

Draft Community Strategies

Theme: Buildings

Objective: Energy Conservation in Buildings

To prioritize energy conservation by building cleaner more efficient buildings, retrofitting existing structures, creating indoor spaces that are more comfortable for residents while ensuring policies are equitable and reduce energy poverty across our communities.

Context:

In the 2018 baseline inventory the buildings accounted for 65% of community energy consumption and 24% of all emissions. In the business as usual scenario buildings are projected to account for 64% of energy consumption and 21% of emissions by 2030, and 59% of energy consumption and 18% of emissions by 2050.

List of Strategies:

- Strategy #1: Residential Building Energy Efficiency Retrofit Program
- Strategy #2: Commercial Building Energy Efficiency Retrofit Program
- Strategy #3: Industrial Energy Efficiency
- Strategy #4: Green Standard for New Buildings
- Strategy #5: Energy Efficiency Education and Awareness Program

Strategy #1: Residential Building Energy Efficiency Retrofit Program	
Description of Strategy, Policy, Program	<p>Develop and implement a voluntary energy retrofit program for existing residential buildings that addresses energy conservation, energy efficiency, and greenhouse gas emissions. A complete energy performance package will consider building energy efficiency holistically and establish a hierarchy of measures for implementation (i.e. insulation, weather stripping, furnaces and boilers, double/triple pane windows, thermal controls). The program will also include solar photovoltaics and the use of air and ground source heat pumps where appropriate.</p> <ul style="list-style-type: none">• Investigate financing models and develop a financing package considering the use of incentive-based programs, reducing municipal fees in return for retrofit completion and use of Local Improvement Charges that allow building owners to take a loan from the municipality and pay it back through the property tax bill. The loan is tied to the property and is therefore carries over to any new owner along with the energy efficiency benefits until the loan has been paid in full.• Identify target building types (i.e. single-detached homes, town or row houses, and multi-unit residential buildings) starting with older and less efficient homes. Create a tiered system that prioritizes low-income households.

Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Create a page on Grey’s website that provides information on all available retrofit programs in Grey County. • Create a robust marketing campaign to ensure residents are aware of the program. • Continuously monitor and review the program to ensure sustainability and effective delivery. • Continue to advocate for energy retrofit support from provincial and federal governments • Apply for funding to develop the detailed business plan • Identify key partners to design the program with (i.e. utilities, neighbouring municipalities) and seek opportunities for integration with existing programs (for example, Enbridge Home Retrofit Program which offers low-income packages as well). • Identify a lead at the County or municipal level that will be responsible for program administration which includes: program design, detailed business plan development, promotion, applicant screening, securing start-up funding, contract development and negotiation with energy contractors, and building a pre-qualified list of energy contractors. • Establish auditing requirements and list of eligible energy efficiency measures. • Support local colleges so that trades relevant to these programs are developed, to encourage job growth that meets future demand. • Train contractors to competitively deliver the program
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Reduces energy costs; Improves property values. Generates local economic activity and jobs through increased demand for energy contractors and equipment suppliers.
Potential Lead(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Affordable Housing Task Force, Housing Department, Planning and Development)
Potential Partner(s)	Enbridge Westario Hydro One Bruce Power Member Municipalities Deep energy retrofit specialists Energy contractors Neighbouring municipalities Housing Non-Profits Grey Bruce Sustainability Network
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe	Medium Term

(Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	
Funding Opportunities	Green Municipal Fund: Study - Improve an existing local financing program for home energy upgrades Green Municipal Fund: Capital project - Retrofit of community projects Green Municipal Fund: Study - Retrofit of community projects

Strategy #2: Commercial Building Energy Efficiency Retrofit Program	
Description of Strategy, Policy, Program	<p>Develop and implement a voluntary energy retrofit program for existing residential buildings that addresses energy conservation, energy efficiency, and greenhouse gas emissions. A complete energy performance package will also consider building energy efficiency holistically and establish a hierarchy of measures for implementation (i.e. insulation, weather stripping, mechanical systems, double/triple pane windows, thermal controls). The program will also include solar photovoltaics and the use of air and ground source heat pumps where appropriate.</p> <ul style="list-style-type: none"> • Investigate financing models and develop a financing package considering the use of incentive-based programs, reducing municipal fees in return for retrofit completion and use of Local Improvement Charges that allow building owners to take a loan from the municipality and pay it back through the property tax bill. The loan is tied to the property and is therefore carries over to any new owner along with the energy efficiency benefits until the loan has been paid in full. • Identify target building types (i.e. single-family homes, town or row houses, MURBS) and priority neighbourhoods starting with older and less efficient homes. • Consider updating Community Improvement Plans (CIP) to include a grant for energy efficiency upgrades as an incentive for smaller business owners.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Continuously monitor and review the program to ensure sustainability and effective delivery. • Review uptake and effectiveness of energy efficiency incentive in current CIP as well as CIP budget allowance. • Continue to advocate for deep energy retrofit support from provincial and federal governments • Apply for funding to develop the detailed business plan • Identify key partners to design the program with (i.e. utilities, neighbouring municipalities) and seek opportunities for integration with existing programs. • Identify a lead department/agency or partner that will be responsible for program administration which includes: program design, detailed business plan development, promotion, applicant screening, securing start-up funding, contract development and negotiation with energy contractors, and building a pre-qualified list of energy contractors.

