

TAY VALLEY TOWNSHIP CLIMATE ACTION PLAN

CHAPTER 5

5.1 ACTION PLAN OVERVIEW

5.2 CORPORATE ACTION PLAN

POTENTIAL MUNICIPAL (CORPORATE) ACTIONS

This is not intended to be a comprehensive list of all actions that Tay Valley Township should or could take in its municipal operations. This is a list of actions that were recommended by the community in consultations or were recommended by staff and the Green Energy and Climate Change Working Group or that are in development in other jurisdictions.

(“The results of the scenario builder should be understood as high-level estimates, rather than a forecast of future emissions. The scenario builder models a very complex system that can be impacted by many variables, meaning that there is considerably uncertainty in the outputs of the model, and municipalities should use caution when reporting the results. Nonetheless, the results are robust and can provide useful guidance to municipal policy-makers developing a climate action plan.”)

GOALS	POTENTIAL ACTIONS	LEAD	PARTNERS	STATUS AND TIMING	GHG	AVOIDANCE POTENTIAL	COST
					At 2018 (teCO2/yr.)	At 2028 (teCO2/yr.)	

CORPORATE OPERATIONS							
Enable cutting of Greenhouse Gas emissions from Municipal Operations	Adopt the Climate Action Plan which lays out some specific (mandatory) steps to launch the process and a						

	set of possible actions that require further research and action						
	Adopt the Qualitative Climate Lens	TVT Planner	Clean Air Partnership, Partners for Climate Protection	In development as a high-level checkbox system for assessing a municipal action in regard to mitigation, adaptation, and other environmental concerns such as effects on natural systems. A pilot project planned for trial implementation in Q1 2020. (City of London, Ont. example). Focus on simplicity and transparency			
	Adopt the Quantitative Climate Lens developed by Bob Argue	TVT Planner	Green Energy and Climate Change Working Group	A Climate Lens to calculate the Greenhouse Gas emissions associated with any project considered by TVT. Present to Council in April 2020			
	Revise the mandate of the Green Energy and Climate Change Working Group to review, recommend,	TVT Planner		Bring forward revised Terms of Reference in 2020			

	and prioritize, with the assistance of staff, climate action priorities for Council's consideration, and to identify new opportunities.						
	Continuously scan for changes in energy costs and supply*	TVT Treasurer	TVT Public Works Manager	Begin 2020			
	Identify and evaluate the Municipality's change management strategy for receptivity to climate change*	TVT Planner	TVT Staff	Begin 2020			
	Assess Greenhouse Gas emissions from any work-related flights taken by Council or staff and assign carbon offset funds to Township Greenhouse Gas reduction projects+	TVT Treasurer		Begin 2020			
	Add bookkeeping capacity to make transparent and report any fees on eCO2. Monitor carbon fees as a means to help determine the value of activities+	TVT Treasurer		Budget 2021-22			
	Require all bidders to report Greenhouse Gas	TVT Public Works Manager	FCM	Educate bidders 2020-2021			

	emissions in tenders, using the Quantitative Climate Lens or a similar lens from their industry associations*						
	Monitor for changes to policies governing municipal investments that allow for divestment of municipal funds from fossil fuels and avoidance of risk to taxpayers+	TVT Treasurer		Begin 2020			
	Integrate the Climate Action Plan with the Building Condition Assessment Report, the Asset Management Plan, and the Conservation and Demand Management Plan+	TVT Climate Coordinator, TVT Public Works Manager	TVT Treasurer	Conservation and Demand Management Plan – May 2020 Asset Management Plan – August 2020 Building Condition Assessment Report – August, 2020			
PUBLIC COMMUNICATIONS							
Enable public action to cut Greenhouse Gas emissions*+	Budget for and secure partners to deliver and fund an ongoing Communications Strategy that motivates community climate actions by residents, businesses, and	TVT Council	Lanark County, neighbouring municipalities, Lanark, Leeds and Grenville District Health Unit, Climate Action Network of Lanark County,	Begin 2020			

	community organizations*+		Smiths Falls and Region				
WASTE							
Cut Greenhouse Gas emissions from landfill and yard waste pile*+	Conduct a comprehensive waste audit that includes organic materials and evaluates Greenhouse Gases produced by residents travelling to the waste sites +	TVT Public Works Manager	Green Energy and Climate Change Working Group, Lanark County, AET, colleague lower-tier municipalities	Waste audit included in 2021 budget			
	Investigate and assess options for eliminating organic waste in landfill including working with Lanark County and neighbouring municipalities*	TVT Public Works Manager	Province of Ontario, Lanark County, neighbouring municipalities	Provincial ban on organic materials to landfills starting in 2022			
	Expand materials to be recycled and increase recovery rates+	TVT Public Works Manager	Province of Ontario, Lanark County, neighbouring municipalities	Ontario moving to Extended Producer Responsibility beginning 2023			
	Set goal to reduce all waste, eliminate organic materials from landfill and develop a plan modeled on circular economy and Zero Waste principles*	TVT Public Works Manager	Province of Ontario, Green Energy and Climate Change Working Group, Lanark County, neighbouring lower-tier municipalities	Provincial ban on organic materials to landfills starting in 2022 Ontario moving to Extended Producer			

