



THE TOWNSHIP OF NORTH DUNDAS

Energy Conservation and Demand Management Plan

This plan will be reviewed and evaluated every 5 years in accordance with Ontario Regulation 507/18. The next review will begin in January of 2024. This plan has been approved by the Senior Management of the Township of North Dundas and was presented to the Council of the Township of North Dundas on June 18, 2019.

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INTRODUCTION

The Township of North Dundas has developed this plan in accordance with Ontario Regulation 507/18 requiring the broader public sector, and more specifically municipalities, to report on the greenhouse gas emissions and energy consumption annually. Further it requires the development and implementation of a five-year Conservation and Demand Management (CDM) plan. This information is available to the public on the Municipality's website and is also available in printed form in the municipal office.

GOALS AND OBJECTIVES

Vision

The Township of North Dundas is committed to lowering energy consumption and greenhouse gases through awareness and continuous improvement while keeping in mind any factors that may arise throughout its duration.

Goals

The Township of North Dundas will diligently work towards lowering energy costs through energy conservation and to lessen our environmental impact through lowering our Green House Gas Emissions.

Objectives

The Township of North Dundas will continue to find ways to reduce energy consumption by:

- 1) Working on achieving energy efficiency in all Township facilities;
- 2) Monitoring and reporting to departments on energy consumption annually;
- 3) Analyzing energy costs for savings, and;
- 4) Raising staff and council awareness around energy efficiency.

MONITORING AND EVALUATION

The Township of North Dundas reviews energy usage on an annual basis and strives to make reductions wherever possible. During the course of the planning, implementation and execution, budget and external factors are taken into consideration and the action may be altered to fit into a new budgeted amount. As well, during the course of planning, if new energy saving actions are found, they will be identified for future energy planning considerations.

Departmental Responsibilities

Each department actively participates in assisting with lowering energy usage and implementing energy saving actions. Department Managers are responsible for budgeting for the energy saving activities in their departments, for monitoring the results and updating other departments on results achieved. Gas and hydro bills are reviewed by Department Managers monthly.

ACTION LIST

The following is an update on the various actions (behavioral, technical and operational) that the Township proposed in the initial Energy Conservation & Demand Energy Plan submitted in 2014.

Achieved:

1. **Asset Disposal.** All Departments were asked to consider disposal of underused assets and/or facilities to reduce energy consumption and costs.
 - Office computers are being replaced on a yearly basis with more energy efficient systems with an energy star rating. It is estimated that energy star labelled computers use at least 30% less energy, depending upon usage. Wherever possible, laptop computers and tablets are purchased instead of desk top units depending upon computing needs. Desktop computers use 60 to 200 watts of electricity on average, whereas laptops use 20 to 50 watts. Since 2014, two printers and twenty-three energy efficient computing systems have been purchased at a cost of \$33K (includes software). This action is ongoing.
2. **Power Management (all departments).** All staff were made aware of internal energy savings. This action is ongoing. Examples include:
 - All computer systems are turned off at the end of the business day. Computers generate heat so turning computers off at the end of the work day reduces the cooling needs for the buildings.
 - The record storage facility is equipped with a motion sensing switch.
 - Signs were installed above light switches encouraging users to turn off lights when they leave.

Procurement (all departments). Standard practice is for the Township to investigate and implement energy savings policies and practices whenever possible and to purchase energy star rated products if available. Some estimates

predict savings as high as 75% on some products. This is an ongoing action and energy savings from this practice cannot be isolated. A sample of actions taken include:

2014:

- \$3.7K was spent on a new gas furnace at the Nelson LaPrade Centre.

2015:

- Approximately \$30K was spent at the Joel Steele Arena to purchase a new hot water tank and a new dehumidifier.
- Lighting in the Municipal building was replaced with more efficient lighting for an estimated cost of \$14.6K.

2016:

- The outdoor rink lights at the Morewood Community Centre were replaced with more energy efficient lights at a cost of roughly \$21K. Another \$5.5K was spent to upgrade the lighting in the Centre.
- Roughly \$4K was spent on the lights at the Chesterville waterfront.

2017:

- The HVAC system at the Morewood Arena was replaced for \$23K.
- Roughly \$27K was spent to replace thirty-nine 4-foot regular T-8 fluorescent lights (32 watts) with LED fluorescent lights (11.5 watts) in the Chesterville Arena for a reduction of 799.5 watts.
- Roughly \$18.5K was spent to install more energy efficient lights at the Sox baseball field in Winchester.
- A new furnace was purchased for the Morewood Fire hall at a cost of \$3.5K.

