

Implementation Plan

SSS's Local Climate Change Action Plan

Draft 3: 4-Oct-2018

"A goal without a plan is just a wish." - Antoine de Saint-Exupéry

Overview of the local climate change action plan: regional greenhouse (GHG) summary

The local climate change action plan included the development of a community-wide GHG inventory, the recommendation of regional corporate & community GHG reduction targets, & the identification of actions to reduce GHG emissions in order to meet the identified reduction targets. The local climate change action plan includes 18 recommended actions for implementation, which fall within 4 action areas:

1.  Understanding our carbon footprint & greening our community
2.  Engaging externally to support long-term climate action
3.  Building capacity for local climate action
4.  Reducing GHG emissions

Recommended regional GHG emissions reduction targets

- Municipal 15% below 2015 levels by 2028
- Community 6% below 2015 levels by 2028

Implementation plan

The LCCAP implementation plan is an important piece of the project, possibly even more important than the LCCAP itself. Developing this implementation plan will organize the activities, responsibilities, timeline & evaluation of the project, & will act as the management plan designed to provide overall guidance to SSS staff & the Sustainability Committee. This will ensure that project structures are in place & project activities can be successfully completed.

Value of the implementation plan

1. Provides SSS & the Sustainability Committee with the roadmap it needs to pursue a specific strategic action, delivering value to our municipal & community partners, & ensuring successful LCCAP implementation
2. Prioritizes opportunities & identifies the tasks necessary to meet the project objectives
3. Identifies any impact or relationship to municipal day-to-day operations

Examples

If we sort the implementation plan by organization or partner, we have a list of all the high-level steps that may be assigned to them. This can be integrated into their strategic work plans. Each lead or partner now knows exactly the role they play to implement the LCCAP.

If we sort the information in the implementation plan by timeframe, this gives the SSS staff & Sustainability Committee a strategic timetable. At any point-in-time, SSS & the Sustainability Committee can determine whether actions have been completed. If actions have not been completed on a timely basis, SSS staff & the Sustainability Committee must determine why. *Did the strategy change? Did other events prevent the actions from being completed? Did the project simply fall through the cracks? Should other changes be made in the timeframe, or should priorities be adjusted?*

As we all know, too often we simply approve a plan & then shelve it. Too many meetings never refer back to the plan that took substantial time & effort for everyone to develop. This implementation plan gives SSS & the Sustainability Committee a tool to keep track of the progress of the LCCAP. SSS & the Sustainability Committee meetings should include a review of the implementation plan biennially, or twice per year to look ask what has been learned to date, and should the implementation plan be adjusted?

Strategy 1: Understanding our carbon footprint & greening our community

Recommendation 1: Deliver a collaborative environmental education program that will offer education & information to residents on why & how to reduce the GHG contributions of their community, household & themselves.

Actions Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: immediate 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate* Overview of the cost**, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Develop an education & incentive-based program using the Sustainable Neighbourhood Retrofit Action Plan (SNAP) model to support neighbourhood-based implementation of SSS's municipal & community-level climate change action plan & achieve Milestone 3 of the Partners for Climate Protection (PCP) program</p> <p>2. Secure funding to:</p> <ol style="list-style-type: none"> hire (1) FT Community Coordinator for a 2.5-year term, hire (1) FT Communications Strategist for a 2.5-year term, deliver (20) neighbourhood-based engagement sessions, deliver (20) business-focused engagement sessions, & provide (1,000) people with (1,000) free incentives to reduce GHG emissions. 	<p>1. Reduce GHGs by 1% over 2 years, resulting in 10,328 less tCO₂e by the community by 2023</p> <p>2. Strong community support for climate action</p> <p>New partnerships to support the development of future programming</p>	<p>Project lead(s): SSS & the SC, NSCFDC</p> <p>Project support: Communications staff at each of the (7) municipalities will be requested to share project materials & information</p> <p>Potential partners: Local businesses, SSS will purchase incentives & explore opportunities for in-kind contributions & support for workshops</p> <p>Stakeholders (not exhaustive): Local distribution companies (Midland PUC, Hydro One, Newmarket-Tay Hydro, Alectra Utilities), independent energy/oil/gas providers, community groups, neighbourhood & road associations</p>	<p>Medium term, 1-3 yrs., 2019-2022</p>	<p>Medium, minimum of 10,328 less tCO₂e by the community over 2 years by 2023</p>	<ul style="list-style-type: none"> - Creation of (2) FT positions - Municipal cost-savings through resource-sharing between local governments - Leverage of municipal funding - Improved/enhanced environmental stewardship by the community - Increased climate change awareness & community action 	<p>C, E, F</p>	<p>\$452,000, OTF Grow Grant in the amount of \$452,000 for a 3-yr. term submitted by SSS in Jun-2018 with an expected response in Oct-2018), direct personnel cost \$257,200, direct non-personnel costs of \$152,500 (including workshops, meetings, travel & evaluation), overhead & administration \$42,800</p>	<ul style="list-style-type: none"> - Climate Action Fund, Government of Canada - Ontario Trillium Foundation (OTF), Grow Grant & /or Collective impact grant 	<ul style="list-style-type: none"> - Amount of GHGs (tCO₂e) reduced - Number (#) of neighbourhood-based sessions hosted & number (#) of total attendees - Number (#) of business sessions & number (#) of total attendees - Number (#) of incentives distributed per community - Number (#) of community members who receive information (print material, e-news subscribers) to support changes in their behaviours to reduce GHGs - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>1</p> <p>Key words</p> <ul style="list-style-type: none"> - <i>Resource conservation</i> - <i>Engagement & communication</i> - <i>Climate awareness</i> 

* Staff compensation for each recommendation is estimated at \$30 per hour

**Project costs for each recommendation include general administrative and operating costs only (office space, transportation expenses, general overhead incurred in the ordinary course of business) unless otherwise stated

Strategy 1: Understanding our carbon footprint & greening our community

Recommendation 2: Develop a program to advocate for seasonal & local eating to reduce the demand for out of season produce, reducing GHGs associated with growing & transportation, & to support growth of the local food economy.

