

**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	START TIME	APPROXIMATE TIMEFRAME FOR COMPLETION	KEY PERFORMANCE INDICATORS	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	High; NRCan Zero Emission Vehicle Infrastructure Program (ZEVIP), Lanark County EV Fund	Climate and Environmental Department and local municipalities	2024	Mid-term	- # of stations installed - Engagement data - Charging station usage data -# of municipalities utilizing funding	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	High; Incentives for Zero-Emission Vehicles (iZEV) Program, GMF Capital Funding	Climate and Environmental Department; partner with Lanark Transportation	In progress; 2023	Long-term	-# of new electric vehicles -# of municipalities utilizing funding	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 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	Climate and Environmental Department and local municipalities	In progress; 2023	Mid-term	- Completion of feasibility study - # of participating vehicles -# of liters procured/used	Direct; Medium
	1.4	Update the Transportation Master Plan to include active transportation	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 Budget	Public Works, Planning Department, CAO, local municipalities, partner with health unit	2024	Long-term	- km of trails - km of paved shoulders - # of policies/plans updated	Indirect; Low
			Reduce single occupancy automated vehicle trips by providing local transit, carpooling and ridesharing solutions suitable for rural communities	Establish a Transportation Working Group to 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	High; Gwir (Energy, Transportation, Water, Waste and Land Use), Infrastructure Canada Rural Transit Solutions Fund	CAO, Climate and Environmental Department; partner with Lanark Transportation	In progress; 2023	Long-term	- Development of working group - Community Carpool website data
			Investigate and develop a municipal loan or municipally led financing program for deep energy retrofits  Organize energy retrofit training sessions and workshops for contractors and residents	Reduce fossil fuels, increase energy efficiency		Climate and			- Funding secured/allocated - Launch of program	

2. Buildings & Energy	2.1	Develop and support the delivery of a local home energy retrofit program including those offered by partner non-profits and private companies	Update the list of energy efficiency programs on the county website  Establish neighborhood action networks to advise homeowners on actions they can take to improve the energy efficiency of their homes	Increase energy efficiency, reduce costs, improve home comfort, increase participation in programs and incentives	High; GMF Capital Funding, County Budget, CC Budget	Climate and Environmental Department, Climate Network Lanark, CAO	In progress; 2023	Long-term	- Launch of program - # of participants - # of trainings supported - # of homeowners engaged	Direct; High
	2.2	Establish 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; CC Budget	Climate and Environmental Department	2025	Short-term	-# of businesses and industries engaged -# of retrofits completed	Indirect; High
	2.3	Establish green building standards that enforce climate resilient and adaptive building designs to increase energy efficiency and reduce greenhouse gas emissions	Provide incentives and/or recognition to builders and building owners for achieving high performing energy and water efficiency standards  Stimulate the development of high performance new building construction towards net-zero	Reduce fossil fuels, reduce energy cost, stakeholder and community engagement	Medium; CC Budget	Climate and Environmental Department, Planning Department, Local municipal planners, partner with Lanark Leeds Home Builders Association and developers	TBD	Mid-term	- Development of green building standards	Indirect; High
	2.4	Encourage solar photovoltaics (PV) developments where suitable (for net metering and microgrids) and solar thermal for domestic hot water use	Identify underutilized county, municipal, or private lands and buildings that could be suitable for solar PV (e.g., large parking lots, industrial/business parks, brownfields)  Connect with local renewable energy co-ops for financing and local investment opportunities	Reduce fossil fuels, reduce energy costs, increase renewable energy generation, increase climate resiliency	Medium; GMF Capital Funding	Climate and Environmental Department, Planning Department, local municipalities, partner with IESO and HydroOne	2025	Long-term	- Completion of feasibility study - # of areas identified	Direct; High
	2.5	Explore opportunities to utilize other renewable energy sources and technologies	Engage and provide information to citizens on renewable fuel sources and technologies they can utilize  Explore approaches to procure or supply a regional supply of renewable energy (e.g., renewable natural gas (RNG), solar, wind)	Reduce fossil fuels	Medium; GMF Capital Funding	Climate and Environmental Department	2024	Long-term	- Completion of feasibility study - # of people engaged	Indirect; High
	3.1	Increase the managed forested area and tree canopy within Lanark County	Collaborate with local municipalities to create an urban forest/reforest strategy (e.g., 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, local municipal budgets, Federal Two Billion Trees Program	Climate and Environmental Department, County Planner and local municipalities; Partner with RVCA and MVCA	In progress; 2020	Mid-term	- Area of managed forest - # of trees planted - Development of strategy and/or policy	Indirect; Medium (carbon offsets)
3.2	Protect the carbon sequestration and climate resilience value of wetlands, greenspaces, and other naturalized areas within the County	Work with local municipalities, Indigenous Peoples, agencies, NGOs and others to identify, map, assess, protect, restore, manage and monitor natural heritage systems (i.e., wetlands, forests, lakes, etc.) where a key approach is to strengthen related land use policies and practices  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	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, AHS	In progress; 2023	Ongoing	- # of acres protected - # of acres restored - # of people engaged - # of ALUS projects supported	Indirect; Medium (carbon offsets)	

