



Meeting Date: July 17, 2024

Prepared By: Aubrey Guevarra-Jongsma, Asset Management Coordinator

Submitted by: Aubrey Guevarra-Jongsma, Asset Management Coordinator

Report No: PWE-35-2024

Subject: Annual Energy Consumption Report 2022 and 2023

Recommendation:

THAT Report PWE-35-2024, re: Annual Energy Consumption Report 2022 and 2023 be received;

AND THAT the annual Energy Consumption and Greenhouse Gas Emissions Reports for 2022 and 2023 be approved for publication.

Purpose:

To provide Council the annual energy consumption and greenhouse gas emissions report for years 2022 and 2023 as submitted on July 1, 2024 to the Ministry of Energy.

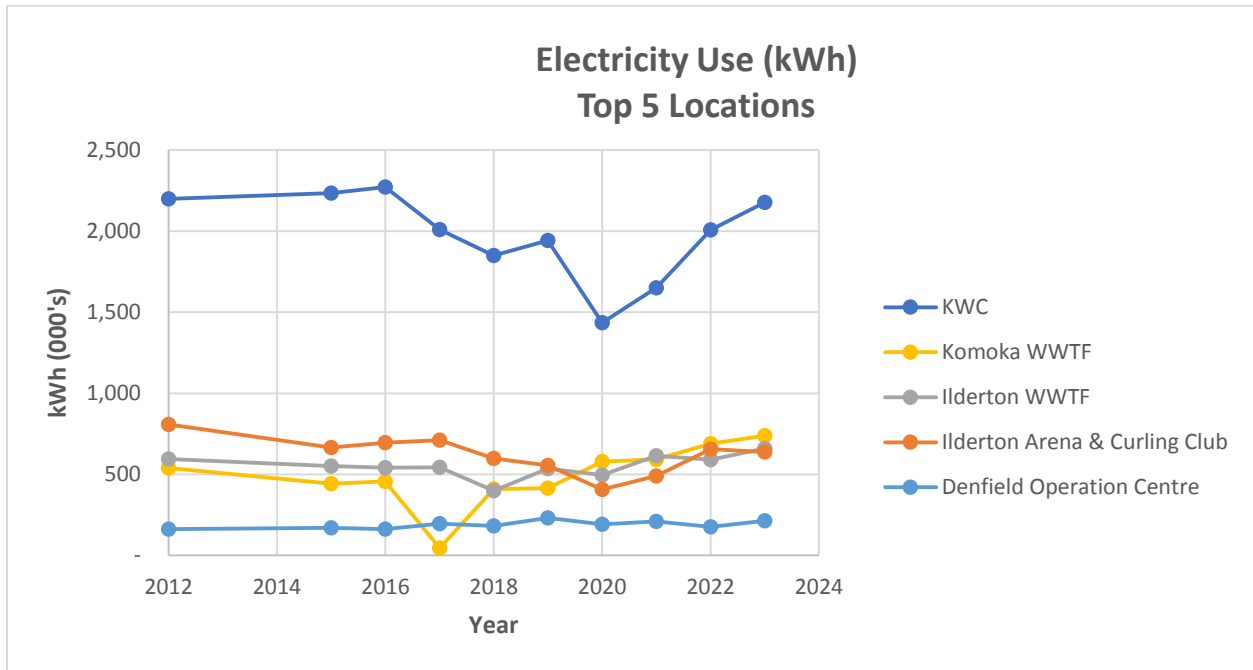
Background:

