



Greater Peterborough Area Climate Change Action Plan

Presentation to SP CC
February 6, 2018

CLIMATE CHANGE ACTION PLAN



@ClimatePtbo



#ourchangingclimate



Climate Change PTBO



sustainablepeterborough.ca

sustainable
Peterborough



Ontario
Trillium
Foundation



Fondation
Trillium
de l'Ontario

Peterborough
ECONOMIC DEVELOPMENT

FCM

FEDERATION
OF CANADIAN
MUNICIPALITIES

FÉDÉRATION
CANADIENNE DES
MUNICIPALITÉS



Project Updates



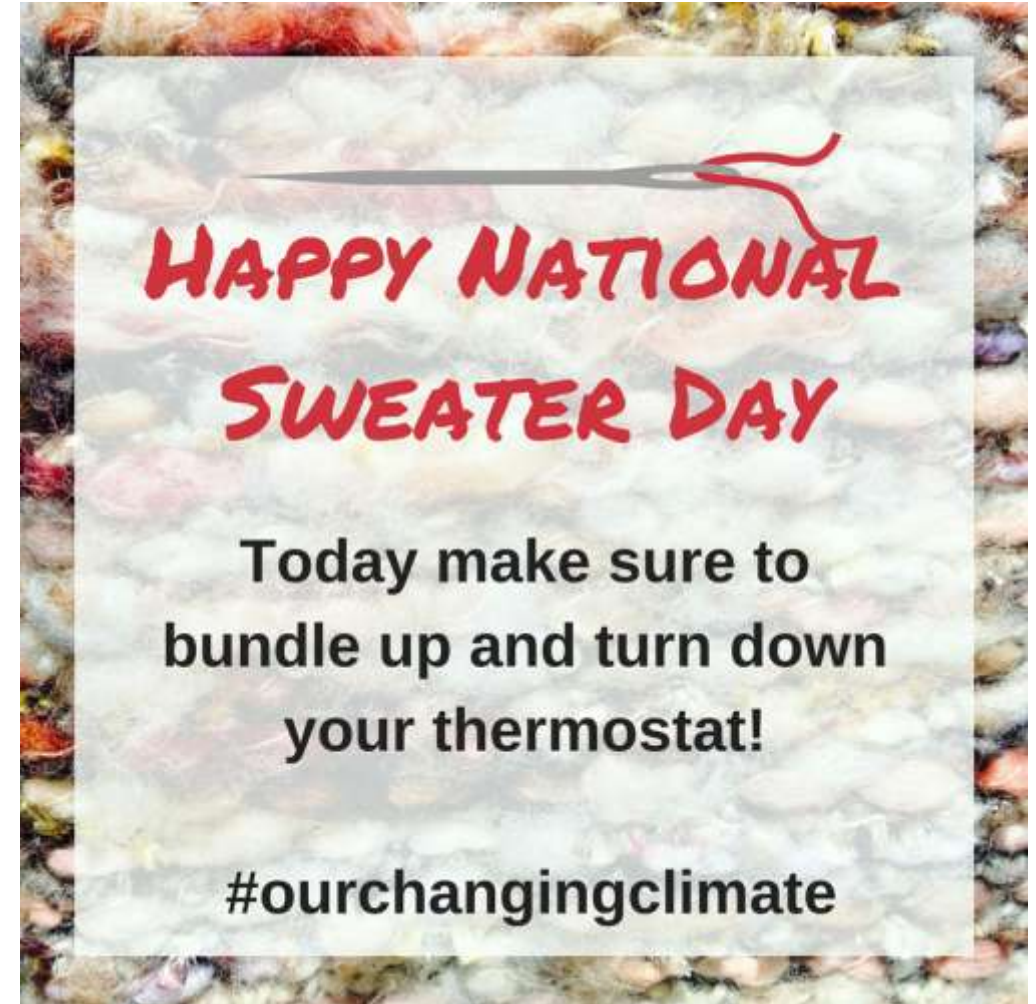
- HFN and CLFN Milestone 2 and 3 Reports received First Nation Council Resolution (FNCR);
- Finalized in November and December, 2017.





Project Updates

- Active social media presence;
- Facebook – 78 likes and 85 people follow us;
- Twitter – 242 followers and 2,910 impressions over the last week; and
- Instagram – 139 followers.



Celebrate Car Free Wednesday! In The #GPA

Get outside and enjoy
what nature has to
offer this June 21 in the
#GPA!

And encourage the use of
low - to - no carbon
transportation
technology!

Did you know...
Video game consoles often use more energy
over a year in 'standby mode' than gaming?



TURN OFF AND SAVE!



If you live in Peterborough and have a pollinator garden, please register your garden at peterboroughpollinators.com/register.

If you do, pick up your FREE sign at Ecology Park!



When you take action on your property, let us know! You'll have a chance to win great prizes and you'll help further improve our water resources. Together we can map our collective activities as we Rethink the Rain.