Actions Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: immediate 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate* Overview of the cost**, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Enhance existing food action groups (i.e., Tiny, EDCNS) to form a regional Local Food Team to develop a Local Food Action Plan</p> <p>i. Collaborate with market organizers in the County of Simcoe & the District Municipality of Muskoka to convene meetings with farmers' market & farm stand managers & stakeholders to assess community needs, collaboration, opportunities & develop a structure for governance</p> <p>ii. Identify relevant best practices, collaborative models, training & tools</p>	<p>1. Enhance coordination & communication among existing food resources, agencies & municipalities</p> <p>2. A regional directory for farmers markets/stands</p> <p>3. Coordinated funding, training & tools that support farmers' market creation & expansion</p> <p>4. Reduce dependence on food from other regions, thereby using less energy, reducing waste & GHGs</p> <p>5. Establish priorities for municipal & community food initiatives</p> <p>6. Position municipalities/ community organizations/ markets for future grant opportunities</p>	<p>Project leads: SSS & the SC to drive the initiative until host organization is identified</p> <p>Project support: Municipal summer staff, SSS internship, Georgian College Research Analyst Program or co-operative placement</p> <p>Stakeholders (not exhaustive): Representatives from markets in the County & District, County staff (Social services, Food Partners Alliance, etc.), community garden representatives, Simcoe Muskoka District Health Unit (SMDHU), Foodland Ontario, EDCNS, Ontario Ministry of Agriculture, Food & Rural Affairs (OMAFRA)</p>	<p>Medium-term, 1-2 yrs., 2019-2021 & on-going</p>	<p>n/a</p>	<ul style="list-style-type: none"> - Social connections & new partnerships - Better use of limited resources & human capital - Reduced redundancy - Improved community/family health through access to fresh foods - Reduction in energy use (supply chain) to acquire food, - Less energy/gas/G HGs produced due to less travel of the product - Support of the local economy 	<p>C, E, F</p>	<p>(1) PT staff person for up to 2 years, approx. 820 hrs. per yr., or \$24,600 per yr., project costs approx. \$10,000 per yr., for a total of \$34,600 per yr, or \$69,200 for 2 yrs.</p>	<ul style="list-style-type: none"> - Greenbelt Fund: Local Food Investment Fund - Canadian Agricultural Partnership: Ontario Org & Collab Stream, OMAFRA - Rural Economic Development Fund (RED), Government of Ontario - Summer Experience Program (SEP), Government of Ontario - Canada-Ontario Job grant, Ontario Ministry of Training, Colleges & University - Wage Subsidy program, Eco Canada - Explore partnership/co mmission with academic institution 	<ul style="list-style-type: none"> - Successful creation of a local farmers' market management collaborative - Managers participating in the collaborative - Number (#) of farmers' market/stands participating in the collaborative - Number (#) of farmers' markets per residents and per community - Number (#) of shoppers at farmers' markets/stands - Total sales (\$) and number (#) of sales at participating farmers' markets/stands - Number (#) of producers served by the collaborative - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>3</p> <p>Key words - Food security - Local food production - Seasonal eating</p> 

Strategy 1: Understanding our carbon footprint & greening our community

Recommendation 3: Establish a community-based water education program to increase water conservation, encouraging & incentivizing practices such as low-flow toilets & shower-heads, rainwater collection (i.e., barrels & cisterns) & xeriscaping (drought-resistant plantings).

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<p>1. Develop a water conservation plan per municipality</p> <p>i. Establish the goals of the community-water conservation & education program/plan</p> <p>ii. Identify existing water management initiatives</p> <p>iii. Conduct a water system audit</p> <p>iv. Prepare a demand forecast</p> <p>v. Identify & select potential water conservation measures</p> <p>vi. Metering, water accounting & pricing evaluation</p> <p>vii. Information & education program to reduce consumer demand</p> <p>viii. Evaluate results</p>	<p>1. Potable water sources are limited natural resources - water is a resource must be managed carefully</p> <p>2. Optimize performance of existing facilities, reduce or eliminate the need to undertake new drinking water &/or wastewater projects</p> <p>3. Improved drought preparedness</p> <p>4. Increased energy conservation & cost savings for municipalities & their customers</p> <p>5. Achieve improved environmental performance in water conservation & pollution reduction</p>	<p>Project lead(s): Municipal water/waste water &/or operations staff</p> <p>Project support: SSS, SSEA</p>	<p>Medium-term, 1-5 yrs., 2020-2025</p>	<p>Low, to be calculated per audit result</p>	<ul style="list-style-type: none"> - Alignment with Asset Management Planning, O. Reg 588/17 - Improved efficiency of water systems - Demonstrated corporate social responsibility & environmental stewardship - Protection of natural resources - Cost-savings for resource users - Consideration of the cumulative impacts on the watershed for water quality & quantity - Potential for reduced flooding events on private properties - Reduced property damage & insurance claims - Residents educated & informed that they have a role in protecting their own property & taking action to reduce their GHGs 	<p>A, B, C, D, E, F</p>	<p>Staff time per municipality approx. 1/6 of regular workload, estimated at 5 hrs. per week, or 20 hrs. per month, approx. \$7,200 per yr., Project materials & incentives approx. \$10,000, for a total estimate of \$17,200 per year, or \$86,000 over 5 yrs.</p>	<ul style="list-style-type: none"> - EcoAction Community Funding Program - Coca-Cola Foundation - FCM, Green Municipal Fund & future federal FCM & PCP funding programs 	<ul style="list-style-type: none"> - Number (#) of plans or programs developed & implemented - Amount (m³) of water conserved - Amount (\$) of money saved by the municipality - Amount (\$) of money saved by the consumer - Amount (kWh) of energy conserved by the municipality - Amount (kWh) of energy conserved by the consumer - Number (#) of incentives distributed - Number (#) of residents who received information on water conservation - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>3</p> <p>Key words - <i>Water conservation</i> - <i>Water protection</i> - <i>Municipal infrastructure</i></p>