2018:

- Roughly \$32K was spent to replace thirty-nine 4-foot regular T-8 fluorescent lights (32 watts) with LED fluorescent lights (11.5 watts) in the Winchester arena for a reduction of 799.5 watts.
- Conversion kits were installed on seven fixtures to allow 8-foot regular T-8 fluorescent lights to be replaced with 4-foot LED fluorescent lights at a cost of \$210.00 + HST.
- Approximately \$7K was spent on a new heating/cooling system at the Chesterville Heritage Museum.
- Eight windows in the Morewood fire hall were replaced with triple pane insulated glass at a cost of roughly \$2,500. Additionally, \$1,000 was spent on

a new insulated door and another \$200 was spent converting seven 8-foot light fixtures to accept 4-foot LED lamps.

- Fourteen ballasts were replaced in 347 volt light fixtures to make them compatible with LED tubes at the Winchester Arena. The cost for new ballasts was \$560.00+HST.

3. **LED Streetlights (Public Works).** Commencing in 2014, 649 high pressure sodium streetlights were replaced with LED streetlights. To accommodate this upgrade, approximately 50% of the streetlight fixtures needed to be rewired. Roughly \$400,000 was spent on this project resulting in the following changes:

- 16 – 100W to 49W – 48 LED Phillips
- 502 – 150W to 78W – 48 LED Philips
- 63 – 200W to 78W – 48 LED Philips
- 17 – 250W to 78W – 48 LED Philips
- 24 – 200W Induction to 78W – 48 LED Philips
- 5 – 150W Lanterns to 90W – 49 LED Philips
- 22 – 150W to 80W – 48 LED Philips

Similar upgrades have been made to the lights in municipally-owned parking lots.

4. **More Efficient Technology.** In 2014, the Township worked with the Ontario Clean Water Agency (OCWA) to obtain a grant to retrofit more energy efficient technology at the Winchester Lagoon and Winchester Well #6. Below are the cost and savings estimates provided by OCWA:

Winchester Lagoon:

Estimate Cost: \$19,413.21 + taxes + OCWA's service fee

Estimated OPA Rebate: \$10,000.00

Estimated yearly hydro savings: \$3,538.00 + demand charges + taxes & delivery

Payback period: 2.69 years

ROI: 37%

Winchester Well #6:

Estimate Cost: \$6,267.88 + taxes + OCWA's service fee

Estimated OPA Rebate: \$3,136.00

Estimated yearly hydro savings: \$2,003.12 + demand charges reduction + tax reduction based on a hydro rate of \$0.10/kWh

Payback period: 1.56 years

ROI: 64%

5. **Fuel Management (all departments).** The Township has not established a formal anti-idling policy for its staff and fleet vehicles. However, all drivers are encouraged not to leave their vehicles idling. Additionally, when fleet vehicles need replacing, more energy efficient vehicles are being purchased by the Township whenever possible. This action is ongoing.

Revised Actions:

1. **AC/Heating (Recreation).** Replacing the rooftop AC/Heating unit at the Joel Steele Arena, originally scheduled for completion prior to 2019, has not yet been completed, but remains a priority for the Municipality. This action is expected to occur in the next few years. No cost or energy saving estimates are available at this time.

Future Actions:

1. **AC/Heating (Recreation).** The municipal office currently utilizes ground source heat pump technology. We are upgrading the AC/Heating system at the municipal office and are working with engineers to determine the most cost and energy effective replacement system.

We are also replacing the roof of the municipal building which should provide additional insulation and reduce heating costs. We expect this project to be completed in 2019/20. Cost and savings will depend upon the AC/Heating system chosen. This will be a one-time action resulting in annual savings.

2. **Recreation facility timers (Recreation).** Timers are being installed on one ball diamond and one soccer field to reduce energy usage. The cost for the timers is \$800.00. Estimated savings are difficult to assess as previous to the installation of timers, teams were given access to the lights to turn on and off as needed. On occasion the lights were left on all night and/or teams played longer than scheduled causing a higher usage of hydro. Timers will regulate the lights and lower the energy use. This is a one-time action that will result in ongoing energy savings.
3. **Landfill (Waste Management):** The Township is currently investigating the costs/benefits of redesigning curbside waste collection. This change would require the purchase of more energy efficient vehicles, and would reduce the number of collection vehicles from four to two.