Get in touch:

705-742-7777 ext. 1504

rethinktherain@peterborough.ca



City of
Peterborough

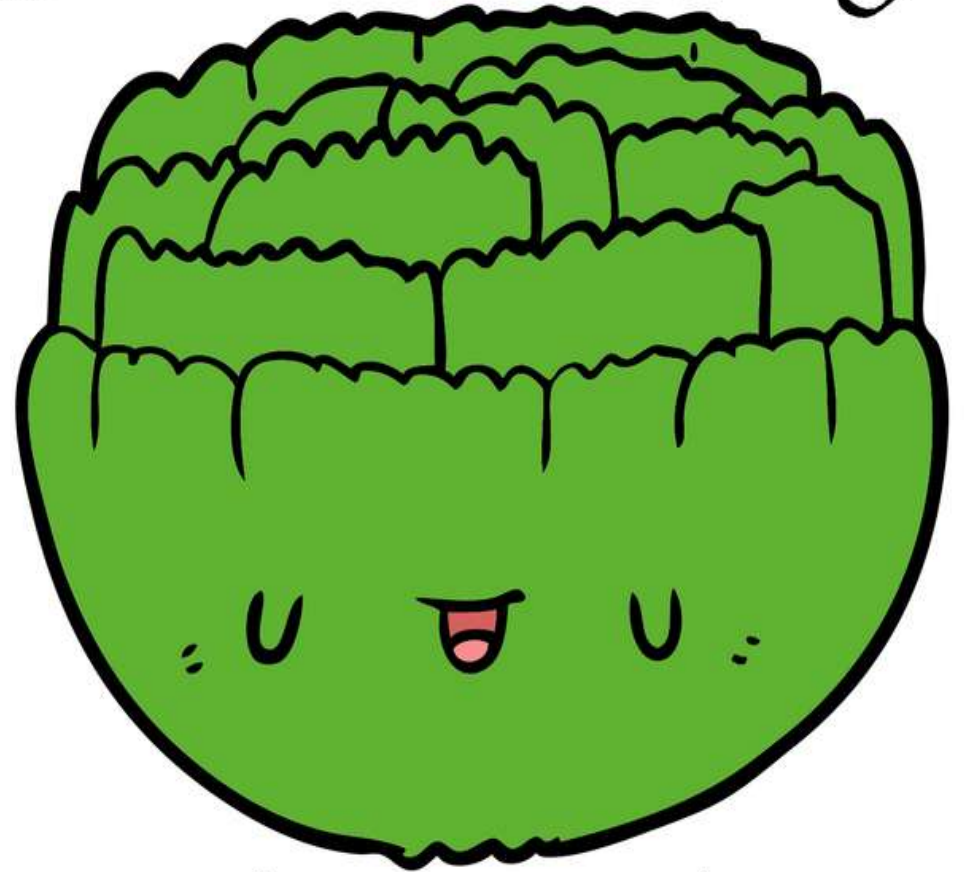
PURPLE ONION FESTIVAL



CELEBRATING 7 YEARS OF
LOCAL FOODS AND CULTURE

SUNDAY, SEPTEMBER 24TH IN
MILLENNIUM PARK FROM 11 AM TO 4 PM

Lettuce Not Forget



It's Meatless Monday!

Remember it is good for you and good for the planet



Three reasons to say: "No straw, please!"



Plastic straws take 200 years to decompose



Straws are among top 10 marine debris items



By 2050 there will be more plastic than fish in the oceans



Project Updates

- 47 Pledges in total taken by Greater Peterborough Area residents; and
- Launching the Climate Change Dashboard.



Real, lasting change
starts within our households first.

How many people
live in your
household?

What have you done... check all that apply

Simple steps can help reduce your greenhouse gases locally. What are you doing, please check all that apply:



I pledge to reduce my greenhouse gases for the Greater Peterborough Area Climate Change Action Plan

Now tell us what you will do next:



Taking Action, and sign below.

Signature: _____



Peterborough-Kawartha-Northumberland Regional Envirothon

- First annual Peterborough-Kawartha-Northumberland Regional Envirothon Event, April 2017; and
- Soils, Aquatics, Wildlife, Forestry and Sustainable Agriculture.





