sustainable Peterborough

Greater Peterborough Area Climate Change Action Plan

Chapter 12 – Curve Lake First Nation

Community and Corporate Climate Action Plans

December 7, 2017

LURA
LISTEN · UNDERSTAND · RELATE · ADVANCE

ICLEI Local Governments for Sustainability

FIRST NATION COUNCIL RESOLUTION

THE COUNCIL OF THE CURVE LAKE FIRST NATION BAND

District: SOUTHERN

Province of ONTARIO

Place: CURVE LAKE I.R. # 35

Date: 2017 December 4

FILE NUMBER: 479/2017-2018-32

DO HEREBY RESOLVE:

Whereas, the Greater Peterborough Area Climate Change Action Plan be adopted in principle;

And Whereas, Curve Lake First Nation's Community Sector and Corporate Sector greenhouse gas emission reduction targets of 15% respectively for both targets, and associated local action plans, be adopted and implemented as funding permit;

Therefore let it be resolved, that upon adoption of the Greater Peterborough Area Climate Change Action Plan, that Curve Lake First Nation will become one of the first ever First Nation communities in Canada to complete the Federation of Canadian Municipalities' Partners of Climate Protection Program.

A quorum for this First Nation consists of FIVE (5) Council Members

(Chief Phyllis Williams)

(Councillor Laurie Hockaday)

(Councillor Gary Williams)

(Councillor Tiffany Taylor)

(Councillor Shane Taylor)

(Councillor Arnold Taylor)

(Councillor Deborah Jacobs)

(Councillor Ted Coppaway)

(Councillor Lorenzo Whetung)

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Section 1: Introduction and Overview

Greater Peterborough Area Climate Change Action Plan

In 2014, the Greater Peterborough Area's (GPA) member communities joined more than 250 other communities across Canada to address climate change through participation in the Partners for Climate Protection (PCP) program aimed at reducing GHG emissions from both municipal/First Nation corporate operations and community sources.

As part of the PCP program, the Climate Change Action Plan sets a course to reduce local contributions to climate change and prepare communities for present and expected changes that will occur as a result of climate change. This plan represents an integrated approach to dealing with some of the most important issues related to the sustainability of our diverse region. The overall objective of the CCAP is to reduce our greenhouse gas emissions through a reduction in fossil fuel use and lowering our energy consumption, and to better prepare for our changing climate. The Plan identifies strategies, actions, and emission reduction targets that fit with and address the needs of each municipality and First Nation within the GPA. This regionally coordinated approach will ensure that we act together to safeguard the health of our residents and ensure the stability of our local economic and natural resources against impacts related to climate change.

Climate Change Vision

In 2010, the GPA embarked on an exciting journey – the development of an Integrated Community Sustainability Plan, coined *Sustainable Peterborough*. Within the Sustainable Peterborough Plan, climate change was identified as one of the eleven key theme areas of focus. Each community of the GPA is working together to collectively achieve the following vision, as originally identified as the climate change goal in the Sustainable Peterborough Plan:

We will reduce our contributions to climate change while increasing our ability to adapt to climate change conditions.

Curve Lake First Nation's Community and Corporate Action Plans

Chapter 12 of the CCAP includes Curve Lake First Nation's Community (Section 2) and Corporate (Section 3) Action Plans. Both of these build on the overarching components outlined in the main CCAP, but provide greater detail specific to Curve Lake First Nation. They both include the following:

- *Where are we now* – a brief discussion of community and corporate baseline GHG emissions.
- *Where do we want to go* – GHG emissions reductions targets for the community and corporation.
- *How are we going to get there* – actions that the community and corporation will take to achieve its emissions reduction targets.

Section 2: Community Action Plan

Where are we now?

In 2011, 4,032 tonnes of CO_2e were emitted by Curve Lake First Nation community. Based on this projected growth for Curve Lake First Nation, community emissions are expected to grow to 5,220 tonnes of CO_2e by 2031 if nothing is done to reduce GHG emissions. For further details on Curve Lake First Nation's baseline community emissions (PCP Milestone 1), please see the Appendix attached to this chapter entitled *Curve Lake First Nation - Community Emissions*.

