

Climate Action *Report* 2020

Progress Report on Recommended Actions - March 2023

1.0 BUILDINGS AND ENERGY								
	ACTION		TYPE	TIMELINE	COST	2020 STATUS	2022 STATUS	NOTES
1-1	DEVELOP A COMMUNITY ENERGY PLAN (CEP)	The goal is for energy efficiency and renewable energy opportunities to be considered early in the land-use and infrastructure planning process.	Plan/study	Short-term	\$\$	Planned	Complete	<ul style="list-style-type: none"> Council adopted the Community Energy and Emissions Plan (CEEP) in July 2022. The Strategic Plan 2023 includes an action to "Implement the Community Energy and Emissions Plan".
1-2	DEVELOP COMMUNITY-SCALE ENERGY PROGRAMS	<p>Develop programs to encourage energy performance and renewable energy uptake in existing homes and commercial buildings.</p> <p>(E.g., PACE (property assessed clean energy) program, where efficiency or renewable energy upgrades are financed, and loans are repaid via property tax bills).</p>	Procedure	Medium-term	\$	Not Initiated	Planned (Provincial Level)	<ul style="list-style-type: none"> In a September 2022 Press Release, GNB announced the Enhanced Energy Savings Program, as well as a financing program coming in 2023 for homeowners who do not qualify for the Enhanced Energy Savings Program but wish to make energy efficiency upgrades. The Strategic Plan 2023 includes an action to: "Advocate for changes to Acts and regulations that are barriers to our renewable energy projects". The CEEP includes Action 4: Develop a program to stimulate deep energy retrofits in residential and non-residential buildings; Action 7: Develop and launch programming to encourage rooftop solar PV systems on residential and commercial buildings.
1-3	EXPLORE COMMUNITY ENERGY PARTNERSHIPS	Identify opportunities to partner with community organizations for the development of community energy programs.	Partnerships and Engagement	Short-term	N/A	Planned	Underway	<ul style="list-style-type: none"> Moncton is joining some members of the Association of Francophone Municipalities of New Brunswick (AFMNB) in a partnership with PACE Atlantic to access FCM funding to explore the feasibility of alternative models for

								renewable energy/deep retrofit financing in New Brunswick.
1-4	UPDATE THE MUNICIPAL GREEN BUILDING POLICY	Modify the Municipal Green Building Policy to require all new buildings to meet net-zero standards, or guarantee systems are easily adaptable in the future.	Policy	Short-term	N/A	Not Initiated	Planned	<ul style="list-style-type: none"> The CEEP includes Action 3: Update the City's internal Municipal Green Building Policy to ensure all new buildings starting in 2025 are built to be 'net zero ready' and are built to 'net zero energy' standards by 2030.
1-5	DEVELOP A STRATEGY TO REDUCE ENERGY CONSUMPTION IN EXISTING MUNICIPAL BUILDINGS	<p>Strategy should:</p> <ul style="list-style-type: none"> Explore models to finance investment in efficiency retrofits and renewable energy Identify energy retrofits Encourage the use of low carbon heating and cooling technologies for space and water heating and cooling. 	Project	Short Term	\$\$	Planned	Underway	<ul style="list-style-type: none"> Administration applied for FCM funding through the Community Building Retrofit Program: GHG Reduction Pathway Feasibility Study. This study will include several buildings from the City of Moncton's building portfolio. The Feasibility Study will analyze each facility and to develop a pathway to achieve a 50% GHG reduction within 10 years and 80% reduction within 20 years. The CEEP includes Action 4: Develop a program to stimulate deep energy retrofits in residential and non-residential buildings. The Strategic Plan 2023 includes an action to "Implement the Corporate Energy and Greenhouse Gas Reduction Plan", and to "Develop strategy to reduce energy consumption in existing buildings/equipment". The Energy Management Fund was established in 2015, whereby monthly utility savings from energy retrofits are transferred and used to complete further retrofits, and to which capital funds are added. This is another tool to support retrofits.

