



MUNICIPALITY OF NORTH PERTH CARBON FOOTPRINT INITIATIVE

INTRODUCTION

The Municipality of North Perth is driven to improve the energy efficiency of buildings and operations to reduce costs of operation, provide modern services to residents, and ensure environmental sustainability and resiliency to protect communities in the face of a changing climate.

OBJECTIVE

North Perth committed to a 25% reduction in carbon emissions by 2025 using 2015 as the baseline year.

18,000+ Trees since 2018



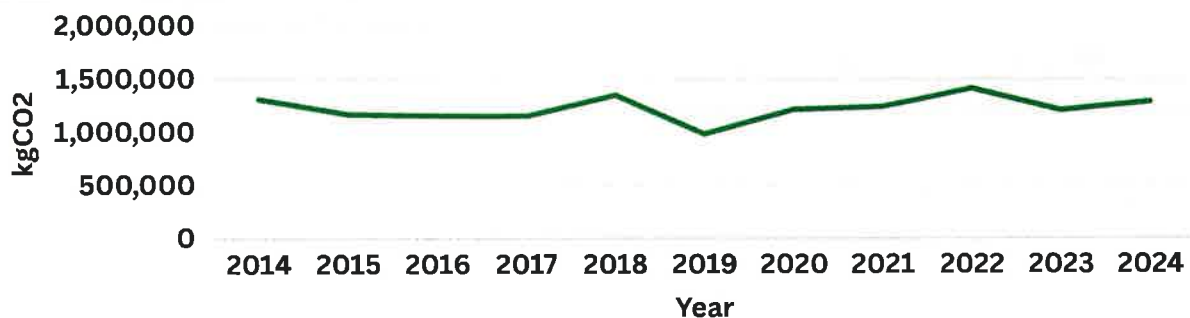
North Perth's Compensation Strategy is to plant three trees per tonne of CO₂ emitted.

To absorb the CO₂ created in 2024, 3,856 trees need to be planted across the Municipality.

2024 SAVINGS: 31,586 kgCO₂



10-Year Total Carbon Emissions



CARBON REDUCTION STRATEGIES



Renewable Energy



Energy Efficiency



Sustainable Transport



Reforestation

EMISSION OFFSETS

North Perth's tree planting programs sequester enough carbon dioxide each year to offset municipal emissions by 12.9%.

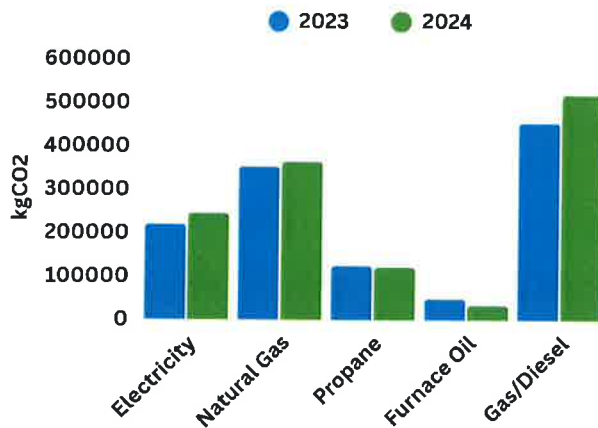


The 250 kWh, 880 solar panel array offset facility energy consumption by 332,000 kWh. That is a 4.8% reduction.



RESOURCE PAGE

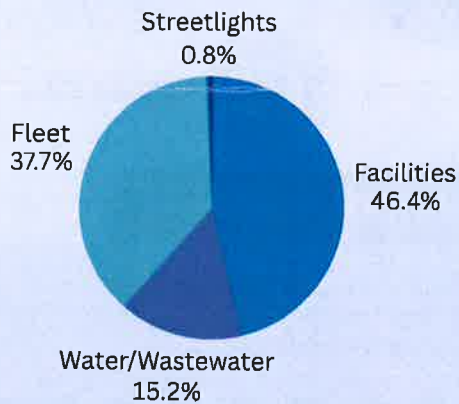
2023-2024 Carbon Comparison



The Municipality of North Perth owns 33 facilities related to operations.

TOTAL 2024 GHG EMISSIONS

North Perth has reduced total GHGE by 11.83% since 2018.

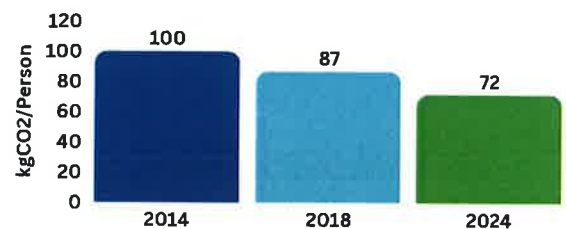


Recognizing fuel for fleet is a major contributor of CO₂, the Municipality will purchase fuel efficient vehicles as needed for each department. Challenges arise with large equipment such as snow plows and graders.

10-Year Comparison: kgCO₂ Per Person

To determine kgCO₂ per person:

$\frac{\text{Annual Total CO}_2 \text{ Emissions (kg)}}{\text{Estimated Population}}$



CONCLUSION

North Perth will endeavor to achieve a reduction in greenhouse gas emissions (including offsets) of 30% from 2018-2029 dovetailing with goals set in the North Perth 2021 Greenhouse Gas Reduction Plan and Provincial and Federal reduction goals looking to achieve Net Zero by 2050.

LIGHTING UPGRADES

North Perth operates 1,363 streetlights and 3 traffic signals. Despite experiencing significant growth, CO₂ emissions have decreased by >54% since 2015.

Retrofitting four facilities with LED lightbulbs has an annual savings of 79,608 kWh.



OPPORTUNITIES TO STRIVE FOR BY 2029



Decrease operational utility costs



Electrifying light duty fleet to reduce emissions



Implement a climate-lens for operational decisions