Strategy 1: Understanding our carbon footprint & greening our community

Recommendation 4: Prepare information for municipal land managers & landowners on methods for maintaining & enhancing their treed areas in response to projected weather & climate impacts, promoting tree protection on municipal & residential properties by developing an ecological services evaluation standard.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Establish a task force to lead the development of a municipal forest & tree renewal strategy</p> <p>i. Develop & municipal forest & tree renewal strategy, include a current canopy cover analysis/inventory (i.e., I-Tree Canopy)</p> <p>ii. Include the development of an ecological/ecosystem service evaluation standard within the municipal forest & tree renewal strategy</p>	<p>1. Planting of a diverse range of native trees appropriate for a changing climate</p> <p>2. Improved tree retention on municipal & residential properties</p> <p>3. Functional tool to demonstrate the economic value & GHG reduction impact of tree planting & tree retention</p>	<p>Project lead: SSEA</p> <p>Project partners/stakeholders (not exhaustive): municipal parks, public works &/or operations staff, municipal planning staff, utility/energy providers (i.e., Hydro One, Tay-Newmarket, Midland PUC, Enbridge) SSS & the SC, local schools & school boards, Ministry of Natural Resources, County forester(s), etc.</p>	<p>Medium-term, 1-3 yrs., 2021-2024</p>	<p>Medium, to be evaluated based upon current canopy & success of tree planting & retention activities</p>	<ul style="list-style-type: none"> - Enhanced ecological/environmental services (i.e., cooling the air temperature, shade, absorption of stormwater (water protection) - Soil retention - Less energy use (reduced need for air conditioning in summer & heating in winter due to windbreak) - Aesthetically pleasing towns & villages - Tree diversity & improved resiliency to climate impacts 	<p>A, B, C, D, E</p>	<p>Staff time to lead the project, approx. 1/4 of regular workload, estimated at 10 hrs. per week, or 40 hrs. per month, approx. \$14,400 per yr., project costs approx. \$5,000 per yr. for a total estimate of \$19,400 per year for 3 yrs., for a total of \$58,200</p>	<ul style="list-style-type: none"> - Climate Action Fund, Government of Canada - Ontario Trillium Foundation (OTF), Grow Grant & /or Collective Impact - Explore potential partnership/commission with academic institutions - Community Tree Grants - Tree Canada 	<ul style="list-style-type: none"> - Number (#) of municipalities & agencies that participate in development of the strategy - Percent (%) canopy cover per municipality & percent (%) per total land area - Number (#) of municipalities that integrate tree planting, protection & renewal considerations into their operations - Number (#) of municipalities that integrate evaluation standard into their operations - Amount (tCO2e) of GHGs sequestered or reduced - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by municipal staff, Council, community members, project partners, etc.) 	<p>2</p> <p>Key words - <i>Tree strategy</i> - <i>Climate resilience</i> - <i>GHG sequestration</i></p> 

Strategy 1: Understanding our carbon footprint & greening our community

Recommendation 5: Produce a regional pollinator strategy with a goal to identify what additional actions can be taken by municipalities to better manage roadsides & municipal properties to protect, enhance & create habitat for pollinators.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Establish a working group to lead the development of a regional pollinator strategy</p> <p>i. Develop a regional pollinator strategy which outlines municipal & community actions to improve the health of wild pollinators & managed bees</p>	<p>1. Increase/broaden collaboration & communication with governmental & NGOs & the public in addressing the importance of pollinator habitats</p>	<p>Project lead(s): SSS & the SC, Tiny staff (parks & recreation)</p> <p>Project support: SSEA</p> <p>Project partners/stakeholders (not exhaustive): Municipal parks, public works &/or operations staff, local & provincial NGO's, naturalist groups, horticultural societies, pollinator experts, agricultural land managers & agencies</p>	<p>Medium-term, 1-2 yrs., 2023-2024</p>	<p>Low, estimate will be based upon size of naturalized land areas & approximate carbon sequestration by trees & plants</p>	<ul style="list-style-type: none"> - Cost-savings through a change in land management practices, less pesticide & less fuel use - Improved air quality due to reduced fuel use from the promotion of 'no-mow' areas - Enhanced natural areas to support biodiversity - Leveraging of municipal funding - Leveraging of local expertise 	<p>A, C, E</p>	<p>Staff time to lead the project, approx. 1/6 of regular workload, estimated at 5 hrs. per week, or 20 hrs. per month, approx. \$7,200 per yr., project costs approx. \$2,500 per yr. for a total estimate of \$9,700 per yr., or \$19,400 for 2 yrs.</p>	<ul style="list-style-type: none"> - Ontario Trillium Foundation (OTF), Grow Grant & /or Collective impact grant 	<ul style="list-style-type: none"> - Number (#) of municipalities & agencies that participate in the development of the strategy - Number (#) of municipal plans that integrate pollinator strategy recommendations - Amount (tCO2e) of GHGs sequestered or reduced - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>3</p> <p>Key words - <i>Pollinators</i> - <i>Pollinator protection</i> - <i>Natural heritage</i></p> 

Strategy 2: Engaging externally to support long-term climate action

Recommendation 1: Develop supportive relationships with energy service providers to explore renewable energy development, to expand customer access to utility data, & to improve customer access to available incentives & rebates.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: immediate 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Convene meetings with energy service providers to network & discuss the LCCAP, incentive opportunities, loan programs, technical assistance services, & potential strategies & partnerships</p> <p>2. Identify existing incentive opportunities, loan programs, technical assistance services, & potential strategies & partnerships that can help municipalities & other consumers reduce their energy use & associated GHGs</p> <p>3. Improve access to these opportunities via enhanced communication channels for these customers</p>	<p>1. Enhance communication with energy providers to support collaboration & partnerships to advance the LCCAP & reduce GHGs</p> <p>2. Develop agreements for provision of energy use data & frequency of that provision to support funding & PCP program reporting requirements</p> <p>3. Improved access for consumers to multiple incentive opportunities, loan programs, technical assistance services, & usage data</p> <p>4. Increase energy efficiency</p>	<p>Project lead(s): SSS & the SC</p> <p>Project support: n/a</p> <p>Project partners/ stakeholders (not exhaustive): Local distribution companies (Midland PUC, Hydro One, Newmarket-Tay Hydro, Alectra Utilities), independent energy/oil/gas providers</p>	<p>Medium-term, 1-2 yrs., 2019-2020, ongoing frequency</p>	<p>To be calculated; dependent on type of incentives available & the rate of uptake in municipalities & each community</p>	<p>- Establishment of new partnerships to support energy initiatives</p> <p>- Foster interest in municipal Conservation & Demand Management Plans to drive new actions</p> <p>- Energy & cost savings</p>	<p>C, E, F</p>	<p>Staff time to lead the project, approx. 1/6 of regular workload, estimated at 5 hrs. per week, or 20 hrs. per month, approx. \$7,200 per yr., project costs approx. \$2,500 per yr. for a total estimate of \$19,400 for 2 yrs.</p>	<p>- Annual municipal contributions to SSS operating costs</p> <p>- Ontario Trillium Foundation (OTF), Grow Grant & /or Collective Impact</p> <p>- IESO's Conservation Fund</p> <p>- Climate Action Fund, Government of Canada</p> <p>- EcoAction Community Funding Program, Government of Canada</p>	<p>- Number (#) of meetings held with energy service providers</p> <p>- Number (#) of Letters or Memorandums of Understanding secured with energy service providers</p> <p>- Change (%) or increase in the uptake of available incentives by municipalities & each community (per capita)</p> <p>- Amount (tCO2e) of GHGs sequestered or reduced due to the uptake of incentives</p> <p>- Number (#) of social media posts, website hits, general inquires, etc. about posted/available incentives</p> <p>- Dollars (\$) of funding secured &/or leveraged</p> <p>- Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.)</p>	<p>1</p> <p>Key words</p> <p>- <i>Energy reduction</i></p> <p>- <i>Energy savings</i></p> <p>- <i>Energy data</i></p>