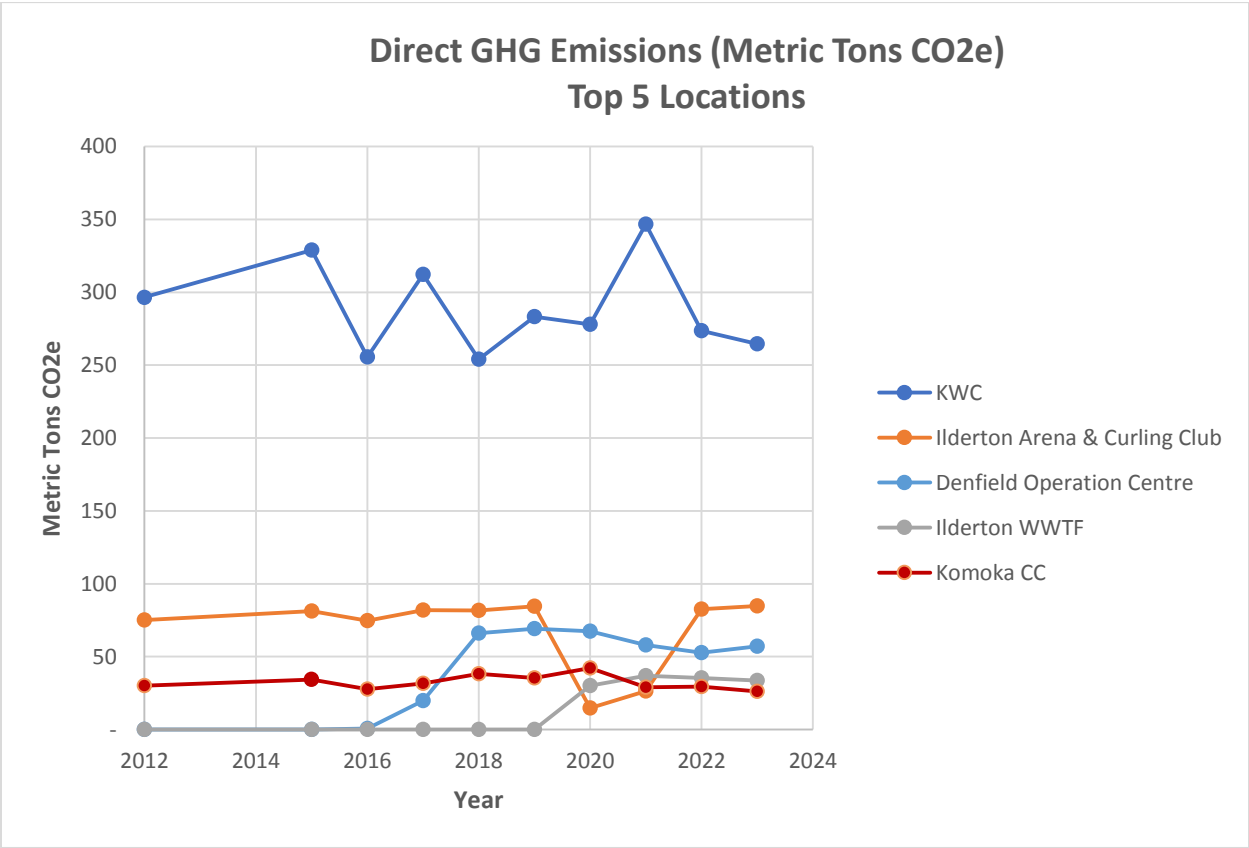
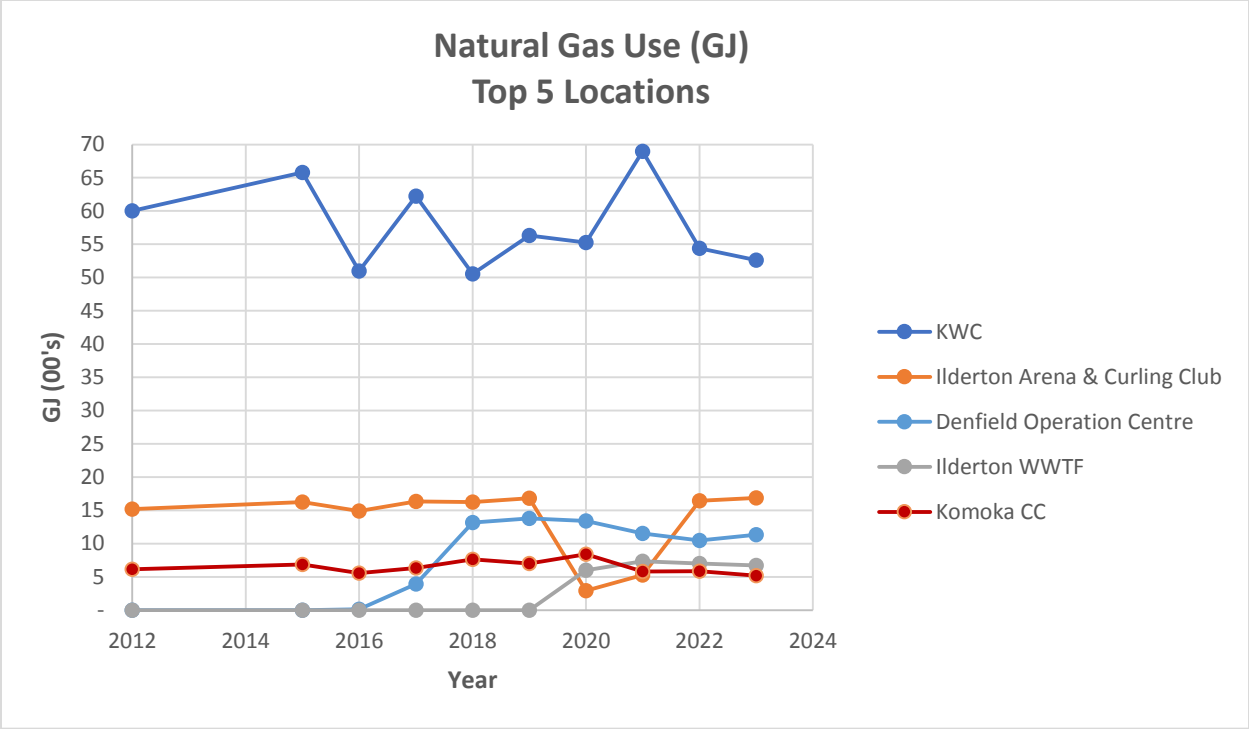
On February 23, 2023, Ontario Regulation 25/23 (Broader Public Sector: Energy Reporting and Conservation and Demand Management Plans) replaced O.Reg. 507/18, (Broader Public Sector: Energy Reporting and Conservation and Demand Management Plans). The new regulation retains the same policy intent and many of the provisions of the former BPS. Key changes in the new regulation include:

