



## Committee of the Whole

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**Meeting Date:** June 28, 2016

**Submitted by:** James Gates, Treasurer

**SUBJECT:** ENERGY CONSERVATION AND DEMAND MANAGEMENT  
PLANS O'REG 397/11

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### **BACKGROUND:**

Ontario Regulation 397/11, Energy Conservation and Demand Management Plans, requires all broader public sector (BPS) organizations, including hospitals, municipalities, universities, colleges, school boards and municipal service boards responsible for water and sewage treatment and pumping operations to:

- Report on their annual energy use and greenhouse gas (GHG) emissions in designated buildings/facilities by July 1 beginning in 2013; and
- Develop and implement 5-year energy conservation and demand management plan (CDM) by July 1, 2014

This year BPS organizations are required to report their 2014 energy consumption data by July 1, 2016.

- Energy consumption data is to be submitted to the ministry and made publicly available on the organization's website and intranet site and be available in printed form at their head office.
- CDM plans are to be made publicly available on their website and intranet site, and be available in printed form at their head office. While BPS organizations are not required to submit their CDM plans to the ministry, the portal includes an area for BPS organizations to indicate that their plan has been completed and to provide a link to it on their BPS organization's website.

The requirements are published in Ontario Regulation 397/11 – Energy Conservation and Demand Management Plans, under the Green Energy Act, 2009.

What is an ECDM Plan? An ECDM plan is comprised of two parts:

1. A summary of the public agency's annual energy consumption and greenhouse gas (GHG) emissions for its operations.
2. A description of previous, current and proposed measures for conserving and otherwise reducing the amount of energy consumed by the agency's operations and for managing the agency's demand for energy, including a forecast of the expected results of the current and proposed measures.

**ANALYSIS:**

The regulation relates to any municipal buildings that are owned or leased that:

- Are heated or cooled and the municipality is responsible for the payment of energy costs,
- Are related to the treatment or pumping of water or sewage, whether or not the building or facility is heated or cooled, and the municipality is responsible for the payment of energy costs.

This does not apply to non-building structures or energy sources (i.e., street lighting, etc.)

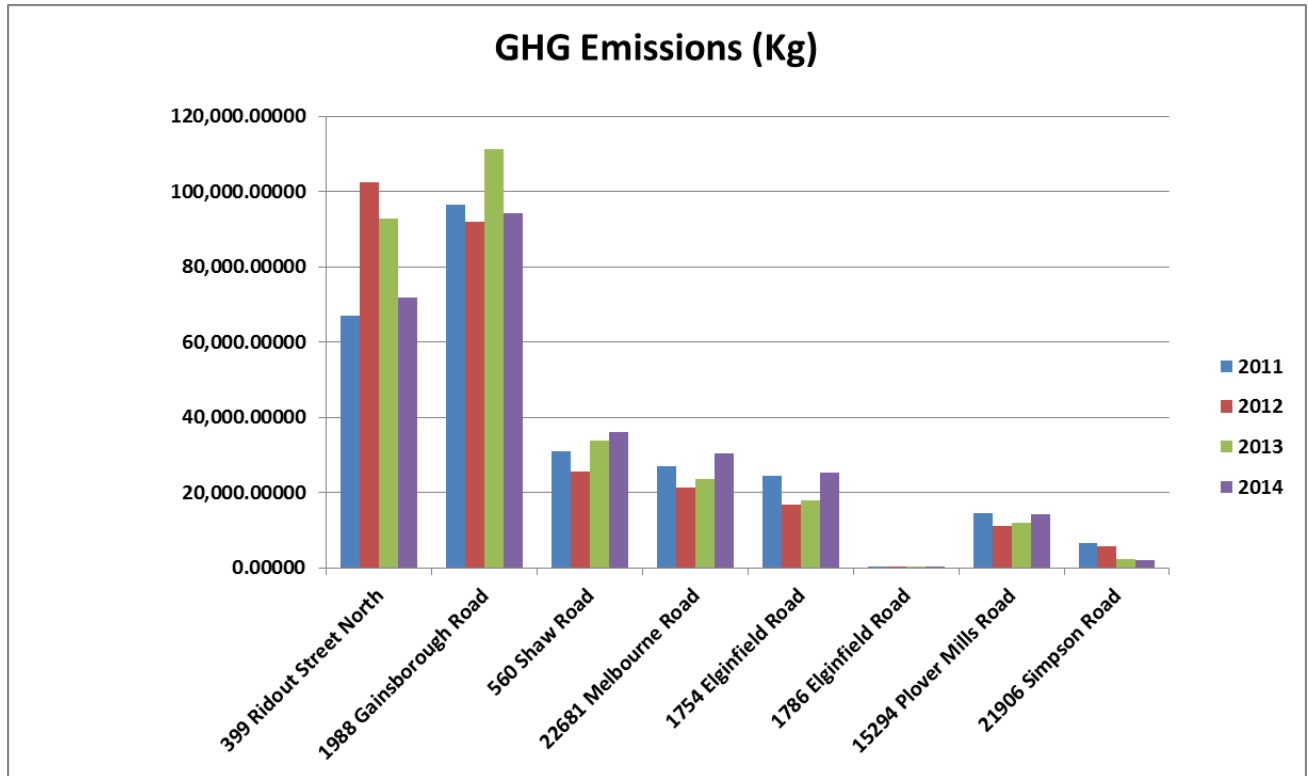
For the County of Middlesex under this regulation we must report on the County building (399 Ridout North) Ambulance Stations (April 2012) and the Works Garages.