1-6	INSTALL SOLAR PV SYSTEMS ON MUNICIPAL FACILITIES	<p>Explore opportunities to install solar PV systems on municipal facilities.</p> <p>For example, the Corporate Energy and Greenhouse Gas Reduction Action Plan recommends the following solar PV installation at municipal facilities:</p> <ul style="list-style-type: none"> • City Hall 34 kW solar array (\$90,000) • Codiac Transpo 450 kw solar array (\$1,150,000 with annual savings of \$68,500) 				Not Initiated	Planned	<ul style="list-style-type: none"> • The CEEP includes Action 8: Develop a ground mount solar PV installation initiative (at locations such as City-owned parking lots, City facilities, and City-owned land). • See Action 1-5. For existing buildings, dependent on findings of GHG reduction pathway feasibility planning. • Design for the new Codiac Regional Facility includes a 100kW solar PV system. Facility under construction and to be completed in 2025.
1-7	PURCHASE CARBON OFFSET CREDITS	Purchase carbon offset credits for large City events (i.e., Canada Day celebration)	Procedure	Short-term	\$	Not Initiated	Complete	<ul style="list-style-type: none"> • The City facilitated a process where Canada Day sponsors could commit to having 10% of their sponsorship go toward carbon credits; two sponsors participated in 2022.
1-8	GREEN DEVELOPMENT STANDARDS	<ul style="list-style-type: none"> • Identify sustainable design requirements for new private and city-owned facilities • Identify mechanisms to promote community energy planning (i.e., through plans or other tools) • Include energy and resilience considerations within site development • Identify opportunities to introduce new by-laws to require eco-features, such as green roofs on new buildings. • Include requirements under the development permit application. 	Guidelines and/or Policy	Medium-term	N/A	Not Initiated	Underway	<ul style="list-style-type: none"> • The Strategic Plan 2023 includes actions to "Develop green development guidelines", to "Explore updating of zoning regulations related to green development standards", and to "Explore new regulations related to urban forest / tree protection". • A draft Green Development Guidelines document has been produced and is being circulated among Sustainable Growth and Development staff for comment.
1-9	FULFILL COMMITMENTS	Complete a community GHG inventory	Project	Short-term	N/A	Planned	Complete	<ul style="list-style-type: none"> • A community GHG inventory was completed and is included in the CEEP.

	UNDER THE GLOBAL COVENANT OF MAYORS SHOWCASE CITIES PILOT PROJECT	Identify an appropriate GHG emissions reduction target	Project	Short-term	\$	Planned	Complete	<ul style="list-style-type: none"> A target of net zero emissions by 2050 was adopted by City Council in July 2022. The CEEP includes a strategy to meet the net zero by 2050 target.
		Develop a strategy to meet GHG reduction targets	Project	Short-term	\$	Planned	Complete	

2.0 SUSTAINABLE TRANSPORTATION								
ACTION		TYPE	TIMELINE	COST	2020 STATUS	2022 STATUS	NOTES	
2-1	VEHICLE ANTI-IDLING CORPORATE EDUCATION CAMPAIGN	Conduct a staff awareness and education campaign using data obtained from AVL (automating vehicle location) monitoring.	Education / Engagement	Short-term	N/A	Planned	Planned	<ul style="list-style-type: none"> New GeoTab AVL system permits monitoring of fleet idling. Administration is exploring education and awareness tools including anti-idling signage for municipal properties.
2-2	INSTALLATION OF ADDITIONAL EV (ELECTRIC VEHICLE) CHARGING STATIONS AT MUNICIPAL FACILITIES	<ul style="list-style-type: none"> Install additional EV charging stations for municipal vehicle fleet use. Install additional EV charging station at municipal public sites for public use. 	Project	Short-term	\$\$	Not Initiated	Underway	<ul style="list-style-type: none"> The Strategic Plan 2023 includes an action to "Install additional vehicle charging stations". The CEEP includes Action 20: Prepare for and catalyze zero emission vehicle uptake by developing a community-wide Zero Emission Vehicle Strategy. Moncton City Council's 2022 budget included \$45,000 for installing EV charging stations (EVCS) and the 2023 budget included \$50,000. In May 2022, Moncton was approved for the Plug-In NB Rebate for Business, which covers up to 50% of eligible costs, to a max. of \$5,000 per connector. 2022-3: Administration facilitating installation of five (5) city-owned level 2 EVCS at municipal facilities. 2022-3: NB Power installing one (1) NB Power-owned DC fast charger and one (1) level 2 EVCS in the City Hall parking lot.