	<ul style="list-style-type: none"> Establish auditing requirements and list of eligible energy efficiency measures. Train contractors to competitively deliver the program
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Reduces energy costs; Improves property values; creates local economic activities and jobs through increased demand for energy contractors and equipment suppliers.
Potential Lead(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Culture, Tourism and Economic Development Department, Planning and Development)
Potential Partner(s)	Westario Hydro One Enbridge Bruce Power Member Municipalities Deep energy retrofit specialists Energy contractors and equipment suppliers Grey Bruce Sustainability Network Business Improvement Areas Chamber of Commerce
Relative Cost Characterization	See strategy #1
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Medium Term
Funding Opportunities	Green Municipal Fund: Capital project - Retrofit of community projects Green Municipal Fund: Study - Retrofit of community projects

Strategy #3: Industrial Energy Efficiency	
Description of Strategy, Policy, Program	Facilitate implementation of industrial energy efficiency best practices such as energy audits, energy management systems standards, energy management information systems, benchmarking and employee awareness.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> Promote and leverage existing programs and funding streams such as: Canadian Industry Partnership for Energy Conservation (CIPEC); Energy Star; ISO 5001; Superior Energy Performance; Ontario SaveON Energy Programs; IESO Industrial Accelerator Program; Enbridge Industrial Custom Solutions and Incentives Program; ecoEnergy Efficiency for Industry. Educate on the benefits of combined heat and power systems and encourage adoption where appropriate.

	<ul style="list-style-type: none"> Establish best practice networks to support knowledge exchange and capacity building.
Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	Cost savings because of efficiency improvements, improved ambient air quality
Potential Lead(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Culture, Tourism and Economic Development Department, Planning and Development)
Potential Partner(s)	Member Municipalities CFDCs Local industries Energy managers and experts IESO
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	NA

Strategy #4: Green Standard for New Buildings	
Description of Strategy, Policy, Program	Develop and implement a voluntary regional green development standard with incentives to encourage above building code energy performance in new buildings using absolute performance targets or a sustainable/green development checklist. Consider adopting a net-zero building code that requires new buildings to be net-zero ready by 2030. Absolute performance targets include targets for total energy use, thermal energy demand intensity, and GHG intensity and allow flexibility in how developers choose to meet these targets.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> Establish internal green development standard (GDS) lead team/committee consisting of representatives across relevant municipal departments. Consider adapting GDS from other communities in Ontario (Toronto, Whitby, Halton Hills). Create value proposition, vision, goals, guiding principles, business case and terms of reference for the project. Establish how the GDS will align with existing plans and be integrated into the overall planning processes.

	<ul style="list-style-type: none"> • Develop metrics and indicators for different building types based on stakeholder consultation. • Provide tools, resources, pathways for how developers can meet standards such as guidelines and standards for the use of air or ground source heat pumps, solar readiness, EV charging and district energy readiness if applicable.
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Can include other environmental and adaptation benefits such as water conservation, stormwater management, green roofs, green space, urban forests, bike parking, EV charging, native species, and pollinator habitat
Potential Lead(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Culture, Tourism and Economic Development Department, Housing Department, Planning and Development)
Potential Partner(s)	Westario Hydro One Enbridge Bruce Power Member municipalities Local developers Ontario Home Builders Association Georgian Triangle Development Institute Grey Bruce Sustainability Network
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Medium Term
Funding Opportunities	NA

Strategy #5: Energy Efficiency Education and Awareness Program	
Description of Strategy, Policy, Program	Develop a County led energy efficiency education and awareness program across all sectors for property owners and tenants.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Establish a resource web page directing residents, businesses and industry to a range of available energy efficiency grants and rebates available through third parties, and energy conservation checklist and guidelines for how to save energy in the home through behavioural change. • Provide resources and training to developers and contractors on energy efficiency in building construction utilizing existing standards

	<ul style="list-style-type: none"> • Provide education to residents, businesses, industry and building owners on energy conservation • Consider disseminating energy saving pamphlets or brochures to residents and promoting energy conservation through social media channels. • Promote available rebate programs to property owners in the County, such as the Enbridge Home Efficiency Rebate and Save On Energy
Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	Reduces the amount residents and small business owners spend on energy, can increase indoor thermal comfort and air quality.
Potential Lead(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Economic Development, Tourism and Culture, Housing, Planning and Development)
Potential Partner(s)	IESO Westario Enbridge HydroOne Member Municipalities Windfall Home Energy Save On Energy Grey Bruce Sustainability Network Registered Energy Advisors
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	NA

Theme: Transportation

OBJECTIVE: Transition to Low-Carbon Transportation Modes

To transition Grey County's transportation sector to low-carbon vehicles and increase participation in active transportation modes, reduce emissions, increase air quality, and encourage healthy lifestyles while increasing connectivity and mobility amongst rural and urban spaces across the County.

Context

In the 2018 baseline inventory the transportation sector accounted for 34% of community energy consumption and 25.3% of all emissions. In the business as usual scenario the transportation

sector is projected to account for 37% of energy consumption and 25.6% of emissions by 2030 and is projected to account for 41% of energy consumption and 26.6% of emissions by 2050.

List of Strategies

Strategy #6: Rural Taxi Bus/Ride Share Program

Strategy #7: Municipally Owned Electric Vehicle Car Share Program

Strategy #8: Electric Vehicle Adoption

Strategy #9: Transportation Modal Shift (Active Transportation)

Strategy #6: Rural Taxi Bus/Ride Share Program	
Description of Strategy, Policy, Program	Expand rural to rural and rural to urban connectivity by increasing rural taxi bus services (numbers of days, times of day, ridership, geographic area) and promoting/developing available ride share programs.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Continue to support and monitor the existing Grey Transit Route (GTR) Service and assess opportunities for further expansion of the service. • Establish new and/or support existing ride share services, peer-to-peer car sharing and carpooling coordination services and/or clubs. • Following the recommendations of the 2014 Rural Transit Study, continue to improve coordination between existing transit providers using technology to coordinate rides and track buses such as through phone-based apps. • Assess the demand for an additional alternative transportation service such as a rural taxi bus that provides a public transit option connecting rural and urban areas to one another. Develop a detailed business case considering the costs and benefits of a demand responsive transit model with flexible routing and schedules versus a fixed route model during times of high demand. Identify potential partners such as existing mobility and transportation companies for delivery and operation of the service.
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Increasing mobility for low-income households who have limited access to private vehicles; Increase safety for rural residents; lessen rural isolation and improve connectivity of municipalities in the County; increase mobility for seniors and people living with disabilities who have limited access to private transportation
Potential Lead(s)	Grey County – Stephanie Stewart, Transportation Services, Economic Development
Potential Partner(s)	Member municipalities Home and Community Support Services of Grey-Bruce Ontario Ministry of Transportation Local mobility/transportation service providers/ <u>taxi services</u> Existing car share or car-pooling organizations/services
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000)

