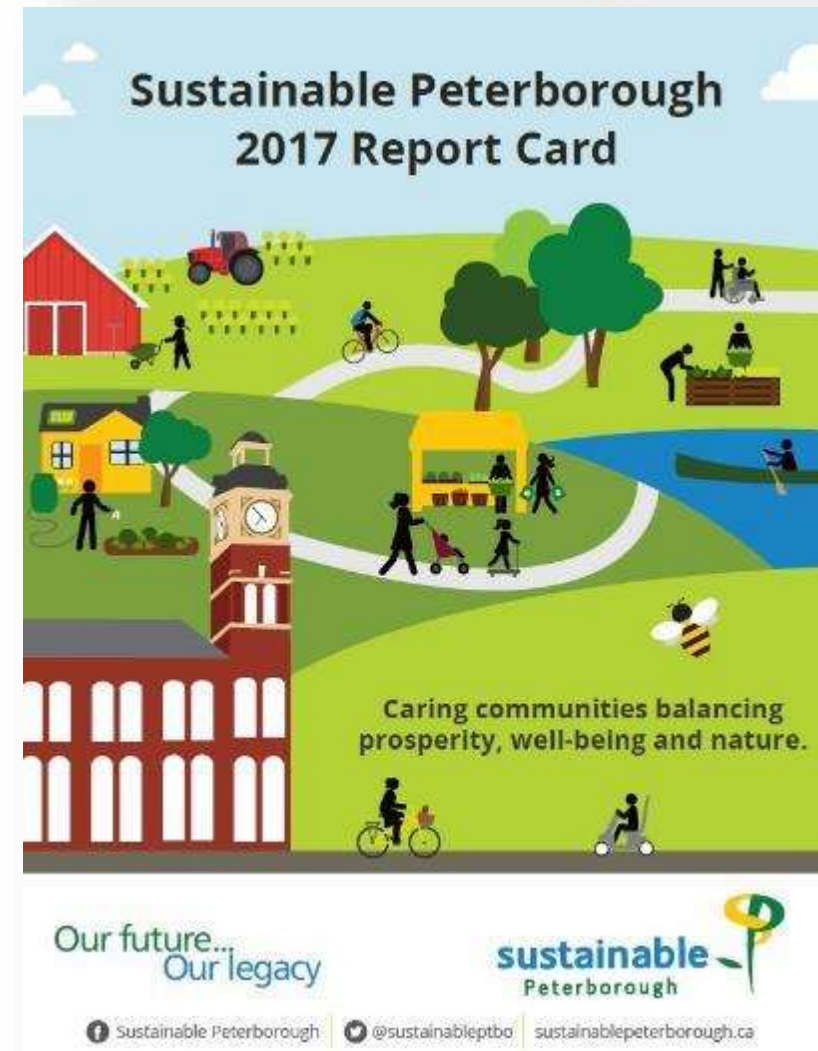


sustainable Peterborough



Annual Report Cards

The 2017 Report Card is our 6th Report Card!



Sustainable Peterborough 2017 Overview

154
Partners

7
Working
Groups

3
Staff
Members

First regional
Peterborough/Kawarthas
/Northumberland Region
Envirothon

Climate Change Action Plan
updated baseline inventory for 2012-
2015 municipal and community actions
launched toolbox of resources

**3rd annual
SP Partnership Recognition Event and Awards**
held at the Lang Pioneer Village Museum's
Peterborough County Agricultural Heritage
Building

47

Greater
Peterborough Area
residents signed
the CCAP pledge
to reduce their
greenhouse gases.



**Healthy Kids
Community
Challenge**

wrapped up Theme 2,
"Water Does
Wonders", and ran
Theme 3, "Choose to
Boost Veggies and
Fruit"



Township of Asphodel-Norwood's 2017 Key Accomplishments

- LED retrofit project - replaced the Parking Lot and Exterior Lighting at the Community Centre.
- All Town Hall lighting was retrofitted to LED.
- Flora Street was completely reconstructed with new Water main, sewer main and storm infrastructure to prevent future leaks or failures.
- Installation of EV charging station.