2-3	MUNICIPAL VEHICLE FLEET ELECTRIFICATION	Procurement of additional electric vehicles as part of the fleet vehicle replacement program. Develop a Green Fleet Policy	Program / Project	Short to Medium-Term	\$\$	Planned	Planned	<ul style="list-style-type: none"> The CEEP includes Action 19: Develop and implement a "Zero Emissions Fleet and Equipment Policy" to expedite the transition of the City's fleet and equipment to zero emission alternatives. Current procurement of replacement fleet vehicles considers EV alternatives based on vehicle use, availability, and access to parts and servicing to support and maintain vehicle locally. In 2023, Administration will retain the services of a qualified firm to develop Phase 1 & 2 of a City of Moncton Fleet Low Carbon Migration Strategy. Design of Operations Centre upgrades to include EV-ready municipal fleet maintenance space.
2-4	CONTINUED RESEARCH	Research on best practices and innovation in the transportation sector and identify opportunities to reduce carbon emissions from the municipal vehicle fleet.	Study	Short Term	\$	Planned	Underway	<ul style="list-style-type: none"> GeoTab AVL data is being used to identify fleet vehicles with potential for EV replacement and opportunities for energy conservation. The Fleet department is evaluating the purchase of additional EVs to collect more data to inform fleet transition; however, facing availability challenges.
2-5	COMPLETE AN ELECTRIC BUS FEASIBILITY STUDY	The first step to be completed prior to the purchase of electric buses is to complete a feasibility study (ref.: Appendix E).	Study	Short Term	\$	Not Initiated	Underway	<ul style="list-style-type: none"> 2022-3: CUTRIC working with Administration to undertake an electric bus feasibility study, 80% of which is funded by Infrastructure Canada's Zero Emission Transit Fund. Results are expected by the end of Q2 2023.
2-6	CONDUCT AN ELECTRIC BUS PILOT PROJECT	Upon results of the feasibility study, complete an electric bus pilot project.	Pilot project	Short Term	\$\$	Not Initiated	Planned	<ul style="list-style-type: none"> The Strategic Plan 2023 includes an action to "Consider electrification of public transit pilot project" in 2023/4.
2-7	PROCUREMENT OF ELECTRIC BUSES	If results of the study and pilot project are successful, replace transit bus fleet with low or zero emissions vehicles as part of the life cycle replacement program.	Project / Operation	Medium to Long Term	\$\$\$	Not Initiated	Not Initiated	<ul style="list-style-type: none"> Pending results of electrification study and pilot project.