Where do we want to go?

Curve Lake First Nation community is aiming to achieve a 15% reduction in its GHG emissions from the 2011 baseline by 2031. This is equivalent to 605 less tonnes of CO_2e emitted per year by 2031, which would put Curve Lake First Nation's community emissions at 3,427 tonnes of CO_2e per year by 2031 compared to the current 4,032 tonnes per year.

How are we going to get there?

The following section details the strategies and actions that Curve Lake First Nation will use to achieve its community GHG emissions reduction target. Further detail on specific strategies are provided in the main *Climate Change Action Plan* document; however, a number of strategies are also unique to Curve Lake First Nation community, in honour of their culture, traditions, way of life, and traditional ecological knowledge.

Curve Lake First Nation

Curve Lake First Nation's Climate Change Action Plan will focus on the local changes observed by community members over the years that may impact both the way of life and quality of life at Curve Lake.

The Plan will take into consideration the impacts that climate change will have on the land, the people, and their livelihoods. It will be brought to life through stories and storytelling, as told by key figures in the community. Examples of how climate change has already begun to impact the quality of life at Curve Lake First Nation include for example, no longer being able to use ice road crossings and use teachings of maple syrup in ceremony.

The Plan will address the issues of concern that the severity and frequency of extreme weather events that are being witnessed in weather patterns is most definitely affecting the Anishinaabe people's way of life. The Plan will also connect to the Curve Lake First Nation's Community Energy Plan and will enable Curve Lake to apply for further funding opportunities.

Our Water

Where are we now?

Over the course of a decade Curve Lake First Nation has strived to provide community members with clean drinking water. They are forced to advise residents to boil their water on a monthly, if not weekly basis. Curve Lake First Nation sits on a peninsula, surrounded by lake water on three sides, affecting the quality of groundwater and drinking water.

How are we going to get there?

Strategy 1: Improve Quality of Drinking Water		
	Mitigation impact: indirect	Adaptation impact: direct
Primary Action	When resources become available, develop a water treatment facility that would provide the community with access to clean and safe drinking water.	
Supporting Actions/Policies	• Install water hydration station(s) with large container fill up points for Community members who would no longer have to travel to purchase water or have it brought to them; • Focus on responding to the need for a continual source of water standardized for all uses, including drinking water; • With improvements made to the quality of drinking water the quality of life of community members will improve; and • Businesses could grow with increased access to clean water because a lack of access has been limiting the opportunity for manufacturing plants and business investment within the community.	
GHG Emission Reduction Potential	Impacts on GHG emissions nominal	

Strategy 2: Access to Water		
	Mitigation impact: indirect	Adaptation impact: direct
Primary Action	Ensure access to water for community use.	
Supporting Actions/ Policies	• Lack of rain and increasingly hot weather during summer months are causing local wells to dry up; • With improved technologies, aim to resolve the issue of infiltration of septic systems; • Educate Band Members on the need to keep their well heads clean and clear of polluting uses to ensure clean water; and • Promote water conservation and education.	
GHG Emission Reduction Potential	Impacts on GHG emissions nominal	

Our Natural Assets

Where are we now?

With an increase in the severity and frequency of extreme weather events Curve Lake First Nation must be prepared to respond to a changing climate in order to become more resilient. Trees act as carbon sinks; retrieving carbon dioxide from the atmosphere and releasing oxygen.

"Trees are very much part of the surroundings and ultimately they become part of us and who we are" - Doug Williams, Minaajim: Good Stories from Curve Lake First Nation

How are we going to get there?