	<p>Medium Cost: \$\$ (100,00 - 500,000)</p> <p>High Cost: \$\$\$ (500,000+)</p>
<p>Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)</p>	Short Term
<p>Funding Opportunities</p>	<p>*Grey County has received funding from the Ministry of Transportation to improve transportation services for rural residents. Continue seeking funding through the Ministry's program to expand the existing GTR Service.</p> <p>*Hanover receiving 11 vehicles (8 vans and 3 buses) to the public transit fleet from funding through provincial and federal government.</p>

Strategy #7: Municipally Owned Electric Vehicle Car Share Program	
<p>Description of Strategy, Policy, Program</p>	<p>Consider developing an electric car share program owned and operated by the County or member municipalities, where electric vehicles are used throughout the weekday by municipal staff and then made available during evenings and weekends to residents to rent when the vehicles are not in use. Consider adopting program model developed by SAUVÉR currently running in 16 different municipalities in Quebec. Funding for a pilot project was provided through the Federation of Canadian Municipalities; key facts about the program can be accessed here.</p>
<p>Supporting Strategies / Enabling Components</p>	<ul style="list-style-type: none"> Identify potential partners for development and delivery of an app-based car share program, including neighbouring municipalities. Consider partnering with a business such as Propulsion Quebec to develop the SAUVÉR system, or similar type system, in Grey County. Apply for funding to develop a detailed business plan, aiming for the provision of the service to be revenue neutral. Implement a pilot program with a small number of vehicles to determine uptake and program effectiveness before scaling up
<p>Adaptation Co-Benefit</p>	NA
<p>Environmental, Economic, Social Considerations</p>	<p>Increasing mobility for low-income households who have limited access to private vehicles; increase safety for rural residents; lessen rural isolation and improve connectivity of municipalities in the County; increase mobility for seniors and people living with disabilities who have limited access to private transportation</p>
<p>Potential Lead(s)</p>	Grey County – Transportation Services, Stephanie Stewart
<p>Potential Partner(s)</p>	<p>Member municipalities</p> <p>Propulsion Québec</p>
<p>Relative Cost Characterization</p>	<p>N/A: Cost is covered by existing staff capacity or operating budgets</p> <p>Low Cost: \$ (0 - 100,000)</p> <p>Medium Cost: \$\$ (100,00 - 500,000)</p> <p>High Cost: \$\$\$ (500,000+)</p>

Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Medium Term
Funding Opportunities	NRCAN Zero Emission Vehicle Infrastructure Program FCM's Municipalities for Climate Innovation Program

Strategy #8: Electric Vehicle Adoption

Description of Strategy, Policy, Program	<p>Encourage the adoption of electric vehicles by transitioning Grey into an electric vehicle ready region through the installation of EV charging infrastructure and education about EVs.</p> <ul style="list-style-type: none"> • Install EV charging stations for public use at municipal owned facilities and parking lots. • Install preferred parking stalls for electric and low-emissions vehicles to encourage and reward uptake. • Encourage local business and institutions to encourage the adoption of EVs and low-emission vehicles in their corporate fleets. • Encourage the installation of EV charging stations at tourist destinations throughout Grey County. • Require all new developments to EV be ready as part of the Green Development Standard for buildings. • Promote third party organizations that provide educational programs related to EV adoption. • Create a landing page on the County's website with a map showing the EV charging stations located across the County and with links to resources related to EVs. • Provide incentives for car dealers to sell EV vehicles in the County
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Advocate for additional and continued EV infrastructure and support from upper levels of government such as charging stations along major highways and financial incentives for purchasing EVs and other low-emissions vehicles.
Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	Increasing air quality in the County which promotes better health for residents
Potential Lead(s)	Grey County – Transportation Services, Economic Development, Tourism and Culture
Potential Partner(s)	Member municipalities Plug n' Drive
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000)

	<p>Medium Cost: \$\$ (100,00 - 500,000)</p> <p>High Cost: \$\$\$ (500,000+)</p>
<p>Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)</p>	Near Term
Funding Opportunities	NRCAN Zero Emission Vehicle Infrastructure Program

Strategy #9: Transportation Modal Shift (Active Transportation)

Description of Strategy, Policy, Program	<p>Encourage active transportation and mode shifting from single occupancy vehicles within the County.</p> <ul style="list-style-type: none"> • Implement the recommendations from the 2020 Grey County Cycling Trails Master Plan to support active commuting and connectivity between member municipalities within the County. • Implement the recommendations from the 2019 Recreational Trails Master Plan. • Building on the the Grey Bruce Health Unit Complete Streets Policy and Implementation Guide implement upgrades to urban roadways to ensure streets are ‘complete’ and are designed for the use and safety of all road users, including pedestrians, cyclists, transit rides, and vehicles. • In collaboration with employers in Grey County promote and incentivize alternative transportation modes such as active transportation, carpooling, and telecommuting. • Install visually appealing and colourful bicycle racks at all municipally owned properties (Consider making the design a contest for residents, similar to the contest created in other communities).
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Regularly review the plan and assess opportunities for additional bike routes, paved shoulder upgrades, trail connectivity in particular between major community facilities, parks and green spaces, as well as additional bike lanes within settlement areas. • Continue to maintain sidewalks and pedestrian walkways that facilitate convenient, accessible, and safe pedestrian travel, ensuring sufficient road-crossings and signage to ensure pedestrian safety. • Continue to implement Grey County's Paved Shoulder Policy and ensure sufficient signage and wayfinding infrastructure is in place for cyclists and pedestrians. • Ensure the trail network includes signage throughout the system • Continue to promote and educate residents on active transportation such as through annual or monthly events. • Assess feasibility of and develop recommendations for winter maintenance to improve year-round access to bike and trail infrastructure.

Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	Encourages healthy lifestyles; creates safer roadways and trails
Potential Lead(s)	Grey County – Transportation Services, Planning and Development, Tourism
Potential Partner(s)	Member municipalities Grey Bruce Health Unit Outdoor outfitters and bicycle retailers Local cycling clubs and associations Local Police Forces CAA
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	Green Municipal Fund: Transportation Networks and Commuter Options

Theme: Waste

OBJECTIVE: Divert Waste from Landfills and Promote a Circular Economy

To collaborate with and support the member municipalities in their initiatives to divert waste from landfills, to establish innovative ways to create a circular economy in Grey, and work together with the community to sustainably manage our waste well into the future.

Context:

In the 2018 baseline inventory the waste accounted 6.3% of all emissions. In the business as usual scenario waste is projected to account for 6.7% of emissions by 2030 and 6.9% of emissions by 2050.

List of Strategies

Strategy #10: Re-Use It Center & Re-Build It Center

Strategy #11: Collaborate with Lower-Tier Municipalities to Support Waste Diversion

Strategy #12: Waste Reduction Education and Awareness Program

Strategy #10: Re-Use It Center & Re-Build It Center	
Description of Strategy, Policy, Program	Consider developing more Re-Use it/Re-Build it centres that accept donations of unwanted household items and discarded construction materials for resale. All proceeds can be used to fund community development and social services. (Consider successful models developed in other communities).
Supporting Strategies / Enabling Components	Develop a detailed business case for the development of a Re-Use It/ Re-Build It Centre, including identifying potential locations, partners, operating and governance models.
Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	Generates funds for community services Increases awareness of waste prevention Provides lightly used residential and construction materials at affordable prices
Potential Lead(s)	Grey County (Economic Development) Third-party organization (Community-led)
Potential Partner(s)	Member municipalities Community Foundation Grey-Bruce
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Medium Term
Funding Opportunities	Initial capital costs can be recuperated through sales at both facilities. Funding to program is not available.

Strategy #11: Collaborate with Member Municipalities to Support Waste Diversion	
Description of Strategy, Policy, Program	Collaborate with member municipalities to determine how the County can best support their waste diversion initiatives while encouraging resource sharing and other methods to manage waste collectively amongst all Grey municipalities.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Work to harmonize waste collection streams across member municipalities and support the collection of additional waste streams to divert waste from landfill (i.e. styrofoam densifiers, film plastic, mattresses, e-waste, etc.) <ul style="list-style-type: none"> ○ Assess options for organic waste diversion programs in local municipalities such as: encouraging backyard composting by providing education, resources and guidelines, and making backyard composters available for purchase from the municipality or recommending suppliers; consider curbside pickup, development of a centralized compost facility, and encouraging private sector organics

	<p>pickup and composting services (see Spa Hills Farm compost model in the Okanagan & Shushwap Region).</p> <ul style="list-style-type: none"> • Consider other community waste diversion programs and events such as curbside giveaway days, community garage sales, etc. • Regularly review the effectiveness of waste collection programs and implement changes to improve waste diversion regularly • Consider the use of clear bag or pay as you throw (PAYT) waste collection programs. Assess the feasibility of providing free bags for low-income families and individuals.
Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	Increasing the longevity of landfills in the County, reduces waste from entering wasteways
Potential Lead(s)	Member municipal waste departments Waste Management Companies
Potential Partner(s)	Grey County Farmers (composting actions)
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	NA

Strategy #12: Waste Reduction Education and Awareness Program	
Description of Strategy, Policy, Program	Work with local municipalities to develop a County-wide public education and awareness campaign to reduce waste and improve food literacy.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Develop an online resource webpage to educate residents and businesses on the benefits of waste prevention, the environmental impacts of waste, as well as best practices and guidelines for reducing waste, such as at home composting and existing waste diversion programs. • Consider distribution of waste education mailers to residents containing tips and best practices for reducing waste tailored to the context of each local municipality where necessary • Work with local businesses and companies to encourage waste reduction practices such as use of reusable containers for bulk food purchases, bans or fees for plastic bags. • Encourage the use of waste audits for businesses and institutions.

	<ul style="list-style-type: none"> Explore and encourage social enterprise models for waste reduction and diversion that create employment and generate economic, social and environmental benefits for the community (i.e. pickup of waste that can be repurposed or resold, commercial kitchens that use excess food from fruit and vegetable markets, workshops using repurposed materials etc.)
Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	<p>Prolongs the lifespan of the landfill and reduces costs to residents</p> <p>Reduces material flows and contributes to a circular economy</p>
Potential Lead(s)	<p>Grey County</p> <p>Lower-tier municipal waste departments</p>
Potential Partner(s)	Local businesses and institutions
Relative Cost Characterization	<p>N/A: Cost is covered by existing staff capacity or operating budgets</p> <p>Low Cost: \$ (0 - 100,000)</p> <p>Medium Cost: \$\$ (100,00 - 500,000)</p> <p>High Cost: \$\$\$ (500,000+)</p>
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	NA

Theme: Agricultural

OBJECTIVE: Supporting Grey’s Agricultural Community:

To prioritize the needs of farmers and provide support by developing resources and tools, leveraging funding for on-site projects and new technologies as well as recognizing the importance of a vibrant, sustainable, and healthy farming community to Grey now and into the future.