				Responsibility beginning 2023			
BUILDINGS							
Minimize energy consumption and Greenhouse Gas emissions of Municipal buildings+	Assess any new construction, renovation, or maintenance for its potential opportunity to reduce Greenhouse Gases and operating costs of the Municipal Office with the intent to reduce heating and cooling load and convert mechanical systems from natural gas to electricity+*	TVT Public Works Manager	TVT Treasurer, TVT CAO, Green Energy and Climate Change Working Group	Three possible suppliers contacted. Integrate with Asset Management Plan, Building Condition Assessment Report and Conservation and Demand Management Report			
	Assess any new construction, renovation, or maintenance for its potential opportunity to reduce Greenhouse Gases and operating costs of all other Municipal buildings	TVT Public Works Manager	TVT Treasurer, TVT CAO, Green Energy and Climate Change Working Group	Integrate with Asset Management Plan, Building Condition Assessment Report and Conservation and Demand Management Report			
	Continue lighting retrofit projects	TVT Public Works Manager	Hydro One	As programs are available			
Generate revenue to offset costs through net metering*	Assess and implement a net metering program to reduce Greenhouse Gas emissions from	TVT Public Works Manager	Green Energy and Climate Change Working Group	Integrate with Asset Management Plan and Building Condition Assessment Report			

	electricity consumption and to generate revenue to offset costs by installing solar PV with appropriate buildings*						
FLEET & ROADS							
Cut Greenhouse Gas emissions from the fleet*	Assess current fleet and any new potential purchases by type of use/size for lowest costs and Greenhouse Gas emissions*+	TVT Public Works Manager	Green Energy and Climate Change Working Group, TVT Treasurer, TVT Planner, Lanark County	Revise Procurement Policy, Integrate with Asset Management Plan			
Cut Greenhouse Gases emitted as a consequence of road materials*	Evaluate roadbed materials for Greenhouse Gas emissions*	TVT Public Works Manager	Province of Ontario, neighbouring municipalities, Lanark County				
MUNICIPAL WORKPLACE							
Enable and educate Council and staff to act on cutting Greenhouse Gas emissions*	Educate Council and staff to facilitate carpooling, employee switching to electric vehicles (EVs) and removing organics and plastics from waste stream*+	TVT Planner	All Staff				
	Install electric vehicle charger(s)*	TVT Public Works Manager	Staff				
	Install bike racks*	TVT Public Works Manager	TVT Clerk	To be completed in Main Street funding in 2020			

- * Recommended in community consultations
- + Recommended by Green Energy and Climate Change Working Group, Staff

POTENTIAL COMMUNITY ACTIONS

This is not intended to be a comprehensive list of all actions that Tay Valley Township can promote to or assist its residents and businesses to take. This is a list of actions that are in development in other jurisdictions, that were recommended by the community in consultations or were recommended by staff and the Green Energy and Climate Change Working Group.

GOAL	POTENTIAL ACTIONS	LEAD	PARTNERS	STATUS & TIMING	GHG	AVOIDANCE POTENTIAL	COST
					At 2018 (teCO2/yr.)	At 2028 (teCO2/yr.)	
TRANSPORTATION							
Cut Greenhouse Gas emissions from transportation within the community*	Support the national transition to electric and hydrogen vehicles with education*	Green Energy and Climate Change Working Group, Council	Government of Canada, Industry, Clean Air Partnership, Lanark County, neighbouring municipalities	Funding programs expected in Federal Budget, 2020			
	Support and exploit opportunities to facilitate installation of electric vehicle chargers	TVT Planner	TVT Public Works Manager, Green Energy and Climate	Federal funding programs open in 2020			

	in the community and workplaces		Change Working Group				
	Assess and develop systems that support public and shared transit opportunities. Assess for development: - an online ride sharing system* - car share programs - a microtransit system+ - the existing Lanark Transportation bus system+ - park & ride+ - specific opportunities to support seniors - measures from the Rural Transportation Issues and Options for Lanark County Report+	TVT Planner, Green Energy and Climate Change Working Group	Lanark County, neighbouring municipalities, Community organizations including the Climate Action Network, ecoPerth ride share, (Cancer Society, Rideau Home Supports)	Begin 2020			
	RENEWABLE ENERGY						
Cut Greenhouse Gas emissions by increasing the supply of renewable energy	Support the adoption of renewable energy such as solar, wind and water generation by Tay Valley residents, businesses and organizations	TVT Planner, Green Energy and Climate Change Working Group	Lanark County, neighbouring municipalities, local suppliers and builders	Begin 2020			
	Smart Grid? What would you like to do about this?						

