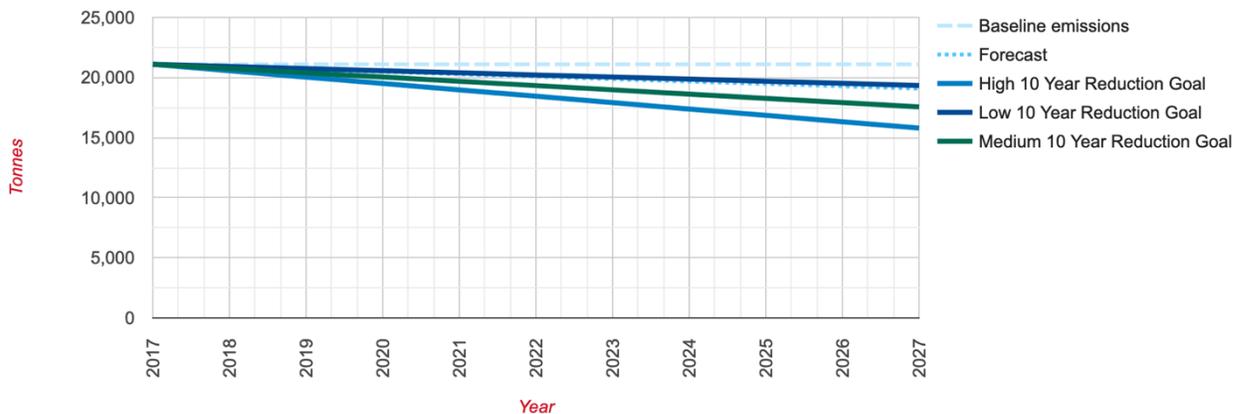


Figure 5 - Community forecast decrease

Risks and Considerations

Population Decline

When preparing the forecasts in Milestone 2 for the Town of Florenceville-Bristol, it should be noted that the Town has seen a population decline of approximately 1% from 2011 levels. This will affect the business as usual as it is expected that there will be a natural decrease of approximately 5% by 2027 from 2017 levels if the population continues to decrease. Overall, this will have minimal effect on the additional reduction actions that are later identified.

Section 3: Milestone 3 Implementation Strategy

The following sections help to layout an implementation strategy and climate action plan for the Town of Florenceville-Bristol. As the Town of Florenceville-Bristol took a top-down approach to setting targets they have recognised key actions that can be taken to significantly reduce GHG emissions. With the top-down approach, Florenceville-Bristol took an aggressive approach in setting targets, dramatically reducing their corporation GHG emissions from 2017 levels. On the community level, Florenceville-Bristol took a more modest approach, as additional factors, such as community growth and development could drastically alter the plan. In each section, the action, the potential reduction in greenhouse gas emissions, the performance indicator and potential dollar savings is identified.

Corporation

There are 5 key corporation sectors that were recognized in Milestones 1 and 2. These sectors include corporate assets, fleet, street lighting, water, and solid waste. As stated before, out of date buildings can significantly reduce the community's greenhouse gas emissions. For Florenceville-Bristol, building retrofits will be extremely important. Building retrofit can save as much as half of all energy costs and can significantly reduce GHG emissions. The table 5 below outlines the quantitative and qualitative actions that will be completed to ensure a successful implementation. Additionally, key performance indicators were addressed. Further breakdown of the actions that are going to be taken are outlined below.

Table 5 - Corporate Potential Actions and KPI's

Corporation Sector (Municipal Operations)	Quantitative Action	Qualitative Action	Key Performance Indicator
Corporate Assets (Buildings)	Undertake comprehensive municipal building retrofits to improve energy efficiency.	Encourage future mixed-used building development, energy-awareness, and energy efficiency	\$ of energy reduction year over year
Fleet	Reduce vehicle gas consumption	Replace old fleet with new more efficient vehicles and educate on anti-idling and green driving	Decrease in \$ spent of fuel
Street lighting	Replace all lights with LED's	Adopt energy-efficient measures for street lighting requirements	# of lights replaced/\$ of energy reduction year over year
Water	Reduce energy and water consumption	Increase water conservation awareness. Install low-flow toilets	\$ of energy reduction year over year
Solid Waste	Increase recycling program by introducing door-to-door service.	Increase recycling by introducing door to door service and educating on best recycling practice	# of tons of recycling processed versus garbage

Actions

An overview of the individual actions can be found in table 6 below. Further explanation of the action can be found after the table.