Context

In Grey County, farmers have long been community leaders and stewards of the land, feeding our communities, working hard to keep the land and soil healthy now and for future generations, and implementing new technologies and farming methods. In the 2018 baseline inventory the agricultural sector accounted for 44.3% of GHG emissions in the community. In the business as usual scenario emissions from the agricultural sector are projected to account for 46.7% by 2030 and 48.7% by 2050. The agricultural sector is in a unique position to address this challenge in that there are many opportunities to reduce and sequester emissions that can at the same time, benefit farmers themselves and the long-term sustainability of their farms. This represents an opportunity to not only mitigate to climate change but to work together to further farm prosperity by leveraging provincial and federal

funding, generate cost savings and emission reductions by improving on-farm efficiencies, explore sustainable ways to improve farm productivity, and demonstrate climate leadership.

List of Strategies

Strategy #13: Facilitate Capacity Building in the Agricultural Community

Strategy #14: Promote Biogas Capture and Conversion

Strategy #15: Energy Efficiency Retrofits for the Farming Community

Strategy #16: Agriculture Climate Adaptation Plan

Strategy #17: Promote Locally Grown Food

Strategy #13: Facilitate Capacity Building in the Agricultural Community	
Description of Strategy, Policy, Program	<p>Work with regional partner organizations to establish a capacity building network that delivers forums, training sessions, resources, and supports knowledge sharing amongst farmers in the County and beyond, which encourages the following:</p> <p>A. Continued efforts within the agricultural community to implement best practices in manure management and nutrient loss from livestock production systems, which should include but is not limited to:</p> <ul style="list-style-type: none"> I. <i>Improved manure collection and storage such as aerating stored manure, storing manure at lower temperatures, avoiding the use of straw as a manure substrate and using wood chips and other substrates that decompose less quickly.</i> II. <i>Manure deposition and application to reduce N2O emissions such as avoiding application on wet soils, reducing application of artificial fertilizers, shifting toward manure application earlier in the season when fields are most productive, add urease and nitrification inhibitors to manure to reduce nitrogen loss.</i> <p>B. Continued efforts within the agricultural community to implement best practices to improve the digestibility of feed, which should include but is not limited to:</p> <ul style="list-style-type: none"> I. <i>The selection of livestock to genetically improve the efficiency of food conversion, animal productivity, and reproductive efficiency.</i> II. <i>Enhancing forage quality and diet (more grains, legumes, and some fats) to reduce emissions and improve animal productivity.</i> III. <i>Implementing precision feeding, based on age, reproductive stage, and other considerations.</i> IV. <i>Adding ionophores to feed to reduce methane production. Ionophores are an antibiotic that targets specific bacteria in cattle digestive systems to reduce methane emissions.</i> V. <i>Mechanical and biological processing of food to improve feed digestibility.</i> <p>C. Continued efforts within the agricultural community to implement best practices to increase carbon sequestration in and storage in soil and farmland, which should include but is not limited to:</p>

	<p>I. <i>Enhancing cropland management, including crop selection and rotation, nutrient management, tillage/residue management, use of cover crops, and water management (including irrigation, drainage), use of technology to maximize crop efficiencies, agro-forestry, and integration of indigenous knowledge into farming practices</i></p> <p>II. <i>Restoration of degraded lands (using erosion control, organic amendments, nutrient amendments), conversion of marginal farmland to perennial grasses or trees, and restoration of wetlands</i></p> <p>III. <i>Improved quality of pasturing and enhanced cattle grazing through regenerative grazing practices to improve soil health and preserve grassland habitats</i></p> <p>IV. <i>Remaining informed through the capacity building network of the latest research and methodologies for the quantification of carbon sequestration through agriculture</i></p> <p>D. Continued efforts within the agricultural community to implement best practices to reduce the environmental impact of tile drainage on wetlands and water quality, which should include but is not limited to</p> <p>I. <i>On-farm water preservation</i></p> <p>II. <i>Controlled drainage management practices</i></p> <p>III. <i>Adapting fertilizer application to optimize productivity with environmental impact</i></p> <p>IV. <i>Recycling drainage water</i></p> <p>V. <i>Reintroduction of periodic tilling in no/low tillage systems to reduce runoff</i></p> <p>VI. <i>Develop in consultation and partnership with the conservation authorities and the agricultural community, County-wide tile drainage guidelines to protect wetland hydrology</i></p> <p>E. Completion of farm sustainability program applications (i.e. Canada-Ontario Farm Plan, OMAFRA nutrient management plans), as well as on-farm demonstration, pilot and research projects.</p>
<p>Supporting Strategies / Enabling Components</p>	<ul style="list-style-type: none"> • Create a best practices voluntary checklist for farmers to reference, that can be distributed during workshops and events. • Engage academic and government research institutions with specialization in agricultural to develop reference materials for farmers and on-site demonstration/research projects. • Identify and celebrate farmers currently implementing sustainable and regenerative farming practices • Educate municipal councillors, decision-makers and the public on current sustainable agricultural practices in the County through educational farm tours and farm appreciation days • Encourage youth involvement and interest in farming through delivering hands-on educational programs • Promote participation in Ecological Outcome Verification certification schemes