2-8	CONTINUE BUILDING ADDITIONAL TRAIL LINKAGES	Continue building trails 5-7 minutes' walk from local residences connecting to a primary trail that will lead to the downtown.	Plan / Project	Short to Medium Term	\$\$	Planned	Planned	<ul style="list-style-type: none"> The Strategic Plan 2023 includes actions to "Implement Active Transportation Master Plan (Phase II)" and Design and Construct Panacadie Trail Phase II. The Active Transportation Plan Phase Two was approved by Council in June 2022.
2-9	INCREASE THE AMOUNT OF PEOPLE LIVING WITHIN WALKING OR BIKING DISTANCE OF THEIR DAILY NEEDS	Continue to identify initiatives to promote downtown living and/or living within walking or biking distance to their daily needs.	Research / Policies / Partnerships / Engagement	Short to Medium-Term	N/A	Planned	Underway	<ul style="list-style-type: none"> The CEEP includes Action 1: Ensure Moncton's future urban development includes more density in key nodes and corridors, and a greater proportion of mixed-use and multi-unit residential buildings. The Strategic Plan 2023 includes an action to "Implement an Urban Growth Strategy to encourage development on high potential future growth areas." 2021-3: The Urban Growth Strategy is underway and expected to be completed by the end of Q3 2023.
2-10	DEVELOPMENT OF ACTIVE TRANSPORTATION PLAN (PHASE II)	<p>Evaluate the existing bicycle and pedestrian networks and recommend changes to improve connectivity and viability for all users.</p> <p>Include a city-wide implementation plan comprised of a detailed cycling and pedestrian network and supporting transportation projects, policies and design standards.</p> <p>Develop an education and awareness campaign for the community.</p>	Study / Plan	Short-term	\$\$	Underway	Complete	<ul style="list-style-type: none"> Active Transportation Plan Phase Two Adopted by Council June 2022. The CEEP includes Action 18: Expand and improve active transportation network, 'end-of-ride' facilities, and bike security to increase trips taken using active modes of transportation. Administration in process of hiring an Active Transportation Coordinator in 2023. Administration collaborating with Working Group of stakeholders on AT promotion and education. In 2022, Council approved spending of \$1M / year for 5 years on active transportation infrastructure.

2-11	DEVELOP PROGRAMS TO INCREASE EV (ELECTRIC VEHICLE) PURCHASES AND USE WITHIN THE COMMUNITY	Develop zoning by-law requirements for EV charging stations at multi-unit residential and commercial buildings.	Policy / regulations	Short-term	N/A	Not Initiated	Underway	<ul style="list-style-type: none"> The CEEP includes Action 20: Prepare for and catalyze zero emission vehicle uptake by developing a community wide Zero Emission Vehicle Strategy. Administration researching and exploring feasibility of 'EV Ready' urban planning policy.
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3.0 WASTE REDUCTION								
ACTION			TYPE	TIMELINE	COST	2020 STATUS	2022 STATUS	NOTES
3-1	ADOPT A COMMERCIAL WASTE SEPARATION BY-LAW	Adopt a by-law requiring multi-unit residential and commercial waste separation.	By-law	Short-term	N/A	Not Initiated	Not Initiated	<ul style="list-style-type: none"> Action pending further information on the implementation of a provincial Extended Producer Responsibility (EPR) program for packaging and paper products (PPP).
3-2	REVIEW EXISTING WASTE COLLECTION PROGRAM	Review, in partnership with Eco360, the use of plastic bags vs bins for waste disposal and collection.	Operating procedure	Short-term	N/A	Not Initiated	Not Initiated	
3-3	CONDUCT WASTE REDUCTION EDUCATION PROGRAMS	Develop community waste reduction education programs in partnership with Eco360.	Education	Short-term	N/A	Not Initiated	Not Initiated	<ul style="list-style-type: none"> The CEEP includes Action 23: Partner with Eco360 to develop and implement a "Zero Waste by 2050" plan to divert 100% of Moncton's waste from the landfill.
3-4	CONDUCT A WASTE REDUCTION EDUCATION AND AWARENESS CAMPAIGN	<p>In partnership with Eco360:</p> <p>Conduct an awareness campaign to encourage elimination of food waste in homes, workplaces and schools.</p> <p>Work with institutions and businesses to</p>	Education	Short-term	\$	Not Initiated	Not Initiated	

