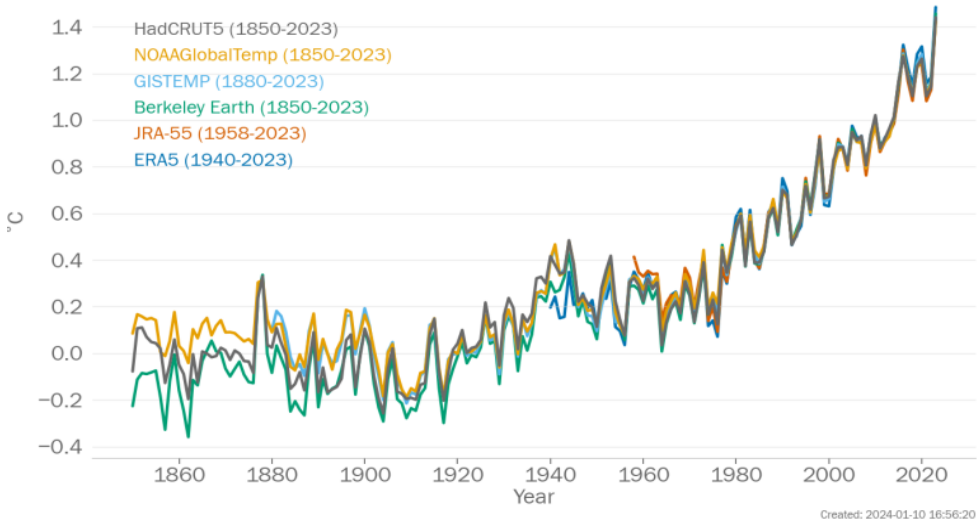
Winnipeg Climate Action Plan 2023 Annual Report

May 31, 2024

Winnipeg

Global Mean Temperature Difference



Source: World Meteorological Organization

Winnipeg

OurWinnipeg 2045

- Adopted by Council in May 2022
- Climate Action Targets:
  - 20% GHG reduction by 2030, relative to 2011
  - **Net Zero emissions by 2050**

Community Energy Investment Roadmap (CEIR)

- Adopted by Council in July 2022
- City and community-wide systems level actions and investments to achieve climate action targets (Net Zero by 2050 from OurWinnipeg 2045)
- Inform development of strategic City policies, infrastructure plans and investments

A Whole City Approach

- Council's Strategic Priorities Action Plan
  - CEIR identified as a key performance indicator
- Sustainable Procurement Action Plan
  - First full year of implementation
- Zoning By-law Review

Green Buildings

- CEIR application to City projects, update to Green Building Policy in progress
- Energy efficient upgrades and financial support through Efficiency Manitoba for existing City buildings

Zero-Emissions Transportation

- Transition to Zero Emissions Bus Program
- Winnipeg Fleet Management Agency studying City's infrastructure compatibility for EVs
- Permanent conversion of nine bicycle routes to neighbourhood greenways, additional five bicycle routes designated as seasonal routes

Local Renewable Energy

- Location types solar power generation and futureproofing referred to Green Building Policy update process
- Contract award for preliminary design and Class 3 cost estimate for grid-tied microgrid as part of Zero-Emissions Bus Program

Sustainable Waste Management

- Comprehensive Integrated Waste Management Strategy Review
  - First phase of engagement (waste audits and stakeholder meetings, interviews)
- Biosolids Program

Resilience

- Winnipeg Clean Air Spaces - Phase One facility assessment tool
- Winnipeg Comprehensive Urban Forestry Strategy
- Master Greenspace and Natural Corridors Plan - project scoping
- Poverty Reduction Strategy – second phase approval

2023 Corporate GHG Inventory

- Follows Partners for Climate Protection (PCP) protocol
- Energy use and emissions from operations (Buildings, Vehicle Fleet, Water & Wastewater, Streetlights and Waste)

Climate Tools

- Data Collection Enhancement for GHG Inventory Collection
- Climate Lens
- Climate Impact Assessment
- Climate and Carbon Budgets

2023 Corporate GHG Inventory

- 316,626 tonnes of CO_2e
  - 3.1% decrease from 2022
- Decreases in Waste, Water & Wastewater, Vehicle Fleet
- Increase in Buildings

