

Greater Peterborough Area Climate Change Action Plan

Chapter 4 – Cavan Monaghan

Community and Corporate Climate Action Plans

September 30, 2016





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Section 1: Introduction and Overview

Greater Peterborough Area Climate Change Action Plan

In 2014, the Greater Peterborough Area's (GPA) member communities joined more than 250 other communities across Canada to address climate change through participation in the Partners for Climate Protection (PCP) program aimed at reducing GHG emissions from both municipal/First Nation corporate operations and community sources.

As part of the PCP program, the Climate Change Action Plan sets a course to reduce local contributions to climate change and prepare communities for present and expected changes that will occur as a result of climate change. This plan represents an integrated approach to dealing with some of the most important issues related to the sustainability of our diverse region. The overall objective of the CCAP is to reduce our greenhouse gas emissions through a reduction in fossil fuel use and lowering our energy consumption, and to better prepare for our changing climate. The Plan identifies strategies, actions, and emission reduction targets that fit with and address the needs of each municipality and First Nation within the GPA. This regionally coordinated approach will ensure that we act together to safeguard the health of our residents and ensure the stability of our local economic and natural resources against impacts related to climate change.

Climate Change Vision

In 2010, the GPA embarked on an exciting journey – the development of an Integrated Community Sustainability Plan, coined *Sustainable Peterborough*. Within the Sustainable Peterborough Plan, climate change was identified as one of the eleven key theme areas of focus. Each community of the GPA is working together to collectively achieve the following vision, as originally identified as the climate change goal in the Sustainable Peterborough Plan:

We will reduce our contributions to climate change while increasing our ability to adapt to climate change conditions.

Cavan Monaghan's Community and Corporate Action Plans

Chapter 4 of the CCAP includes Cavan Monaghan's Community (Section 2) and Corporate (Section 3) Action Plans. Both of these build on the overarching components outlined in the main CCAP, but provide greater detail specific to Cavan Monaghan. They both include the following:

- Where are we now a brief discussion of community and corporate baseline GHG emissions.
- Where do we want to go GHG emissions reductions targets for the community and corporation.
- How are we going to get there actions that the community and corporation will take to achieve its emissions reduction targets.

Section 2: Community Action Plan

Where are we now?

In 2011, 54,531 tonnes of CO₂e were emitted by the Township of Cavan Monaghan community. Based on the projected growth for the Township of Cavan Monaghan, community emissions are expected to grow to 64,755 tonnes CO₂e by 2031 if nothing is done to reduce GHG emissions. For further details on the Cavan Monaghan's baseline community emissions (PCP Milestone 1), please see the Appendix attached to this chapter entitled *Cavan Monaghan Corporate and Community Emissions Inventory*.

Where do we want to go?

The Cavan Monaghan community is aiming to achieve a 31% reduction in its GHG emissions from the 2011 baseline by 2031. This is equivalent to 17,017 less tonnes of CO_2e emitted per year by 2031, which would put the Township's community emissions at 37,514 tonnes of CO_2e per year by 2031 compared to the current 54,531 tonnes per year.

How are we going to get there?

The following tables detail the strategies and actions that Cavan Monaghan will use to achieve its community GHG emissions reduction target. Further detail on each strategy is provided in the main *Climate Change Action Plan* document.

Our Homes

Strategy H1: Help existing homes become more energy and water efficient and be more adaptable to climate risks		
	Mitigation impact: direct	Adaptation impact: direct
Primary Action	deep energy retrofit program efficiency gains of at least 30% building. Explore and investig	a business case for a comprehensive multi-year focused on existing households to achieve 6 to 50% depending on the age and type of the ate for Local Improvement Charges (LIC) and/or Community Improvement Plan (CIP).
Primary Action	•	ss case for a comprehensive multi-year deep
Assumptions		d be initiated/led on a regional level i.e. through implementation of a LIC program and/or CIP is ratively feasible.
GHG Emission	5,107 tonnes of CO₂e/per yea	r
Reduction Potential		

Strategy H2: Build new homes to be more efficient and have a smaller environmental footprint		
	Mitigation impact: direct Adaptation impact: direct	
Primary Action	Implement gradual improvement in new home construction that aligns with	
	amendments to the Ontario Building Code aimed at achieving near net-zero or	
	equivalent (0.14 to 0.24 GJ/m2) in all new buildings by 2031. Explore incentives	
	available through a CIP.	
Primary Action	The Ontario Government implements actions as part of the provincial Climate	
Assumptions	Change Action Plan particularly, incentives for near net-zero carbon homes,	