DATA:

As per Ontario Regulation 507/18 the Township of North Dundas submits energy usage to the Ministry of Energy, Northern Development and Mines annually. This information is posted on the Township's website as well as on the Ministry's website.

Historical Data

Appendix A shows our progress towards energy reductions included in the 2014 report. The Township set an initial goal of reducing gas and hydro usage by 4% annually. Please note, data errors discovered after submission of original data to the Ministry have been corrected in this report. Additionally, obvious outliers that skew the data analysis have been removed. Original data submitted can be viewed on the Ministry of Energy, Northern Development and Mines website. See address below.

Current Data

Highlights of data for 2017 are included as Appendix B. To view the complete data submission, please refer to the Ministry's website below.

<https://www.ontario.ca/data/energy-use-and-greenhouse-gas-emissions-broader-public-sector>

Appendix A – Comparison of Historical Data

Note: This information is self-reported and may contain errors. Changes in reporting requirements/categories during the reporting period may also affect the data below.

Operation Name	Year	Hydro (kWh)	% Change Annually	Gas (m ³)	% Change Annually	% Change Gas & Hydro
Ambulance Building	2012	11238		3805		
656 St. Lawrence Street	2013	11231	-0.06	4462	14.72	7
Winchester	2014	11374	1.26	4653	4.10	3
	2015	10944	-3.93	4257	-9.30	-7
	2016	11002	0.52	4308	1.18	1
	2017	9890	-11.24	5028	14.32	2
Chesterville Fire Station	2012	19703				
1 Industrial Drive	2013	17903	-10.05			-5
Chesterville	2014	20974	14.64			7
	2015	18327	-14.44			-7
	2016	17203	-6.53			-3
	2017	15085	-14.04			-7
Chesterville Heritage Hall	2013	1606		3741		
14 Victoria Street	2014	2065	22.22	3610	-3.64	9
Chesterville	2015	1797	-14.90	3461	-4.31	-10
	2016	1208	-48.81	3373	-2.59	-26
	2017	1641	26.42	3981	15.25	21
Municipal Office Building	2012			706		
636 St. Lawrence Street	2013	598958		5144	86.28	43
Winchester	2014	589746	-1.56	3912	-31.50	-17
	2015	604813	2.49	4139	5.49	4
	2016	610399	0.92	4697	11.87	6
	2017	681192	10.39	6692	29.82	20
Nelson LaPrade Centre	2012	29032		1271		
9 William Street	2013	32395	10.38	1556	18.32	14
Chesterville	2014	33211	2.46	1632	4.63	4
	2015	30976	-7.21	1518	-7.50	-7
	2016	29493	-5.03	1100	-38.06	-22
	2017	31583	6.61	1268	13.30	10

Operation Name	Year	Hydro (kWh)	% Change Annually	Gas (m ³)	% Change Annually	% Change Gas & Hydro
Winchester Pool (seasonal)	2012	12760		2135		
575 Main Street	2013	11092	-15.04	1582	-34.91	-25
Winchester	2014	12141	8.64	1711	7.52	8
	2015	11429	-6.23	8130	78.95	36
	2016	13537	15.57	1509	-438.81	-212
	2017	13119	-3.18	6374	76.33	37
Chesterville Community Hall	2012	41347		2613		
1 Mill Street	2013	59338	30.32	1752	-49.11	-9
Chesterville	2014	69328	14.41	2278	23.07	19
	2015	61575	-12.59	2240	-1.67	-7
	2016	57255	-7.54	3098	27.70	10
	2017	55192	-3.74	2861	-8.27	-6
Inkerman Recreation Centre	2012	3329				
11450 Cameron Road	2013	3099	-7.42			-4
Inkerman	2014	2783	-11.34			-6
	2015	1873	-48.60			-24
	2016	2947	36.44			18
	2017	2500	-17.86			-9
Morewood Fire Station	2012	20897		4942		
21 Russell Street	2013	22717	8.01	6576	24.85	16
Morewood	2014	20718	-9.65	6472	-1.61	-6
	2015	19037	-8.83	6644	2.58	-3
	2016	16304	-16.77	8373	20.66	2
	2017	15080	-8.12	6157	-36.00	-22
Morewood Community Centre	2012					
17 Russell Street	2013					
Morewood	2014	21905		10286		
	2015	16541	-32.43			-16
	2016	11973	-38.16	6108		-19
	2017	15538	22.94	7600	19.63	21

