

Climate Change Action Plan Update

September 27, 2022



Overview

- Greater Peterborough Area Climate Change Action Plan adopted in 2016
- Includes actions for community & corporate to reduce emissions & prepare for impacts of climate change

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



Sustainable Peterborough
CLIMATE CHANGE ACTION PLAN

Community Themes & Goals

Our Homes

- Efficiency & resiliency
- Waste reduction

Workplaces & Schools

- Climate friendly businesses
- Green economy

On the Move

- Alternative transportation
- Low emission vehicles

Our Food

- Localize food system
- Reduce organic waste

Our Land

- Land use policies
- Protect & enhance natural assets

Our People

- Climate awareness
- Local action

Corporate Themes & Goals

Buildings

- Energy efficiency
- Renewable energy

Fleet

- Transition fleet vehicles
- Develop green fleet strategy

Water & Sewage

- Operational efficiency
- Equipment upgrades

Streetlighting

- LED upgrades

Solid Waste

- Reduce waste generation
- Conduct audits
- Green procurement & events

Greenhouse Gas Reduction Targets

Community

Target

39% below 2011
baseline by 2031

Progress

4% increase in
emissions in 2018

Corporate

Target

40% below 2011
baseline by 2031

Progress

53% decrease in
emissions in 2019

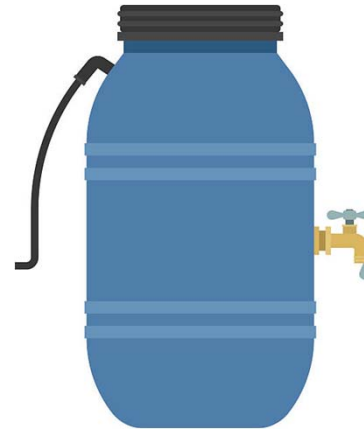
Progress – Community Strategies

Our Homes

- Battery & electronics recycling
- Water refill stations
- School tours of landfill
- Clear bag program
- TerraCycle zero waste boxes
- Rain Ready Action Program

Workplaces & Schools

- Small Business Lighting program
- Greening your Business webinars
- Green Event Policy



In 2021, 103 rain barrels & 12 water wise garden kits were purchased by residents

Progress – Community Strategies

On the Move

- Trails Master Plan
- Electric vehicle charger
- The Link rural bus pilot project



*The Link ridership increased 208%
from May 2021 to May 2022*

Our Food

- Lakefield Farmer's Market
- Community garden & composting at Lakefield Public School
- Backyard digester program

Progress – Community Strategies

Our Land

- Shoreline stabilization & naturalization projects
- Tree planting initiatives
- Bee City declaration
- Flood plain mapping
- OP & Zoning By-Laws
- Tree Canopy & Vegetation Policy
- Depave Paradise Project

Our People

- Joined national network of municipalities taking action to reduce emissions through the Partners for Climate Protection (PCP) Program
- Rain Ready Action Program
- School tours of landfill



*In 2021, Township achieved
Milestone 5 of PCP Program*

Depave Paradise Project



- Partnership between GreenUP, Green Communities Canada, & Winfield Shores
- Depaved & planted 100m² pocket park in July 2021
- *Diverts 75,000L of rainwater each year – equivalent to 340 rain barrels*

Progress – Corporate Strategies

Buildings

- Energy Management Plan
- Facility retrofits, including police buildings, public works, & arenas
- Electric vehicle charger
- Solar installations



Fleet

- Battery operated ice equipment
- Plug-In Hybrid vehicle
- Reallocate vehicles to other departments
- Environmental performance improvements

The Township's solar installations have generated over 2.3 million kWh – equivalent to annual energy consumed by 213 homes

