



Haldimand
County

ENERGY CONSERVATION AND DEMAND MANAGEMENT PLAN 2024-2028



Overview

Noel Cheeseman
Director, Strategic Energy Solutions
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Background

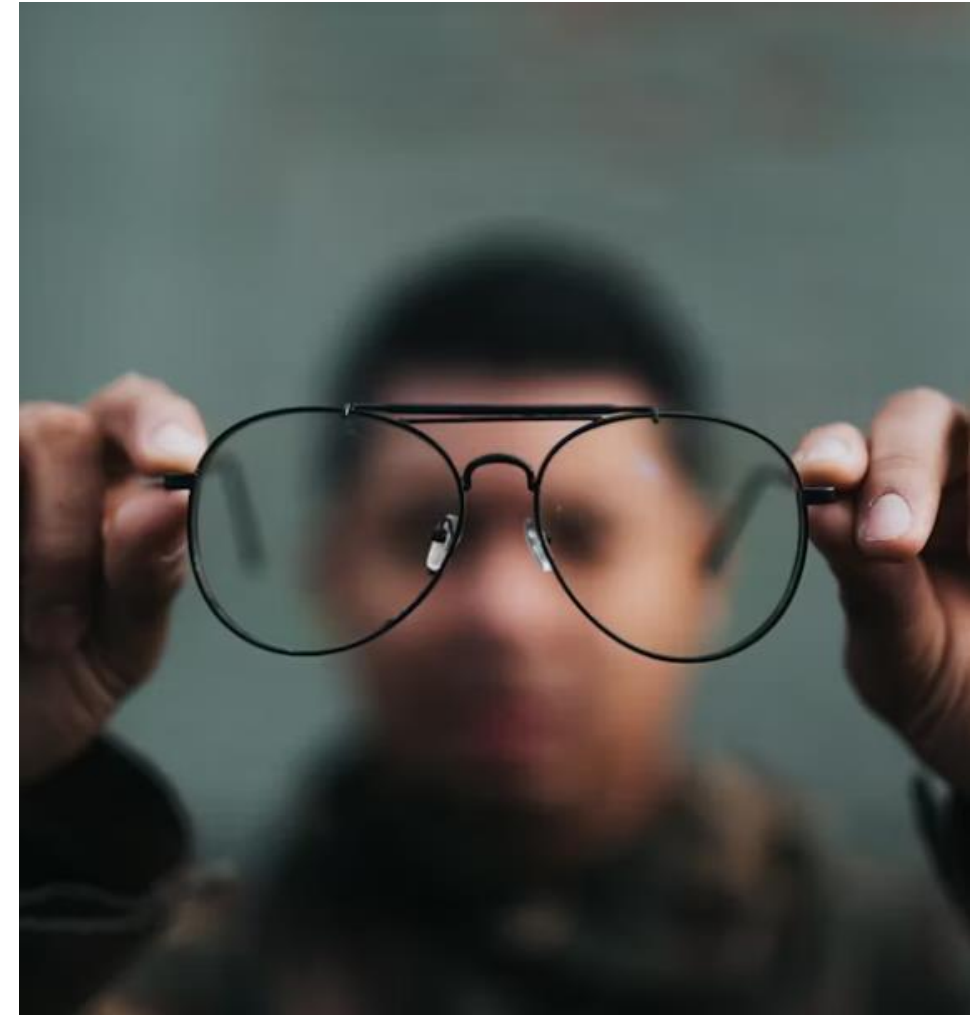
- Ontario Regulation 25/23:
 - Requires all Broader Public Sector to prepare and publish an Energy Conservation and Demand Management (ECDM) Plan every five years
 - Plan shall be approved by senior management
 - This is the third five-year period that the regulation has been in force
- With the County facilities team renewal, a commitment formed not only to meet the regulations but also to use them as an opportunity to build an energy management and efficiency mindset and expertise within the County
- Jupiter was retained in 2022 to facilitate the development of the energy management plan for the County
- Several departments have been involved from the beginning in the forming of the plan

Executive Summary

- The ECDM Plan fulfills the requirements of Ontario Regulation 25/23 for the Broader Public Sector
- The plan outlines the direction and focus related to managing County facility energy and water consumption as well as facility greenhouse gas (GHG) emissions
- There are goals with established energy and GHG emissions targets as well as overall objectives that will bring an energy conservation approach to daily operations
- The plan details the County's initiatives and measures activities across its operations

Vision Statement

- To unite Haldimand County's local government and stakeholders in a collaborative effort to optimize energy use, reduce demand, and advance conservation initiatives, ensuring a sustainable, resilient and prosperous energy future for Haldimand County's residents, visitors and neighbouring communities



Goals and Objectives

- The County has established the following energy and GHG emission targets:
 - 10% overall reduction in **energy intensity** consumption (ekWh/m²) from 2023 to 2028
 - 10% overall reduction in carbon emissions from 2023 to 2028

- Other overall objectives:
 - Create an Energy Team
 - Improve facility energy monitoring and documentation methods
 - Optimize facility equipment and operations
 - Review new build green energy certification and design standards
 - Explore an electric vehicle (EV) pilot program
 - Improve communication and training

Energy Team/Steering Committee/Working Groups

- The **Energy Team** will be created with key division members that will work together to drive the goals and objectives and is intended to become a corporate resource as experts in energy management for the County
- The **Steering Committee** will be comprised of Managers and Senior Management representatives who meet semi-annually and set higher level direction related to the plan and ongoing implementation for the entire organization
- **Working Groups** will be formed with Managers, supervisors and Technologist, meet more frequently, and would be the first point of contacts and work through energy projects – identifying and implementing various options for saving energy, leading awareness programs and monitoring energy consumption

Consumption Tracking & Analysis

- The Facilities Capital and Asset Management department is enhancing its data consumption collection and monitoring capability and will be exploring automatic data collection approaches to facilitate easier and more timely access to critical monthly utility consumption and cost data
- The Energy Team will meet quarterly to review energy consumption, benchmark facilities to identify irregularities for building operators to investigate and/or make adjustments, discuss improvement recommendations, and make progress towards the plan objectives

Future Projects

- Standard efficiency projects continue to be implemented such as LED lighting across facilities, HVAC upgrades and envelope improvements
- Future fleet conversions to EVs will be explored over the plan timeframe
- EV charging “ready” sites are available and new builds will have connection infrastructure installed in preparation for future stations
- For new construction, upgrading the Design Standards to include energy efficiency will be explored