Strategy 3: Shoreline Preservation and Restoration	
	Mitigation impact: direct Adaptation impact: direct
Primary Action	Preserve and restore shorelines especially on lands where development is close to the shoreline.
Supporting Actions/ Policies	• Focus on ecological health/improvement of the local watershed; • Allow for the creation of a floodplain management plan, flood monitoring and forecasting systems to mitigate and adapt to the impacts of climate change; and • Plant native species along shorelines and property edge to restore and protect bank from erosion, degradation, and ice damage.
GHG Emission Reduction Potential	Impacts on GHG emissions reduction for tree planting

Strategy 4: Impact of Loss of Ice Roads	
	Mitigation impact: indirect Adaptation impact: direct
Primary Action	Allow for the discussion surrounding community ability to cope with specific climate related struggles such as an unreliable winter ice road that provides members with access to the mainland.
Supporting Actions/ Policies	• Record memories shared by elders about the general changes they have witnessed with use of and loss of ice roads overtime; and • Discuss how these stories may relate to scientific knowledge about climate change.
GHG Emission Reduction Potential	Impacts on GHG emissions nominal

Strategy 5: Impact of Loss of Ice and Ice Fishing		
	Mitigation impact: indirect	Adaptation impact: direct
Primary Action	Allow for discussion surrounding community ability to cope with specific climate related struggles such as a loss of ice and various impacts to ice fishing.	
Supporting Actions/ Policies	• Record memories shared by elders about the general changes they have witnessed with use of and loss of ice and impacts to ice fishing; and • Discuss how these stories may relate to scientific knowledge about climate change.	
GHG Emission Reduction Potential	Impacts on GHG emissions nominal	

Our Buildings

Where are we now?

Greenhouse gases are emitted from buildings where energy is used for lighting, heating and cooling. It is important that measures be taken within all buildings to reduce greenhouse gases.

How are we going to get there?

Strategy 6: Ensure High Environmental Performance for New Builds		
	Mitigation impact: direct	Adaptation impact: indirect
Primary Action	New buildings should be built with energy efficiency in mind and to have a smaller environmental impact than their predecessors.	
Supporting Actions/ Policies	• Plan for high performance measures in all new buildings, including energy efficiency, water conservation, renewable energy, net-zero or passive buildings; and • Seek funding wherever possible with Utilities incentives.	
GHG Emission Reduction Potential	Impacts on GHG emissions reduction for energy efficiency	

Our Energy

Where are we now?

To effectively combat and adapt to a changing climate Curve Lake First Nation will strive to lower their energy consumption. Energy efficiency will help to reduce the amount of greenhouse gas emissions created by the community and create greater reassurance from severe price increases for energy. The development of a Community Energy Plan would allow Curve Lake First Nation to use best-practices to manage their energy. The plan would encompass all actions that follow and help to improve the quality of life of community members.

How are we going to get there?

Strategy 7: Investigate more Viable Rural Heating Based Technologies		
	Mitigation impact: direct	Adaptation impact: direct
Primary Action	Investigate alternative heating technologies for all building types.	
Supporting Actions/ Policies	• Research rural heating based technologies such as generator oil when new technology emerges that will help to reduce greenhouse gas emissions; and • Seek external funding wherever possible.	
GHG Emission Reduction Potential	Potential GHG emissions reduction for heating efficiency	

Strategy 8: Explore use of Net-Metering		
	Mitigation impact: direct	Adaptation impact: direct
Priority Action	Explore the use and viability of net-metering for all buildings.	
Supporting Actions/ Policies	• Research availability and viability of net-metering for all buildings; • Ensures that community members are only charged for the amount of net energy they use in a given time period; • Works alongside solar photovoltaic installations; and • Credit is given for storing energy in the grid and any excess put back into the grid.	
GHG Emission Reduction Potential	Potential GHG emissions reduction for energy efficiency	

Our Waste

Where are we now?

The production of waste in homes and buildings contributes to greenhouse gas emissions.

How are we going to get there?

