



RESILIENT CALEDON

CLIMATE CHANGE PLAN

Update to Council
June 6, 2023

Alexandra Service, Team Lead,
Energy and Environment

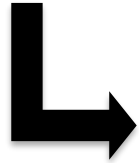


Council Commitment

Caledon's council declares climate change emergency

With support of EcoCaledon, council says time for action is now

NEWS Feb 03, 2020 by [Matthew Strader](#) ✓ Caledon Enterprise



GHG emissions reduction target:
Net Zero by 2050

Climate Impacts in Caledon

942.7 mm
2050s



975.9 mm
2090s

867.4 mm
Annual Baseline

MEAN PRECIPITATION

Winter and Spring are projected to get significantly wetter.

10.2°C
2050s



13.3°C
2090s

7.0°C
Annual Baseline

ANNUAL MEAN TEMPERATURES

Mean, minimum & maximum daily temperatures are projected to significantly increase in every season.



Max 1-day: 37mm
Max 5-day total: 59.2mm



Max 1-day total: 40.6mm
Max 5-day total: 63.4mm



Max 1-day total: 44.1mm
Max 5-day total: 70mm

PRECIPITATION EVENTS

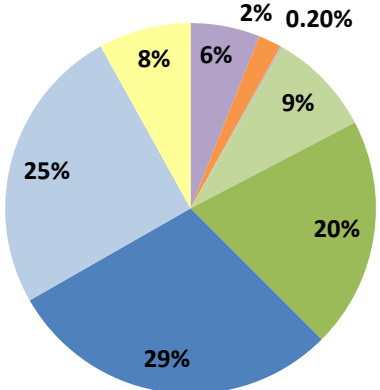
Precipitation events in general are projected to become more intense and extreme.



Caledon's GHG Emissions

Community-wide GHG Emissions (2016)

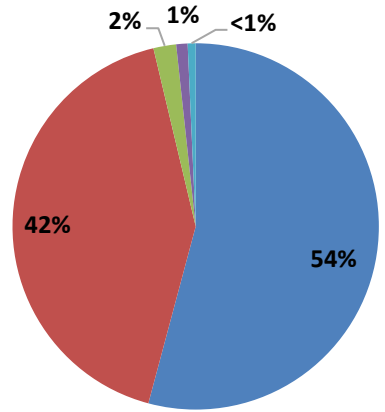
520,000 tCO2e



- Agriculture
- Industry
- Leaks and Losses
- Commercial Buildings
- Residential Buildings
- Commercial Transportation
- Residential Transportation
- Waste

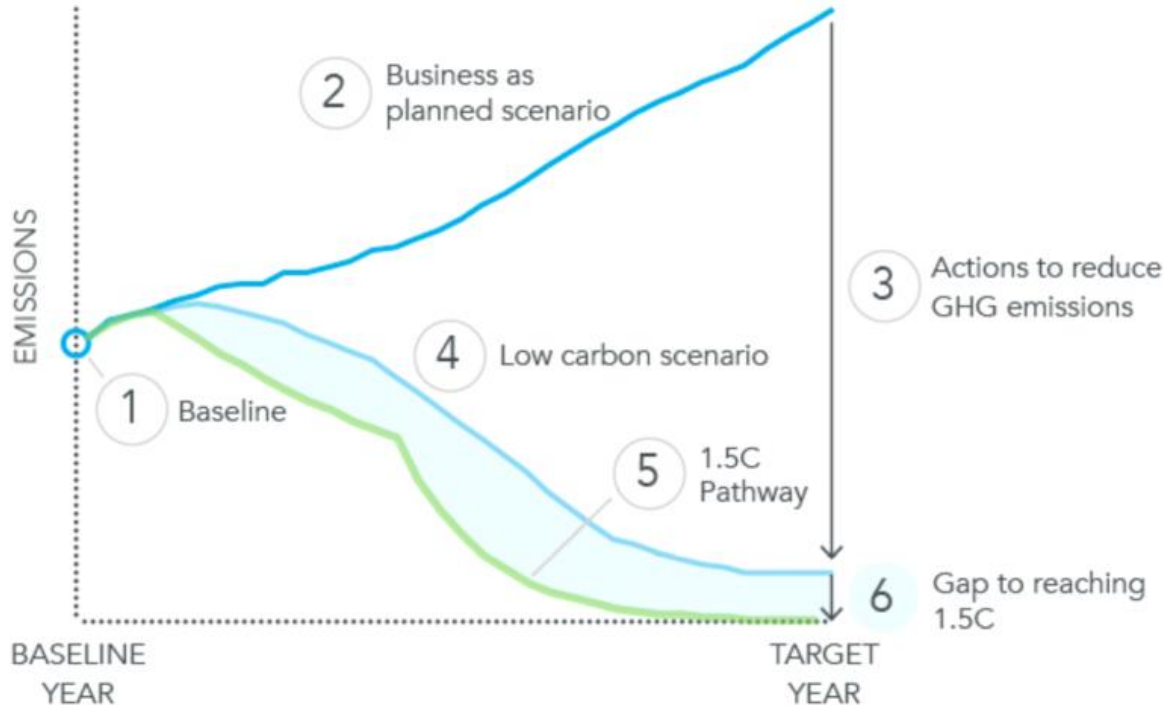
Corporate GHG Emissions (2017)