Township of Cavan Monaghan's 2017 Key Accomplishments

- The Municipal Revitalization and Heritage Advisory Committee for the Township of Cavan Monaghan is introducing a Municipal Heritage Recognition for Preservation of Architecture and/or Natural History Awards Program to recognize and honour individuals or businesses that have made changes in their home or business which are in keeping with and sympathetic to the historic integrity of the structure, site or landscape.
- The Township of Cavan Monaghan adopted their Detailed Streetscape & Design Guidelines for Downtown Millbrook.
- installed a water bottle filling station at Maple Leaf Park.
- retrofitted existing decorative streetlights on Tupper, Centre and Union Streets to LED.





City of Peterborough's 2017 Key Accomplishments

- City Council enacted two new tree by-laws to regulate the injury or destruction of healthy trees or woodland on private property through a permitting process
- LED retrofit at the Memorial Centre
- Adding more landfill gas collection wells at the landfill
- Launched a free on-line pilot Waste and Consumption Zero Heroes program for elementary school classes



County of Peterborough's 2017 Key Accomplishments

15,670 meters of paved
shoulders on County Roads to
promote Active Transportation

Over 10,762 tonnes of asphalt
pavement recycled during
County Road projects

42 composters installed
at residents' homes



4.2 metric tonnes of organics
diverted from landfill!



Internal Bike Share program for staff



Peterborough County/ City Paramedics
ran a pilot program where they
installed solar panels on one
ambulance. Combined with eco-drive,
that initiative resulted in an annual
savings of over **3727 litres of fuel,**
16,937 lbs. of CO₂ and \$3,728.

Curve Lake First Nation's 2017 Key Accomplishments

- CLFN Milestone 2 and 3 Reports received First Nation Council Resolution (FNCR) and were finalized in November and December, 2017. Hiawatha First Nation and Curve Lake First Nation have become the first, First Nations in Canada to complete the FCM Partners for Climate Protection Milestones 1, 2 & 3.
- Small community garden at the Health Centre and pilot vegetable garden at the Food Bank.
- Bi-weekly farmers market pilot project in partnership with Nourish Peterborough – providing access to locally sourced and organic foods.



Rain garden
installation at
the Curve
Lake First
Nation School.





Curve Lake First Nation's 2017 Key Accomplishments

- Pow Wow Grounds Beautification – Safer, more easily accessible
- SP award winner, Transportation - The issue of rural transportation has come to the forefront for many years, both locally and regionally. The Safe Travels program initiated by Curve Lake First Nation, in collaboration with Ontario Works, began as a pilot in 2017 as a way to help address what they identified as the largest barrier to education, training and employment for its residents – the lack of transportation. The Safe Travels program offers a low cost, safe, convenient, and environmentally friendly mode of public transportation to and from Curve Lake to Lakefield, Bridgenorth and in Peterborough at Trent University, Fleming College, Chemong Street, Downtown Peterborough, and Lansdowne Place. The program was deemed a success and will continue beyond 2017!



Installed a composter at Community Centre and the compost is intended to be used in community gardens

Township of Douro Dummer's 2017 Key Accomplishments

- Donation of land to Habitat for Humanity in the Hamlet of Warsaw to construct a home.
- Historical committee is actively working on preserving the 5 abandoned cemeteries for which the Township is responsible.
- New, more efficient, Fire Department Vehicle
- Planted 9,000 trees through Trees Canada program.
- Instituted a free adult and parent & tot skate at community centres.
- Digesters installed at both community centres and municipal buildings to eliminate organics from garbage.
- New public works snow plow truck purchased with anti-idling technology.



Township of Havelock- Belmont- Methuen's 2017 Key Accomplishments

- The Township of Havelock-Belmont-Methuen replaced streetlights and outdoor public works facility & transfer station lighting with LED (light emitting diode) lighting. The Township replaced 133, 150 W HPS streetlights with 73 W LED streetlights and 41, 250 W HPS streetlights with 105.85 W LED streetlights. The estimated one time save on energy rebate that the Township will be receiving from Hydro one will be around \$13,050.00. Additionally the estimated energy savings for the streetlight retrofit is 146,160.00 kWh per year with an estimated energy and maintenance cost savings of \$15,626.42 in the first year with that number increasing each year thereafter. The payback of the streetlight conversion will be approximately 5 years.