Strategy 2: Engaging externally to support long-term climate action

Recommendation 2: Identify partners for a pilot project to explore low-impact development techniques (using nature as a model to manage rainfall at the source) into new developments & infrastructure upgrades to better manage water run-off & to help moderate warmer local temperatures.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Secure funding to undertake a Stormwater Strategy Feasibility Report to:</p> <ul style="list-style-type: none"> i. Identify stormwater management program needs & costs ii. Evaluate the appropriate funding mechanisms to support these needs <p>2. Prepare a Low Impact Development Plan & Strategy with goal of integrating LID into the municipal planning process, including:</p> <ul style="list-style-type: none"> i. Discussion/internal review of municipal LID practices within region & Ontario ii. Acquire municipal stakeholder buy-in (operations, planning, public works, parks, etc.) iii. Identify municipal LID champions iv. Education & discussion sessions with local stakeholders (utilities, consultants, developers) 	<ul style="list-style-type: none"> 1. Improved stormwater control at the source 2. Improved water balance component 3. Improved groundwater recharge 4. Reduction in runoff volume into local waterways, protecting water resources 5. Reduced demand on municipal infrastructure 6. Enhanced resiliency to climate change impacts & extreme weather events 	<p>Project lead: SSEA</p> <p>Project partners/ stakeholders (not exhaustive): Municipal planning & engineering staff, County of Simcoe planning staff, Conservation Authorities, NGOs (i.e., Muskoka Watershed Council, Georgian Bay Forever)</p>	<p>Medium-term, 3 yrs., 2023-2026</p>	<p>Low, to be calculated per enhanced green/ground cover & estimated reduction on municipal infrastructure</p>	<ul style="list-style-type: none"> - Asset Management Planning, O. Reg 588/17 - Stormwater Management Planning & Design Manual, Ministry of Environment & Climate Change - Leveraging of municipal funding - Leveraging of local expertise 	<p>A, B, C, D, E</p>	<p>Initial feasibility report estimated at \$25,000 to \$40,000 per municipality (re: 1) Plan & Strategy development (re: 2) estimated at \$65,000 to \$135,000 per municipality</p> <p><i>*Variation due to variable population of service area & the potential for cost savings as realized through a collective approach</i></p>	<ul style="list-style-type: none"> - FCM, Green Municipal Fund & future federal FCM & PCP funding programs - Climate Action Fund, Government of Canada 	<ul style="list-style-type: none"> - Water quality indicators (i.e., pollutant monitoring, toxicity testing, frequency of the exceedance of water quality standards, sediment sampling, stream temperature) - Number (#) of beach closures - Public/stakeholder surveys & evaluation of public perception - Amount (tCO₂e) of GHGs reduced due to lessened water use - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>2</p> <p>Key words - Stormwater - Low impact development (LID) - Water</p> 

Strategy 2: Engaging externally to support long-term climate action

Recommendation 3: Explore opportunities to increase municipal use of low-carbon & renewable energy technologies, & investigate the opportunity for net-metering to allow municipalities to offset electricity charges by using municipal assets to generate power.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: immediate 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Convene meetings with renewable energy service providers to discuss the LCCAP, incentive opportunities, loan programs, technical assistance services, & potential strategies & partnerships</p>	<p>1. Reduced GHG emissions 2. Potential future diversification of the energy supply with the uptake of renewable energy technology 3. Foster beneficial relationships with renewable energy service providers to support future programs & projects</p>	<p>Project lead(s): SSS & the SC Project support: Municipal PCP program representatives</p>	<p>Short-term, 6 mos. - 1 yr., 2019</p>	<p>High, to be calculated per prospective project as part of any business case &/or proposal</p>	<ul style="list-style-type: none"> - Cost-savings through reduced non-renewable energy use - Alignment with Canada's Climate Plan - Job creation through the requirement for new infrastructure - Improved air quality - Delivery on Conservation & Demand Management Plan goals & objectives - Leveraging of local expertise 	<p>A, B, C, D, E, F</p>	<p>Staff time to lead the project, approx. 1/6 of regular workload, estimated at 5 hrs. per week, or 20 hrs. per month, approx. \$7,200 per yr., project costs approx. \$2,500 per yr. for a total estimate of \$9,700 per yr., or \$19,400 for 2 yrs.</p>	<p>- Annual municipal contributions to SSS operating costs</p>	<ul style="list-style-type: none"> - Number (#) of project proposals developed for consideration by municipalities - Number (#) of meetings, events, or workshops held - Number (#) of project deemed viable - Projected/potential cost savings (\$) - Realized/measurable cost savings (\$) - Amount (tCO₂e) of GHGs sequestered reduced - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>2</p> <p>Key words - Energy reduction - Renewables - Net-metering</p> 