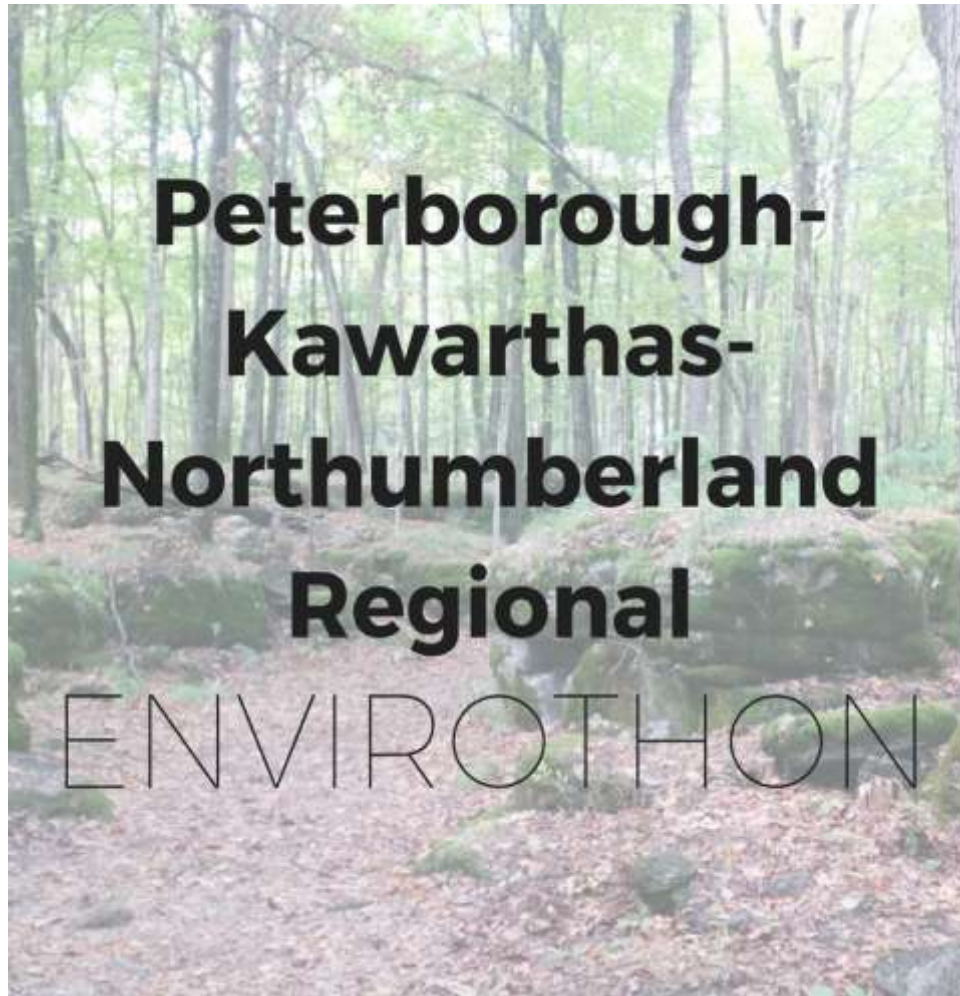
Peterborough-Kawartha-Northumberland Regional Envirothon



- Six teams participated in the two day event; and
- Winning team from Kenner Collegiate and Vocational Institute.



Peterborough-Kawarthas-Northumberland Regional Envirothon



PETERBOROUGH-KAWARTHAS-
NORTHUMBERLAND REGIONAL
ENVIROTHON



Regional Training Workshop Day
Tuesday April 24, 2018

Regional Competition Day
Thursday May 3, 2018

Fleming College, Sutherland Campus
Peterborough, Ontario



Planet Protector Academy

- Third year running the Keep Cool Program for Grade 2-6 classrooms;
- Innovative, digital-based, aligns with Ontario Curriculum;
- Teaches children about climate change, energy, transportation, and water; and
- Mission Books are brought home that indicate the family's change of behaviour.





Planet Protector Academy

Youth Engagement



The Planet Protector Academy is an innovative digital-led classroom experience that teaches students about important environmental issues and empowers them to lead change in their families.

Sustainable Peterborough and the Greater Peterborough Area Climate Change Action Plan in conjunction with the City of Peterborough brought the Planet Protector Academy: Keep Cool program to thirteen classrooms in local schools between January and June 2017.

As part of the program, Grade 2 to 6 students become apprentice Planet Protectors and go home on superhero missions to change their families' energy and transportation habits. Parents report through their children's Mission Books on the change in their family's behaviour resulting from the program. Engaging local families in over 1,500 participating hours of environmental education.

Engaged a total of
299
elementary students
in Grades 2 to 6



Planet Protector Academy

The energy conservation actions of almost 300 students in Grades 2 to 6 saved 28,365 kg of CO₂e and \$6,618.50 respectively over a three year period.



76%
of kids
are
turning
lights off
more



96% are
pledging to
be Planet
Protectors
from now
on!




43%
of families
are driving
less now!



45%
of families
are taking
shorter
showers!