2023 Corporate GHG Inventory

- 2,735,610 GJ energy
  - 2.8% decrease from 2022
- Decreases in Water & Wastewater, Vehicle Fleet
- Increase in Buildings

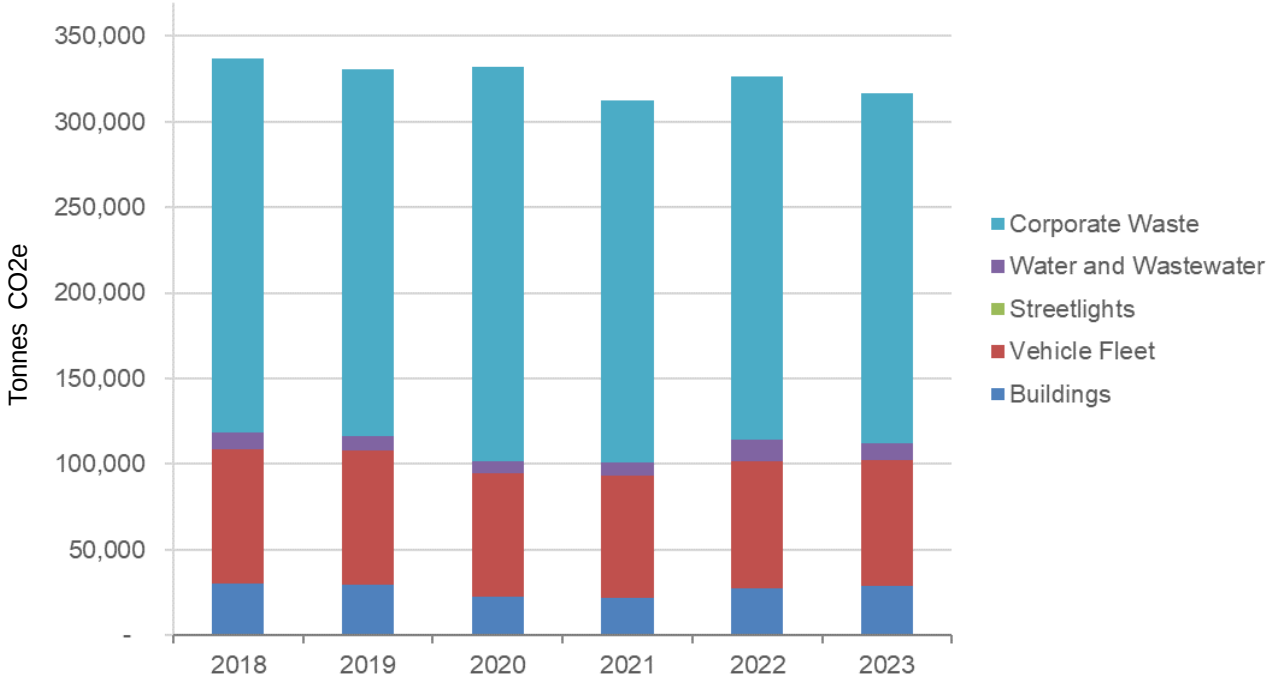
Largest Areas of Emissions Change

- Reduction in total waste landfilled
- Reduction in Wastewater treated volumes
- Flexible Workplace Program
- Transit Use