Strategy 9: Septic Remediation		
	Mitigation impact: indirect	Adaptation impact: direct
Primary Action	Explore the potential for a septic remediation pilot project to fund the replacement or retrofit of compromised septic systems.	
Supporting Actions/ Policies	• Create a fund to provide access to financial assistance, up to a maximum of say $8,000 in the form of a grant or low interest loan, for members who need to replace, or make repairs to their aging or improperly functioning, existing septic systems; • Address the environmental effects and public health and safety issues associated with improperly functioning individual, onsite wastewater systems (septic systems); and	

Strategy 9: Septic Remediation	
	• In best interest of the entire community to ensure that the land and water is protected and healthy.
GHG Emission Reduction Potential	Impacts on GHG emissions nominal

Our Traditional Ecological Knowledge and Awareness

Where are we now?

Retaining traditional ecological knowledge and First Nations cultural heritage, education and awareness will play a key role in helping to maintain quality of life for community members while they adapt to a changing climate.

How are we going to get there?

Strategy 10: Create Gardens for Sacred Medicines and to Support Pollinators	
	Mitigation impact: indirect Adaptation impact: direct
Primary Action	Develop gardens for Sacred Medicines, grow local food, and support pollinators.
Supporting Actions/ Policies	• Create and maintain giving gardens that will help to provide understanding and awareness of medicinal plants and herbs; • Encourage installation of gardens across Curve Lake First Nation responding to the steep decline of pollinators such as bees, butterflies, and birds; and • Work with Peterborough Pollinators for support and recognition.
GHG Emission Reduction Potential	Impacts on GHG emissions nominal

Strategy 11: Promote Teaching Opportunities Especially for Traditional Ecological Knowledge	
	Mitigation impact: indirect Adaptation impact: direct
Primary Action	Create teaching opportunities for Traditional Ecological Knowledge, especially those related to climate change.
Supporting Actions/ Policies	• Teach children about Traditional Ecological Knowledge, providing opportunities for Elders to share their knowledge; • Encourage Curve Lake First Nation to hold regular symposiums that will focus on sharing climate change knowledge; • Symposiums will engage participants of all ages, including youth leaders and elders, to share the knowledge they possess with regards to climate change adaptation and mitigation; • Experts and individuals who are knowledgeable on the subject will also be invited to participate;

Strategy 11: Promote Teaching Opportunities Especially for Traditional Ecological Knowledge	
	• Hoping to reach a wide audience and encourage the attendance of all community members; • Introduce school-age children to the issues of climate change through Planet Protector Academy, empowering students to lead the change within their lives, especially at home; and • Expand Planet Protector Academy program by adding the waste reduction and water segments, as they become available.
GHG Emission Reduction Potential	Impacts on GHG emissions nominal

Strategy 12: Loss of Maple Syrup		
	Mitigation impact: indirect	Adaptation impact: direct
Primary Action	Preserve and protect maple trees and local production of maple syrup.	
Supporting Actions/ Policies	• Continue to educate community members on the importance of maple syrup and its central role in ceremony, powwows, and social visiting in First Nation culture.	
GHG Emission Reduction Potential	Impacts on GHG emissions nominal	

Our Food

Where are we now?

Supporting the production, growing, and use of local foods in Curve Lake First Nation will play a key role in helping to maintain the quality of life for community members while they adapt to a changing climate.

How are we going to get there?

Strategy 13: Creation of a Food Cooperative		
	Mitigation impact: indirect	Adaptation impact: direct
Primary Action	Explore the creation of a food cooperative to share food with local residents.	
Supporting Actions/ Policies	• Create and maintain a food cooperative program to highlight the importance of food sharing in First Nation culture; • Take extra food from personal gardens to the food cooperative; • Exemplified in the "Giveaway" (or miinidiwag) which is the custom of giving away what one has to those who do not have; and • Remembering to always express gratitude to the Creator for what is being received and for the land and creatures that offer themselves and their gifts to the First Nation way of life.	
GHG Emission Reduction Potential	Impacts on GHG emissions nominal	

Section 3: Corporate Action Plan

Where are we now?