CCAP Training Session




Climate Change Action Plan Training Session
for Municipal Staff and Politicians
Wednesday, November 29, 2017

Aimée Hennessy
Consultant, Ontario Clean Water Agency (OCWA)
Havelock-Belmont-Methuen
*Installation of variable frequency drive (VFD)
for improved energy efficiency savings at water
and waste water treatment facilities in the Township.*



Climate Change Action Plan Training Session
for Municipal Staff and Politicians
Wednesday, November 29, 2017

Scott Warren
Facilities Maintenance Co-ordinator
Selwyn
Real Ice Technology



Climate Change Action Plan Training Session
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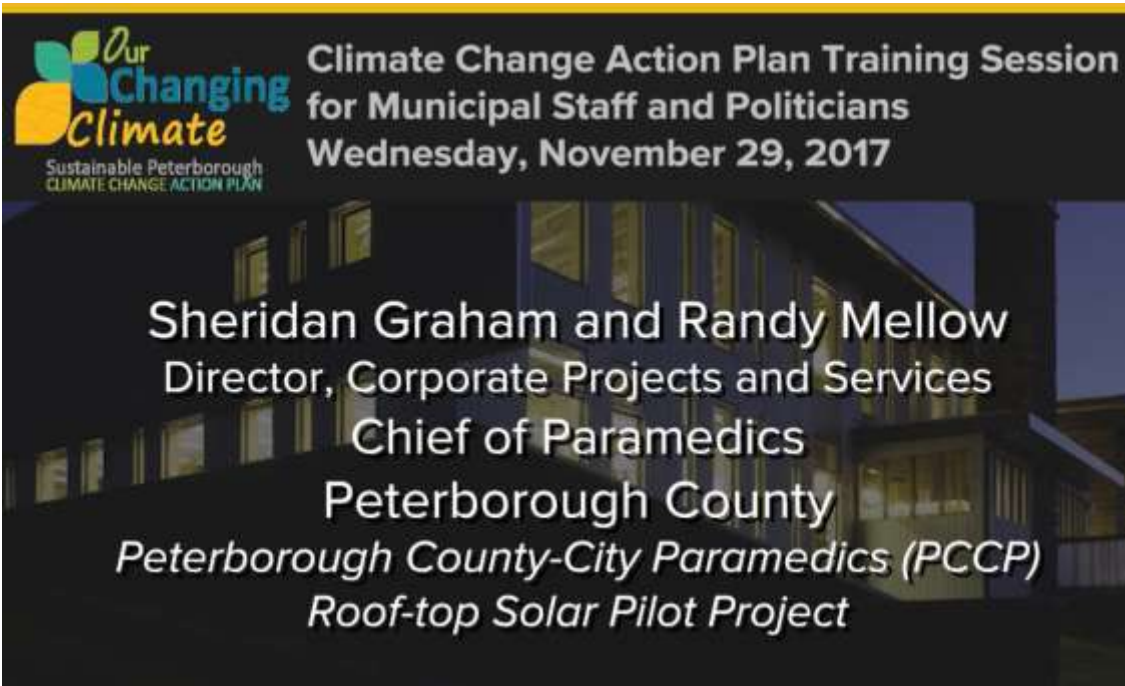
Ronald Awde
Architect, Awde Architecture and Planning
Hiawatha First Nation
*Efficiency of the Hiawatha First Nation
Emergency Services Building*




Climate Change Action Plan Training Session
for Municipal Staff and Politicians
Wednesday, November 29, 2017

Lois O'Neill-Jackson
CAO/Economic Development Officer/Deputy Clerk
Trent Lakes
Energy Retrofits or Upgrades Performed by Trent Lakes

CCAP Training Session



 **Climate Change Action Plan Training Session
for Municipal Staff and Politicians**
Wednesday, November 29, 2017

Sheridan Graham and Randy Mellow
Director, Corporate Projects and Services
Chief of Paramedics
Peterborough County
*Peterborough County-City Paramedics (PCCP)
Roof-top Solar Pilot Project*