We do not report on 50 King as the Health Unit pays 100% of the energy costs and if required they would report; and we do not report on the County's Library buildings that are owned by the local municipalities because we do not pay the energy costs. We also do not report on Strathmere Lodge as it is not required. In the education sessions they recommended that if your home for the aged was going to be retrofitted it would be a good idea to include it in to ensure you would meet your energy savings goal. Since Strathmere Lodge is a new building, it has not been included.

**RECOMMENDATION:**

That the Energy Consumption and Greenhouse Gas Emissions report for 2014 be posted on our website.

Attachment



Sector	Municipality	Please fill in the mandatory fields indicated in red, in addition to submitting data on your energy usage.										Energy Type and Amount Purchased and Consumed in Natural U			Total (calculated in webform)			Comments
Agency Sub-sector	Municipal	Address	City	Postal Code	Total Floor Area	Unit	Avg hrs/wk	Annual Flow (Mega Litres)	Electricity		Natural Gas		GHG Emissions (Kg)	Energy Intensity (ekWh/sq ft)	Energy Intensity (ekWh/Mega Litre)			
Organization Name	County of Middlesex								Quantity	Unit	Quantity	Unit						
Operation Name	Operation Type																	
Stephenson Building	Administrative offices and related facilities, including municipal council chambers	2160 Yonge Street	Toronto	M7A 2G5	135,034.00	Square meters	70	23516.00224	2,181,065.00000	kWh	125,300.00000	Cubic meter				max. 255 characters		
County Building	Administrative offices and related facilities, including municipal council chambers	399 Ridout Street North	London	N6A 2P1	57,492.00	Square feet	35	0.00000	805,733.00000	kWh	20,856.00000	Cubic Meter	71,669.09978	17.87007	0.00000			
Station 1 - Waterloo - Headquarters	Ambulance stations and associated offices and facilities	340 Waterloo Street	London	N6B 2N6	16,100.00	Square feet	168	0.00000	160,057.00000	kWh	42,215.00000	Cubic Meter	86,216.85943	37.80799	0.00000			
Station 2 - Meg Drive	Ambulance stations and associated offices and facilities	45 Meg Drive	London	N6E 2V2	4,880.00	Square feet	168	0.00000	42,510.00000	kWh	20,305.00000	Cubic Meter	40,090.04885	52.93176	0.00000			
Station 3 - Oxford Street	Ambulance stations and associated offices and facilities	611 Oxford Street West	London	N6H 1T8	2,000.00	Square feet	168	0.00000	8,472.00000	kWh	3,096.00000	Cubic Meter	6,192.35438	20.68780	0.00000	Station 3 moved to 745 Horizon Dr. as of May 2014, see Station 16		
Station 4 - Trossacks	Ambulance stations and associated offices and facilities	1601 Trossacks Avenue	London	N5X 2G3	2,142.00	Square feet	168	0.00000	31,968.00000	kWh	5,989.00000	Cubic Meter	12,602.03675	44.63948	0.00000			
Station 6 - Glencoe	Ambulance stations and associated offices and facilities	147 McKellar Street	Glencoe	N0L 1M0	2,178.00	Square feet	168	0.00000	16,564.00000	kWh	2,559.00000	Cubic Meter	5,500.85670	20.09205	0.00000			
Station 7 - Strathroy	Ambulance stations and associated offices and facilities	61 Albert Street	Strathroy	N7G 1V4	2,742.00	Square feet	168	0.00000			7,113.00000	Cubic Meter	13,448.02985	27.56943	0.00000			