Strategy 2: Engaging externally to support long-term climate action

Recommendation 4: Create a multidisciplinary working group to advise on the development of a climate change adaptation strategy complementary to the LCCAP.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Establish a working group to advise on the development of a climate change adaptation strategy complementary to the LCCAP</p>	<p>1. Enhance coordination & communication for climate adaptation among existing agencies & municipalities</p> <p>2. Form a coordinated body to advise on funding, training & tools that support the development of a climate adaptation strategy</p> <p>3. Position municipalities/ community organizations/ for future grant opportunities to support climate adaptation</p>	<p>Project lead: SSEA</p> <p>Project support: SMDHU, SSS, municipal planning, public works, parks/recreation &/or engineering staff</p>	<p>Medium-term, 3 yrs., 2023-2026</p>	<p>Low-medium, reduction potential will be dependent on scale & scope of actions</p>	<ul style="list-style-type: none"> - Alignment with Growth Plan, 2017 recommendations (re: climate adaptation), - Alignment with Asset Management Planning, O.Reg 588/17 - Consideration of Stormwater Management Planning & Design Manual, Ministry of Environment & Climate Change - Leveraging of municipal funding - Leveraging of local expertise 	<p>A, B, C, D, E, G</p>	<p>Plan development estimated at \$15,000 to \$25,000 per municipality[^] per yr.</p> <p><i>^Variation due to variable population of service area & the potential for cost savings as realized through a collective approach.</i></p>	<ul style="list-style-type: none"> - FCM, Green Municipal Fund & future federal FCM & PCP funding programs - Climate Action Fund, Government of Canada 	<ul style="list-style-type: none"> - Number (#) of municipalities which participate as members of the working group - Number (#) of agencies that participate as members of the working group - Number (#) of implemented actions from the adaptation strategy - Number (#) municipal &/or agency plans that include recommendations from the LCCAP & the adaptation strategy - Amount (tCO2e) of GHGs reduced - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>2</p> <p>Key words - <i>Climate adaptation</i> - <i>Climate mitigation</i> - <i>Climate impacts</i></p>



Strategy 3: Building capacity for local climate action

Recommendation 1: Integrate climate change considerations & each respective municipal & community GHG inventory & GHG reduction targets & any projected impact to GHGs into municipal operations & into the planning process for construction, retrofitting or enhancement of any municipal facilities or infrastructure projects.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: immediate 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations/ B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Research what other municipalities have done regarding the integration of GHG inventories & targets into the municipal planning process</p> <p>2. Ensure planning & development-related documents & activities including plans, staff reports, bids, tenders & contracts include climate change considerations & GHG targets & impacts</p> <p>3. Review by-laws to account for & incorporate climate change considerations</p>	<p>1. Complete GHG monitoring to meet PCP program membership requirements</p> <p>2. Improve awareness among municipal staff & Council on real & measurable GHG emissions</p> <p>3. Mainstream climate change into existing operations</p>	<p>Project lead(s): SSS & the SC</p> <p>Project support: Municipal finance & planning staff, PCP regional representative</p>	<p>Medium-term, 2 yrs., 2019-2020 & on-going</p>	<p>Medium, reduction potential will be dependent on the level of commitment by the municipality to explore technological & renewable options</p>	<ul style="list-style-type: none"> - Alignment with Growth Plan, 2017 recommendations (re: GHG targets, climate consideration & adaptation) - Alignment with Asset Management Planning, O. Reg 588/17 	<p>A, B, C, D, E, F, G</p>	<p>Low (approx. \$2,500 per yr. per municipality), funded by existing annual municipal contribution to SSS</p>	<ul style="list-style-type: none"> - Municipal staff time estimated at 40 hrs. total per municipality to meet with SSS staff & support integration of considerations & GHG inventories/targets - Annual municipal contributions to SSS operating costs, SSS staff time estimated at 25 hrs. per municipality, for a total of 175 hrs., estimated cost of \$5,250 in 2019, or \$750 per municipality 	<ul style="list-style-type: none"> - Number (#) of municipalities which adopt the GHG targets - Number (#) of municipal reports that include GHG inventories &/or GHG reduction targets - Number (#) municipal plans that include notes to the measurement of GHGs - Number (#) & percentage (%) of municipal departments which integrate GHG considerations & calculations in staff reports - Number (#) of by-laws reviewed & number (#) of by-laws updated or created - Amount (tCO₂e) of GHGs reduced - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>1</p> <p>Key words</p> <ul style="list-style-type: none"> - <i>GHG inventory</i> - <i>GHG targets</i> - <i>Municipal operations</i>



Strategy 3: Building capacity for local climate action

Recommendation 2: Review & update emergency planning & preparedness for floods, wildfire, extreme heat/cold & other extreme weather as a result of climate change impacts.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Review & update emergency plans & systems, considering:</p> <p>i. Improving communications to the public regarding road conditions, municipal facility closures &/or emergency centres during extreme weather events</p> <p>ii. Integrate responses to projected climate impacts, including energy service disruptions, drought, water &/or food shortages, increased wildfire hazards & occurrences, increased flooding, etc.</p>	<p>1. Improve emergency preparedness & determine actions that can be taken to make the impacts of climate change (i.e., extreme weather event) less severe – create evacuation routes, have supply kits on hand, conduct training drills, etc.</p> <p>2. Improve awareness among municipal staff & Council on real & measurable GHG emissions</p> <p>3. Integrate climate change considerations into existing operations</p>	<p>Project lead(s): Municipal corporate services</p> <p>Project partners: Municipal roads, public works, fleet, fire & emergency services, & parks/recreation departments</p> <p>Project stakeholders: SMDHU, SSEA, SSS, County of Simcoe, emergency service groups</p>	<p>Medium-term, 1-2 yrs., 2020-2022</p>	<p>n/a</p>	<ul style="list-style-type: none"> - Identification of gaps (if any) in emergency planning in the region - Increased community awareness & preparedness for the impacts of climate change - Leveraging of local expertise 	<p>C, E, G</p>	<p>Staff time per municipality, approximately:</p> <ul style="list-style-type: none"> - Plan review & report, 40 hrs. - Needs analysis & project plan, 60 hrs. - Implementation, 280 hrs., total of 380, or an estimated cost of \$11,400 per yr. 	<ul style="list-style-type: none"> - Summer Experience Program (SEP), Government of Ontario - Canada-Ontario Job grant, Ontario Ministry of Training, Colleges & University - Wage Subsidy program, Eco Canada - Explore partnership/commission with academic institution 	<ul style="list-style-type: none"> - Reduction in number (#) of inquiries to municipalities regarding emergency procedures - Number (#) of municipal representatives involved in the review of emergency management plans - Number (#) of municipalities that review emergency management plans for climate change to integrate climate change considerations - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>2</p> <p>Key words - <i>Climate impacts</i> - <i>Emergency response</i> - <i>Communication</i></p> 

Strategy 3: Building capacity for local climate action

Recommendation 3: Integrate provincial policy recommendations for climate change planning into municipal operations by including GHG inventories & GHG reduction targets into asset management plans, conservation & demand management plans, strategic plans & official plans (see Strategy 1: Recommendation 1 as both are complementary)