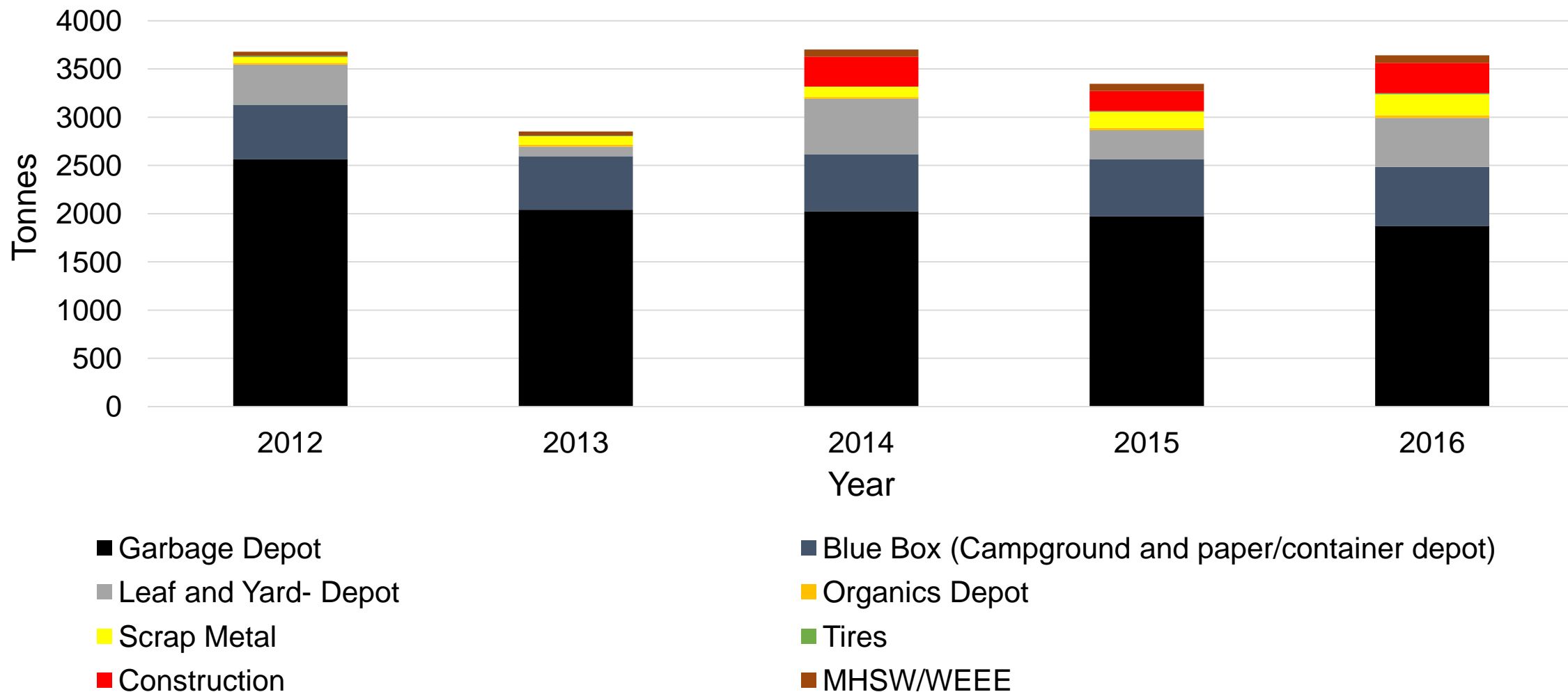
 **Climate Change Action Plan Training Session
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Wednesday, November 29, 2017

Tyler Peters
President, Greenview Environmental Management
Douro-Dummer
*Engineering and design presentation on a combined
public works and fire station facility in Warsaw.*