		support implementation of food waste reduction/diversion.						
3-5	DEVELOP A CORPORATE WASTE REDUCTION STRATEGY	<p>Adopt paperless practices</p> <p>Become plastic-free</p> <p>Conduct an employee education program</p> <p>Adopt green meeting practices (template included in Appendix B)</p>	Research / Education / Engagement	Short-term	N/A	Underway	Underway	<ul style="list-style-type: none"> 2021-3: Eco360 conducted waste management assessments of municipal buildings. Administration is facilitating purchase of new 3-stream sorting containers and is establishing an SPO under which municipal building operators and Centennial Park can retain sorted hauling services. Eco360 provided educational signs. Connexions profiled Eco360's Workplace Sorting Guide in a newsletter for staff. <p>Complete:</p> <ul style="list-style-type: none"> City Hall Codiac RCMP Station Codiac Transpo Fire Stations Magnetic Hill Zoo Operations Centre Resurgo Place <p>Underway / Further Review Required:</p> <ul style="list-style-type: none"> Kay Arena Coliseum Moncton Market Moncton Lions Community Centre
3-6	GREEN COMMUNITY EVENTS	<p>Develop a Green Events Guide and checklist (example included in Appendix C).</p> <p>Offer zero-waste training for staff and vendors.</p>	Education	Short-term	N/A	Underway	Complete	<ul style="list-style-type: none"> Green Event Guide was launched Earth Day 2022. The Canada Day Waste Sorting Program was created in partnership with Eco360 to divert garbage going to the landfill from the Canada Day celebrations. <ul style="list-style-type: none"> Invited Eco360 to be on-site during the Canada Day celebrations to educate the public about the waste sorting program. A 'Green Sponsor' category was created for the Canada Day sponsorship package this year. This new category offered sponsors these additional sponsor benefits:

								<ul style="list-style-type: none"> o Green sponsorship dollars help fund the garbage sorting and recycling program at the event to minimize landfill waste. o Proceeds from beverage recyclables (bottles and cans) donated to a charity of the Green Sponsor's choice. o Carbon credits purchased on behalf of sponsor representing 10% of sponsorship amount.
3-7	UPDATE THE CITY OF MONCTON GREEN PROCUREMENT POLICY	<p>Update the Green Procurement Policy to further reduce corporate waste. Evaluate higher standards for:</p> <ul style="list-style-type: none"> - Recycled content - Packaging - Certifications - Buying Local 	Policy	Short-term	N/A	Not Initiated	Not Initiated	

4.0 OTHER GHG REDUCTION INITIATIVES								
ACTION			TYPE	TIMELINE	COST	2020 STATUS	2022 STATUS	NOTES
4-1	SUPPORT LOCAL FOOD PRODUCERS	<p>Develop a City policy to use and promote locally-produced food at its meetings and events.</p> <p>Expand the network of community gardens.</p> <p>Encourage the purchase of locally-produced food.</p>	Education / Awareness	Short-term	\$	Not Initiated	Not Initiated	
4-2	INCREASE THE URBAN TREE CANOPY AND THE DIVERSITY OF TREE SPECIES BEING	<p>Continue funding the tree planting program</p> <p>Conduct community education programs</p>	Program	Short-term	\$	Underway	Underway	The Strategic Plan 2023 includes an action to "Explore new regulations related to urban forest/tree protection."

	PLANTED ON PUBLIC AND PRIVATE LANDS							<p>The CEEP includes Action 24: Support development and implementation of tree-planting programs; and Action 25: Develop a policy to protect, monitor and actively manage the remaining forested and wetland areas in Moncton.</p> <p>The Tree Planting Program continues to receive funding.</p> <p>2022: An application was submitted to the Natural Infrastructure Fund for funding to plant 360, 10-year-old street trees in neighborhoods with low city-owned street tree density per km of street.</p> <p>2022: Coordination with the Fundy Biosphere Reserve is ongoing on collaborative tree planting opportunities on municipal property from 2022-5.</p>
4-3	CREATE A CLIMATE ACTION COMMITTEE	Create a stakeholder committee composed of local utility representatives, business owners, developers and environmental groups to identify and implement climate actions.	Partnerships / Engagement	Short-term	N/A	Not Initiated	Complete (Ongoing)	Climate Action Working Group instituted in 2021 following a public application process. The working group meets every two months.
4-4	DEVELOP A FRAMEWORK OR POLICY TO GUIDE MUNICIPAL DECISION-MAKING	Apply a climate mitigation lens to all municipal projects to ensure GHG emissions reduction, clean energy and carbon footprint reduction are considered.	Operation / Policy	Short-term	N/A	Not Initiated	Planned	The development of a framework will be explored in Q1/Q2 2023.