3,611 tCO2e



- Buildings
- Fleet
- Streetlights
- Waste
- Water

Pathway to Net Zero



Drastic reductions are necessary to reach net zero emissions in the community and corporate operations



RESILIENT CALEDON

Community Climate
Change Action Plan

Community and Corporate Climate
Targets – Mitigation and Adaptation



Corporate Working
Group



Community Climate
Collaborative



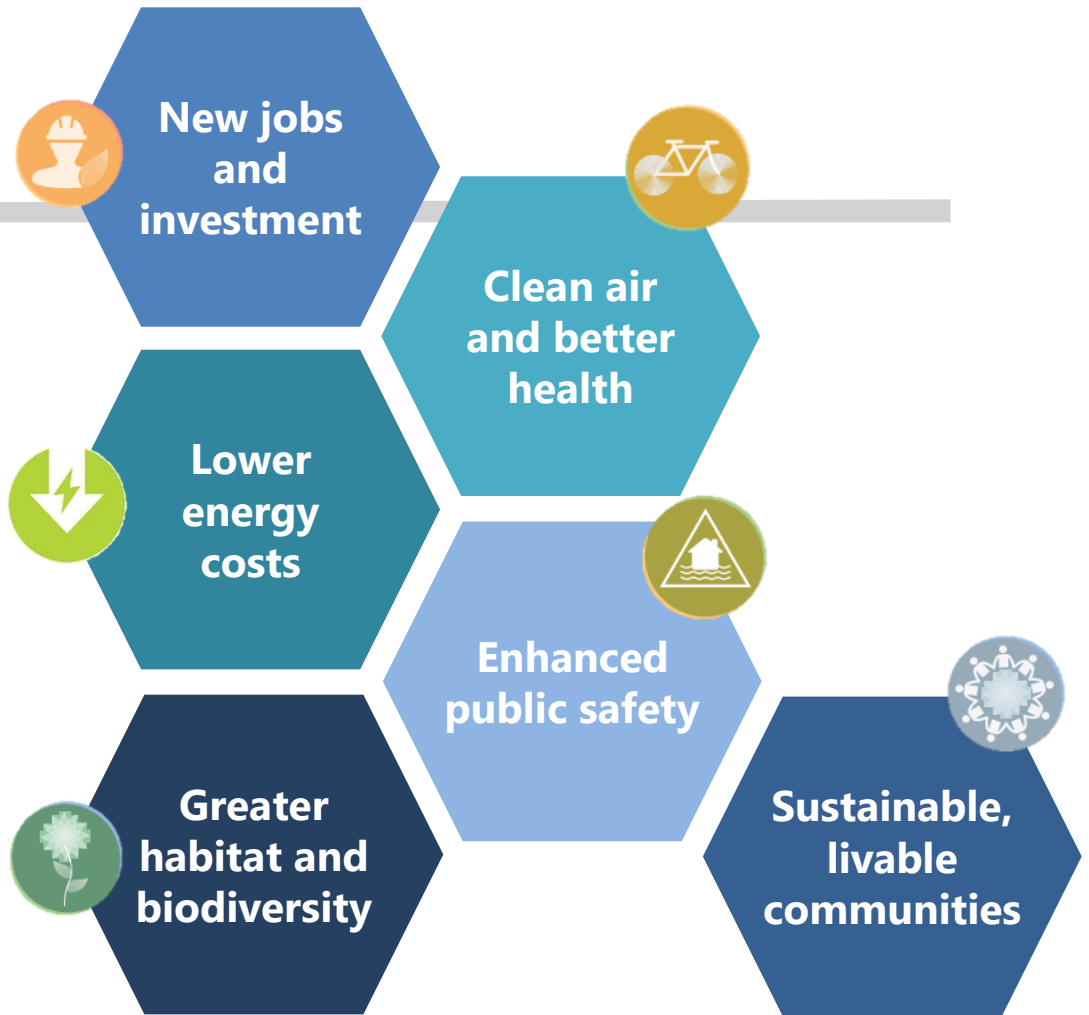
Strategic
Partnerships



Local Action and Co-benefits

Co-benefits

Taking action on climate change is not only about reducing GHG emissions. Implementing Resilient Caledon will result in **co-benefits** across the community.