Strategy H2: Build new homes to be more efficient and have a smaller environmental footprint		
	lower carbon building code standards and electric vehicle rebate and electric vehicle charging station programs. The implementation of a CIP is financially and administratively feasible.	
Supporting Actions/	Supporting Policies	
Policies	 Ontario Building Code, Provincial Policy Statements, Ontario Climate Change Action Plan 	
GHG Emission	1,305 tonnes of CO₂e/per year	
Reduction Potential		

Strategy H3: Reduce the amount of waste generated by residents that contribute to greenhouse gas emissions		
	Mitigation impact: direct Adaptation impact: none	
Primary Action	Support a regional initiative to explore feasibility of capturing energy from waste (e.g. anaerobic digestion) to manage organic material and to reduce emissions of methane gas (County and City partnerships).	
Supporting Actions/	Supporting Actions & Initiatives	
Policies	 Educate residents on proper separation and disposal of waste under current regulatory requirements Work with the County of Peterborough to review efficiency of waste collection program 	
GHG Emission Reduction Potential	388 tonnes of CO₂e/per year	

Our Workplaces and Schools

Strategy W1: Improve energy and water efficiency of existing buildings and business operations	
	Mitigation impact: direct Adaptation impact: indirect
Primary Action	Work with utilities (PDI, Hydro One, Enbridge as appropriate) to deliver a coordinated deep energy retrofit program to industrial, commercial, and institutional organizations.
Primary Action	Utility companies expand upon existing retrofit programs and that a Township
Assumptions	CIP is adopted and budget provides for energy incentives.
Supporting Actions/	Supporting Actions & Initiatives
Policies	 Encourage local businesses to participate in energy benchmarking through the use of Energy Star Portfolio Manager provided through Natural Resources Canada
GHG Emission Reduction Potential	1,388 tonnes of CO₂e/per year

Strategy W2: Build new buildings to be more efficient and have a smaller environmental impact		
	Mitigation impact: direct	Adaptation impact: direct
Primary Action	Implement gradual improveme	ent in efficiency of industrial, commercial, and
	institutional buildings.	

Strategy W2: Build new buildings to be more efficient and have a smaller environmental impact		
Primary Action	The Ontario Building Code will implement proposed changes as per the	
Assumptions	Ontario Climate Change Action Plan	
Supporting Actions/	Supporting Policies	
Policies	 Explore completing a CIP that includes incentives for more efficient industrial, commercial and industrial buildings Review and where possible adjust zoning requirements and/or policy direction to encourage cycling and other sustainable modes of travel for new commercial development (e.g. reduced parking requirements, bike storage, employee showers) 	
GHG Emission	868 tonnes of CO₂e/per year	
Reduction Potential		

Strategy W3: Facilitate climate change friendly business operations and practices	
	Mitigation impact: indirect Adaptation impact: direct
Primary Action	Support Sustainable Peterborough Business Initiative to build a toolkit for Greater Peterborough Area businesses to assist with climate change impact analysis and business continuity planning for extreme weather.
Supporting Actions/	Supporting Actions & Initiatives
Policies	 Engage with businesses and institutions to implement corporate sustainability initiatives aimed at reducing greenhouse gas emissions (County and City partnership) Work with institutions and businesses to support implementation of food waste reduction and/or diversion (County and City partnership)
GHG Emission Reduction Potential	Impact on GHG emissions nominal

Strategy W4: Support	local economic resilience and growth of the local green economy
Primary Action	Mitigation impact: indirect Support Peterborough GreenUP as a "one-stop shop" for businesses to learn about and advance sustainability through the Green Business Peterborough Program.
Supporting Actions/	Supporting Actions & Initiatives
Policies	 Explore opportunity and locations to establish a local eco business zone or "Partners in Project Green" program to share resources amongst businesses and encourage green industries (County and City partnership) Support the Greater Peterborough Chamber Of Commerce to establish a business leadership and mentorship program to support energy and climate leadership amongst businesses as part of the Peterborough Business Excellence Awards
GHG Emission Reduction Potential	Impact on GHG emissions nominal