In 2011, 357 tonnes of CO_2e were emitted by Curve Lake First Nation Band Administration Offices. Based on this projected growth for Curve Lake, Band Administration emissions are expected to grow to 426 tonnes of CO_2e by 2031 if nothing is done to reduce GHG emissions. For further details on Curve Lake First Nation's baseline Band Administration emissions (PCP Milestone 1), please see the Appendix attached to this chapter entitled *Curve Lake First Nation - Corporate Emissions*.

Where do we want to go?

Curve Lake First Nation Band Administration is aiming to achieve a 15% reduction in its GHG emissions from the 2011 baseline by 2031. This is equivalent to 64 less tonnes of CO_2e emitted per year by 2031, which would put Curve Lake First Nation's Band Administration emissions at 293 tonnes of CO_2e per year by 2031 compared to the current 357 tonnes per year.

How are we going to get there?

The following section details the strategies and actions that Curve Lake First Nation will use to achieve its corporate GHG emissions reduction target. Further detail on specific strategies are provided in the main Climate Change Action Plan document; however, a number of strategies are also unique to Curve Lake First Nation Band Administration, in honour of their culture, traditions, way of life, and traditional ecological knowledge.

Our Natural Assets

Where are we now?

Curve Lake First Nation is the Earth, the Earth is Curve Lake First Nation and therefore it is important to be prepared and respond to a changing climate in order to become more resilient with an increase in the severity and frequency of extreme weather events.

How are we going to get there?

Strategy 14: Natural Heritage Protection and Preservation	
	Mitigation impact: direct Adaptation impact: direct
Primary Action	Develop a natural heritage protection and preservation program to ensure that culturally significant species are maintained and protected.
Supporting Actions/Policies	• Develop a Natural Heritage Protection Plan to ensure the protection and enhancement of culturally significant species, including but not limited to native wild rice; • Develop a tree planting program and replacement program to ensure a sustainable tree canopy for future generations, that will promote vegetation, as well as species that are hardy with the changing climate, and allow for community support through volunteering;

Strategy 14: Natural Heritage Protection and Preservation	
	• Educate the community on the significance and the value of the Natural Heritage Protection Plan, ensuring that community members are aware of the plan; • Ensure wild rice farmers are in tune with protection of the wild rice; • Encourage the use of tree species that help with the heating/cooling effect of surrounding areas; and • Plant a diverse range of local species to ensure sustainability with a changing climate.
GHG Emission Reduction Potential	Potential GHG emissions reduction for tree planting

Our Buildings

Where are we now?

Greenhouse gases are emitted from buildings where energy is used for lighting, heating and cooling. It is important that measures be taken within all buildings to reduce greenhouse gases.

How are we going to get there?

Strategy 15: Promote Energy Efficiency and Low Carbon Thinking	
	Mitigation impact: direct Adaptation impact: indirect
Primary Action	Promote energy efficiency and low carbon thinking by creating policy and embedding within daily operations.
Supporting Actions/ Policies	• Promote and embed energy efficiency and low carbon options in daily operations, within Band operated buildings and across all departments; and • Seek funding wherever possible with SaveOnEnergy and Utility incentives.
GHG Emission Reduction Potential	Potential GHG emissions reduction for energy efficiency

Strategy 16: Improve Environmental Performance of Existing Buildings and Equipment	
	Mitigation impact: direct Adaptation impact: indirect
Primary Action	Improve environment performance of existing buildings and equipment.
Supporting Actions/ Policies	• Allow for the delivery of energy retrofit programs for Band operated buildings; • Improve the efficiency and environmental performance of buildings and equipment by right sizing, installing Building Automation Systems, retrofitting or replacement, optimize, high performance lighting such as LED, installing solar applications, and so on;

Strategy 16: Improve Environmental Performance of Existing Buildings and Equipment	
	• Also consider building envelope, drainage, rainwater conservation, low impact development; • Commission buildings or conduct energy audits; and • Seek funding wherever possible with SaveOnEnergy and Utility incentives.
GHG Emission Reduction Potential	Potential GHG emissions reduction for energy efficiency

Our Transportation

Where are we now?