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with the recs objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. As municipal plans & policies are updated & reviewed on a regular basis, support integration of climate change considerations into existing plans & policies</p> <p>i. Develop inventory & review schedule of all plans & policies that may need to integrate climate change considerations</p>	<p>1. Integrate considerations into municipal day-to-day activities to enhance support for climate action</p> <p>2. Meet legislative/policy requirements & recommendations</p> <p>3. Increase awareness of climate change & climate action</p>	<p>Project lead(s): SSS & the SC</p> <p>Project support: n/a</p>	<p>Immediate to short-term, 0 mos. to 1 yr., 2018, on-going frequency</p>	<p>Low-high, dependent on level of commitment by each municipality</p>	<p>-Alignment with Growth Plan, 2017 recommendations (re: climate adaptation),</p> <p>-Alignment with Asset Management Planning, O. Reg. 588/17 & O. Reg. 397/11: Energy Conservation & Demand Management Plans)</p> <p>-Enhanced partnership between SSS & the municipalities</p>	<p>A, B, C, D, E, F, G</p>	<p>Staff time to lead the project, approx. 1/6 of regular workload, estimated at 5 hrs. per week, or 20 hrs. per month, approx. \$7,200 per yr., project costs approx. \$2,500 per yr. for a total estimate of \$9,700 per yr.</p>	<p>- Annual municipal contributions to SSS operating costs to fund</p> <p>- FCM Climate Change Staff grant requesting \$113,600 for a 2-yr. term, (2019-2021) submitted by SSS in Jul-2018, with an expected response in Jan-2019</p>	<p>- Number (#) of plans per municipality that include GHG & climate change considerations</p> <p>- Percentage (%) of all plans that include GHG & climate change considerations</p> <p>- Amount (tCO₂e) of GHGs sequestered or reduced</p> <p>- Dollars (\$) of funding secured &/or leveraged</p> <p>- Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.)</p>	<p>1</p> <p>Key words</p> <ul style="list-style-type: none"> - GHG inventory - GHG targets - Municipal documents



Strategy 3: Building capacity for local climate action

Recommendation 4: Continue to monitor, measure & report on municipal & community GHG emissions & the impact of any GHG reduction initiatives in relation to the regional & each respective municipal GHG reduction target.

Actions Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: immediate 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<ol style="list-style-type: none"> Continue to gather & populate an internal database of municipal & community GHG emissions Establish a protocol to transfer energy data & project information from PCP municipalities to SSS in order to complete annual & biennial reporting, meeting membership requirements of the PCP program Establish agreements with energy service providers (Newmarket-Tay/Midland PUC, Alectra, Hydro One, Enbridge, Union Gas) to ensure the regular transfer (to be defined) of energy data to SSS Establish agreements with local independent energy service providers to ensure the transfer of energy data to SSS 	<ol style="list-style-type: none"> The transfer of information is required to support municipalities in meeting their PCP membership requirements Build supportive relationships between municipalities & SSS Build supportive relationships between energy service providers & SSS 	<p>Project lead(s): SSS & the SC</p> <p>Project support: Municipal CAO's, municipal finance staff</p> <p>Project partners/ stakeholders (not exhaustive): Local distribution companies (Midland PUC, Hydro One, Newmarket-Tay Hydro, Alectra Utilities), independent energy/oil/gas providers</p>	<p>Medium-term, 1-5 yrs., 2019-on-going, with annual & biennial frequency for PCP reporting requirements</p>	<p>n/a</p>	<ul style="list-style-type: none"> Increased awareness by Council, municipal staff & the community of each municipalities' commitment to climate change (enhanced public perception) Improved awareness of the LCCAP & SSS services Successful progression throughout the PCP Milestone framework 	<p>A, B, C, D, E, F</p>	<p>Staff time to lead the project, approx. 1/6 of regular workload, estimated at 5 hrs. per week, or 20 hrs. per month, approx. 240 hours per yr. at \$8,400 per yr., project costs approx. \$5,000 per yr. for a total estimate of \$13,400 per year</p>	<ul style="list-style-type: none"> Annual municipal contributions to SSS operating costs FCM Climate Change Staff grant requesting \$113,600 for a 2-yr. term, (2019-2021) submitted by SSS in Jul-2018, with an expected response in Jan-2019 	<ul style="list-style-type: none"> Number (#) of Letters or Memorandums of Understanding secured with energy service providers Number (#) annual reports submitted to the PCP Secretariat by SSS Number (#) & value (\$) of municipal actions to reduce GHGs included in the annual reports to the FCM Secretariat Percentage (%) of all plans that include GHG & climate change considerations Dollars (\$) of funding secured &/or leveraged Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>1</p> <p>Key words - GHG data - Annual PCP reporting - GHG targets</p> 

Strategy 4: Reducing GHG emissions

Recommendation 1: Improve the availability of GHG data to municipalities & their stakeholders, & prioritize GHG emissions reductions by modelling the potential of the respective action per municipality to reduce GHG emissions.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: immediate 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Complete annual deputations & presentation to staff & Council on the LCCAP & regional & municipal progress in reducing GHG emissions</p> <p>2. Develop a GHG emissions calculator & visual dashboard for use by municipalities & the community to estimate the GHG reduction potential of projects & actions</p>	<p>1. Support the transfer of information required to build & retain support of SSS</p> <p>2. Establish a consistent protocol for estimating & measuring GHG reductions</p> <p>3. Promote understanding by municipalities & the community of the impact of actions to reduce GHGs</p> <p>4. Enhance awareness of climate change</p>	<p>Project lead(s): SSS & the SC</p> <p>Project support/partners: Academic institutions</p> <p>Project partners/ stakeholders (not exhaustive): Local distribution companies (Midland PUC, Hydro One, Newmarket-Tay Hydro, Alectra Utilities), independent energy/oil/gas providers</p>	<p>Action 1: Immediate, 0-6 mos., 2018-on-going,</p> <p>Action 2: Medium-term, 1-2 yrs., 2021-2022</p>	<p>n/a</p>	<ul style="list-style-type: none"> - Alignment with Canada's Climate Plan - Alignment with Growth Plan, 2017 recommendations - Alignment with Asset Management Planning, O. Reg 588/17 - Alignment with O. Reg. 397/11: Energy Conservation & Demand Management Plans - Enhanced partnership between SSS, municipalities & academic institutions - Leveraging of external expertise 	<p>A, B, C, D, E, F</p>	<p>Staff time to lead the project, approx. 1/6 of regular workload, estimated at 5 hrs. per week, or 20 hrs. per month, approx. \$7,200 per yr., project costs approx. \$2,500 per yr. for a total estimate of \$9,700 per yr.</p>	<ul style="list-style-type: none"> - Annual municipal contributions to SSS operating costs - FCM Climate Change Staff grant requesting \$113,600 for a 2-yr. term, (2019-2021) submitted by SSS in Jul-2018, with an expected response in Jan-2019 - Explore partnership/commission with academic institutions 	<ul style="list-style-type: none"> - Number (#) of deputations completed to each municipality - Number (#) of presentations completed to staff & committees - Number (#) of municipalities that confirm/approve use of the calculator & dashboard internally - Success (%) of the calculator & GHG dashboard per tested scenarios - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>2</p> <p>Key words</p> <ul style="list-style-type: none"> - GHG data - GHG modelling - Data analysis