Table 6 - Corporate Actions and Potential Savings

Action	Potential GHG Emissions Reduction	Potential Cost Savings	Priority	Costs Involved
Oil Tanks	7 tCO ₂ e	\$2000/yr	High	Building Retrofits
Arena	90 tCO ₂ e	\$40,000/yr	High	Building Retrofits
Outdoor Swimming Pool	1 tCO ₂ e	\$300/yr	Low	Building Retrofits
Windows	80 tCO ₂ e	\$35,000/yr	Medium	Building Retrofits
Streetlights	40 tCO ₂ e	\$20,000/yr	High	Purchasing LED's
Water Pumps	3 tCO ₂ e	\$1,000/yr	Low	Producing documents and advertising them
Vehicle Fuel Consumption	5 tCO ₂ e	\$1,500/yr	High	Producing documents and advertising them
Solid Waste	0.6 tCO ₂ e	\$100/yr	Medium	Recycling program

Oil Tanks

There are two buildings in Florenceville-Bristol that still use oil heating as the primary heating source. With the switch to electric heat, Florenceville-Bristol will be able to save approximately 10% of current levels reducing the total greenhouse gases by about 7 tCO₂e. The funding for this conversion will come from the Town of Florenceville-Bristol. This action is viewed as high priority and can save approximately \$2,000 per year.

Arena

Arenas can consume large quantities of energy. As arenas cool large open spaces throughout the year, the outside climate can greatly affect the total energy consumption of the building. To ensure that the building is most efficient and minimal heating and cooling is lost to the outside, new insulation will be installed in the arena. This can decrease the total energy consumption by approximately 25% of current levels reducing the total greenhouse gases by about 90 tCO₂e. The funding for this conversion will come from a combination of programs such as FCM and the environmental trust fund, and the Town of Florenceville-Bristol. This action is viewed as medium priority and can save approximately \$40,000 per year.

Outdoor Swimming Pool

Outdoor swimming pools can consume large quantities of energy. As outdoor swimming pools require regular circulation of water along with heating, it is important to be efficient. Along with that, the outside climate can greatly affect the total energy consumption of the building. To ensure that the pool is most efficient and minimal heating and cooling is lost to the

outside, new solar heaters will be installed. This can decrease the total energy consumption by approximately 10% of current levels reducing the total greenhouse gases by about 1 tCO₂e. The funding for this conversion will come from a combination of programs such as FCM and the environmental trust fund, and the Town of Florenceville-Bristol. This action is viewed as low priority and can save approximately \$300 per year.

Windows

With older building, large quantities of heat can be lost through windows in winter months. To decrease this effect, new more energy efficient windows should be installed in all corporate buildings. This can decrease the total energy consumption by approximately 15% of current levels reducing the total greenhouse gases by about 80 tCO₂e. The funding for this conversion will come from a combination of programs such as FCM and the environmental trust fund, and the Town of Florenceville-Bristol. This action is viewed as medium priority and can save approximately \$35,000 per year.

Streetlights

Streetlights can consume large quantities of energy. As streetlights are on throughout the night, it is important to ensure that the lightbulbs that are being used are the most efficient and consume the least amount of energy. So, for the Town of Florenceville-Bristol, each of the lightbulbs will be replaced with more energy efficient LED lightbulbs. These lightbulbs can consume as little as 25% energy of a traditional incandescent light bulbs while providing a brighter lighting source. With the conversion, Florenceville-Bristol will be able to save

approximately 40 tCO₂e. The funding for this conversion will come from the Town of Florenceville-Bristol. This action is viewed as high priority and can save approximately \$20,000 per year.

Water Pumps

Water pumps constantly run when water is being consumed. To reduce water consumption on a corporate level, installing low flush toilets can decrease water consumption and energy consumption. With the switch, Florenceville-Bristol will be able to save approximately 5% of current levels reducing the total greenhouse gases by about 3 tCO₂e. The funding for this conversion will come from the Town of Florenceville-Bristol. This action is viewed as medium to low priority and can save approximately \$1,000 per year.