	<ul style="list-style-type: none"> • Promote participation in the Canada-Ontario Environmental Farm Program to encourage farmers to develop and Environmental Farm Plans and increase knowledge on mitigation best practices • Promote usage of Agriculture and Agri-Food Canada’s GHG emissions modeling tool to assist farmers in assessing their GHG emissions and exploring various farm management scenarios • Promote usage of OMAFRA best management practices tools such as NMAN and Nutrient and Manure Management Plans. • Advocate with other levels of government and the Canadian Agricultural Partnership (CAP) to bring funding to Grey County for an Agriculture Demonstrating Sustainability program which supports best management practices on farms as well as economic development. While not currently available in Grey, this program has been established in the Lake Erie and Lake St. Clair watersheds, known as The Lake Erie Agriculture Demonstrating Sustainability (LEADS), and is funded by CAP and the federal/provincial governments. • Assess the feasibility of improving telecommunication and internet infrastructure to allow use of more advanced computerized systems for farm management. • Encourage reduced pesticide use by educating farmers and landowners about pesticide use and its environmental impact. • Create a cross-promotional landing page with Grey Agricultural Services on the County website to disseminate resources and post networking/workshop events. • Advocate for the federal government to support carbon credits for farmers and develop a methodology for quantifying carbon storage in farmland soil. • Advocate for the provincial government to allow land use designations that recognize combined agricultural and natural area uses to allow for agroforestry and other sustainable farming practices that create economic diversification opportunities while creating and preserving natural assets • Create a position at the County for a coordinator to facilitate sustainability initiatives and liaise with the agricultural community
Adaptation Co-Benefit	Yes. Protection of waterways; increases resilience to climate impacts.
Environmental, Economic, Social Considerations	Preservation of wetlands and reduction of runoff that produces eutrophication (production of algae blooms as result of excess nutrients in wastewater and agricultural runoff); increased farm productivity and yields; provides cost-sharing opportunities; agri-tourism opportunities.
Potential Lead(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Economic Development, Tourism and Culture, Planning and Development) Grey County Federation of Agriculture Grey Agricultural Services
Potential Partner(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Agricultural Advisory Committee, Economic Development, Tourism and Culture, Planning and Development) Grey County Federation of Agriculture

	Grey Agricultural Services Georgian Soil and Crop National Farmer's Union (NFU) Christian Farmers Federation of Ontario (CFFO) Soil and Crop Improvement Association OMAFRA Alternative Land Use Services (ALUS Grey-Bruce) Academic Institutions (Guelph University) Farmers Conservation Authorities
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	NA

Strategy #14: Promote Biogas Capture and Conversion	
Description of Strategy, Policy, Program	Act as a facilitator to encourage the adoption of biogas production by the agricultural community within the County.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • County to identify project lead, promote the benefits of collective biogas production, and encourage the development of a biogas cooperative in the County. • Project lead to conduct feasibility study, create business case, and seek members from the agricultural community to join collective. • Project lead should consider: <ul style="list-style-type: none"> ○ Assessing potential for further waste streams to be delivered to the existing anaerobic digester in the County ○ Assessing potential for developing new anaerobic digesters in the County ○ The extent of biogas potential from livestock manure in the County; ○ Individual on-farm digesters versus a centralized digester site using a co-operative model (see Co-op Agri-Energie in Warwick, Quebec); ○ The range of uses for the biogas product including upgrading the biogas to renewable natural gas (RNG) for sale to the natural gas grid or use as a fuel in on-farm combined heat and power systems; ○ Identify potential technology partners; ○ Identify potential sites considering delivery routes and proximity to residential areas

Adaptation Co-Benefit	N/A
Environmental, Economic, Social Considerations	Economic advantage of converting waste to energy; environmental advantage of reducing waste and waste runoff from entering ecosystem (especially waterways); production of high-quality organic fertilizer to replace chemical fertilizers.
Potential Lead(s)	Agricultural Advisory Committee, Agricultural Community (Farmers)
Potential Partner(s)	Ontario Biomass Producer's Cooperative Canadian Biogas Association Anaerobic digester technology providers (see OMAFRA Anaerobic Digestion Contact List) Enbridge Grey County (Climate Change Internal Working Group, Climate Change Task Force, Agricultural Advisory Committee Economic Development, Tourism, Culture Planning and Development
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	NA

Strategy #15: Energy Efficiency Retrofits for the Farming Community	
Description of Strategy, Policy, Program	Annually allocate a percentage of the residential and commercial retrofit program to farmers' homes and agricultural buildings to assist farmers in reducing the energy costs.
Supporting Strategies / Enabling Components	A. Develop a retrofit package tailored to agricultural buildings and operations B. Consider the inclusion of solar pv and combined heat and power systems as part of retrofits
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Energy cost savings can be reinvested into other aspects of farm improvement and sustainability
Potential Lead(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Agricultural Advisory Committee, Economic Development, Tourism and Culture, Planning and Development)

Potential Partner(s)	Member Municipalities
Relative Cost Characterization	See Strategy #1
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	See Strategy #1
Funding Opportunities	See Strategy #1

Strategy #16: Climate Adaptation Plan

Description of Strategy, Policy, Program	Create a climate adaptation plan for Grey County that includes developing a robust and thorough risk assessment and adaptation plan to lessen the impacts of a changing climate and increase the resilience of the agricultural community.
Supporting Strategies / Enabling Components	
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Prevent loss of income to farming community due to climatic changes
Potential Lead(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Agricultural Advisory Committee)
Potential Partner(s)	Grey County Federation of Agriculture Grey Agricultural Services Member Municipalities Conservation Authorities
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Medium Term
Funding Opportunities	NA

Strategy #17: Promote Locally Grown Food

Description of Strategy, Policy, Program	Promote and facilitate the consumption of locally grown products.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Develop a local food hub to connect small local businesses to producers to sell local goods, promoting and improving access to local producers. • Through the food hub encourage the use of local foods in institutional settings to establish a strong initial market. • Develop landing page on the County’s website that provides a single source of local food options with links to distributors and farmers’ market hours. • Encourage local grocery stores to increase their supply of locally grown products. • Encourage farmers markets to open more days of the week and for extended hours. • Promote local organizations and initiatives already operating in Grey • Encourage farmers to grow products for local consumption. • Promote awareness of the benefits of supporting local economies and consuming fresh produce. • Develop a labelling system so consumers know that products were produced in Grey. • Consider options for more affordable access to locally grown products. • Establish a working group or committee to assess and address barriers to increased local food consumption in the County.
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Promotes local economy; provides health benefits; connects residents and build a more interactive community.
Potential Lead(s)	Grey County (Climate Change Internal Working Group, Climate Change Task Force, Agricultural Advisory Committee, Economic Development, Tourism and Culture, Planning and Development)
Potential Partner(s)	Eat Local Grey Bruce Farmers Local businesses Member Municipalities
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	NA

Theme: Land Use

OBJECTIVE: Land Use Planning

Continue to promote compact, mixed-use development and integrate sustainable growth principles into land use planning processes, while preserving and expanding Grey County’s natural areas to create healthy, vibrant, sustainable communities to live, work and play.