Hiawatha First Nation's 2017 Key Accomplishments

- HFN Milestone 2 and 3 Reports received First Nation Council Resolution (FNCR) and were finalized in November and December, 2017. Hiawatha First Nation and Curve Lake First Nation have become the first, First Nations in Canada to complete the FCM Partners for Climate Protection Milestones 1, 2 & 3.
- successful in securing funding from the Independent Electricity System Operator (IESO) to complete a Community Energy Plan.
- Hiawatha's Community Energy Plan will examine ways to use less electricity, manage energy costs, explore new opportunities, and help the environment. The plan will also promote a greater community interest, awareness and understanding about energy planning. Community members are encouraged to become involved in developing and implementing the plan.
 - Phase 1 activities include gathering background information (Hydro and Fuel Bills), performing and energy audit of community buildings and establishing Hiawatha's energy usage baseline
 - Community Meeting #1 was held on Saturday, October 14th, 2017. The purpose of this meeting was to raise community awareness of the ACEP process and the information collected to date. During this meeting the project team gathered community input with respect to energy usage and costs, as well as feedback on potential community goals and initiatives
 - On December 4th and 5th, project team members completed audits of community buildings, including: Child and Health Services, the Firehall and the Old Railroad stop store and restaurant.
 - The next step is to analyze the information collected during to date and through completing the audit, as needed to establish the community's current energy usage baseline.



Township of North Kawartha's 2017 Key Accomplishments

- The Township of North Kawartha participated in National Canadian Film Day 150, the world's largest one-day film festival ever hosted.
- The Township of North Kawartha participated in a pilot partnership with Peterborough Public Health to provide delivery service of water test samples from the Township of North Kawartha Municipal Office to the Regional Public Health Laboratory in Peterborough





Township of Otonabee-South Monaghan's 2017 Key Accomplishments

- 10th Annual Keene Pumpkinfest.
- OSM Historical Society Canada150 Farm Photo Project.
- 1st Annual Greenbridge Celtic Folk Fest.
- New sidewalk installation connecting Monaghan Court senior apartments to commercial district in Keene.
- Otonabee Memorial Community Centre Retrofit Phase 1 including new energy efficient ice plant.
- Roof Repairs & Insulation improvements at Stewart Hall CC.



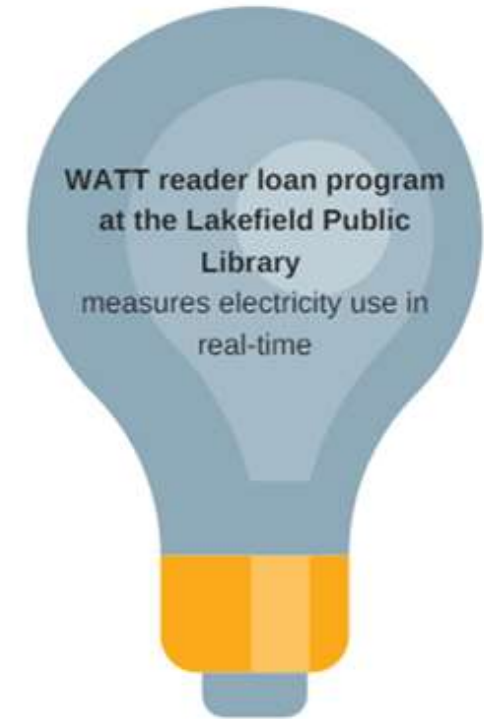
Selwyn Township's 2017 Key Accomplishments

- Library delivered 625 programs in 2017 with 7,638 attendees! Programs include early literacy, reading programs, book clubs, technology training, themed programming.
- adopted a Bylaw to provide for a Heritage Tax Relief Program. Heritage property tax relief is an incentive to help owners maintain and restore their heritage properties.
- Conducted a Business Retention and Expansion program focusing on the retail and service sectors. Conducted 71 face to face interviews with businesses and prepared final report and recommended action items. One key action item was development of an Economic Development Strategy which commenced in 2017 and will be finalized in early 2018.