Operation Name	Year	Hydro (kWh)	% Change Annually	Gas (m3)	% Change Annually	% Change Gas & Hydro
Morewood Community Centre	2012	24681		6765		
17 Russell Street	2013	28030	11.95	6438	-5.09	3
Morewood	2014	28229	0.70	6234	-3.26	-1
	2015	25954	-8.76	6259	0.39	-4
	2016	33075	21.53			11
	2017	14966	-121.00			-61
Chesterville Pool (seasonal)	2012	15417		6139		
1 William Street	2013	13416	-14.92	11941	48.59	17
Chesterville	2014	13905	3.52	11905	-0.31	2
	2015	12392	-12.21	2048	-481.26	-247
	2016	15366	19.36	5742	64.33	42
	2017	16670	7.82	6650	13.66	11
Park Pavilion Building	2015	1861		1530		
5 William Street	2016	1533	-21.39	1734	11.76	-5
Chesterville	2017	6165	75.13	1860	6.78	41
Old Town Hall	2012	580		5071		
478 Main Street	2013	954	39.20	1896	-167.52	-64
Winchester	2014	660	-44.51			-22
	2015	360	-83.38	1217		-42
	2016	465	22.51	1228	0.88	12
	2017	421	-10.23	1541	20.33	5
Old Town Hall	2012	19752		1523		
478 Main Street	2013	20870	5.36	9577	84.10	45
Winchester	2014			5883	-62.80	-31
	2015	19730		6491	9.36	5
	2016	20099	1.84	5268	-23.20	-11
	2017	19564	-2.73	4950	-6.42	-5
South Mountain Fire Station	2012	11180		4299		
2947 Lough Road	2013	6453	-73.25	4746	9.41	-32
South Mountain	2014					
	2015	9180		4632		
	2016	12979	29.27	4623	-0.20	15
	2017	14283	9.13	5221	11.46	10

Operation Name	Year	Hydro (kWh)	% Change Annually	Gas (m ³)	% Change Annually	% Change Gas & Hydro
South Mountain Resource Centre	2012	16043		1241		
	2013	17982	10.78	1724	28.01	19
10543 Main Street	2014	24918	27.84	1876	8.08	18
South Mountain	2015	30726	18.90	2401	21.87	20
	2016	27546	-11.54	2656	9.60	-1
	2017	21684	-27.03	1048	-153.52	-90
Hallville Fire Substation	2012	5722				
1650 County Road 1	2013	5478	-4.45			-2
Hallville	2014	5002	-9.52			-5
	2015	5366	6.79			3
	2016	7435	27.82			14
	2017	8082	8.01			4
OPP/Library/Old Council Chambers	2012	114711		16646		
	2013	101453	-13.07	18597	10.49	-1
547 St. Lawrence Street	2014	93349	-8.68	16166	-15.03	-12
Winchester	2015	95599	2.35	19852	18.56	10
	2016	94435	-1.23	17626	-12.63	-7
	2017	94799	0.38	17393	-1.34	0
Chesterville Arena	2012	226176		19015		
153 Queen Street	2013	270273	16.32	20862	8.85	13
Chesterville	2014	278273	2.87	22661	7.94	5
	2015	298560	6.79	19185	-18.12	-6
	2016	292529	-2.06	17206	-11.50	-7
Joel Steele Community Centre	2012	663050		9856		
577 Main Street	2013	661042	-0.30	16851	41.51	21
Winchester	2014	642903	-2.82	9301	-81.17	-42
	2015	616239	-4.33	19147	51.42	24
	2016	526922	-16.95	36328	47.29	15
	2017	517700	-1.78	16940	-114.45	-58