- 1) Adoption of Energy Star Portfolio Manager as the new reporting platform.
- 2) Phased in the energy consumption and GHG emissions reporting period from two calendar years in the past to one calendar year in the past. 2024 is the transitional year reporting for two years (2022 and 2023 energy data).
- 3) Prescriptive elements updates including new unit of measurements.

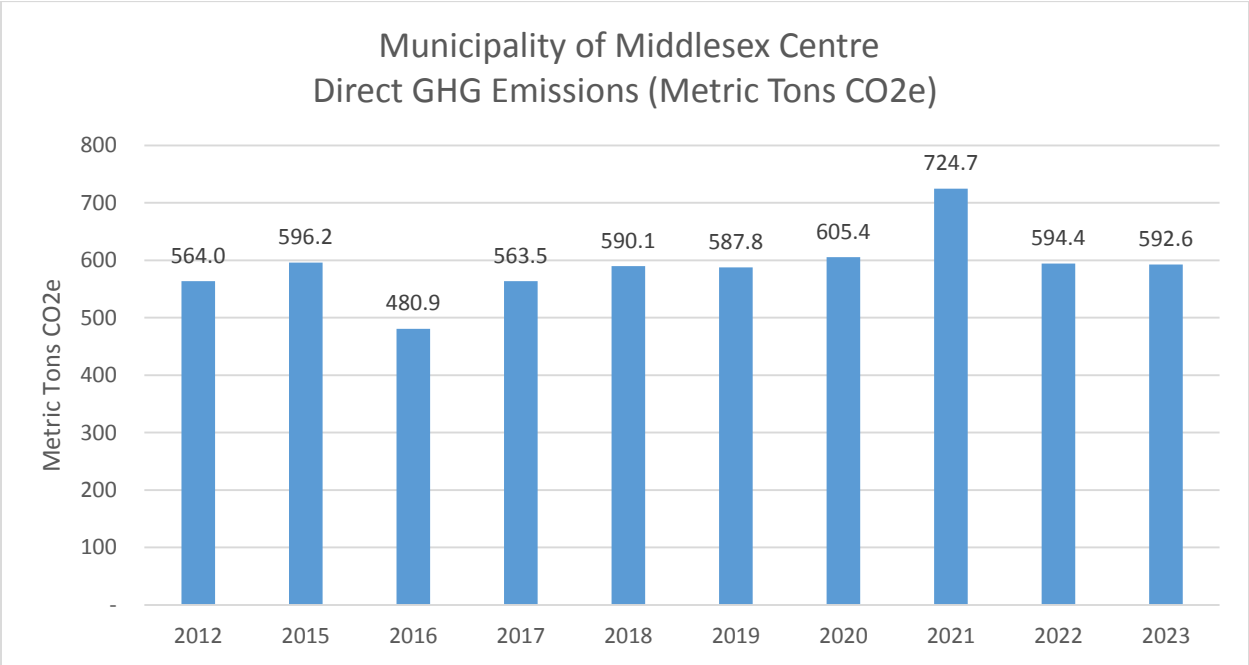
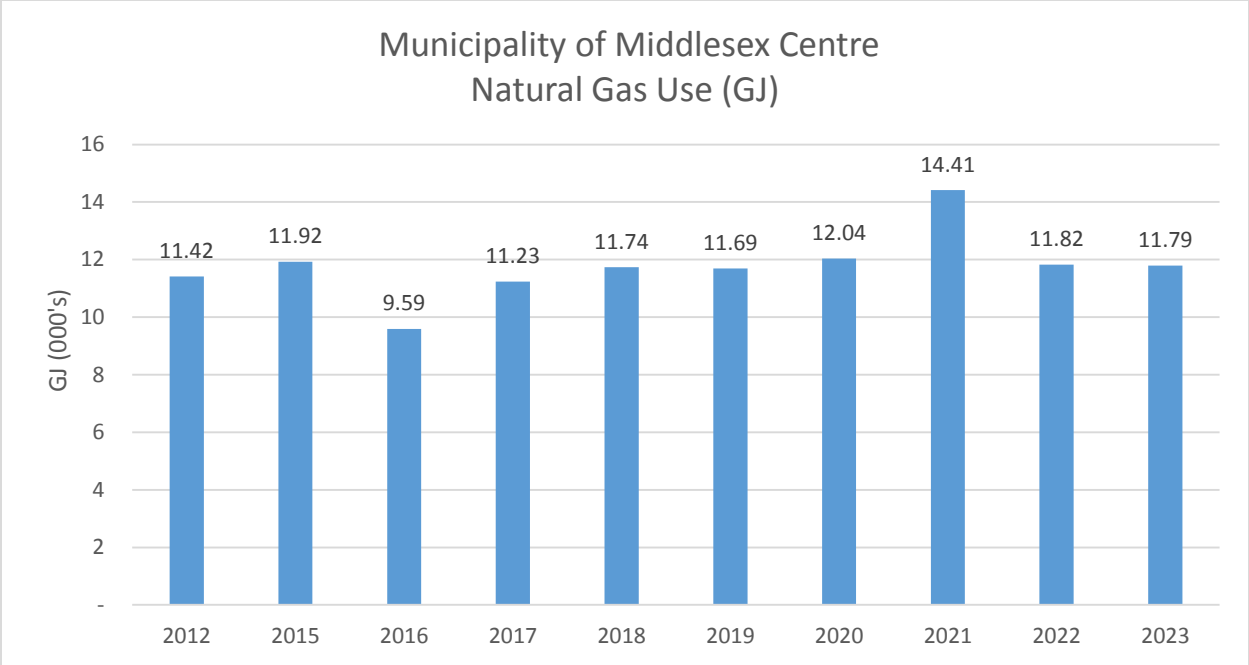
Analysis:

To comply with O.Reg. 25/23, the Municipality of Middlesex Centre has recorded and published energy consumption data since 2011. As required, such data has been submitted to the Ministry of Energy annually and been made available on the Municipality's website. Results from 2022 and 2023 energy consumptions: The Komoka Wellness Centre remains the highest consumer of both electricity and natural gas and the largest contributor of the Municipality's GHG emissions.





- Natural gas consumption decreased significantly between 2021 and 2023, resulting in 18.28% decrease in the Municipality's total GHG emissions.



- The increase in energy consumptions can be attributed to the Municipality's growth.

Table 1: Percentage Increase in Consumption & Emission

Energy Consumption Increase (2016 – 2023)		
Electricity Use Grid Purchase (kWh)	Natural Gas Use (GJ)	Direct GHG Emissions (Metric Tons CO2e)
16.85%	6.08%	6.59%

Table 2: Census 2016 & 2021 and
Year End Fourth Quarter 2023 Building Activity Summary

Private Dwellings		
2016	2023	Growth
6,139	7,194	17.19%

Financial Implications:

N/A

Strategic Plan:

This matter aligns with following strategic priorities:

- Sustainable Infrastructure and Services

Attachments:

Appendix – Energy Consumption and Greenhouse Gas Emissions Reports 2022 and 2023