2023 Corporate GHG Inventory Improvements

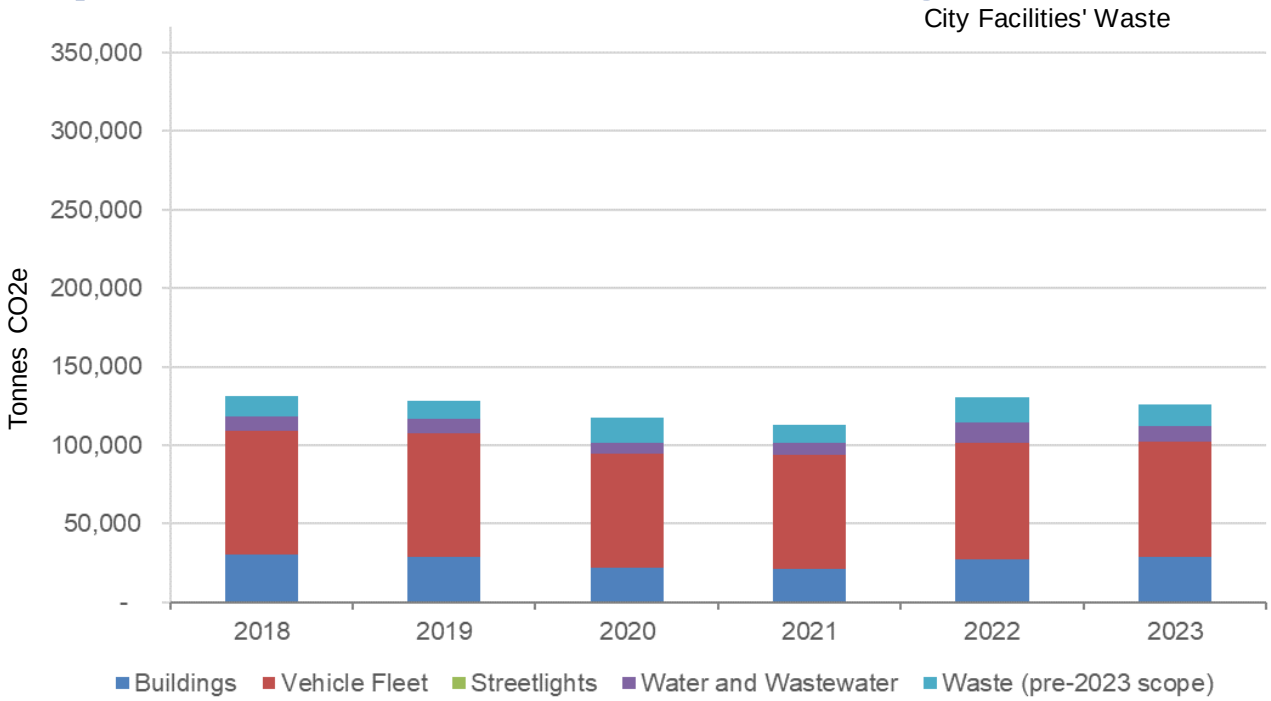
- Corporate Waste aligned with PCP protocol
- Measured tonnage, not estimated volume
- Additional waste streams: all waste going to City owned and operated landfills
- Change was applied to past inventories to facilitate comparison