Operation Name	Year	Hydro (kWh)	% Change Annually	Gas (m ³)	% Change Annually	% Change Gas & Hydro
Old MTO Garage	2012	33561		9885		
12269 County Road 43	2013	34390	2.41	10418	5.12	4
Winchester	2014	32395	-6.16	4003	-160.27	-83
	2015	39165	17.29	12293	67.44	42
	2016	24172	-62.03	10612	-15.84	-39
	2017	21891	-10.42	11110	4.48	-3
North Dundas Works Garage	2012	24484		10679		
12715 County Road 43	2013	29410	16.75	14610	26.91	22
Chesterville	2014	28550	-3.01	6352	-130.02	-67
	2015	31308	8.81	12537	49.34	29
	2016	25687	-21.88	18605	32.61	5
	2017	27849	7.76	19492	4.55	6
Chesterville Arena	2012	11977		8698		
Maintenance Shed	2013	9170	-30.61	10488	17.06	-7
161 Queen Street	2014	6230	-47.19	21435	51.07	2
Chesterville	2015	8368	25.55	9213	-132.65	-54
	2016	9008	7.11	8656	-6.44	0
	2017	10673	15.59	6849	-26.38	-5
Winchester Well #6	2012	43696				
11610 Spruit Road	2013	38303	-14.08			-7
Winchester	2014					
	2015	47581				
	2016	51162	7.00			3
	2017	27552	-85.69			-43
Gypsy Lane Pump/Reservoir	2012	100150		4223		
424 Gypsy Lane	2013	84332	-18.76	3431	-23.10	-21
Winchester	2014	89700	5.98	3534	2.91	4
	2015	86556	-3.63	2488	-42.02	-23
	2016	65954	-31.24	3989	37.62	3
	2017	104165	36.68	3687	-8.20	14

Operation Name	Year	Hydro (kWh)	% Change Annually	Gas (m3)	% Change Annually	% Change Gas & Hydro
Well # 7	2012	75618				
13224 Thompson Road	2013	80910	6.54			3
Chesterville	2014	56887	-42.23			-21
	2015	61303	7.20			4
	2016	70267	12.76			6
	2017	70749	0.68			
Winchester Well #5	2012	27808		1425		
2137 County Road 31	2013	15659	-77.58	1719	17.14	-30
Winchester	2014					
	2015	17012		1157		
	2016	1928	-782.39	432	-167.65	-475
	2017	3729	48.29	452	4.28	26
Chesterville Lagoon	2012					
70 Emma Street	2013					
Chesterville	2014			730		
	2015	17910				
	2016	16265	-10.11			-5
	2017	15867	-2.51			-1
Winchester Lagoon	2015	88080				
12396 County Road 3	2016	51344	-71.55			-36
Winchester	2017	69180	25.78			13

Appendix B – Historical Annual Flow Reported

Operation Name	Year	Flow	% Change
Winchester Well #6	2012	107	
11610 Spruit Road	2013	55	-94.33
Winchester	2014		
	2015		
	2016	92	
	2017	41	-122.91
Gypsy Lane Pump/Reservoir	2012	52	
424 Gypsy Lane	2013	250	79.22
Winchester	2014		
	2015		
	2016	169	
	2017	330	48.99
Well # 7	2012	338	
13224 Thompson Road	2013	289	-17.03
Chesterville	2014		
	2015		
	2016	304	
	2017	314	2.98
Winchester Well #5	2012	66	
2137 County Road 31	2013	23	-181.86
Winchester	2014		
	2015		
	2016	47	
	2017	44	-6.37
Chesterville Lagoon	2012	196	
70 Emma Street	2013	339	42.17
Chesterville	2014		
	2015	180	
	2016	293	38.70
	2017	474	38.17
Winchester Lagoon	2015	1	
12396 County Road 3	2016	520	99.81
Winchester	2017	756	31.17

Appendix C – Reported Energy Data for 2017

Energy Consumption and Greenhouse Gas Emissions Reporting - for 2017	
Operation Name	Ambulance Building
Operation Type	Ambulance stations and associated offices and facilities
Address	656 St. Lawrence Street, Winchester
Square Footage	875
Average hours/week	40
Annual Flow (ML)	N/A
Electricity Quantity in kWh	9890.2301
Natural Gas in m3	5,028.15
Operation Name	Chesterville Arena Maintenance Shed
Operation Type	Facilities where equipment/vehicles are maintained, repaired or stored
Address	161 Queen Street, Chesterville
Square Footage	300
Average hours/week	20
Annual Flow (ML)	N/A
Electricity Quantity in kWh	10672.5600
Natural Gas in m3	6,849.28
Operation Name	Chesterville Arena
Operation Type	Indoor ice rinks
Address	153 Queen Street, Chesterville
Square Footage	23,410
Average hours/week	40
Annual Flow (ML)	N/A
Electricity Quantity in kWh	301251.4476
Natural Gas in m3	17,030.87
Operation Name	Chesterville Community Hall
Operation Type	Community centres
Address	1 Mill Street, Chesterville
Square Footage	7,520
Average hours/week	40
Annual Flow (ML)	N/A
Electricity Quantity in kWh	55192.4083
Natural Gas in m3	2,861.43