Station 8 - Parkhill	Ambulance stations and associated offices and facilities	179 Mill Street	Parkhill	N0N 2K0	1,728.00	Square feet	168	0.00000			2,147.00000	Cubic Meter	4,059.17617	13.20477	0.00000			
Station 9 - Lucan	Ambulance stations and associated offices and facilities	188 George Street	Lucan	N0M 2I0	2,940.00	Square feet	168	0.00000	19,333.00000	kWh	3,699.00000	Cubic Meter	7,766.96194	19.94733	0.00000			
Station 10 - Nilestown	Ambulance stations and associated offices and facilities	2024 Westchester Bourne	Nilestown	N6M 1H6	2,178.00	Square feet	168	0.00000	14,817.00000	kWh			592.84299	6.80303	0.00000			
Station 12 - Komoka	Ambulance stations and associated offices and facilities	22494 Komoka Road	London	N0L 1R0	2,568.00	Square feet	168	0.00000	28,582.00000	kWh	4,145.00000	Cubic Meter	8,980.24332	28.28432	0.00000			
Station 13 - Byron	Ambulance stations and associated offices and facilities	3100 Colonel Talbot Road	London	N6P 0B3	2,340.00	Square feet	168	0.00000	24,124.00000	kWh	4,709.50000	Cubic Meter	9,869.13322	31.69894	0.00000			
Station 14 - Hyde Park	Ambulance stations and associated offices and facilities	2225 Hyde Park Road	London	N6H 5K2	4,036.00	Square feet	168	0.00000			9,334.00000	Cubic Meter	17,647.11242	24.57871	0.00000			
Station 16 - Horizon	Ambulance stations and associated offices and facilities	745 Horizon Dr.	London	N6H 4L1	5,354.00	Square feet	168	0.00000	28,906.00000	kWh	8,303.00000	Cubic Meter	16,854.43395	21.88054	0.00000	New Station as of May 2014, replaced Station 3		
Transportation - District 1 (Central Garage)	Storage facilities where equipment or vehicles are maintained, repaired or stored	1988 Gainsborough Road	London	N6H 5L2	21,183.38	Square feet	66	0.00000	161,172.00000	kWh	46,355.00000	Cubic Meter	94,088.66748	30.86489	0.00000			
Transportation - District 2	Storage facilities where equipment or vehicles are maintained, repaired or stored	560 Shaw Road	Dorchester	N0L 1G4	9,500.00	Square feet	40	0.00000	52,050.00000	kWh	17,998.00000	Cubic Meter	36,110.07730	25.61355	0.00000			
Transportation - District 3	Storage facilities where equipment or vehicles are maintained, repaired or stored	22681 Melbourne Road	Melbourne	N0L 1T0	9,152.00	Square feet	40	0.00000	62,664.00000	kWh	14,720.00000	Cubic Meter	30,337.27874	23.94066	0.00000			
Transportation - District 4	Storage facilities where equipment or vehicles are maintained, repaired or stored	1786 Elginfield Road	Parkhill	N0M 2K0	4,050.00	Square feet	40	0.00000	4,382.00000	kWh			175.32820	1.08198	0.00000			
Transportation - District 4	Storage facilities where equipment or vehicles are maintained, repaired or stored	1754 Elginfield Road	Parkhill	N0M 2K0	9,152.00	Square feet	40	0.00000	67,754.00000	kWh	11,989.00000	Cubic Meter	25,377.63240	21.32544	0.00000			
Transportation - District 6	Storage facilities where equipment or vehicles are maintained, repaired or stored	15294 Plover Mills Road	Bryanston	N0M 2A0	2,500.00	Square feet	40	0.00000	8,853.00000	kWh	7,287.00000	Cubic Meter	14,131.21633	34.51904	0.00000			
Transportation - District 9	Storage facilities where equipment or vehicles are maintained, repaired or stored	21906 Simpson Road	Glencoe	N0L 1M0	3,842.00	Square feet	2	0.00000	51,052.00000	kWh			2,042.64157	13.28787	0.00000			