SMART GROWTH

Key Accomplishments

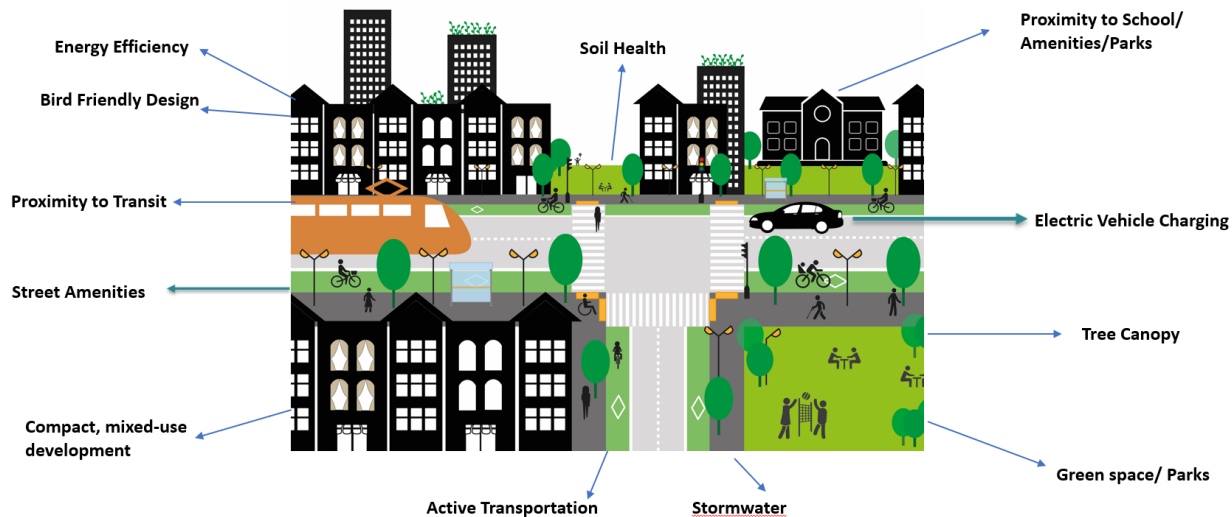
- ✓ Climate change informing OP update

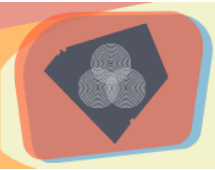


SMART GROWTH

Updates

- Community-wide Green Development Standard
- Climate studies to support secondary plan policies





SUSTAINABLE COMMUNITIES

Key Accomplishments

- ✓ Updated Bolton CIP
- ✓ Launched new Climate Action Fund
- ✓ Neighbourhood revitalization through West Bolton SNAP





SUSTAINABLE COMMUNITIES

Updates

- Peel-wide home energy retrofit program
- GreenBiz Caledon 2023

GreenBiz



Caledon





AGRICULTURE AND NATURAL SYSTEMS

Key Accomplishments

- ✓ Jaffary's Creek stormwater pond naturalization
- ✓ Adam Wallace Park raingarden



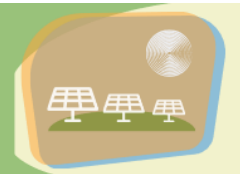


LOW CARBON TRANSPORTATION

Key Accomplishments

- ✓ Green Fleet Strategy
- ✓ Installed 9 new public EV chargers
- ✓ Added 6 light duty EV's to corporate fleet



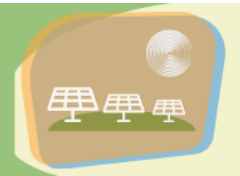


RESILIENT INFRASTRUCTURE & ENERGY

Key Accomplishments

- ✓ New Corporate Green Building Standard
- ✓ Saved \$63,200 and 475,334 kWh of energy through 7 facility retrofit projects





RESILIENT INFRASTRUCTURE & ENERGY

Project Updates

- ✓ Assessing long-term building retrofit needs
- ✓ Replacing gas with heat pumps at CCRW
- ✓ New solar panels at Work Yard 2 and OPP Facility
- ✓ Updating stormwater management program