Vehicle Fuel Consumption

Being a rural community, there are no public forms of transportation available. To encourage the community to reduce their fuel consumption, the Town of Florenceville-Bristol will convert current fleets to more fuel-efficient vehicles. This will save approximately 10% of current levels reducing the total greenhouse gases by about 5 tCO₂e. The funding for this conversion will come from the Town of Florenceville-Bristol. This action is viewed as high priority and can save approximately \$1,500 per year. Additional programs that will be implemented include educating public servants on anti-idling and training on green-driving training. This can further decrease the fuel consumption.

Solid Waste

By further increasing the recycling program and reducing solid waste on the corporation level, the Town of Florenceville-Bristol can decrease their greenhouse gas emission by 0.6 tCO₂e. This will save approximately \$100 per year.

Community

There are 3 key community sectors that were recognized in Milestones 1 and 2. These sectors include residential buildings, transportation, and solid waste. Water was included in residential buildings, as citizens have well water. As stated before, out of date residential buildings can significantly increase the community's greenhouse gas emissions. For Florenceville-Bristol, building retrofits will be extremely important and beneficial. Building retrofits can save as much as half of all costs on energy and can significantly reduce GHG emissions. The table 7 below outlines the quantitative and qualitative actions that will be completed to ensure a successful implementation. Additionally, key performance indicators were addressed. Further breakdown of the actions that are going to be taken are outlined below.

Table 7 - Community Potential Actions and KPI's

Community Sector	Quantitative Action (set targets where feasible)	Qualitative Action	Key Performance Indicator
Residential	Undertake comprehensive building retrofits to improve energy efficiency. Install energy-efficient windows when replacing old windows.	Require installation of energy-saving and low-water-flow devices in new and renovated buildings	# of lights replaced/\$ of energy reduction year over year/Number of homes completed the program
Transportation	Reduce vehicle gas consumption.	Encourage switching to new more efficient vehicles. Implement anti-idling and educate on green driving	Decrease in \$ spent of fuel
Solid Waste	Increase recycling program by introducing door-to-door service.	Increase recycling by introducing door to door service and educating on best recycling practice	# of tons of recycling processed versus garbage

An overview of the individual actions can be found in table 8 below. Further explanation of the action can be found after the table.

Table 8 - Community Actions and Potential Savings

Action	Potential GHG Emissions Reduction	Potential Cost Savings	Priority
Homes	2,000 tCO ₂ e	\$1,000,000/yr	Medium
Vehicle Fuel Consumption	300 tCO ₂ e	N/A	Low
Solid Waste	20 tCO ₂ e	\$4,500/yr	High

Homes

There are a number of potential actions that can be taken to improve residential efficiencies. The principal action is the NB Power Capitalize Efficiency and Program. By introducing this program to the Town of Florenceville-Bristol, the people can have a trained professional come to their home and investigate areas that need to be updated and areas of concerns. Currently, NB Power will pay \$400 of the \$499 fee and will upgrade lighting and water faucets to low power and low flow alternatives for free. This brings the total costs to only \$99 per resident. The next action is encouraging local residents to install new windows that are more energy efficient. The final action is educating the public on turning lights off when the room is not being used and decreasing local room temperatures by 1 degree on their thermostat. With all these actions the Town of Florenceville-Bristol community can save approximately 2,000 tCO₂e or \$1,000,000 per year.

Vehicle Fuel Consumption

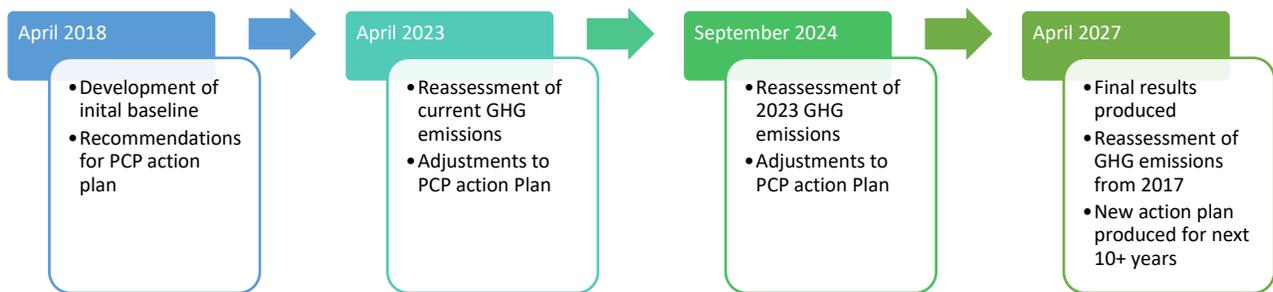
Being a rural community, there are no public forms of transportation available. To encourage the community to reduce their fuel consumption, the Town of Florenceville-Bristol can encourage its citizens to drive more fuel-efficient vehicles. This will save approximately 5% of current levels reducing the total greenhouse gases by about 300 tCO₂e. This action is viewed as medium to low priority. Additional programs that will be implemented include applying an anti-idling program and training on green-driver training. The Town of Florenceville-Bristol will implement/work with the local school district to implement the anti-idling program. This can further decrease the fuel consumption.