Energy Consumption and Greenhouse Gas Emissions Reporting - for 2017

Operation Name	Chesterville Fire Station
Operation Type	Fire stations and associated offices and facilities
Address	1 Industrial Drive, Chesterville
Square Footage	7,800
Average hours/week	15
Annual Flow (ML)	N/A
Electricity Quantity in kWh	15085.3301
Natural Gas in m3	N/A
Operation Name	Chesterville Heritage Hall
Operation Type	Cultural facilities
Address	14 Victoria Street, Chesterville
Square Footage	1,797
Average hours/week	5
Annual Flow (ML)	N/A
Electricity Quantity in kWh	1641.0572
Natural Gas in m3	3,980.50
Operation Name	Chesterville Lagoon
Operation Type	Facilities related to the treatment of sewage
70	70 Emma Street
Square Footage	N/A
Average hours/week	168
Annual Flow (ML)	474.2360
Electricity Quantity in kWh	15867.4286
Natural Gas in m3	N/A
Operation Name	Chesterville Pool (seasonal)
Operation Type	Community centres
Address	1 William Street, Chesterville
Square Footage	2,250
Average hours/week	15
Annual Flow (ML)	N/A
Electricity Quantity in kWh	16670.4088
Natural Gas in m3	6,650.47

Energy Consumption and Greenhouse Gas Emissions Reporting - for 2017

Operation Name	Gypsy Lane Pump/Reservoir
Operation Type	Facilities related to the treatment of water
Address	424 Gypsy Lane, Winchester
Square Footage	N/A
Average hours/week	168
Annual Flow (ML)	330.3960
Electricity Quantity in kWh	104164.9032
Natural Gas in m3	3,686.65
Operation Name	Hallville Fire Substation
Operation Type	Fire stations and associated offices and facilities
Address	1650 County Road 1, Hallville
Square Footage	2,700
Average hours/week	10
Annual Flow (ML)	N/A
Electricity Quantity in kWh	8081.9039
Natural Gas in m3	N/A
Operation Name	Chesterville Park Pavilion Building
Operation Type	Cultural facilities
Address	5 William Street, Chesterville
Square Footage	1,440
Average hours/week	15
Annual Flow (ML)	N/A
Electricity Quantity in kWh	6164.8380
Natural Gas in m3	1,859.86
Operation Name	Inkerman Recreation Centre
Operation Type	Community centres
Address	11450 Cameron Road, Inkerman
Square Footage	1,076
Average hours/week	10
Annual Flow (ML)	N/A
Electricity Quantity in kWh	2500.1891
Natural Gas in m3	N/A

Energy Consumption and Greenhouse Gas Emissions Reporting - for 2017

Operation Name	Joel Steele Community Centre
Operation Type	Indoor recreational facilities
Address	577 Main Street, Winchester
Square Footage	23,481
Average hours/week	80
Annual Flow (ML)	N/A
Electricity Quantity in kWh	517699.5929
Natural Gas in m3	16,940.20
Operation Name	Morewood Community Centre
Operation Type	Community centres
Address	17 Russell Street, Morewood
Square Footage	5,100
Average hours/week	10
Annual Flow (ML)	N/A
Electricity Quantity in kWh	14965.8192
Natural Gas in m3	N/A
Operation Name	Morewood Fire Station
Operation Type	Fire stations and associated offices and facilities
Address	21 Russell Street, Morewood
Square Footage	2,221
Average hours/week	15
Annual Flow (ML)	N/A
Electricity Quantity in kWh	15079.7071
Natural Gas in m3	6,156.88
Operation Name	Morewood Community Centre
Operation Type	Facilities where equipment/vehicles are maintained, repaired or stored
Address	17 Russell Street, Morewood
Square Footage	1,732
Average hours/week	10
Annual Flow (ML)	N/A
Electricity Quantity in kWh	15537.9241
Natural Gas in m3	7,600.11