Selwyn Township's 2017 Key Accomplishments

- SP award winner, Energy - installed Real Ice in their Ennismore Arena. The Real Ice Technology allows them to make excellent quality ice with cold water, rather than hot. The REALice system has no moving parts, doesn't consume any electrical energy, and does not require chemicals to treat the water to make good ice. Flooding with cold water has allowed them to move the set point on their ice plant up by 2 degrees F which is resulting in significant energy savings. Overall, the system is estimated to save 54,310 kWh, natural gas savings of 8,455 cubic meters, and \$12,000 annually.
- Canada 150 Re-leaf program, whereby 150 property owners were provided with a maple tree to plant along the streetline of their properties.
- Planted 1,200 trees in Township gravel pits.



Municipality of Trent Lakes' 2017 Key Accomplishments

- New rolling stock (excavators, grader, tandem) all with tier 4 engines and new pick-ups that burn cleaner. Tier 4 compliant engines significantly reduce emissions of particulate matter (PM) and oxides of nitrogen (NOx) to near zero levels. Relative to previous emissions standards, Tier 4 compliant engines reduce emissions by over 95 percent for most construction equipment
- Installation of new LED lighting in entrance and LED pot lights in Council Chambers. New LED outdoor lighting at all Public Works depots. New LED outdoor lighting at all Waste Transfer Stations.
- New energy efficient HVAC furnaces and water heaters at the Cavendish and Galway Community Halls.
- New energy efficient windows at the Buckhorn Library.

Through their recycling and waste diversion programs, such as the new clear bag program, the **Municipality of Trent Lakes** **reduced its garbage by 651 tonnes** or **35%** in 2017 from 2016.



Agriculture and Local Food



Peterborough Pollinators' new initiative, "What a Grocery Store Looks Like Without Bees", at the **Purple Onion Festival**, to raise awareness of the importance of pollinators



Curve Lake First Nation established **2** new community gardens.



11 farmers' markets in the Greater Peterborough Area

48 Student Nutrition Programs

in Peterborough City and County received equipment and fresh produce, helping provide nearly **16,000** students with fresh fruit and vegetables.



Cultural Assets



Economic Development & Employment



sells the work of 26 local artists, and many items made in-house, including blacksmithing items, knitted and crochet wear, honey and beeswax candles



ECONOMIC DEVELOPMENT

won a provincial award from Economic Developers Council of Ontario for its video series that promoted the local food and agriculture sector.

Kawartha Local Marketplace only sells products where the company, manufacturing and materials are located within a **50-kilometer radius from Peterborough.**



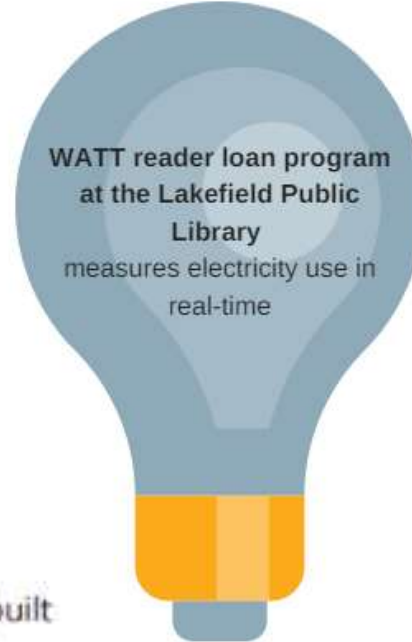
Held a job fair providing jobs for three individuals with intellectual and developmental disabilities.



Energy



WATT reader loan program
at the Lakefield Public
Library
measures electricity use in
real-time



Peterborough Mitsubishi
upgraded all exterior
lighting to LED



In partnership with
Ryerson University,
Endeavour Centre built
Zero House - a home
that featured **zero**
net energy use, carbon
footprint, fossil fuel use, toxins
and construction waste!



Peterborough Utilities Group distributed
100 clotheslines, saving an estimated
85,000 kWh.

Healthy Communities



over 2,000 people attended!



Over 10,000
people
participated
in
Peterborough
Pulse!