List of Strategies

Strategy #18: Compact, Mixed-Use Development

Strategy #19: Reforestation/Afforestation, Habitat and Biodiversity Protection

Strategy #18: Compact, Mixed-Use Development	
Description of Strategy, Policy, Program	<p>Continue to promote high development density and the protection of natural resources as key considerations in development proposals by encouraging compact, mixed-use development, complete streets and integration of sustainable growth principles into official plan and zoning documents. Encourage implementation through regulatory and financial incentives in the land use planning process.</p> <ul style="list-style-type: none">• Continue to encourage local municipalities to undertake compact, mixed-use development, and intensification by identifying areas where it should occur, and providing guidelines and resources for implementation taking into consideration preservation of local heritage and the proximity to commercial and institutional buildings, community services, and transit infrastructure.• Include sustainable growth principles as part of any Green Development Standard checklists or requirements developed by the County.• Encourage developers to develop compact and mixed-use projects in higher density areas through regulatory and financial incentives in existing municipal processes such as approval processes, development charges, and community improvement plans.• Identify, acquire and/or retain land for revitalization and integration into mixed-use projects to attract development through the creation of neighbourhood parks, trails, public art, pedestrian facilities, and upgraded retailing (see Brownfields Strategy Recommendation)• Continue to encourage development of complete communities through integration of complete community policy and design guidelines in official planning documents
Supporting Strategies / Enabling Components	<p>As part of the Community Improvement Plan (CIP) update include a targeted brownfields strategy that identifies priority sites for redevelopment into compact, mixed-use, and complete communities.</p> <ul style="list-style-type: none">• Identify priority brownfield sites such as: municipally owned sites, sites in high visibility areas, sites with potential to generate environmental, social or economic benefits for the neighbourhood;

	<ul style="list-style-type: none"> • Set redevelopment goals balancing community needs and financial viability; • Engage Stakeholders; • Select brownfield incentives such as grants for upfront costs of site studies and feasibility assessments, fee reductions or waivers, or tax increment financing. Non-financial incentives can include expedited permitting, servicing allocation, awards and recognition. • Prioritize and encourage brownfield redevelopment proposals that include infill/intensification and mixed-use, compact development
Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	Increases walkability and pedestrian friendly environments; provides easier access to amenities; enables transportation mode-shifting; increased property values; help to revitalize downtown areas; increase private investment; promotes tourism; creates more community cohesion and healthy business environments; reduces infrastructure costs; reduced costs for municipal services due to shorter distance to travel (i.e. police, fire, ambulance).
Potential Lead(s)	Planning and Development Department, Housing Department, Tourism, Culture and Economic Development Department,
Potential Partner(s)	Member Municipalities Grey Bruce Public Health Unit Economic Development, Tourism and Culture Department Local developers Ontario Home Builders Association Georgian Triangle Development Institute Chambers of Commerce Business Improvement Areas Real Estate Associations Enbridge
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	NA

Strategy #19: Improving natural asset management through Reforestation/Afforestation, Habitat and Biodiversity Protection	
Description of Strategy, Policy, Program	<p>Enhance the protection of natural assets, wetlands and ecosystems and sequester carbon</p> <ul style="list-style-type: none"> • Update inventories and evaluations of natural assets, green spaces, wetlands, ecosystems, and ecosystem goods and services; • Integrate urban biodiversity considerations into the urban planning process;

	<ul style="list-style-type: none"> Expand naturalization programs and integrate within the County's existing planning processes (I.e. official and secondary plans, site plan approvals and subdivision control policies) to increase the number of trees, parks and green spaces, ensuring equitable access for all residents, particularly vulnerable populations; Review existing policies, codes, and bylaws for constraints to naturalization and reforestation/afforestation Consider creating new bylaws that support naturalization by permitting naturalization on private and public lands and/or by limiting or prohibiting the use of chemical pesticides Provide guidelines and resources on tree planting and naturalization; Consider the use of tax-based or other financial incentives such as payments for ecosystem services to encourage naturalization and tree planting on private property to sequester carbon; Consider implementing a tree planting program that provides free trees to property owners to plant on their properties or along roadways (See Clarington's Trees for Rural Roads Program); Work with and encourage local municipalities to develop Urban Forest Plans and Management Strategies. Seek opportunities to develop multi-jurisdictional, and public-private partnerships to implement naturalization projects.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> Acquire and manage ecologically sensitive areas using tools such as easements, buffers, and bylaws. Create management plans for protected/naturally sensitive areas such as wetlands and ensure they are understood by operations staff, developers, and the public; provide resources for private landowners to develop and implement management plans Create and preserve pollinator habitat and support healthy pollinator populations through planting on private and public lands. Encourage naturalization and pollinator habitats on private lands by providing guidelines, resources, and support for what, how and when to plant. Educate residents on the benefits of naturalization. Commission a Climate Adaptation study with a focus on the climate impacts and adaptation measures for local water resources, flooding, and shoreline erosion.
Adaptation Co-Benefit	Yes.
Environmental, Economic, Social Considerations	Human health benefit of increased access to green spaces; shade trees reduce cooling energy consumption in buildings; increased biodiversity, ecosystem health and ecosystem services; increased stormwater management; increased nature tourism opportunities.
Potential Lead(s)	Grey County - Planning and Development Department
Potential Partner(s)	Conservation Authorities Member Municipalities Niagara Escarpment Commission Ministry of Natural Resources and Forestry

	Ministry of the Environment, Conservation, and Parks Landowners Local naturalist groups and organizations Land trusts Ontario Nature Escarpment Biosphere Conservancy ALUS Grey-Bruce Tree and plant nurseries Tourism Industry Real Estate Associations Owen Sound Field Naturalists Saugeen Nature Stewardship Grey Bruce
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	

Theme: Renewable Energy

OBJECTIVE:

Promoting renewable energy in the County that is owned and operated locally, has minimal impact on the surrounding landscape, develops jobs locally, and supports the energy independence of residents and business.