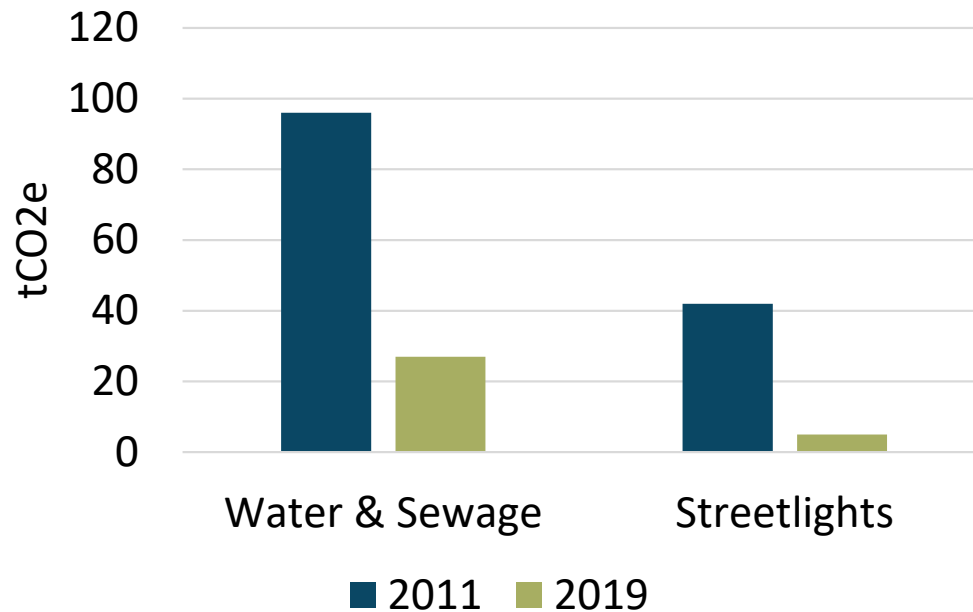
Progress – Corporate Strategies

Water & Sewage

- Mechanical upgrades
- Annual energy tracking

Streetlights

- LED retrofits of streetlights
- Lighting retrofits at township facilities

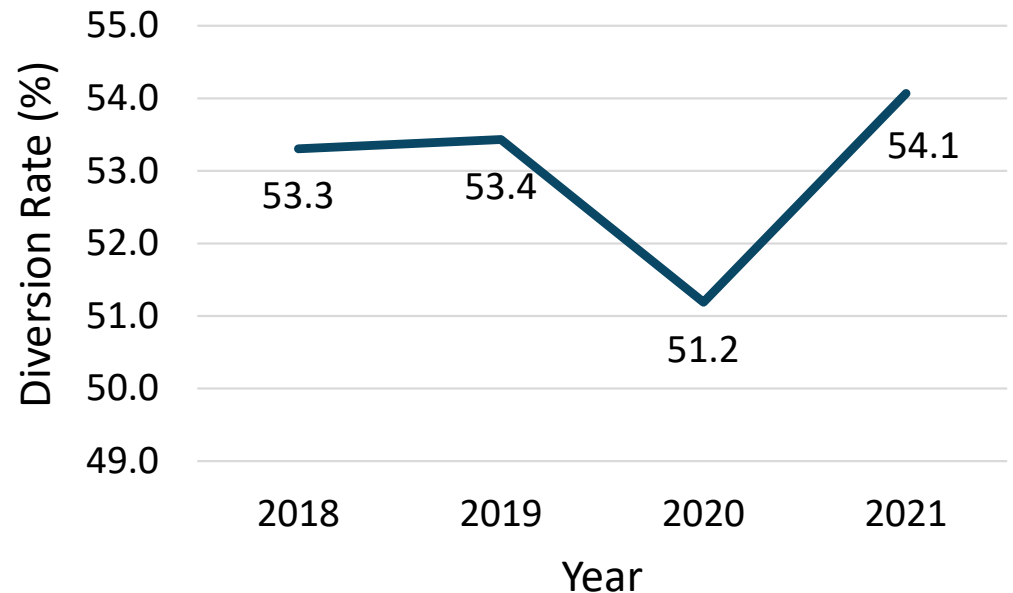


Since 2011, emissions have decreased by 72% from Water & Sewage and 88% from Streetlights

Progress – Corporate Strategies

Solid Waste

- Diversion programs
- Hazardous Waste Depot
- Bottle return program
- Curbside leaf & yard collection
- Extended life of landfill
- Service review




In 2021, the Township's waste diversion rate increased to 54% for a total of 3757 tonnes

Next Steps – Community Actions

Upcoming

- Update greenhouse gas inventory
- Explore FoodCycler pilot program to provide an indoor compost alternative for residents in Selwyn Township
- Explore developing a sustainable development program to encourage homeowners to improve energy efficiency
- Investigate funding opportunities to implement a tree giveaway initiative

Ongoing

- Rain Ready Action Program
 - Promote existing waste diversion programs & policies
 - Encourage action from residents & businesses through public education and local partnerships
- 

Next Steps – Corporate Actions

Upcoming

- Update greenhouse gas inventory
- Pilot energy management software (EnergyCAP) to improve tracking & management of Township's energy use
- Apply for funding to plant vegetative buffer at Lakefield Campground
- Explore funding & partnerships for electric vehicle chargers
- Partner with Fleming College to complete waste audit at Smith Landfill

Ongoing

- Energy management & reporting
 - Monitor solar installations
 - Evaluate The Link bus service
 - Tender for fully electric vehicle
- 