North Grenville Climate Action Plan

Introduction

North Grenville has committed to ensuring sustainable growth and preserving the natural environment through its Community Strategic Plan. Creating a Climate Action Plan will enable this work.

Local Context

High Growth

Urban intensification, Ottawa influence

Natural Assets

Rideau River and South Branch across the community agriculutre, publicly forests (FFC, Limerick, bookended)

Limerick Red Pine for local builds

Community

Engaged citizens and Council, committment to equity

Data

World Council on City Data

Counties

Internal Tracking

Municipal Energy Consumption by Sector		
Sector	**Emissions (tCO2e)**	**Energy (GJ)**
Building		0.77
Vehicle		
Streetlights		
Waste		

Municipal Energy Consumption by Source		
Sector	**Emissions (tCO2e)**	**Energy (GJ)**
Electricity		
Natural Gas		
Diesel (off-road)		
Diesel (on-road)		
Gasoline		
Fuel Oil		
Propane		

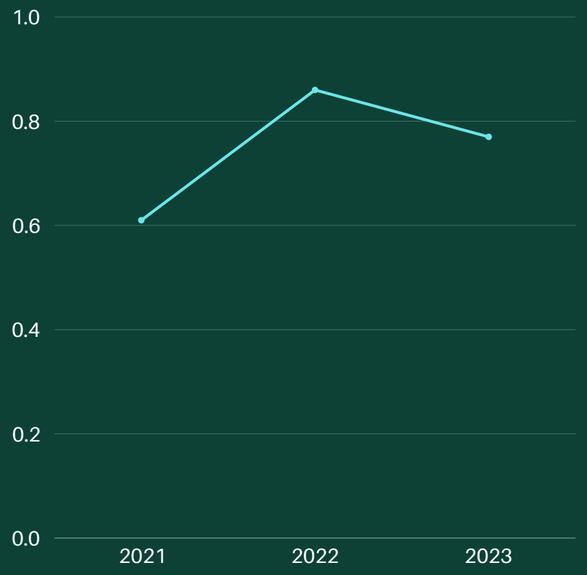
Community Greenhouse Gas Emissions (tCO2e) by Sector

Sector	Emissions (tCO2e)	Energy (GJ)
Residential		
Commercial and Institutional		
Manufacturing industries and construction		
Agriculture, fishing and forestry activities(1)		
On-road transportation		
Wastewater and sewage		
Incineration and open burning		
Agriculture, forestry and other land use (AFOLU) (2)		

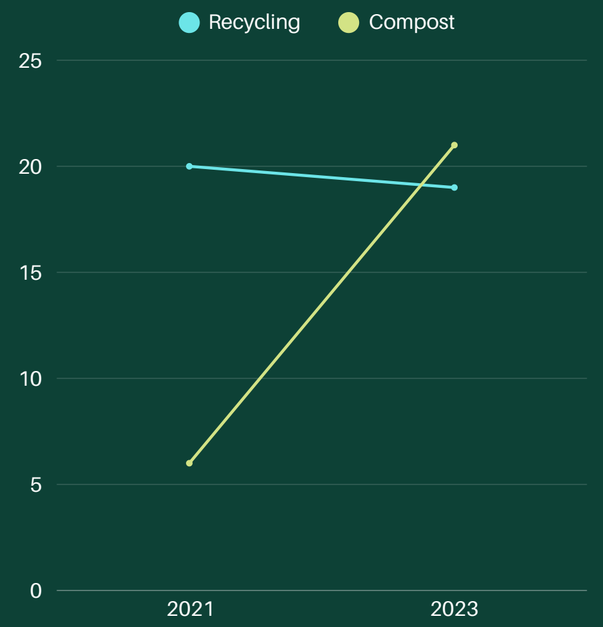
Residential, Commercial & Institutional Energy Consumption by Source

Sector	Emissions (tCO2e)	Energy (GJ)
Electricity		
Natural gas		
Fuel oil		
Propane		

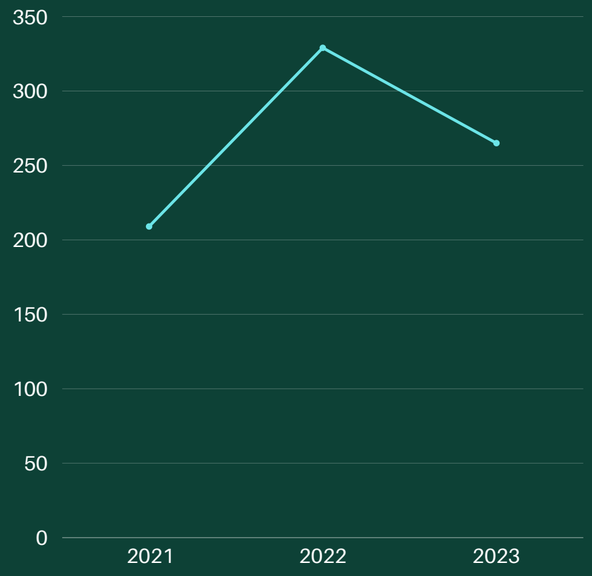
Public Building Energy Consumption



Waste (%)



Water Consumption (litres/day)



Setting a Target

FCM Recommendations

20% Reduction of Corporate Emissions

Over 10 years from baseline

6% Reduction of Community Emissions

Over 10 years from baseline

Aspirational Communities

- Tay Valley: 55% and 45%
- Kingston: corporate 30% by 2030 and corporate and community carbon neutrality by 2040
- Ottawa: 0 emissions 2040, community by 2050
- Caledon: 36% from 2016 to 2030, net zero by 2050