Energy Consumption and Greenhouse Gas Emissions Reporting - for 2017

Operation Name	Municipal Office Building
Operation Type	Administrative offices & related facilities, including municipal council chambers
Address	636 St. Lawrence Street, Winchester
Square Footage	3,136
Average hours/week	40
Annual Flow (ML)	N/A
Electricity Quantity in kWh	681192.3889
Natural Gas in m3	6,692.12
Operation Name	Nelson LaPrade Centre
Operation Type	Community centres
Address	9 William Street, Chesterville
Square Footage	2,100
Average hours/week	48
Annual Flow (ML)	N/A
Electricity Quantity in kWh	31582.5144
Natural Gas in m3	1,268.30
Operation Name	North Dundas Works Garage
Operation Type	Facilities where equipment/vehicles are maintained, repaired or stored
Address	12715 County Road 43, Winchester
Square Footage	8,932
Average hours/week	40
Annual Flow (ML)	N/A
Electricity Quantity in kWh	27848.9411
Natural Gas in m3	19,491.81
Operation Name	Old MTO Garage
Operation Type	Facilities where equipment/vehicles are maintained, repaired or stored
Address	12269 County Road 43, Winchester
Square Footage	3,532
Average hours/week	40
Annual Flow (ML)	N/A
Electricity Quantity in kWh	21890.6098
Natural Gas in m3	11109.81

Energy Consumption and Greenhouse Gas Emissions Reporting - for 2017

Operation Name	Old Town Hall
Operation Type	Performing arts facilities
Address	478 Main Street, Winchester
Square Footage	1,498
Average hours/week	8
Annual Flow (ML)	N/A
Electricity Quantity in kWh	421.4376
Natural Gas in m3	1,541.47
Operation Name	South Mountain Fire Station
Operation Type	Fire stations and associated offices and facilities
Address	2947 Lough Road, South Mountain
Square Footage	4,640
Average hours/week	15
Annual Flow (ML)	N/A
Electricity Quantity in kWh	14283.2741
Natural Gas in m3	5,221.39
Operation Name	South Mountain Resource Centre
Operation Type	Public libraries
Address	10543 Main Street, South Mountain
Square Footage	1,200
Average hours/week	16
Annual Flow (ML)	N/A
Electricity Quantity in kWh	21684.2168
Natural Gas in m3	1,047.50
Operation Name	Well # 7
Operation Type	Facilities related to the treatment of water
Address	13224 Thompson Road, Chesterville
Square Footage	N/A
Average hours/week	168
Annual Flow (ML)	313.5950
Electricity Quantity in kWh	70748.9921
Natural Gas in m3	N/A

Energy Consumption and Greenhouse Gas Emissions Reporting - for 2017

Operation Name	Old Town Hall
Operation Type	Performing arts facilities
Address	478 Main Street, Winchester
Square Footage	3,791
Average hours/week	25
Annual Flow (ML)	N/A
Electricity Quantity in kWh	19564.1176
Natural Gas in m3	4,950.22
Operation Name	Winchester Fire Station/OPP/Library/Clinic
Operation Type	Fire stations and associated offices and facilities
Address	547 St. Lawrence Street, Winchester
Square Footage	14,274
Average hours/week	168
Annual Flow (ML)	N/A
Electricity Quantity in kWh	94799.0657
Natural Gas in m3	17,393.31
Operation Name	Winchester Lagoon
Operation Type	Facilities related to the treatment of sewage
Address	12396 County Road #3, Winchester
Square Footage	N/A
Average hours/week	168
Annual Flow (ML)	755.88800
Electricity Quantity in kWh	69180.1914
Natural Gas in m3	N/A
Operation Name	Winchester Pool (seasonal)
Operation Type	Community centres
Address	575 Main Street, Winchester
Square Footage	4,946
Average hours/week	20
Annual Flow (ML)	N/A
Electricity Quantity in kWh	13119.1038
Natural Gas in m3	6,374.32

Energy Consumption and Greenhouse Gas Emissions Reporting - for 2017

Operation Name	Winchester Well #5
Operation Type	Facilities related to the treatment of water
Address	2137 County Road 31, Winchester
Square Footage	N/A
Average hours/week	168
Annual Flow (ML)	44.2580
Electricity Quantity in kWh	3728.5916
Natural Gas in m3	451.74
Operation Name	Winchester Well #6
Operation Type	Facilities related to the treatment of water
Address	11610 Spruit Road, Winchester
Square Footage	N/A
Average hours/week	168
Annual Flow (ML)	41.4780
Electricity Quantity in kWh	27551.6220
Natural Gas in m3	N/A