Operations GHG Emissions by Sector



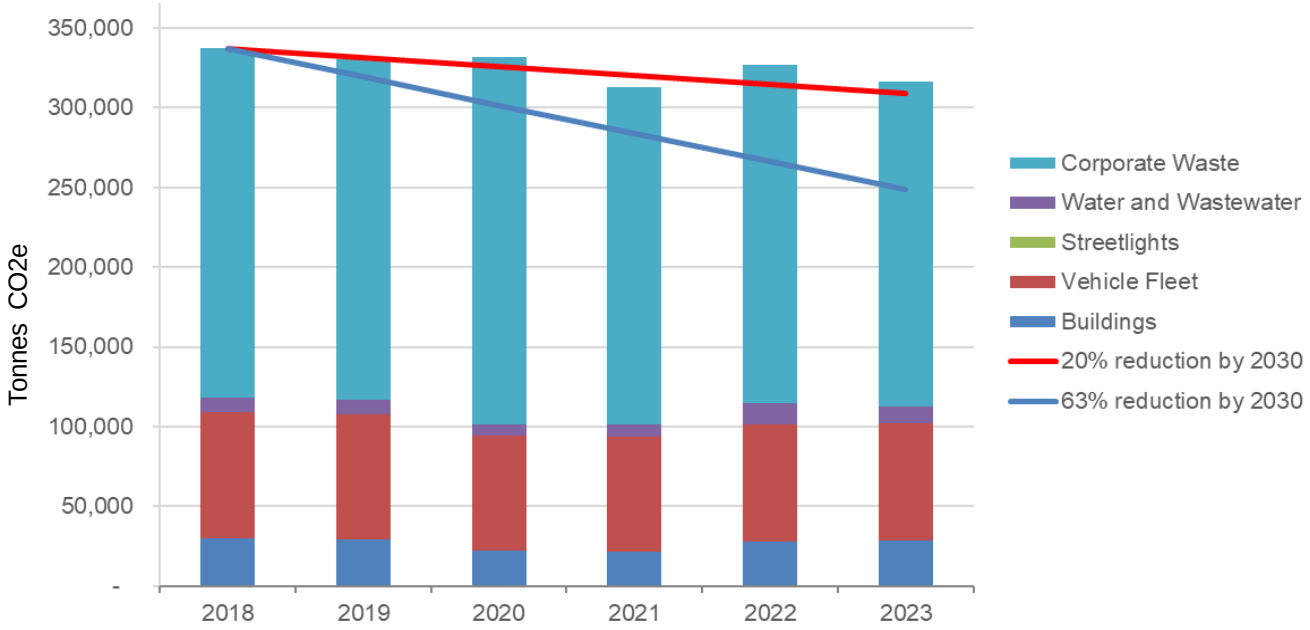
Winnipeg

Operations GHG Emissions by Sector



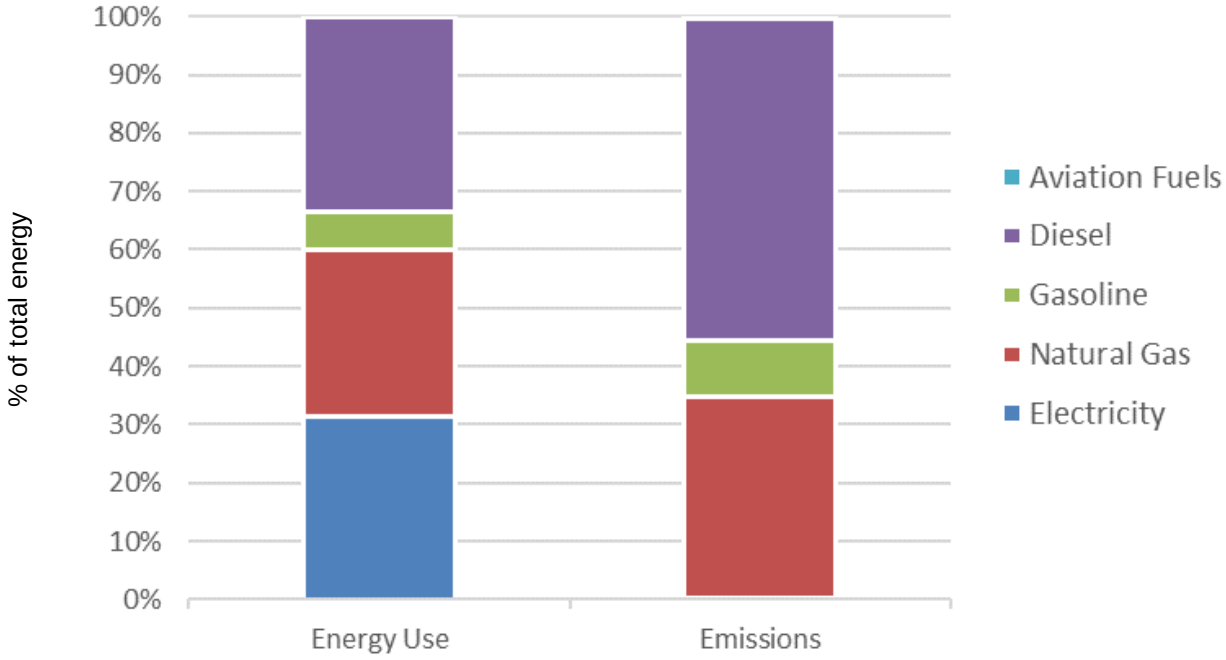