Goals

- Reduce Municipal emissions
- Support the reduction of community emissions
- Expand Climate Action Initiatives
- Technology

Goals and Actions

Reduce Municipal emissions

- Identify strategies for reducing GHGs in every department
- Create and utilize a climate action lens
- Include climate action in Procurement Policy
- Monitor nature-based solutions such as sequestration
- Minimize energy consumption and emissions of public buildings, energy production
- Install electric vehicle chargers at public buildings
- Conduct a fleet audit
- Assess public transportation improvements

Goals and Actions

Support the reduction of community emissions

Provide public education, easily digestible (composting workshops)

Implement LEED, Passive House, and Green Development standards, and incorporate methods for assessing embodied greenhouse gas emissions in construction materials, Ottawa’s Better Homes

Support an integrated local food system

Promote less food waste

Support the adoption of renewable energy by residents, businesses and organizations

Goals and Actions

Expand Climate Action Initiatives

Seek partnerships and funding opportunities

Create and Climate Adptation Plan

Goal:

Reduce Municipal Emissions

Actions

Identify strategies for reducing GHGs in every department

- CAO:
- CLS:
- CS: transit
- PRC: public buildings, parks
- PD:
- PW: water, waste, streetlights
- biggest expense

Actions

Create and utilize a climate action lens

- Climate budgeting
- Counties climate analysis in council reports not in depth enough - meaningful, a tool for discussion and decision-making, providing all the options, continuous analysis/fact-finding
- Lens vs risks/benefits
- Cost-benefit analysis

Actions

Include climate action in Procurement Policy

- Current: Environmentally Sound Acquisitions - Departments will, when possible, endeavor to include specifications in Bid Solicitations that provide for energy efficient products, reusable products and products that contain the maximum level of post-consumer waste and/or recyclable content, without significantly affecting the intended use of the product or service. It is recognized that cost analysis is required in order to ensure that the products are competitively priced.
- Windsor Sustainable Procurement Guide
- Brampton Sustainable Procurement Strategy

Actions

Monitor nature-based solutions such as sequestration

- Tree management and canopy - several advisory committee significant resolutions and Council notice of motions
- Tree equity
- Guelph Street Tree Ownership Map
- Community gardens (Campus, Mino-jichaag Mtigwaaki, Giving Garden, Rail Trail pollinators, fruit tree map)
- Developments - tree standards, clearing only at site plan for everytree planted have to replace it

Actions

Conduct a waste audit

- Review usage and areas for improvement
- Review current contracts
- ICI needs to be focus
- Recycling at Transfer Station - reuse station (Merrickville), under new contract is this still there?
- Moose Creek lifecycle?
- Diversion rate

Actions

Minimize energy consumption and emissions of public buildings

- Ottawa Paramedic Service Headquarters - first LEED certified facility - energy savings of 25% annual utility savings of $80k
- Cost of switching to LED vs savings
- Building Emissions Performance Standards (BEPS) has been identified as the most impactful action to drive the scale and depth of emissions reductions necessary to meet Toronto’s net zero by 2040 target - Toronto’s BEPS webpage
- LEED operations and maintenance
- Water diversion Montreal and Vancouver (holding tanks), recapturing rainwater
- Shaw Centre - promo on how they save water

Actions

Install electric vehicle chargers at public buildings

- Electric vehicle (EV) ChargeON Program
- Eastern Ontario Network

Actions

Conduct a fleet audit

- Reviewing use (smaller vehicles)
- Review lease contract
- Equipment (parks maintenance, rink, etc.)
- Pool purchasing
- Lower speeds

Actions

Assess public transportation improvements

- Transit:
  - Identify opportunities for expansion and fleet transition
  - Assess different models
- Golf cart/scooter communities (dedicated lanes) - EQ disallows them

Goal:

Support the reduction of community emissions

Actions

Provide public education

- For general public
- For businesses
- Single-use plastics
- Extreme weather
- Affordability - extreme weather, heating/cooling housing, insurance, floods, food insecurity
- Geologic Carbon Storage Act
- Address climate misinformation - “Investing in climate change initiatives is increasing cost of living and is a waste of taxpayer dollars.”
- Sump pump incentive

Actions

Implement LEED, Passive House, and Green Development standards, and incorporate methods for assessing embodied greenhouse gas emissions in construction materials

- **MMAH Letter**
- Cost-Neutral Embodied Carbon Reduction Strategies for Residential and Commercial Buildings - Carbon Leadership Forum Webpage
- High-end development
- Smaller units
- Caledon Green Development Standards
- Housing Resources

Goals and Actions

Support an integrated local food system

- Support Counties initiatives
- Kingston Food System Framework
- 50 by 50 - 50% of your food produced locally
- Highlight businesses that use local food

Actions

Promote less food waste

- Identify community leaders - Independent

Actions

Support the adoption of renewable energy by residents, businesses and organizations

- Community Futures Grenville EcoFutures Loan
- Green Home Makeover (conservation authority + municipalities)
- Better Homes Lanark: Obtain a low interest loan to improve your home's energy efficiency and comfort.
- Caledon - CIPs and Climate Action Fund
- Greener Homes
- Clean Air Partnership Landowner Guide for Wind and Solar Project Development in Ontario

Goal:

Expand Climate Action Initiatives

Actions

Seek partnerships and funding opportunities

- FCM - Climate Adaptation Plan

Actions

Create and Climate Adaptation Plan

- Funding through FCM and emergency planning
- Living With Water Project
- Adapting to Extreme Heat

Timeline

Stakeholder Engagement

Summer 2025

Community Engagement

Fall 2025

Finalizing Plan Including Identifying Target

Winter 2025

Adoption of Plan

Winter 2026

Thank you!

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