3. Natural Heritage & Resources			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)							
	3.3	Include the use of green infrastructure and natural heritage to serve local needs as the County continues to develop	Encourage urban design and redevelopment approaches that incorporate natural systems and green infrastructure into site improvements, greenspaces, and stormwater management	Sequester carbon, protect natural resources, restore degraded land, improve landscape connectivity, prevent carbon loss from land use change, improve biodiversity, improve climate change mitigation, preserve and/or improve ecosystem services	Medium; CC Budget, local municipal budgets, GMF Capital Funding	Climate and Environmental Department, County planner, local municipalities; partner with The Land Between and Ducks Unlimited Canada	2026	Ongoing	- # of sites with green infrastructure	Indirect; Low
	3.4	Allow cooperative farming and community gardening on suitable County-owned lands and encourage local farms to produce more food for local consumption	Encourage local farms to produce more food for local consumption by advocating for funding and municipal by-laws that support local food storage infrastructure, abattoirs, food processing, and on-farm slaughter  Identify County, municipal, and private lands available for cooperative farming and community gardening	Produce local food for local consumption, reduce food transportation emissions, increase accessibility to local food, farmer engagement	Low; CC Budget	Climate and Environmental Department, CAO, partner with local organizations	2026	Ongoing	- # of sites established - # of people engaged	Indirect; Low
	3.5	Promote the adoption of sustainable livestock and crop management practices	Advance ecological agriculture practices and sustainable livestock management practices through some form of public-private partnership  Explore options to provide training and/or agronomic consultation  Seek and support financial supports for farmers to invest in no-till agriculture equipment	Sequester carbon, protect natural resources, restore degraded land	Low; CC Budget	Climate and Environmental Department; partner with agricultural organizations	2026	Long-term	- #of farmers engaged - # of participants trained	Indirect; Medium
	3.6	Promote biogas energy recovery for use in aerobic digestion - combined heat and power (AD-CHP) systems on farms	Explore the creation of a biogas farmers cooperative and other strategic partnerships that aim to increase education and affordability of implementing these types of systems	Sequester carbon	Low; CC Budget	Climate and Environmental Department, partner with farmers and Canadian Biogas Association	2026	Long-term	- Completion of feasibility study	Indirect; Low
	4.1	Identify sustainable solid waste and recycling solutions for municipalities	Conduct a waste audit that includes all organic materials and recyclables and evaluates greenhouse gases produced in the <u>transportation of materials to the waste sites</u>  Divert municipal solid waste from landfills by investigating waste conversion or recycling solutions such as Sustane Technologies Inc.'s proposal to build a facility in Renfrew County  <u>Launch a soft plastics recycling system</u>  Explore recycling programs for renewable technology components at the end of their life (e.g solar panels, batteries)	Divert solid waste and recyclables from landfills, reduce methane production, sustainable waste management, community engagement	Medium; local municipal budgets, CC Budget, GMF Capital Funding	Climate and Environmental Department, CAO, local municipalities	2025	Long-term	- Completion of local municipal waste audits - Amount of waste diverted -# of participants in recycling program	Direct; Medium
			Explore opportunities to improve organic waste diversion and provide compost and resources to residents, businesses, farmers, and other stakeholders (e.g., fungal dominant compost, biochar, yard waste, scrap wood)							