Strategy W5: Facilitate low carbon energy generation and local energy security	
	Mitigation impact: direct Adaptation impact: direct
Primary Action	Participate in a regional study to explore the potential to implement local
	renewable energy generation and storage (institutional, commercial,
	industrial, and residential).
Primary Action	Solar PVs are to generate 5% of the electricity demand in IC&I and residential
Assumptions	buildings, while 6% of the natural gas consumed in all buildings are to come
	from renewable sources by 2031.
GHG Emission	997 tonnes of CO₂e/per year
Reduction Potential	

On the Move

Strategy M1: Build an active transportation network and support active transportation		
	Mitigation impact: direct Adaptation impact: none	
Primary Action	Reduce vehicle trips and foster greater walking and cycling mode share	
	through a coordination of efforts.	
Primary Action	Active transportation in the County is expected to focus on recreational	
Assumptions	opportunities and a nominal shift in modal split is expected. Development of	
	the Active Transportation Master Plan is currently underway.	
Supporting Actions/	Supporting Actions & Initiatives	
Policies	 Continue to work towards implementing the Pedestrian and Cycling 	
	Routes & Facilities policy within the Official Plan	
GHG Emission	Impact on GHG emissions nominal	
Reduction Potential		

Strategy M2: Facilitate alternatives to single-occupant vehicle use to reduce frequency of personal vehicle use		
Primary Action	Mitigation impact: direct Explore feasibility of a carpool lot network (formal and informal spaces) (in partnership with the County and other Townships).	
Primary Action Assumptions	Carpooling, or travel as a passenger in a vehicle, to increase by 3% by 2031.	
Supporting Actions/	Supporting Actions & Initiatives	
Policies	 Work with businesses and schools to implement preferred parking for carpoolers 	
GHG Emission Reduction Potential	289 tonnes of CO₂e/per year	

Strategy M3: Make public transportation more appealing to increase its usage		
	Mitigation impact: direct	Adaptation impact: none
Primary Action	Explore feasibility and joint County-Townships delivery of County Transit services or alternative methods of public transportation as part of next County Transportation Master Plan Update.	

Strategy M3: Make public transportation more appealing to increase its usage		
Primary Action	Travel by public transportation to increase by 4% by 2031.	
Assumptions		
GHG Emission	385 tonnes of CO₂e/per year	
Reduction Potential		

Strategy M4: Help tra	insition vehicles to use cleaner and lower greenhouse gas emitting fuel sources		
	Mitigation impact: direct Adaptation impact: none		
Primary Action	Support a shift in vehicle technology to Electric Vehicles (EVs).		
Primary Action	12% of all vehicles on the road in 2031 are to be EVs.		
Assumptions			
Supporting Actions/	Supporting Actions & Initiatives		
Policies	 Install electric vehicle charging stations for public usage (budget permitting) 		
	 Support [local organizations] to work with local businesses to transition corporate fleets to EV 		
GHG Emission	9,034 tonnes of CO₂e/per year		
Reduction Potential			

Our Food

Strategy F1: Support	localization of the food system		
	Mitigation impact: indirect Adaptation impact: indirect		
Primary Action	Support the undertaking of a regional community food system assessment to		
	better understand local food production and movement within the GPA.		
Supporting Actions/	Supporting Policies		
Policies	 Continue to implement policies supporting agriculture and rural employment 		
	Supporting Actions & Initiatives		
	 Continue to expand the network of community gardens throughout the Greater Peterborough Area and engage the broader community in the value of gardening 		
	 Support local organizations to provide community skill sharing programs to increase awareness among community members on how to grow, process, and store food 		
	 Support local organizations in training, facilitating access to land and promoting successful entrepreneurship of new farmers and food business to increase the production and processing, distribution and retailing of local food 		
GHG Emission	Impact on GHG emissions nominal		
Reduction Potential			

Strategy F2: Encourage purchasing of locally produced food			
	Mitigation impact: indirect	Adaptation impact: indirect	

Strategy F2: Encourage purchasing of locally produced food		
Supporting Actions/	Supporting Actions & Initiatives	
Policies	 Support local organizations to promote the marketing of locally- produced food through initiatives such as the Purple Onion Festival and Local Food Month 	
	 Expand and promote the Farmers Market Network across the Greater Peterborough Area 	
	 Support and encourage farm gate sale of produce 	
GHG Emission Reduction Potential	Impact on GHG emissions nominal	