Strategy 4: Reducing GHG emissions

Recommendation 2: Develop a matrix of opportunities for energy retrofits at municipal facilities by reviewing energy conservation & demand management plans, & creating a resource hub to support municipalities in updating their required plans to reduce energy conservation & implement GHG reduction initiatives.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: immediate 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<ol style="list-style-type: none"> 1. Develop a matrix by reviewing municipal budgets, plans & strategies to identify actions & projects that will deliver on GHG reduction targets 2. Create a resource hub to facilitate the sharing of information needed for municipal climate change action 3. Complete a best practice review of external municipalities to provide examples of potential actions & projects along with the quantifiable results 	<ol style="list-style-type: none"> 1. Prepare a list of actions & projects that can be considered per municipality to reduce corporate GHGs & help them to meet their GHG targets 2. Provide a relevant & evidence-based collection of actions & projects that can be used as 'model' or 'pilot projects' 	<p>Project lead(s): SSS & the SC</p> <p>Project support: PCP regional representative</p>	<p>Medium-term, 1-2 yrs., 2019-on-going</p>	<p>High-low, dependent on each identified action or project</p>	<ul style="list-style-type: none"> - Alignment with Canada's Climate Plan - Alignment with O. Reg. 397/11: Energy Conservation & Demand Management Plans - Enhanced partnership between SSS & municipalities 	<p>A, B, C, D, E, F, G</p>	<p>Staff time to lead the project, approx. 1/6 of regular workload, estimated at 5 hrs. per week, or 20 hrs. per month (240 hrs.), approx. \$7,200 per yr., project costs approx. \$2,500 per yr. for a total estimate of \$9,700 per yr.</p>	<ul style="list-style-type: none"> - Annual municipal contributions to SSS operating costs - FCM Climate Change Staff grant requesting \$113,600 for a 2-yr. term, (2019-2021) submitted by SSS in Jul-2018, with an expected response in Jan-2019 	<ul style="list-style-type: none"> - Number (#) of plans reviewed (incl. operating & capital budgets) - Number (#) of actions & projects identified - Number (#) of action & project examples provided to municipalities - Number (#) of projects implemented that include recommended GHG actions/considerations - Amount (tCO2e) of GHGs sequestered or reduced - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>1</p> <p>Key words - <i>Conservation & demand management plans</i> - <i>Operating & capital budgets</i> - <i>Best-practices</i></p> 

Strategy 4: Reducing GHG emissions

Recommendation 3: Prepare a comprehensive strategy involving a transportation demand management plan & cleaner vehicle plan to reduce GHGs by reducing unnecessary travel & switching to more efficient or alternative fuel vehicles where feasible.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Prepare a strategy to reduce GHGs & criteria air contaminant (CAC) emissions associated with the operation of fleet vehicles, transit & heavy duty diesel (HDD) fleet vehicles</p> <p>2. Complete a best practice review of external municipalities to provide examples of green fleet strategies & projects</p>	<p>1. Identify opportunities per municipality for GHG reduction through sustainable fleet management</p> <p>2. Adopt effective green technologies & practices to reduce harmful air contaminants</p> <p>3. Reduce municipal fuel expenditures</p>	<p>Project lead(s): Each respective municipality</p> <p>Project support: County of Simcoe SMDHU, SSS & the SC, explore partnership opportunities with service providers such as fleetcarma, Telus Fleet Tracker, FCM's Enviro-Fleets case study, Eco Fleets, etc.</p>	<p>Medium-term, 2 yrs., 2022-2024</p>	<p>High, to be calculated based upon reduced fuel consumption</p>	<ul style="list-style-type: none"> - Alignment with Canada's Climate Plan - Cost-savings can be realized through reduced fuel purchases - Contribution to improved air quality - Improved awareness of transportation on GHG emissions & the municipalities carbon footprint 	<p>A, B, D, E</p>	<p>Permanent staff time to lead the project, approx. ¼ of regular workload, estimated at 10 hrs. per week, or 40 hrs. per month for 6 months (240 hrs.) approx. \$7,200 per yr., project costs approx. \$2,500 per yr. for a total estimate of \$9,700 per yr., or \$19,400 for 2 yrs.</p>	<ul style="list-style-type: none"> -FCM, Green Municipal Fund & future federal FCM & PCP funding programs -Climate Action Fund, Government of Canada -Summer Experience Program (SEP), Government of Ontario -Canada-Ontario Job grant, Ontario Ministry of Training, Colleges & University -Wage Subsidy program, Eco Canada 	<ul style="list-style-type: none"> - Number (#) of plans reviewed - Number (#) of actions & projects identified - Number (#) of action & project examples provided to municipalities - Number (#) of projects &/or action implemented - Amount (tCO2e) of GHGs sequestered or reduced - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>2</p> <p>Key words</p> <ul style="list-style-type: none"> - <i>Transportation</i> - <i>Low-carbon vehicles</i> - <i>Travel conservation policies</i>