Dashboard Visualization

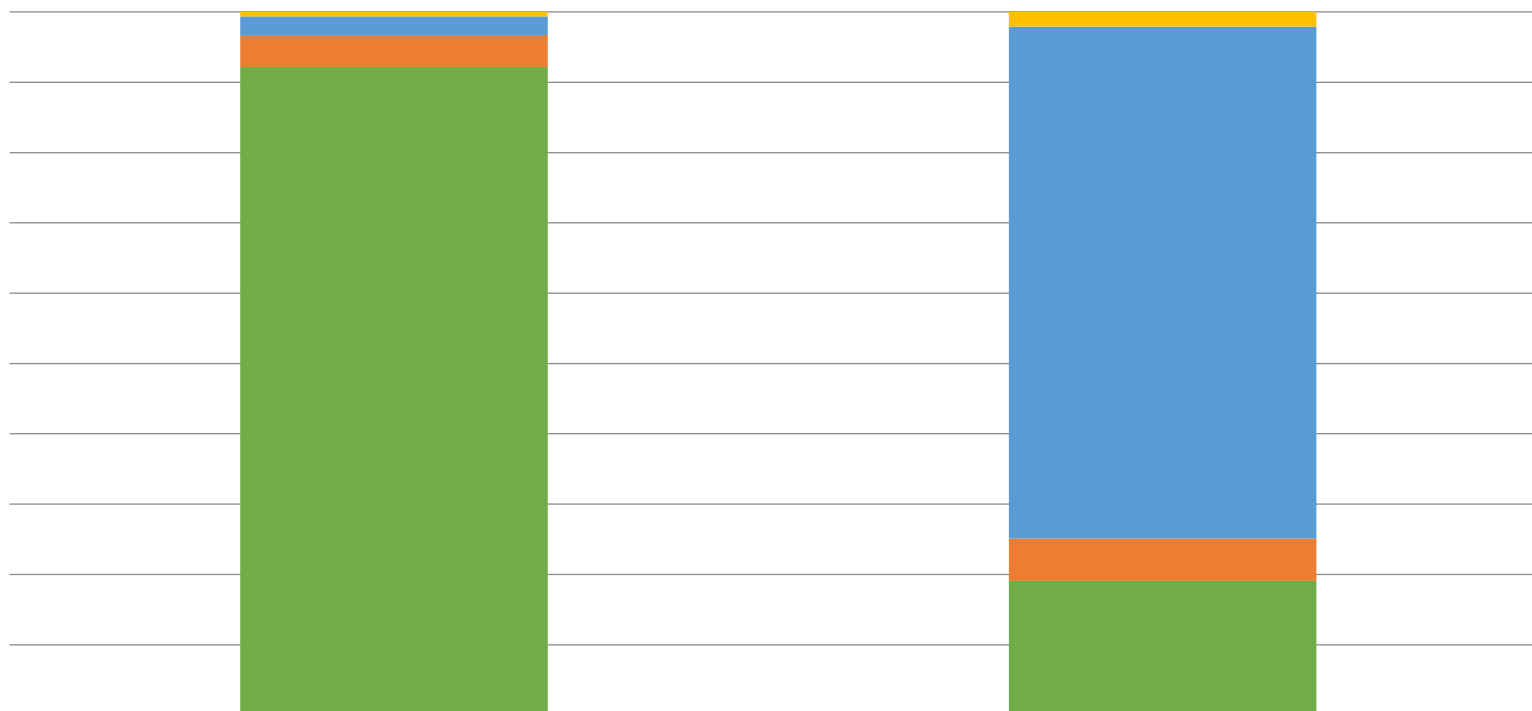
Trent Lakes Community Waste









Dashboard Visualization

City of Peterborough List of Renewable Energy by Generation Type and kW Capacity, 2017

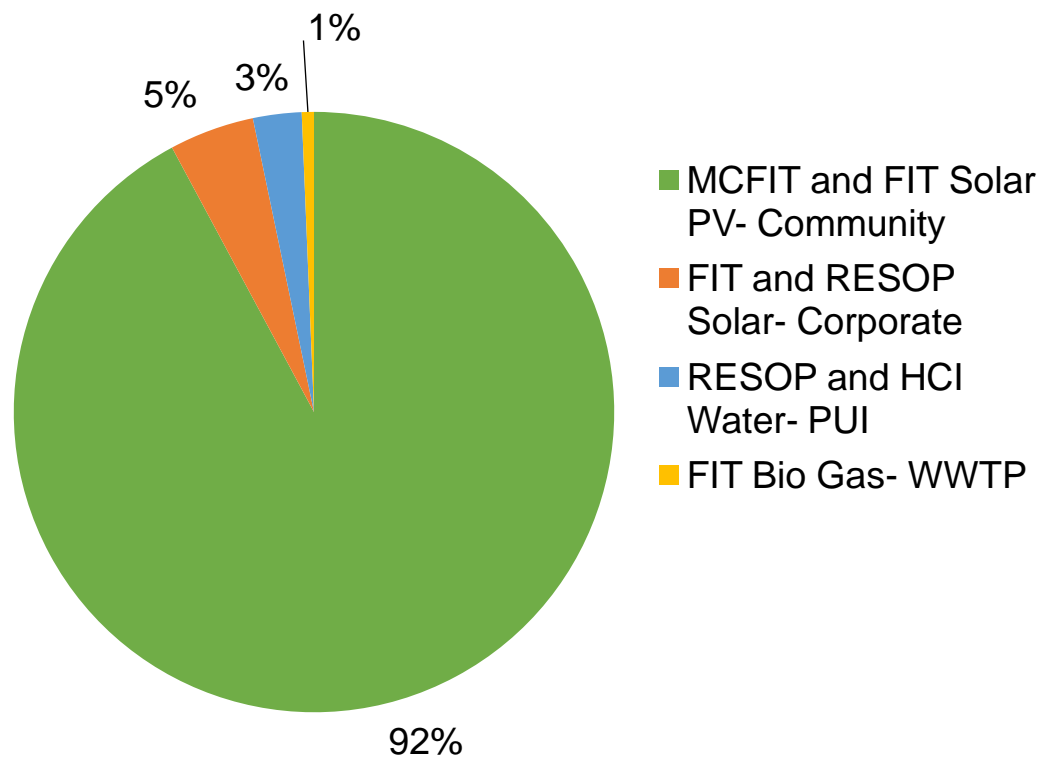


	Percentage Breakdown by Generation Type	Total Name Place Capacity (kW)
 FIT Bio Gas- WWTP	1%	380
 RESOP and HCI Water- PUI	3%	13,354
 FIT and RESOP Solar- Corporate	5%	1,105
 MCFIT and FIT Solar PV- Community	92%	3,500