Strategy F3: Reduce the amount of wasted food			
	Mitigation impact: direct Adaptation impact: none		
Primary Action	Implement a residential awareness campaign to encourage elimination of wasted food in the home, workplaces, and schools.		
Primary Action Assumptions	Reduce the proportion of wasted food in the waste stream by 11% by 2031.		
Supporting Actions/	Supporting Actions & Initiatives		
Policies	 Support establishment of a food rescue program in partnership with local food retailers, manufactures, restaurants, caterers to collect and redistribute excess food to those in need that would otherwise be disposed of (County and City partnership) 		
GHG Emission Reduction Potential	74 tonnes of CO₂e/per year		

Our Land

Strategy L1: Strengthen land use policy and the development review process to better support climate change mitigation and adaptation		
	Mitigation impact: indirect Adaptation impact: direct	
Primary Action	Participate in a collaborative multidisciplinary review team to assess provincial and local land use planning legislation and tools and make recommendations to decision-makers on how to best implement an ecosystem-based approach to the development application process (partnership amongst all communities).	
Supporting Actions/	Supporting Policies	
Policies	 Integrate climate change policies into Official Plans Continue to encourage new development that supports building complete communities that are mixed-use, compact, and higher density to achieve intensification targets outlined in the Provincial Growth Plan 	
	Supporting Actions & Initiatives	

Strategy L1: Strengthen land use policy and the development review process to better support climate change mitigation and adaptation

- Sustainability metrics tool to predict, measure and report the sustainability performance (including GHG emissions) of proposed developments focusing on the built environment, mobility, natural environment, and infrastructure and buildings (e.g. Richmond Hill/Vaughan/Brampton)
- Continue/enhance education opportunities on the need for increased housing density and implications related to climate change at all points of contact with decision-makers, stakeholders, and the public

GHG Emission
Reduction Potential

Non-quantifiable with available information

Strategy L2: Identify of	limate change risks and prepare for potential impacts	
	Mitigation impact: none Adaptation impact: direct	
Primary Action	Participate in a Greater Peterborough Area-wide vulnerability assessment of expected climate change impacts (including drought and lake levels) (coordinated amongst all communities).	
Supporting Actions/	Supporting Actions & Initiatives	
Policies	 Consider the adoption of the Low Impact Development Stormwater Management Planning and Design Guide (CVC/TRCA) for landscape- based stormwater management planning and low impact development stormwater management practices Consider updating engineering design standards to improve climate change readiness of new infrastructure by taking a green infrastructure approach first and increasing flood standards to a 200-year storm standard rather than the current 100-year standard 	
GHG Emission	None	
Reduction Potential		

Strategy L3: Protect a	ind enhance natural assets		
	Mitigation impact: indirect Adaptation impact: direct		
Primary Action	Support the development and implementation of a regional Natural Heritage		
	System Plan (City and County with Townships).		
Supporting Actions/	Supporting Policies		
Policies	 Investigate the possibility of a tree replacement policy 		
	 Supporting Actions & Initiatives Support and promote local Conservation Authorities' tree planting programs to encourage planting trees on public and private property Support local Conservation Authorities to deliver planting and restoration projects at strategic high priority areas with climate ready species 		
GHG Emission	Non-quantifiable with available information		
Reduction Potential			

adaptation	Mitigation impact: indirect	Adaptation impact: direct
Supporting Actions/	Supporting Actions & Initiatives	
Policies	 Promote usage of Agriculture and Agri-Food Canada's no-cost Holos GHG emissions modeling tool to assist farmers in assessing their GHG emissions and exploring various farm management scenarios Support [local agricultural organizations] to host local agricultural forums and training sessions to engage with farmers on how to implement climate change mitigation and adaptation related best management practices Support [local agricultural organizations] to promote local participation in the Canada-Ontario Environmental Farm Program to encourage farmers to increase knowledge, conduct assessments, and develop and 	
	implement Environmental Farm Plans for their farms	
GHG Emission	2,780 tonnes of CO₂e/per year¹	
Reduction Potential		

Our People

Strategy P1: Prepare for the health impacts associated with a changing climate					
	Mitigation impact: none Adaptation impact: direct				
Primary Action	Support the development of a local community vulnerability assessment of public health impacts from climate change to identify climate risks on vulnerable populations (in partnership with all communities).				
Supporting Actions/	Supporting Actions & Initiatives				
Policies	 Establish a protocol for extreme weather alerts and flooding updates 				
GHG Emission	None				
Reduction Potential					