4. Waste Management & Diversion	4.2	Optimize organic waste diversion	Promote online platforms that allow residents, farmers, and businesses to connect with people in Lanark County who will receive and compost their organic waste (e.g., Sharewaste)	Divert organic waste from landfills, reduce methane production, community engagement, reduce municipal costs	Medium; CC Budget, local municipal budgets, GMF Capital Funding	Climate and Environmental Department, local municipalities	In progress; 2023	Ongoing	- Tonnes of organic waste diverted - # of participating municipalities	Direct; Medium
			Create a unifying plan for organic waste management systems that benefits from a large reach/bulk buying and that promotes additional household organic waste management systems (e.g., Pay As You Throw)							
			Broker food rescue partnerships between social organizations, farms, and food industries through organizations such as Second Harvest, which also offers funding							
	4.3	Explore utilizing organic waste and treated biosolids for third party renewable natural gas (RNG) production	Identify regional opportunities for Lanark County municipalities to participate in RNG production	Reduce fossil fuels, renewable fuel	Low; CC Budget	Climate and Environmental Department, local municipalities, partner with Enbridge	2024	Long-term	- Completion of feasibility study	Indirect; Medium
	4.4	Advance combined heat and power in anaerobic waste and water treatment facilities	Explore the feasibility of utilizing biogas fuelled combined heat and power systems for energy use on site in WWTF	Reduce fossil fuels, renewable fuel	Low; local municipal budgets, CC Budget, GMF Capital Funding	Climate and Environmental Department and local municipalities	2026	Long-term	- Completion of feasibility study	Indirect; Low
5. Planning	5.1	Incorporate climate change into County and municipal plans	Consult with Indigenous communities on future revisions of Asset Management Plans to incorporate natural assets (e.g., watersheds, wetlands, forests)	Better preparedness for the future, increased transparency, inclusivity and consideration	Medium; County Budget, CC Budget, FCM (Municipal Asset Management Program)	Climate and Environmental Department, Planning Departments of the County and local municipalities, LCAO, RVCA, MVCA, community stakeholders	2024	Long-term	- Number of County and municipal plans revised with climate change as a consideration	Indirect; Low
			Update Emergency Plans to include protocols for major natural disasters and weather events (i.e., evacuation routes, shelter locations)							
			Develop a strategy to create an inclusive adaptation plan that captures risks and vulnerabilities to climate change (e.g., health, food security/sovereignty, environmental hazards, improved land-use, safety measures)							

LEGEND	
<b>Cost and Funding Source</b>	<b>Approximate Timeframe for Completion</b>
Low < \$10,000	Short-term 1-2 years
Medium \$10,000 - \$100,000	Mid-term 3-6 years
High > \$100,000	Long-term 7-10 years
	On-going 10 years+

DEFINITIONS	
GMF = Green Municipal Fund	
FCM = Federation of Canadian Municipalities	LGLDHU = Leed, Grenville & Lanark District Health Unit
CC budget = climate change budget	ALUS = Alternative Land Use Services
CAO = Chief Administrative Officer	RVCA/MVCA = Rideau Valley/Mississippi Valley Conservation Authority
EV = Electric Vehicle	ZEVIP = Zero Emission Vehicle Infrastructure Program
Direct = directly reduces greenhouse gases (measurable)	TBD = To be determined
Indirect = indirectly reduces greenhouse gases (not measurable)	iZEV= Incentives for Zero-Emission Vehicles