

LANARK COUNTY COMMUNITY CLIMATE ACTION TABLE

Guiding Principles								
1. Create a climate conscious culture and community								
2. Eliminate fossil fuels								
3. Optimize energy/water efficiency and increase renewable energy generation								
4. Advance the use of nature based solutions in climate change management								
5. Sustainably manage waste towards a circular economy								
6. Collaborate with community stakeholders								
7. Increase funding, accessibility, and education								
THEME	#	GOAL	RECOMMENDED APPROACH	POTENTIAL BENEFITS	COST AND FUNDING SOURCE	PERSON OR DEPARTMENT RESPONSIBLE	APPROXIMATE TIMEFRAME FOR COMPLETION	EXPECTED GHG REDUCTION
1. Transportation	1.1	Increase electric vehicle uptake and local charging infrastructure for public access	Contract companies to install chargers on public streets, and municipal buildings or property to increase public access to charging Launch an educational campaign for electric vehicles that encourages vehicle owners to take advantage of electric vehicle subsidy programs	Reduce fossil fuels, increase electric vehicle uptake	Medium; Provincial gas tax and NRCan Zero Emission Vehicle Infrastructure Program	County and local municipalities	Short-term	Direct; Medium
	1.2	Electrify municipal and community fleet vehicles as part of their replacement cycle	Partner with Lanark Transportation Association to electrify fleet Encourage local municipalities to take advantage of electric vehicle subsidy programs	Reduce fossil fuels, increase electric vehicle uptake	NRCan Zero Emission Vehicle Infrastructure Program	Climate and Environmental Department; partner with Lanark Transportation	Mid-term	Direct; High
	1.3	Explore the use of low-carbon fuels (e.g., biodiesel blends) in suitable municipal fleet vehicles	Connect with municipalities who use biodiesel as a means to reduce greenhouse gas emissions (e.g., City of Brampton, York Region, Guelph, Kingston etc.) Combine local municipalities' procurement needs for biodiesel for use in heavy-duty diesel fleets	Reduce fossil fuels	TBD	County and local municipalities	Mid-term	Direct; Medium
	1.4	Develop an Active Transportation Master Plan as part of the Official Plan	Encourage active transportation (i.e., walking and cycling) by coordinating and expanding accessible trails, comfortable walking routes, safe pedestrian crossing, and cycling infrastructure such as connecting trails and paved shoulders Facilitate policy changes to create 15-minute communities that are less car-dependent than conventional subdivisions Partner with school boards to create walking school bus program	Reduce fossil fuels, improve public health and accessibility	Medium; Public Works	Public Works, Planning Department, CAO, partner with local public health unit	Long-term	Indirect; Low
	1.5	Reduce single occupancy automated vehicle trips by providing local transit, carpooling and ridesharing solutions suitable for rural communities	Investigate and plan to adopt innovative public transit systems that are being implemented in similar small towns and rural communities Launch a county-wide carpool program that also encourages carpooling by promoting and strengthening the local carpool lot network	Reduce fossil fuels, improve accessibility	TBD	CAO, Climate and Environmental Department; partner with Lanark Transportation	Long-term	Direct; Medium
	2.1	Develop and support the delivery of a local home energy retrofit program	Investigate and develop a municipally led financing program for deep energy retrofits Organize energy retrofit training sessions and workshops for contractors and residents Update the list of energy efficiency programs on the county website Expand the existing Insulate Lanark program	Reduce fossil fuels, increase energy efficiency, reduce costs, improve home comfort, increase participation in programs and incentives	High; GMF (home energy retrofit program) and CC budget, Canada Greener Homes Grant	Climate and Environmental Department, Climate Network Lanark, CAO	Long-term	Direct; High