Winnipeg

Operations GHG Emissions by Sector

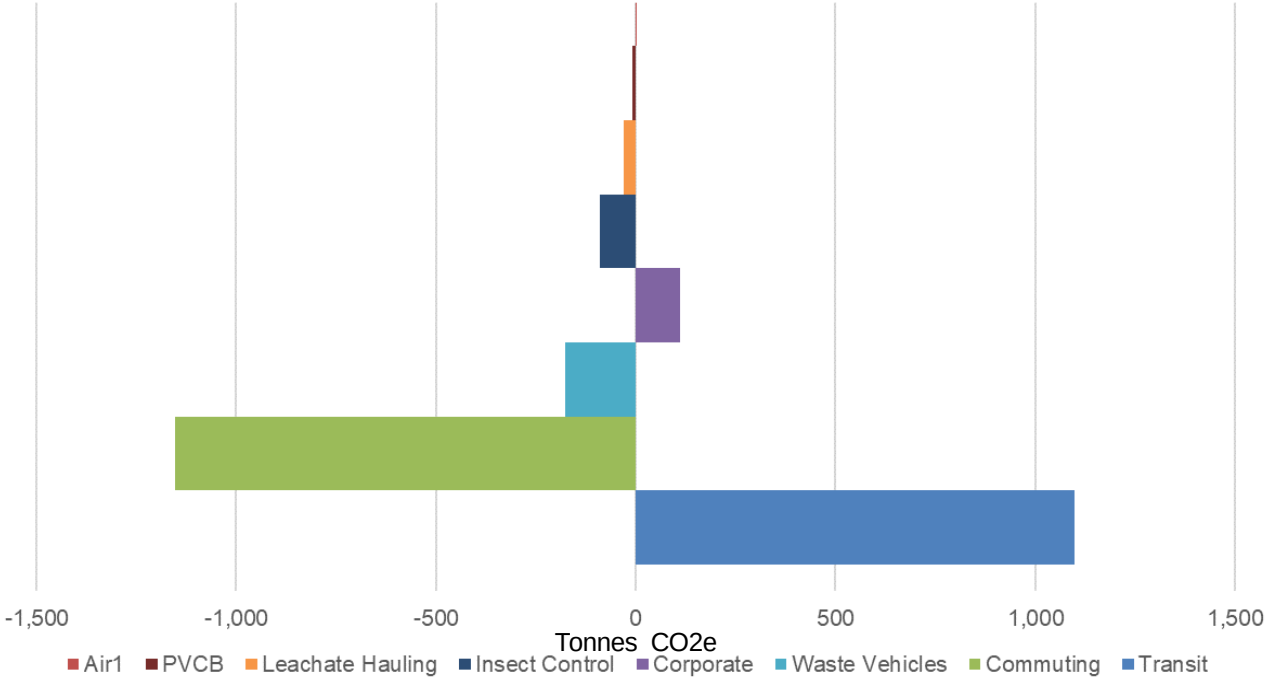


Winnipeg

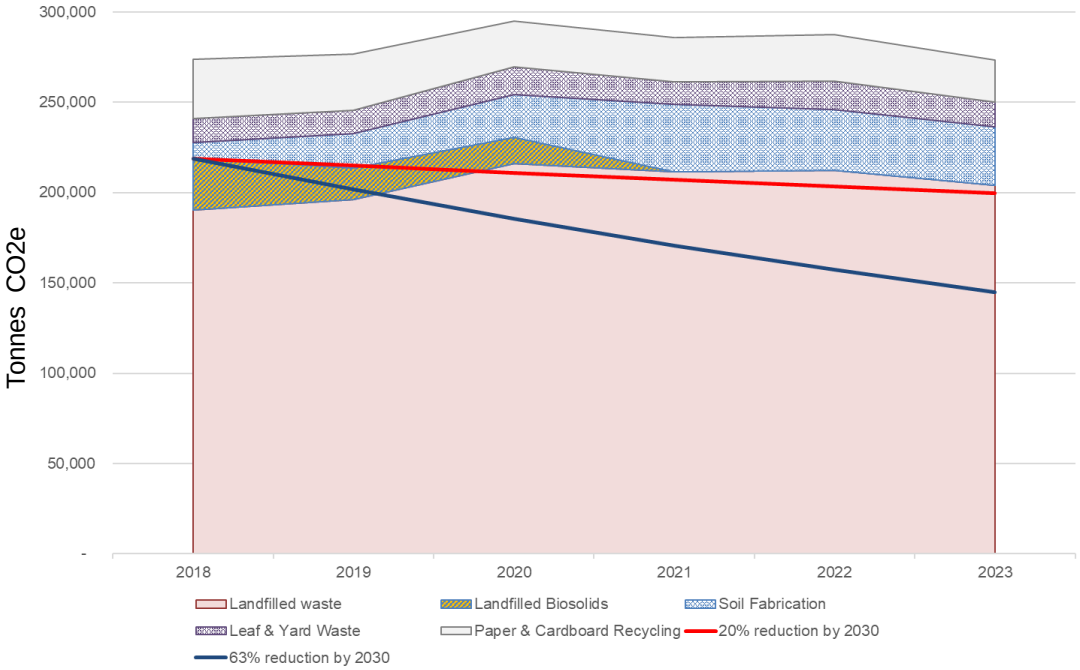
Energy Source Comparison