Over 20 First Nations and Non First Nations youth participated in a 6 day canoe trip organized by Camp Kawartha and the Rotary Club of Peterborough- Kawartha, learning about First Nations history and fostering cross cultural understanding



34 educators

30 Childcare Supervisors trained in the You're the Chef program
over 100 children participated

Land Use Planning



The Municipality of Trent Lakes purchased a vacant lot in the centre of Buckhorn on the shoreline of Buckhorn Lake and Lock 31, to be preserved as parkland.



City of
Peterborough
Official Plan Review



Natural Assets



25 Monarch butterflies were reared, tagged and released at GreenUP's Ecology Park



Three Sisters created over 30 bee hotels made with 100% re-purposed materials



KAWARTHA LAND TRUST
protected 2 new properties and planted 2 acres of pollinator habitat

Transportation

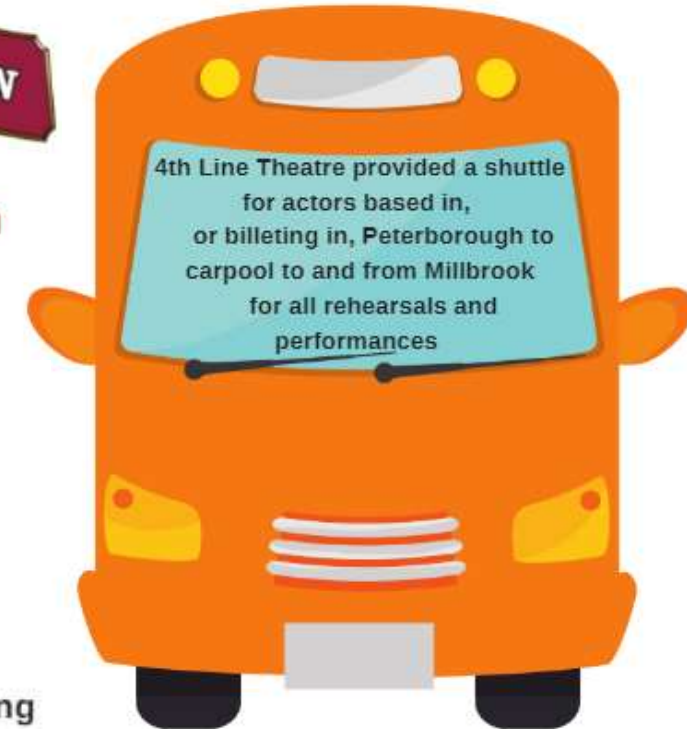
The Township of Otonabee-South Monaghan installed a sidewalk connecting Monaghan Court senior apartments to the commercial district in Keene.



initiated Safe Travels program



755 youth participated in bike riding skills programs offered by BIKE and GreenUP



Waste



Whistle Stop Café installed a Sanimax tank so that old cooking oil is now recycled and repurposed into various products.

Water



Started re-using heat exchange water
from the first brew for the second
brew



provided a free water refill
station



installed 8 rain gardens in partnership with homeowners
and the City of Peterborough, Basterfield and Associates
Landscape Architects, Green Communities Canada
(funded by Ontario Trillium Foundation)

SIEMENS

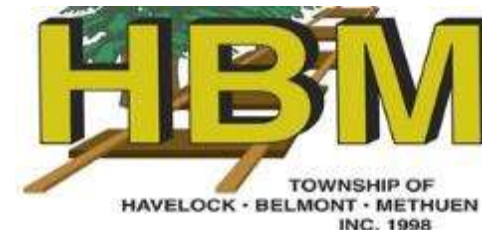
decreased water consumption by 72% by installing a
closed loop system that re-circulates chilled water to
cool production equipment, replacing an open-ended
system



2017 Sustainable Peterborough Coordinating Committee



ECONOMIC DEVELOPMENT



Annual Sustainable Peterborough Partnership Recognition Awards

Agriculture and Local Food – **Locavorest**

Climate Change – **Endeavour Centre**

Cultural Assets – **New Canadians Centre**

Economic Development & Employment – **Lansdowne Place**

Energy – **Township of Selwyn**

Healthy Communities – **Age-friendly Ptbo Advisory Committee**

Land Use Planning – **The Mount Community Centre**

Natural Assets – **Peterborough Pollinators**

Transportation – **Curve Lake First Nation**

Waste – **Whistle Stop Café**

Water – **Siemens Canada Limited, Peterborough**



Greater Peterborough Area Climate Change Action Plan



All 12 of our partners have adopted their Corporate and Community Targets and Local Action Plans, completing Milestones 2 and 3 of FCM's PCP Program.