2. Buildings & Energy			Establish neighborhood action networks to advise homeowners on actions they can take to improve the energy efficiency of their homes					
	2.2	Launch a campaign to increase energy/water retrofits within the industrial, commercial, and institutional sector	Raise awareness of available funding opportunities for energy/water retrofits	Reduce fossil fuels, increase energy efficiency, reduce costs, increase participation in programs and incentives	Low; County Resources	Climate and Environmental Department	Short-term	Direct; High
	2.3	Establish green building standards that enforce climate resilient and adaptive building designs to increase energy efficiency	Provide incentives and/or recognition to builders and building owners for achieving high performing energy and water efficiency standards	Reduce fossil fuels, reduce energy cost, stakeholder and community engagement	Medium; Canada Greener Homes Grant, CC budget	Climate and Environmental Department	Mid-term	Indirect; High
			Stimulate the development of high performance new building construction towards net-zero					
	2.4	Encourage ground mount solar photovoltaics (PV) developments where suitable (for net metering and microgrids) and solar thermal for domestic hot water use	Identify underutilized municipal and private lands that could be suitable for ground-mounted solar PV (e.g., large parking lots, industrial/business parks, brownfields)	Reduce fossil fuels, reduce energy costs, increase renewable energy generation	None	County and local municipalities	Long-term	Direct; High
Connect with local renewable energy co-ops for financing and local investment opportunities								
2.5	Explore opportunities to utilize other renewable fuel sources and technologies where feasible	Engage and provide information to citizens on renewable fuel sources and technologies they can utilize Explore cooperative purchasing approaches to procure a regional supply of renewable natural gas (RNG)	Reduce fossil fuels	None	Climate and Environmental Department	Long-term	Indirect; High	
3. Natural Heritage & Resources	3.1	Increase the managed forested area and tree canopy within Lanark County	Collaborate with local municipalities to create an urban forest/reforest strategy (1 Million Trees Program) and/or a tree preservation policy	Sequester carbon, protect natural resources, increase forest cover, improve public health and access to greenspace, improve biodiversity	Medium; CC budget and local municipal budgets	Climate and Environmental Department, County Planner and local municipalities; Partner with RVCA	Mid-term	Indirect; Medium (carbon offsets)
	3.2	Conduct studies to determine and protect the carbon sequestration and climate resilience value of wetlands, greenspaces and other naturalized areas within the County	Support the identification, protection, restoration and creation of wetlands	Sequester carbon, protect natural resources, improve biodiversity, preserve and/or improve ecosystem services	Medium; CC budget, Public Works budget	Climate and Environmental Department, County Planner and local municipalities; Partner with RVCA, MVCA Ducks Unlimited, Climate Network Lanark, The Land Between, Lake Associations, Canadian Wildlife Federation, ALUS	Mid-term	Indirect; Medium
			Work with local Conservation Authorities, NGOs, and lake associations to protect watershed health (e.g., through promotion of stewardship practices, water resources management, hazard mitigation, land-use planning, and drinking water source protection)					
Promote backyard pollinator habitat creation with native plants to protect native biodiversity and store carbon in the soil								
3.3	Include the use of green infrastructure and natural heritage to serve local needs as the County continues to develop	Protect and restore areas that have high carbon sequestration and biodiversity values by providing funding and resources to support local organizations committed to supporting landowner stewardship (e.g., ALUS Lanark)	Work with local municipalities, Indigenous Peoples, agencies, NGOs and others to map, assess, protect, restore, manage and monitor natural heritage systems where a key approach is to strengthen related land use policies and practices	Sequester carbon, protect natural resources, restore degraded land, improve landscape connectivity, prevent carbon loss from land use change, improve biodiversity, improve climate	None	Climate and Environmental Department, County planner, local municipalities; partner with The Land Between	Mid-term	Indirect; Low

	4.4	Advance combined heat and power in anaerobic waste and water treatment facilities (WWTF)	Explore the feasibility of utilizing biogas fuelled combined heat and power systems for energy use on site in WWTF	Reduce fossil fuels, renewable fuel	None	Climate and Environmental Department and local municipalities	Long-term	Indirect; Low
5. Planning	5.1	Incorporate community stakeholders in climate adaptation planning	Consult with Indigenous communities on future revisions of the Asset Management Plan to incorporate natural assets (e.g., watersheds, wetlands, forests)	Better preparedness for the future, increased transparency, inclusivity and consideration	None	Climate and Environmental Department, Planning Departments of the County and local municipalities, CAO, community stakeholders	Long-term	Indirect; Low
			Establish a strategy to create an inclusive adaptation plan that captures Lanark County's risks and vulnerabilities to climate change (e.g., health, food security/sovereignty, environmental hazards, improved land-use, safety measures)					

LEGEND

Cost and Funding Source

Low < \$10,000
 Medium \$10,000 - \$100,000
 High > \$100,000

Approximate Timeframe for Completion

Short-term 1-2 years
 Mid-term 3-6 years
 Long-term 7-10 years

DEFINITIONS

GMF = Green Municipal Fund
 CC budget = climate change budget
 CAO = Chief Administrative Officer
 Direct = directly reduces greenhouse gases (measurable)
 Indirect = indirectly reduces greenhouse gases (not measurable)

LEED = Leadership in Energy and Environmental Design
 ALUS = Alternative Land Use Services
 RVCA/MVCA = Rideau Valley/Mississippi Valley Conservation Authority
 TBD = To be determined