Vehicle Fleet Emissions Change

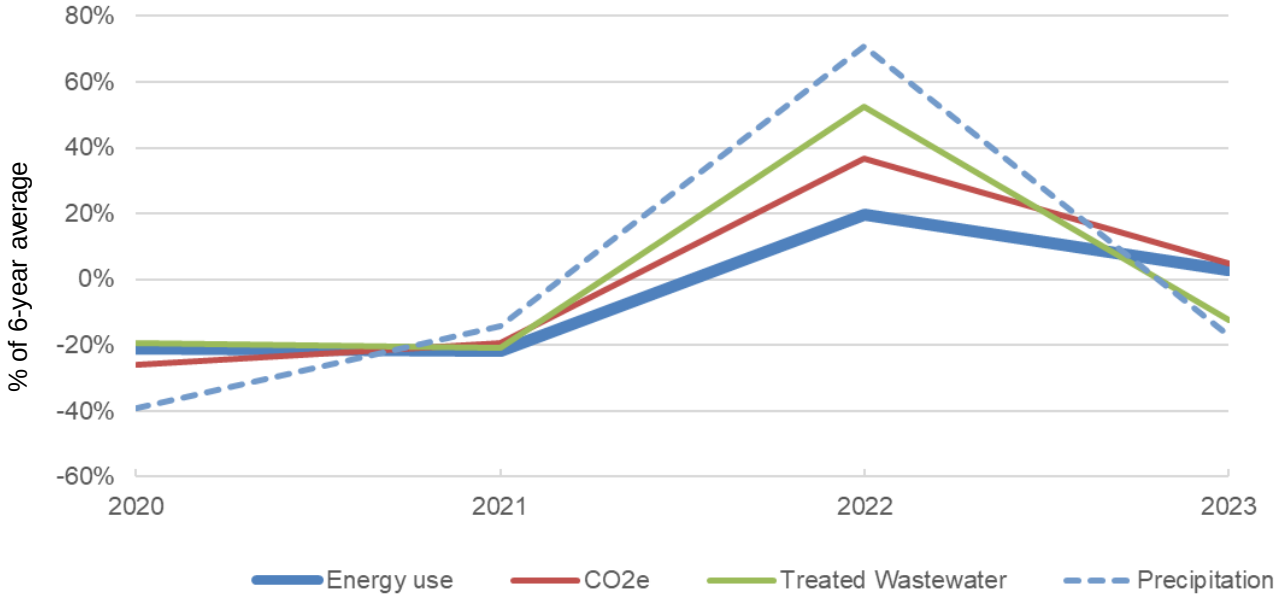


Waste and Diverted Stream Emissions



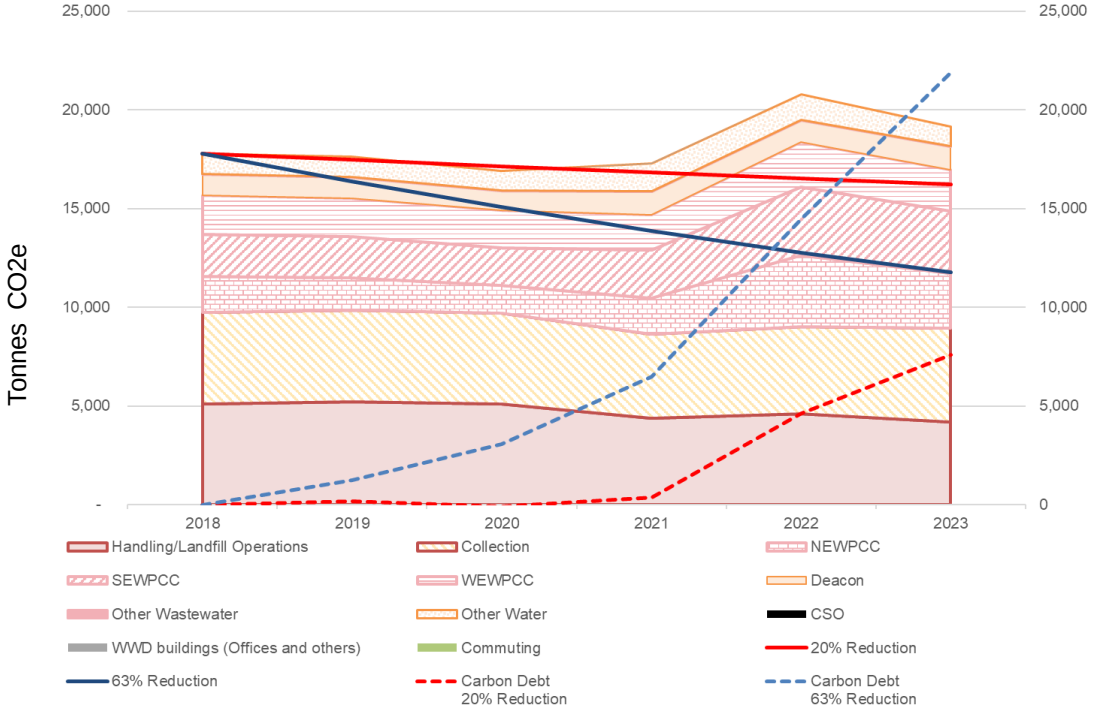
Winnipeg