	Advocate for Hydro One to reduce local grid constraints to enable net billing and interactive smart grid operation.	TVT Planner	Green Energy and Climate Change Working Group, Council	Begun in 2019, ongoing			
	Advocate for Virtual Net Billing which would enable renewable generation investment and net billing by Tay Valley residents despite grid constraints, and which would improve net billing economics.	TVT Planner	Green Energy and Climate Change Working Group, Council	2020			
Cut Greenhouse Gas emissions from the local electricity supply, create local electricity grids and improve the resilience of the local electricity grid*	Promote, advocate and support efforts to create microgrids for the Lanark County area*	Green Energy and Climate Change Working Group, TVT Planner	Lanark County, neighbouring lower-tier municipalities	Local effort to analyze viability of microgrid with 30 customers begun in 2020			
	Advocate for federal and provincial regulations to allow residents to sell or trade clean power to the grid individually or through co-ops and microgrids*	TVT Planner	Green Energy and Climate Change Working Group,	Begin 2020			
HOUSES & SMALL BUSINESS BUILDINGS							
Cut emissions from homes and small business buildings in the community*+	Develop a Home and Small Business Building Energy program with financing	TVT Planner, Clean Air Partnership, Green Energy and	FCM, AMO, HRAI, IESO, City of Toronto, Lanark County, Lanark	Expression of interest submitted Dec. 2019 for pilot 3 rd Party Residential Retrofit			

	capacity and the possibility of making bulk purchases of equipment to increase efficiency, convert fossil fuel heating to electric air and ground source heat pumps, add solar PV, solar hot water, net metering+*	Climate Change Working Group	County Social Services, Smiths Falls, REAL, Home-Sol, LL Home Builders Assoc., City of Kingston, Hydro One, Enbridge, Greensaver	Program to support loans to residents and businesses to retrofit buildings for GHG reduction. Planned for delivery in 2021. Other municipal models in development include Kingston. Local audit programs and solar companies are available. Various financial support programs exist, including support from Lanark County for low-income retrofits.			
	Encourage the development of training for local businesses and personnel in the delivery, installation and maintenance of low- and no-carbon systems such as heat pumps and PV systems.	TVT CAO	Algonquin College, Leeds and Grenville Home Builders Association, local businesses	Begin 2020			
	Adopt LEED, Passive House, Green Development Standards and methods that evaluate embodied	TVT Planner	Toronto and Hamilton Planners and CBOs, Association of Low-Carbon Builders	When more widely available to other municipalities			

	Greenhouse Gases in construction materials when they become available +						
AGRICULTURE AND FOOD SECURITY							
Cut Greenhouse Gas emissions from agriculture and increase soil sequestration of carbon dioxide by farms*	Support and promote farm organizations that engage their members in Greenhouse Gas reductions and sequestering of carbon dioxide*+	TVT Planner, Climate Action Network of Lanark County, Smiths Falls and Region,	NFU, EFAO, OFA and Lanark County Agriculture Committee	Climate Action Network establishing Alternative Land Use Services (ALUS) in Lanark County with target launch 2021. NFU/EFAO Soil Benchmark Study underway involving two Lanark County farmers			
	Assess support for and advocate for reversal for expansion of natural gas pipeline and services in Eastern Ontario*	TVT Council	Lanark County, Eastern Ontario Wardens Caucus, Ontario government	2021			
	Investigate methane collection, capture and use on farms and supply streams including residential compostables*	TVT Public Works Manager, Green Energy and Climate Change Working Group	NFU, EFAO, Lanark County Agriculture Committee	2021			
	Promote less waste of food	TVT Planner	Province of Ontario, The Table	2021			

	Encourage local farms to produce more food for local consumption	TVT Planner	NFU, EFAO, Lanark County Agriculture Committee	2021			
NATURAL SYSTEMS							
Increase the sequestration of carbon dioxide in local natural systems*	Facilitate planting of 10,000 trees/year, incentivize personal commitment to plant 10 trees/person/year*	TVT Planner	Lanark County, Mississippi Valley Conservation, Rideau Valley Conservation Authority, Green Energy and Climate Change Working Group, Climate Action Network of Lanark County, Smiths Falls and Region	Conservation Authorities Tree Planting program, with support from Lanark County, 2020. Lanark County tree seedling sales begin 2020			
	Institute an incentive program to encourage home food production, conversion of lawns to natural spaces and/or food gardens using the model of the Minnesota bee friendly lawns*	Green Energy and Climate Change Working Group	Climate Action Network of Lanark County, Smiths Falls and Region	Begin 2021			
	Develop a Natural Heritage System Plan for Tay Valley Township which implements Dr. Paul Keddy's Lanark County Green Gems project*+	TVT Planner	MNRF, Lanark County, Green Energy and Climate Change Working Group, Lanark County, Climate Action Network of Lanark County, Smiths Falls and Region	Initial steps taken in 2019 by TVT Council and Staff, and Climate Action Network of Lanark County, Smiths Falls and Region Natural Systems group.			

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- * Recommended in community consultations
- + Recommended by Green Energy and Climate Change Working Group, staff