Strategy 4: Reducing GHG emissions

Recommendation 4: Undertake a municipal waste audit in each respective municipal facility to identify opportunities for reduced GHGs contributions through improved recycling & green-bin/organics participation at these facilities & during municipally-led events & festivals.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: immediate 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Complete a waste audit in each respective municipal facility & in a minimum of 1 event per year (extent/scope to be determined by each municipality, considering facility size, management, &/or event size)</p> <p>i. Develop pre-audit practices & methodology</p> <p>ii. Develop an audit plan including audit scope, objectives, criteria, on-site activities, & process for data analysis</p> <p>iii. Prepare audit report, including recommendations such as:</p> <ul style="list-style-type: none"> a) containers or bins best suited to the building; b) placement/number of containers; c) establishment of a recycling/organics collection program d) reuse & reduction options for base daily waste (i.e., disposable dishes/coffee cups); e) economic analysis of the proposed recommendation 	<ol style="list-style-type: none"> 1. Increase the amount of paper, plastic, metals & organics that are recycled 2. Reduce GHG emissions through improved life-cycle of products & diversion of organic materials to landfills 3. Conserve natural resources through reduced need for new materials 4. Generate detailed information about waste composition in municipal facilities to support in efforts to reach County-wide diversion goals 	<p>Project lead: County of Simcoe</p> <p>Project support: Municipal facility managers, parks/recreation staff</p>	<p>Medium-term, 2 yrs., 2021-2023</p>	<p>High, to be calculated through the analysis of diversion weights & associated GHG (tCO₂e) rates per material</p>	<ul style="list-style-type: none"> - Reducing waste can also reduce municipal hauling fees, & limits frequency of waste removal services, resulting in cost-savings - Decreasing the amount of air & water pollution through proper recycling & disposal - Enhanced public awareness of recycling & organics programs - Demonstration of environmental leadership by municipalities 	<p>A, B, C</p>	<p>Permanent staff time to lead the project at 40 hrs. per week for 12 months, approx. \$57,600 per yr., project costs of approx. \$7,000 per yr. for a total estimate of \$64,600 per yr., or \$129,200 for 2 yrs.</p>	<ul style="list-style-type: none"> - FCM, Green Municipal Fund & future federal FCM & PCP funding programs - Climate Action Fund, Government of Canada - Canada-Ontario Job grant, Ontario Ministry of Training, Colleges & University - Wage Subsidy program, Eco Canada 	<ul style="list-style-type: none"> - Completion of audit practices & methodology - Number (#) of municipalities that are involved in the audit program - Number (#) of municipal facilities that are audited - Number (#) of audit reports completed - Number (#) of recommendations from the audit reports adopted in each municipality - Amount (tCO₂e) of GHGs reduced - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>2</p> <p>Key words</p> <ul style="list-style-type: none"> - Waste audit - Data analysis - Methane reduction



Strategy 4: Reducing GHG emissions

Recommendation 5: Work to support the increase of electric vehicles (EVs) ownership by developing policies & programs for EV use by municipal staff & the community by introducing employee incentives, supporting increased access to charging stations & implementing priority parking policies.

Actions to be implemented & the high-level tasks	Objectives What this will achieve or the need being addressed (i.e., reduce GHGs, maximize resources, transfer knowledge)	Leads & partners May include SC members, municipal staff, community, public or private sector agencies, volunteers	Timelines Timeframe to start & complete: 0-6 mos., short-term 6 mos. - 1 yr., medium-term 1-5 yrs., long-term >5 yrs.	Estimated GHG reduction potential GHG reduction potential high, medium, low, or estimate not available (n/a) that will result from the action	Additional benefits expected (i.e., alignment with regulations or policy, cost-savings or job creation, leverage of resources, social connections, environmental resiliency)	Municipal plan impact A. operations B. capital C. strategic D. asset management E. official F. conservation & demand management G. emergency management	Cost estimate Overview of the cost, detailed enough to provide an estimate	Funding & financing options Potential funding opportunities & financing options	Monitoring & reporting Key indicators that align with objectives, frequency of reporting noted if not annual or biennially	Priority (1-3, 1 highest, 3 lowest) & key subject words
<p>1. Develop a toolkit to support EV policy adoption & programs</p> <p>i. Complete a strategy to support the integration of the toolkit into municipal operations</p> <p>ii. Convene meetings with municipalities, local agencies & business to introduce the toolkit & discuss opportunities to encourage EV & hybrid ownership by their organization, staff & clientele</p>	<p>1. Increased support for EV ownership by municipalities & the public</p> <p>2. Develop support & understanding for EVs</p> <p>3. Foster long-term relationships with local agencies & businesses to help reduce GHGs & lower the region's carbon footprint</p>	<p>Project lead(s): County of Simcoe, SMDHU</p> <p>Project support: Academic institutions</p> <p>Project stakeholders: SSS, municipalities (16) in the County of Simcoe & the District of Muskoka (6), plus the cities of Orillia & Barrie, government agencies (i.e. Service Ontario, Ministry of the Environment, Conservation & Parks</p>	<p>Medium-term, 2-4 years, 2022-2026</p>	<p>High, to be calculated based upon increased EV charging stations & use, & EV & hybrid ownership by local governments & the community</p>	<ul style="list-style-type: none"> - Alignment with Canada's Climate Plan - Cost-savings for municipalities & community members whom own EVs or hybrids - Improved air quality - Enhanced EV charging network to support EV travel & tourism visits 	<p>A, B, C, D</p>	<p>Permanent staff time to lead the project, approx. 1/4 of regular workload, estimated at 10 hrs. per week, or 40 hrs. per month for 12 months (480 hrs.) approx. \$14,400 per yr., project costs approx. \$2,500 per yr. for a total estimate of \$16,900 per yr., or \$84,500 for 5 yrs.</p>	<ul style="list-style-type: none"> - FCM, Green Municipal Fund & future federal FCM & PCP funding programs - Climate Action Fund, Government of Canada - Summer Experience Program (SEP), Government of Ontario - Canada-Ontario Job grant, Ontario Ministry of Training, Colleges & University - Wage Subsidy program, Eco Canada - Explore partnership/commission with academic institutions 	<ul style="list-style-type: none"> - Number (#) of EV's registered per yr. through Service Ontario in each municipality - Number (#) of hybrids registered per yr. through Service Ontario in each municipality - Increase in number (#) of charging stations - Number (#) of uses of charging stations per yr. - Number (#) of municipal vehicles replaced with EV or hybrid options - Amount (tCO2e) of GHGs reduced by increased EV or hybrid use/replacement - Percentage (%) of population that has access to a charging station within 50 km of their residence - Dollars (\$) of funding secured &/or leveraged - Amount (hrs.) & value (\$) of in-kind contributions provided by those involved (municipal staff, Council, community members, project partners, etc.) 	<p>3</p> <p>Key words - <i>Electric vehicles (EVs)</i> - <i>Hybrid vehicles</i> - <i>Low-carbon transportation</i></p> 