Strategy P2: Foster a culture of climate change awareness						
	Mitigation impact: indirect Adaptation impact: indirect					
Supporting Actions/	Supporting Actions & Initiatives					
Policies	 Support Sustainable Peterborough and other local organizations in hosting regular events focused on climate change (speaker series, annual event, etc.) Support Sustainable Peterborough in seeking buy-in and endorsement/support for the shared vision and goals of Community 					

¹ Total reduction potential per year based on uptake of anaerobic digesters (biogas), enteric fermentation reduction, changing manure management practices, and adopting best practices for soil management.

Strategy P2: Foster a culture of climate change awareness						
	Climate Change Action Plan from existing groups and organizations in the Greater Peterborough Area					
	 Support Sustainable Peterborough to host a community, youth, adult, and senior climate change champion through the annual Sustainable Peterborough Awards 					
GHG Emission Reduction Potential	Impact on GHG emissions nominal					

Strategy P3: Encourage civic engagement around climate change						
	Mitigation impact: indirect Adaptation impact: indirect					
Primary Action	Develop a charter and guidelines (engagement strategy) to foster meaningful community engagement in climate change issues and environmental stewardship (partnership amongst all communities).					
Supporting Actions/	Supporting Actions & Initiatives					
Policies	 Support Sustainable Peterborough to establish a youth advisory committee on climate change to empower youth to take action on climate change 					
GHG Emission Reduction Potential	Impact on GHG emissions nominal					

Decarbonization of the Electric Grid

Since the baseline year of 2011, the Province of Ontario has taken steps to reduce the GHG emissions associated with the electrical grid. For example, it closed all of its coal-fired power plants. This in turn will result in significant GHG Emission Reduction Potential for the Cavan Monaghan community, totalling 4,586 tonnes of CO₂e/per year.

Section 3: Corporate Action Plan

Where are we now?

In 2011, 646 tonnes of CO₂e were emitted by the Township of Cavan Monaghan's corporate operations. The business-as-usual forecast for the corporate operations is based on annual growth rates derived from official population projections. Emissions from corporate operations are projected to increase to 770 tCO₂e per year by 2031 if the Township continued to operate as it did in the baseline year without taking any actions to reduce GHG emissions. For further details on the Cavan Monaghan's baseline corporate emissions (PCP Milestone 1), please see the Appendix attached to this chapter entitled *Cavan Monaghan Corporate and Community Emissions Inventory*.

Where do we want to go?

Cavan Monaghan is aiming to achieve a 29% reduction in its corporate GHG emissions from the 2011 baseline by 2031. This is equivalent to 190 less tonnes of CO_2e emitted per year by 2031, which would put the Township's corporate emissions at 456 tonnes of CO_2e per year by 2031 compared to the current 646 tonnes per year.

How are we going to get there?

The following table details the strategies and actions that Cavan Monaghan will use to achieve its corporate GHG emissions reduction target.

	Timeframe			
Township of Cavan-Monaghan Corporate Action	Underway	Short	Med	Long
Plan	or	(1-4	(5-9	(10+
	Complete	years)	years)	years)
Buildings				
Strategy 1: Institutionalize energy efficiency and low carbon	thinking ir	nto the o	organizat	ion
Facilitate provincial funded employee training for energy		X	X	Х
efficiency		^	^	^
Establish a policy to consider highest energy efficiency as part of		Х		
procurement requirements and evaluation		^		
Monitor incentive programs offered through electricity and				
natural gas providers to be leveraged for implementing energy		Χ	Χ	Χ
efficiency improvements				
GHG Emission Reduction Potential: In-direct GHG reductions				
Strategy 2: Enhance operational efficiency of existing building	ngs			
Implement a building/facility assessment tool/process to explore				
opportunities for improved efficiency (e.g. annual facility walk	X			
through)				
Conduct building re-commissioning to optimize operations		Χ	Χ	Χ
Implement/continue to deliver an equipment preventative	Χ	X	X	Х
maintenance program on an ongoing basis	^	^	^	٨
GHG Emission Reduction Potential: 16 tonnes of CO₂e/per year				