Water & Wastewater Precipitation Impact

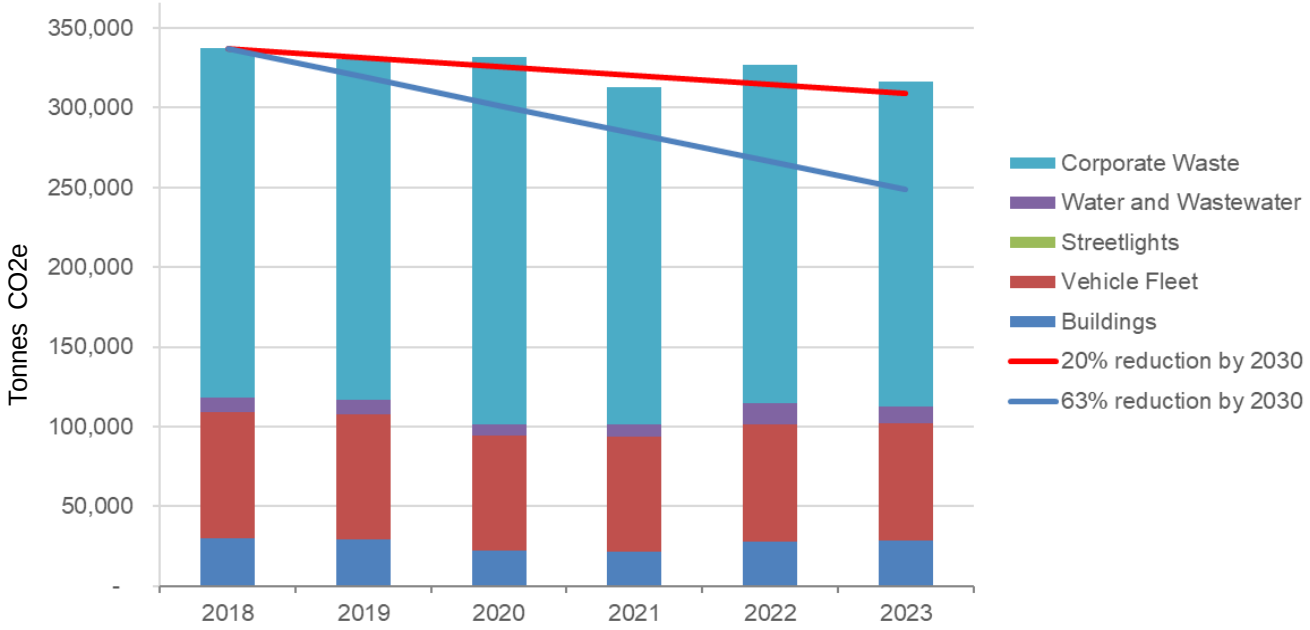


Winnipeg

Water & Waste Emissions Profile



Operations GHG Emissions by Sector



Winnipeg