Curve Lake First Nation relies on personal vehicles as their only source of travel since there is no public transit. Carpooling and a coordinating service enable residents to travel to the City of Peterborough for appointments, goods and services. Residents walk and bike throughout the local community.

How are we going to get there?

Strategy 17: Explore a Rural Bus Service	
	Mitigation impact: direct Adaptation impact: indirect
Primary Action	Consider a rural bus service that helps to reduce the reliance on singular occupancy vehicles.
Supporting Actions/ Policies	• Allow for the creation and implementation of an Active Transportation Plan incorporating public transit, cycling, pedestrians and carpooling as methods to reduce greenhouse gas emissions; • Seek funding wherever possible to offset initial costs and ongoing operations and maintenance; and • Work collaboratively with neighbouring Townships, County of Peterborough, and City of Peterborough towards a joint service to minimize costs.
GHG Emission Reduction Potential	Potential GHG emissions reduction for rural bus service

Strategy 18: Anti-Idling Campaign and Policy	
	Mitigation impact: direct Adaptation impact: indirect
Primary Action	Develop an Anti-Idling Campaign and Policy for Band vehicles.
Supporting Actions/ Policies	• Allow for the creation and implementation of an anti-idling campaign and policy that will reduce the amount of harmful greenhouse gas emissions released by vehicular traffic.
GHG Emission Reduction Potential	Potential GHG emissions reduction for anti-idling campaign and policy

Strategy 19: Transition Band Vehicles to be More Fuel Efficient		
	Mitigation impact: direct	Adaptation impact: indirect
Primary Action	Allow for the creation and development of an asset replacement program that supports the transition of vehicles to be more fuel efficient and less carbon emitting.	
Supporting Actions/ Policies	• Explore the feasibility of Electric Vehicles (EV) and installation of EV charging station(s) in Curve Lake First Nation; and • Favour new energy efficient technologies as they arise.	
GHG Emission Reduction Potential	Potential GHG emissions reduction for fuel efficiency	

Strategy 20: Enhance Pathways for Pedestrians and Cyclists		
	Mitigation impact: direct	Adaptation impact: indirect
Primary Action	Develop pathways, sidewalks, and trails for pedestrians and cyclists.	
Supporting Actions/ Policies	• Encourage use of any existing infrastructure that would allow for the easy transition on methods of transportation that reduce the reliance on vehicular traffic and the production of fuel emissions; and • Continued maintenance and replacement of sidewalk or pathway infrastructure when necessary.	
GHG Emission Reduction Potential	Potential GHG emissions reduction for increased modes of active transportation	

Strategy 21: Pavement Infrastructure Replacement Policy		
	Mitigation impact: indirect	Adaptation impact: direct
Primary Action	Create a plan to track and monitor pavement and hardtop infrastructure.	
Supporting Actions/ Policies	• Create and develop a pavement replacement policy to ensure adequate life cycle values that will take into consideration the relationship with climate change; and • For example, increased temperature variability and products no longer lasting the duration they were once assigned.	
GHG Emission Reduction Potential	Impacts on GHG emissions nominal	

Our Energy

Where are we now?

To effectively combat and adapt to a changing climate Curve Lake First Nation will have to work to lower their energy consumption. Energy efficiency will help to reduce the amount of greenhouse gas emissions created by the community and create greater reassurance from severe price increases for energy. The development of an Energy Management Plan would allow Curve Lake First Nation to use best-practices

to manage their energy. The plan would encompass all actions that follow and help to improve the quality of life of community members.

How are we going to get there?