Next Steps are completion of Milestones 4 and 5.

Climate Change Coordinator to lead mitigation and adaption initiatives across the GPA.



Summary of Community GHG Reduction

Municipality/ First Nation	2012-2015 Community Actions	Impact of Phase out of Coal on 2011 data	Total GHG Reduction to 2015	Community Target 2031
City of Peterborough	5%	9%	14%	30%
County of Peterborough	5.3%	8%	13.3%	31%
Asphodel-Norwood	3%	5%	8%	25%
Cavan Monaghan	3%	7%	10%	31%
Douro-Dummer	3%	6%	9%	29%
Havelock-Belmont-Methuen	4%	12%	16%	31%
North Kawartha	8%	14%	22%	25%
Otonabee-South Monaghan	5.1%	6%	11.1%	25%
Selwyn	7%	10%	17%	39%
Trent Lakes	12%	12%	24%	39%
Curve Lake First Nation	0%	11%	11%	15%
Hiawatha First Nation	0%	11%	11%	15%

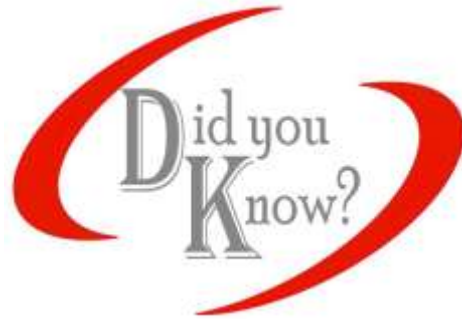


Summary of Corporate GHG Reduction

Municipality/ First Nation	2012-2015 Corporate Actions	Impact of Phase out of Coal on 2011 data	Total GHG Reduction to 2015	Corporate Target 2031
City of Peterborough	0.1%	11%	11.1%	30%
County of Peterborough	0.1%	6%	6.1%	26%
Asphodel-Norwood	0%	19%	19%	28%
Cavan Monaghan	0%	10%	10%	29%
Douro-Dummer	1.2%	17%	18.2%	32%
Havelock-Belmont-Methuen	1.1%	11%	12.1%	40%
North Kawartha	0%	10%	10%	20%
Otonabee-South Monaghan	0.3%	11%	11.3%	25%
Selwyn	1.1%	12%	13.1%	40%
Trent Lakes	0%	4%	4%	26%
Curve Lake First Nation	0%	15%	15%	15%
Hiawatha First Nation	0%	15%	15%	15%

Climate Change Projects

- March 2018 AMO LAS Municipal Energy Train the Trainer Program;
- Update CCAP inventory to include 2016 data for all 12 partners;
- Support municipalities on Municipal GHG Challenge Fund Applications;
- 2019 Green Energy Act Conservation Demand Management Plan;
- Support Corporate Green Teams; and
- Consider engaging IESO funded Energy Conservation Manager for City, County, Township and First Nation Facilities.



That our climate change targets only go until 2031?

Calculating GHG Emissions

Ontario Climate Change Action Plan			
* Year	Ontario Population	Targeted GHG Emissions (tCO ₂ e)	Average Annual Per Capita Emissions (tCO ₂ e)
1990	10,295,832	182,000,000	17.7
2013	13,556,200	171,000,000	12.6
2020	14,980,400	146,000,000	9.7
2030	16,658,300	115,000,000	6.9
2050 est.	19,754,035	36,400,000	1.8

Greater Peterborough Area Climate Change Action Plan			
Year	Asphodel-Norwood Population	Estimated GHG Emissions (tCO ₂ e)	Average Annual Per Capita Emissions (tCO ₂ e)
1991	3,897	37,867	9.7
2011	4,041	32,421	8.0
2021	4,126	29,698	7.2
2031	4,162	24,252	5.8
2050 est.			

Ontario
50% - 2020
37% - 2030
80% - 2050

Asphodel-Norwood
25% - 2031

* MOECC Guideline on Community Emissions Reduction Planning

Thank you!

Questions/Comments?

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