Solid Waste

By further increasing the recycling program and reducing solid waste on the community level, the Town of Florenceville-Bristol community can decrease their greenhouse gas emission by 20 tCO₂e. This will save approximately \$4,500 per year.

Timeline

Below is timeline for the project. To achieve the planned goal of reducing GHG emissions, the Town of Florenceville-Bristol should plan to reassess and track how much progress has been made halfway through the project and $\frac{3}{4}$ of the way through the project. This will allow for enough time to assess how well the community is adopting to the changes. April has been chosen as the date to reassess due to election cycles and funding opportunities. The baselines and future changes will be based on a yearly cycle.



Conclusion

The Town of Florenceville-Bristol has taken appropriate steps for the creation, recommendation and implementation of a climate action plan. With the actions outlined in section 3 above, the Town will be able to reduce their GHG emissions while also saving money on both the corporation level and community level. The goal for Florenceville-Bristol is to reduce their corporation GHG emission levels by 25% of 2017 level and their community GHG emissions by 10% of 2017 by 2027. Meeting these targets will allow Florenceville-Bristol to successfully take action on climate change and provide a healthier and safer approach for day to day business.

Appendix

Feedback from Stakeholder Engagement, Key Comments

From the stakeholder engagement there were three key comments that were identified. The first comment/recommendation was that the Town of Florenceville-Bristol incorporate and work with the local community (schools) to develop an anti-idling program. This will help to raise awareness while also decreasing greenhouse gas emissions. The next comment was to increase public awareness of available programs that are available in New Brunswick. People in the Town of Florenceville-Bristol were unsure as to what programs were available to help reduce their own impact on GHG emissions as well as the effect of each change. It was noted that the Town should increase awareness of this. The final key comment was the introduction of a composting program. The Town of Florenceville-Bristol is already decreasing their impact by implementing a recycling program but the citizens want the Town to aim higher and look at composting programs in the future. This will decrease the amount of garbage and recycling that will enter the system but will also encourage green behaviour. Overall, the introduction of an anti-idling program and increased public awareness of programs will be targeted as a high priority and added to the potential actions whereas the composting program will be low priority as further partnerships and opportunities have to be explored first.

Example Survey - Town of Florenceville-Bristol Survey:

1. Do you know what a climate action plan is?
 - a. Yes
 - b. No
2. Do you know if New Brunswick has a climate action plan?
 - a. Yes
 - b. No
3. What sector do you think the highest greenhouse gas come from in Florenceville-Bristol? (1 – Highest, 5 – Lowest)
 - a. Corporate Buildings
 - b. Streetlights
 - c. Water and Sewage
 - d. Waste
 - e. Vehicle emissions
4. What sector do you think your highest greenhouse gases come from? (1 – Highest, 5 – Lowest)
 - a. Home Heating
 - b. Home Garbage/Recycling
 - c. Lighting
 - d. Water and Sewage
 - e. Vehicle emissions (Driving)

5. How much do you think the Town of Florenceville-Bristol should decrease their greenhouse gas emissions?

_____ %

6. How much do you think you can decrease your greenhouse gas emissions?

_____ %

7. What potential benefits do you think are possible with decreasing greenhouse gases?

(e.g. Environmental, Economic, or Health)

8. By reducing your greenhouse gas emissions, estimate how much money you can save.

9. Rank these actions on what will have the most impact on reducing greenhouse gas emissions? (1 – Highest, 8 – Lowest)

- a. Turning off lights when not in a room
- b. Turn your thermometer down one degree
- c. Not idling
- d. Replacing windows with energy efficient ones
- e. Installing more insulation
- f. Installing solar panels on buildings
- g. Recycling
- h. Other

10. What potential actions would you like to see the Town of Florenceville-Bristol take to reduce their greenhouse gases?

11. What potential actions would you take to reduce your own greenhouse gases?