Strategy 22: Community Energy Plan (CEP)		
	Mitigation impact: direct	Adaptation impact: indirect
Primary Action	Develop a Community Energy Plan.	
Supporting Actions/ Policies	• Develop a Community Energy Plan for Curve Lake First Nation Community using best practices, lessons learned, and new technology; • Use successful examples from other communities where possible; and • Seek funding for the study, which upon completion, may open up further funding opportunities for implementation.	
GHG Emission Reduction Potential	Potential GHG emissions reduction for energy efficiency	

Strategy 23: Solar-Ready Housing Stock Policy		
	Mitigation impact: direct	Adaptation impact: indirect
Primary Action	Create a policy to ensure that all future housing stock is solar-ready.	
Supporting Actions/ Policies	• Explore the feasibility of creating a solar-ready housing stock strategy that would ensure all future housing stock is solar-ready – as it is much cheaper to do while the building is being constructed as opposed to afterwards; and • Possibility to be modelled based on existing strategies created and used by the Chippewa's of Rama First Nation.	
GHG Emission Reduction Potential	Potential GHG emissions reduction for energy efficiency	

Strategy 24: Develop a Green Team		
	Mitigation impact: direct	Adaptation impact: direct
Primary Action	Develop a staff Green Team made up of local champions to consider opportunities for greening operations.	
Supporting Actions/ Policies	• Curve Lake First Nation's Environment and Climate Change Committee to work on greening their operations.	
GHG Emission Reduction Potential	Depending on local action, some greenhouse gas reductions may occur	

Strategy 25: Make Existing Building Stock Energy Efficient		
	Mitigation impact: direct	Adaptation impact: indirect
Primary Action	Make existing building stock more energy efficient.	
Supporting Actions/ Policies	• Conduct energy audits on existing buildings to locate opportunities and efficiencies;	

Strategy 25: Make Existing Building Stock Energy Efficient	
	• Install occupancy sensors on all Band operated buildings; • Explore the feasibility of installing building automated systems for heating and cooling; • Replace all lighting with LED or energy efficient lighting; • Replace appliances with only Energy Star rated appliances; • Explore the feasibility of implementing a program or policy that shuts off all computers at the end of the work day; and • Shut off all appliances, printers, and radios at the end of each day.
GHG Emission Reduction Potential	Potential GHG emissions reduction for energy efficiency

Strategy 26: Support Solar Photovoltaic Projects		
	Mitigation impact: direct	Adaptation impact: indirect
Primary Action	Support the installation of solar projects where possible and feasible.	
Supporting Actions/ Policies	• Allow for the creation, development and implementation of a solar photovoltaic paneling pilot project on Band operated buildings where it is feasible to do so; and • Seek funding wherever available.	
GHG Emission Reduction Potential	Potential GHG emissions reduction for energy efficiency	

Strategy 27: Upgrade all Street and Parking Lot Lighting to LED		
	Mitigation impact: direct	Adaptation impact: indirect
Primary Action	Upgrade all street and parking lot lighting to LED.	
Supporting Actions/ Policies	• Install LED lighting in areas that are considered popular by community members and where there is heavy public traffic; • Upgrade any and all existing street and parking lot lighting with energy efficient lighting; and • Seek funding wherever possible.	
GHG Emission Reduction Potential	Potential GHG emissions reduction for energy efficiency	

Our Waste

Where are we now?

The production of waste in homes and buildings contributes to greenhouse gas emissions. Curve Lake First Nation needs to reduce the amount of waste they generate, diverting materials to reduce, reuse, recycle, and compost.

How are we going to get there?

Strategy 28: Enhance Waste Diversion	
	Mitigation impact: direct Adaptation impact: indirect
Primary Action	Investigate opportunities to reduce waste through diversion programs.
Supporting Actions/ Policies	• Explore the opportunity to add a Household Hazardous Waste Collection Service to the Waste Transfer Station or formalize an agreement with the County of Peterborough and the Township of Trent Lakes to use the existing Buckhorn Transfer Station as it is not currently included in the contract; • Research the feasibility of implementing a clear bag identification strategy for all residents, businesses, and Band buildings to identify that all materials are being put in the correct waste stream; • Continue to create and share recycling and promotional material with all members of the community; • Research the viability of adding additional recycling programs where markets exist for electronics, batteries, tires, construction demolition materials, and so on; and • Partnership could be explored with the County of Peterborough Buckhorn Transfer Station.
GHG Emission Reduction Potential	Potential GHG emissions reduction for waste reduction