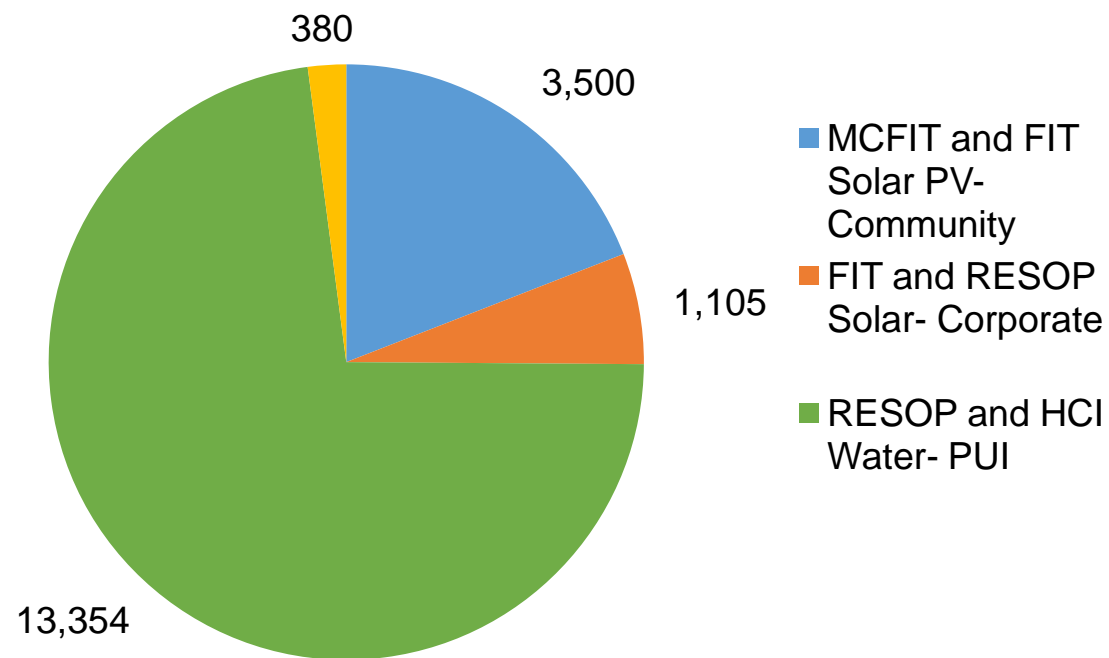


Dashboard Visualization

Percentage Breakdown by Generation Type,
2017



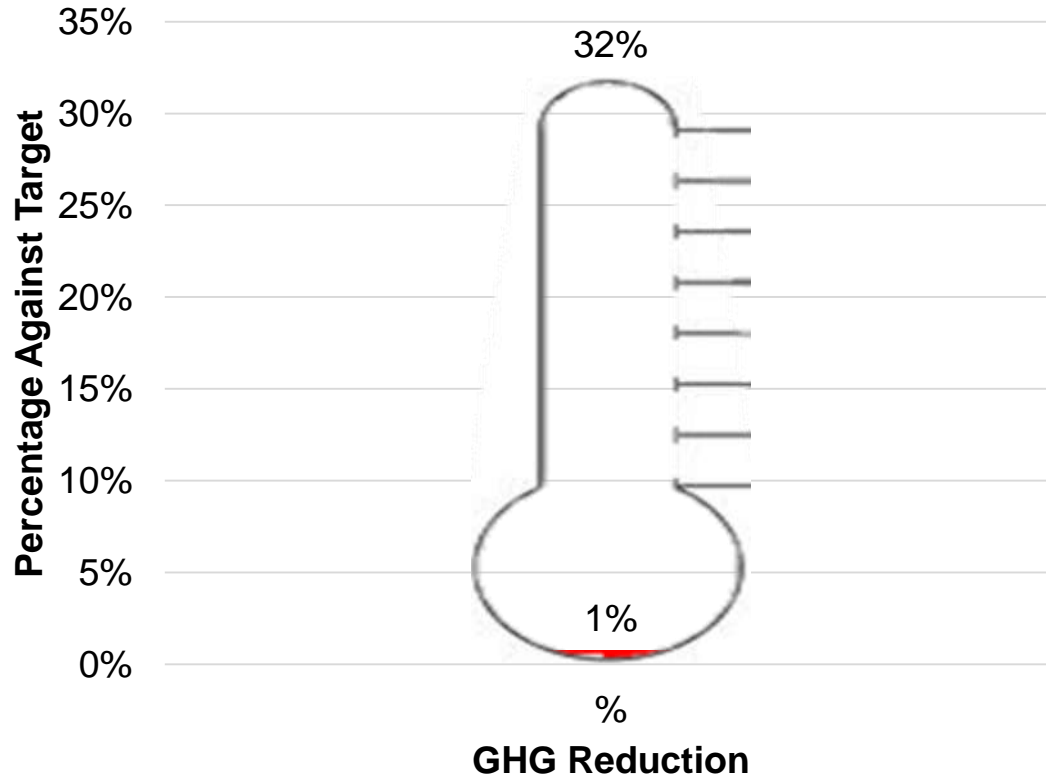
Total Name Plate Capacity (kW) n= 18,338.73