		•		
Strategy 3: Build municipal facilities to ensure high environr	mental p	performa	nce	
Consider the establishment of a Green New Building Policy to				
require new municipal buildings and major renovations be		Χ		
built to high environmental standards in alignment with				
Official Plan direction				
Install electric vehicle charging stations at new facilities for		Χ	Х	Х
public use if feasible		^	,,	, ,
GHG Emission Reduction Potential: 36 tonnes of CO ₂ e/per year				
Strategy 4: Improve environmental performance of existing	munici	pal facilit	ies	
Consider implementing an interior and exterior LED lighting	Х	Χ	Х	Х
retrofit program in all facilities where feasible	^	^	Λ	^
Replace appliances with Energy STAR rated appliances as	Х	Х	Х	Х
needed	^	^	^	^
Upgrade insulation/building envelope while conducting other		Х	Х	Х
essential building work (e.g. asbestos removal) where feasible		^	٨	^
Replace windows and doors with high efficiency according to		Х	Х	Х
replacement schedule/need		۸	۸	^
Replace mechanical equipment with high efficiency according		Х	Х	Х
to replacement schedule/need		۸	۸	^
GHG Emission Reduction Potential: 67 tonnes of CO₂e/per				
year				
Strategy 5: Utilize renewable energy sources				
Continue to install solar photovoltaic panels and other	Χ	Х	Х	Х
renewable energy options when feasible	^	^	^	^
GHG Emission Reduction Potential: 3 tonnes of CO₂e/per year				
Fleet				
Strategy 6: Transition the municipal fleet to be more efficien	nt and le	ess carbo	n emittir	ng
Consider the development and implement a Green Fleet				
Strategy and replacement schedule				
 Right sizing vehicle/appropriate vehicle class (fit-for 				
purpose vehicles) through replacement schedule				
 Transitioning to low emission and alternative fuel 		Χ	Χ	Х
vehicles (e.g. clean diesel, advanced natural gas,				
ethanol, or hybrid)				
Use of anti-idling technology				
 Fuel and vehicle performance monitoring 				
- Tuer and verticle performance monitoring				
Develop and implement a no idling policy	Y			
Develop and implement a no idling policy	Χ			
Implement an operator training and education program (e.g.	X	Х	Χ	Х
Implement an operator training and education program (e.g. eco driving)	X	Х	Χ	Х
Implement an operator training and education program (e.g. eco driving) Continue with preventative maintenance program for vehicles	X	x x	X X	X X
Implement an operator training and education program (e.g. eco driving) Continue with preventative maintenance program for vehicles and equipment				
Implement an operator training and education program (e.g. eco driving) Continue with preventative maintenance program for vehicles and equipment GHG Emission Reduction Potential: 101 tonnes of CO₂e/per				
Implement an operator training and education program (e.g. eco driving) Continue with preventative maintenance program for vehicles and equipment				

Maintain mechanical equipment at the Millbrook Wastewater				
Treatment Plan as part of the expansion	Х			
Review and optimize pumps and blowers	Χ			
Continue to deliver preventative maintenance program			Χ	Χ
Continue to deliver operator training and education program	Χ	Χ	Χ	Χ
Continue to monitor and track energy performance	Χ	Χ	Χ	Χ
GHG Emission Reduction Potential: 8 tonnes of CO ₂ e/per year				
Streetlighting				
Strategy 8: Improve energy efficiency of the streetlighting s	system			
Implement LED street lighting and parking lot lighting	Х	X		
replacement program	^	^		
GHG Emission Reduction Potential: 7 tonnes of CO₂e/per year				
Solid Waste				
Strategy 9: Reduce the amount of organic waste generated	through	municip	al opera	tions
Continue to participant in the office waste diversion program	Χ	Χ	Χ	Χ
Consider implementing office organic waste diversion through				
use of backyard composters in conjunction with community		Χ		
gardens				
Implement staff education and awareness program related to		X		
waste minimization and diversion		Λ		
Explore source separation of waste in public areas (e.g. parks,			X	
downtown)			^\	
GHG Emission Reduction Potential: 13 tonnes of CO₂e/per				

Decarbonization of Electricity Grid

Since the baseline year of 2011, the Province of Ontario has taken steps to reduce the GHG emissions associated with the electrical grid. For example, it closed all of its coal-fired power plants. This in turn will result in significant GHG Emission Reduction Potential for Cavan Monaghan's corporate emissions, totalling 65 tonnes of CO_2e/per year.