List of Strategies

Strategy #20: Solar Photovoltaic Program

Strategy #20: Solar Photovoltaic Program	
Description of Strategy, Policy, Program	Develop a program to promote and encourage solar PV across all sectors (residential, commercial, institutional, industrial) in the County. Solar PV systems can include rooftop solar systems, solar thermal systems, or ground-mounted arrays.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Conduct a feasibility study to determine if a Property Assessed Clean Energy program would be successful in Grey’s context. • Promote existing incentive programs, resources and educational materials to encourage adoption of solar to remove barriers to entry for residents and businesses.

	<ul style="list-style-type: none"> • Consider offering financial incentives or subsidies to encourage solar adoption with targeted support for low and moderate-income households and small businesses. • Consider providing an option to include solar systems in the building retrofit programs. • Include solar-ready design guidelines in the sustainability checklists and Green Development Standards, including guidelines for building structure and connectivity requirements for rooftop solar to avoid future retrofit costs. • Encourage commercial facility owners/developers and public institutions to build solar carports in existing parking lots. • Advocate for virtual and third-party net-metering to allow for expanded access and financial feasibility of solar projects. • Discourage the use of ground-mounted solar PV projects on quality agricultural or special agricultural lands.
Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	Energy independence; electricity price security; health benefits from increased air quality (due to fuel switching)
Potential Lead(s)	Grey County - Planning and Development, Economic Development
Potential Partner(s)	Member municipalities Solar Contractors Westario Hydro One Enbridge
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term (to conduct feasibility study)
Funding Opportunities	Property Assessed Clean Energy (PACE) program financed by Grey County and/or third party where the return on investment recuperates the initial capital costs and is used for further capital to finance additional projects. Green Municipal Fund Feasibility Study Green Municipal Fund Design Study Green Municipal Fund Program Evaluation

Strategy #21: Renewable Energy Policy	
Description of Strategy, Policy, Program	Encourage the development of renewable energy in Grey County by providing clear and streamlined land use policies, bylaws regulations, permitting, and procedures.

Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> Review existing bylaws and policies and procedures for barriers to renewable energy development Work with the local utilities to establish a landing page that provides clear direction on the procedures, regulations and permits required to develop different types of renewable energy projects including but not limited to wind, solar, and geexchange systems.
Adaptation Co-Benefit	NA
Environmental, Economic, Social Considerations	Energy independence, electricity price security, health benefits from increased air quality (due to fuel switching)
Potential Lead(s)	Grey County - Planning and Development, Economic Development
Potential Partner(s)	Member municipalities Solar Contractors Westario Hydro One Enbridge
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term (to conduct feasibility study)
Funding Opportunities	NA

Theme: Water and Flood Protection

OBJECTIVE:

To ensure the protection of waterways and shorelines including lakes, rivers and stream, and to reduce the impact of flooding on local infrastructure.

List of Strategies

- Strategy #21: Prevention of Shoreline Erosion
- Strategy #22: Reducing the Risk of Flooding
- Strategy #23: Conservation and Protection of Wetlands

Strategy #21: Prevention of Shoreline Erosion	
Description of Strategy, Policy, Program	Develop a monitor program that helps manages current shorelines and identify areas that are prone to erosion.

Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Work with Conservation Authorities to strengthen mapping and County OP policies that protect our shoreline • Provide education resources to private landowners on preventative practices
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Preserves our shorelines for future generations
Potential Lead(s)	Grey County - Planning and Development
Potential Partner(s)	Member municipalities Conservation Authorities Stewardship Grey Bruce
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med: 2-5 yrs, Long: 5+ yrs)	Near Term
Funding Opportunities	N/A

Strategy #22: Reducing the Risk of Flooding	
Description of Strategy, Policy, Program	Update County Hazard land mapping to further clarify and strengthen areas of the County that are prone to flooding.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Developing resources, guidelines, and educational materials for residents and business that provides information on how to manage their properties for flooding. • Work with Conservation Authorities to encourage permeable pavements are used when development occurs in flood prone areas
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Provides resources to the community that can help mitigate the impact of flooding
Potential Lead(s)	Grey County - Planning and Development
Potential Partner(s)	Member municipalities Conservation Authorities
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)

Timeframe (Short: 2 yrs, Med:	Near Term
2-5 yrs, Long:	
5+ yrs)	
Funding Opportunities	N/A

Strategy #23: Conservation and Protection of Wetlands	
Description of Strategy, Policy, Program	Identify through mapping, areas in the County where there is significant wetland loss and develop a program that encourages conservation.
Supporting Strategies / Enabling Components	<ul style="list-style-type: none"> • Work with the Agricultural community to find alternatives to tile drainage and provide educational resources on the importance of the ecological features • Provide resources and support to the Grey Sauble Conservation Authorities annual Watershed Report Card
Adaptation Co-Benefit	Yes
Environmental, Economic, Social Considerations	Preservation of an important ecological feature; helps in maintaining water within the watershed and preventing runoff;
Potential Lead(s)	Grey County - Planning and Development
Potential Partner(s)	Member municipalities Conservation Authorities Stewardship Grey Bruce ALUS Grey-Bruce
Relative Cost Characterization	N/A: Cost is covered by existing staff capacity or operating budgets Low Cost: \$ (0 - 100,000) Medium Cost: \$\$ (100,00 - 500,000) High Cost: \$\$\$ (500,000+)
Timeframe (Short: 2 yrs, Med:	Near Term
2-5 yrs, Long:	
5+ yrs)	
Funding Opportunities	Species at Risk Stewardship Program - <u>Ontario Enhancing Protection for Species at Risk</u>