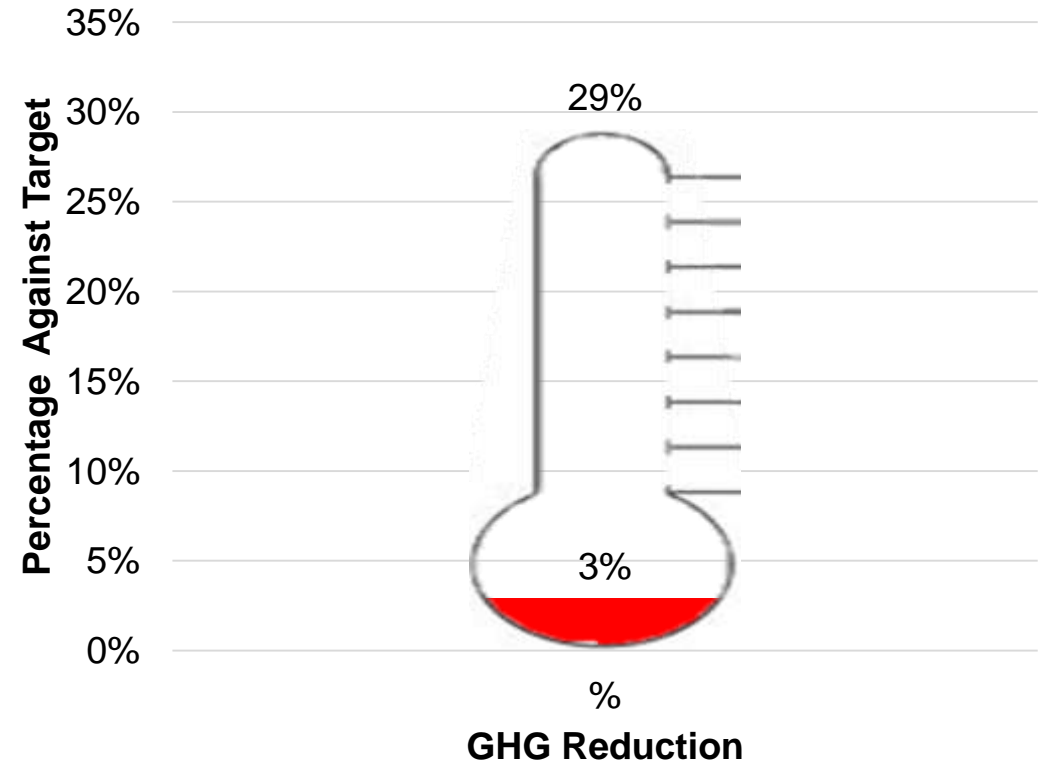


Partner Thermometer Graphs

**Douro-Dummer Corporate
GHG Reduction Target**



**Douro-Dummer Community
GHG Reduction Target**





Summary of Reduction: GHG Corporate and Community Emissions Reduction 2012-2015

Municipality	Corporate	Target	Community	Target
City of Peterborough	0%	30%	5%	30%
County of Peterborough	0%	26%	5%	31%
Asphodel-Norwood	0%	28%	3%	25%
Cavan Monaghan	0%	29%	3%	31%
Douro-Dummer	1%	32%	3%	29%
Havelock-Belmont-Methuen	1%	40%	4%	31%
North Kawartha	0%	20%	8%	25%
Otonabee-South Monaghan	0%	25%	5%	25%
Selwyn	1%	40%	7%	39%
Trent Lakes	0%	26%	12%	39%
Curve Lake First Nation	0%	15%	0%	15%
Hiawatha First Nation	0%	15%	0%	15%



MOECC Draft Guideline Community Emissions Reduction Planning



Community Emissions Reduction Planning: A Guide for Municipalities

DRAFT

The purpose of the Guideline is two-fold:

1. Provide implementation support to Growth Plan, 2017, policy 4.2.10 which requires municipalities in the Greater Golden Horseshoe to incorporate climate change policies in their municipal official plans and encourages them to complete greenhouse inventories, set targets, and develop emission reduction strategies; and,
2. Support municipalities in conducting community energy and emissions planning under the Municipal Action Plan Program (name and program details still being developed) under the Five-Year Climate Change Action Plan.



Summary of Municipal Annual Per Capita Emissions

[illegible]



Future Actions

- CCAP being aligned under SP;
- CCAP updates to Council will now be presented with SP presentations in the Spring;
- EV Strategies Discussion working with both our Local Government and Community CCWG;
- Investigating hiring energy manager on a two year contract under IESO;
- PKED considering hiring energy manager for the business sector of the GPA;
- 2017 full re-inventory of Corporate data for all Municipal and First Nation partners;
- Capitalize on the PPA and Envirothon to educate and engage youth on local CC opportunities and actions available to them;
- Facilitate the revival of the CCAP Task Forces through the Community CCWG;
- CCAP Earth Week Challenge;
- Collaborate with and support municipal partners recognizing future rounds of the Municipal GHG Challenge Fund; and
- Aligning CCAP to local OPs.