

Energy Consumption and GHG Emissions

From: 2019-01-01 To: 2019-12-31

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Natural Gas

Facility Primary Type: Office

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Northumberland County Headquarters	555 Courthouse Road	4,042	6.43	1,684.870	\$934.34	17,897.18	3,183.80	0.79	4.43
Courthouse and POA Office	860 William Street	4,370	6.41	52,067.830	\$18,246.95	553,367.09	98,440.69	22.53	126.63
Cobourg Food4All and EMS Station	600 William Street	1,182	11.97	28,705.990	\$9,899.14	305,077.34	54,271.43	45.91	258.10
Material Recovery Facility	280 Edwardson Road	486	6	21,510.080	\$7,187.12	228,602.82	40,667.07	83.68	470.38
Port Hope EMS Station	423 Croft Street	229	24	3,554.590	\$1,478.11	37,773.30	6,719.64	29.34	164.95

Facility Primary Type: Emergency Medical Services

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Cobourg Food4All and EMS Station	600 William Street	1,517	11.97	36,847.77	\$12,706.79	391,605.33	69,664.24	45.92	258.14
Port Hope EMS Station	423 Croft Street	253	24	3,927.19	\$1,633.05	41,732.91	7,424.03	29.34	164.95
Colborne Fire/Paramedics Base	232 Purdy Road	1,133	24	21,809.910	\$8,582.32	231,781.19	41,232.48	36.39	204.57

Facility Primary Type: Long-Term Care

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Golden Plough Lodge	983 Burnham Street	9,247	24	335,592.630	\$108,881.77	3,566,607.57	634,478.09	68.61	385.70

Facility Primary Type: Public Works

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Veronica Roads Yard Quonset Garage	60 Elgin Street	371	5.7	5,226.720	\$2,270.97	55,540.76	9,880.37	26.63	149.71
Material Recovery Facility	280 Edwardson Road	2,296	6	101,615.75	\$33,952.67	1,079,942.22	192,115.24	83.67	470.36
Veronica Roads Yard Waste Garage	60 Elgin Street	298	298	4,458.410	\$2,251.75	47,378.63	8,428.37	28.28	158.99

Facility Primary Type: Storage Facility

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
OAFVC	216 Purdy Road	6,400	6.43	37,426.610	\$14,694.31	397,765.81	70,760.15	11.06	62.15

Facility Primary Type: Depot

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Veronica Roads Yard Depot	60 Elgin Street	1,121	6.41	18,294.490	\$7,132.92	194,424.55	34,586.96	30.85	173.44

Electricity

Facility Primary Type: Office

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (kWh)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Northumberland County Headquarters	555 Courthouse Road	4,042	6.43	579,360	\$94,776.16	579,360.00	17,654.84	4.37	143.33
Courthouse and POA Office	860 William Street	4,370	6.41	506,160	\$82,498.82	506,160.00	15,424.21	3.53	115.83
Cobourg Food4All and EMS Station	600 William Street	1,182	11.97	170,886.10	\$27,721.64	170,886.10	5,207.41	4.41	144.57
Material Recovery Facility	280 Edwardson Road	486	6	111,151.13	\$134,986.35	111,151.13	3,387.11	6.97	228.71
Morganston Roads Depot	4218 County Road 25	140	8	14,894.49	\$2,264.48	14,894.49	453.88	3.24	106.39
Bewdley Transfer Station	7650 Oak Ridges Drive	24	6.57	18,175.01	\$3,025.47	18,175.01	553.85	23.08	757.29
Brighton Landfill	1112 County Road 26	34	6.57	30,639.70	\$4,804.82	30,639.70	933.68	27.46	901.17
Seymour Transfer Station	344 5th Line West	35	6.57	17,648.86	\$2,980.78	17,648.86	537.81	15.37	504.25
Port Hope EMS Station	423 Croft Street	229	24	22,994.84	\$3,050.93	22,994.84	700.72	3.06	100.41

Facility Primary Type: Emergency Medical Services

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (kWh)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Cobourg Food4All and EMS Station	600 William Street	1,517	11.97	219,353.90	\$35,584.23	219,353.90	6,684.37	4.41	144.60
Roseneath Roads Yard and EMS Station	10127 Highway 45	57	23.93	2,942.39	\$504.73	2,942.39	89.66	1.57	51.62
Port Hope EMS Station	423 Croft Street	253	24	25,405.16	\$3,050.93	25,405.16	774.17	3.06	100.42
Colborne Fire/Paramedics Base	232 Purdy Road	1,133	24	79,920	\$16,887.01	79,920.00	2,435.40	2.15	70.54

Facility Primary Type: Long-Term Care

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (kWh)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Golden Plough Lodge	983 Burnham Street	9,247	24	1,035,445.42	\$118,477.96	1,035,445.42	31,553.13	3.41	111.98

Facility Primary Type: Public Works

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (kWh)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Veronica Roads Yard Quonset Garage	60 Elgin Street	371	5.7	33,133.21	\$4,271.98	33,133.21	1,009.67	2.72	89.31
Material Recovery Facility	280 Edwardson Road	2,296	6	525,088.87	\$134,986.35	525,088.87	16,001.03	6.97	228.70
Morganston Roads Yard Depot	4218 County Road 25	501	8	52,831.74	\$8,032.27	52,831.74	1,609.94	3.21	105.45
Roseneath Roads Yard and EMS Station	10127 Highway 45	247	23.93	12,750.37	\$2,187.14	12,750.37	388.54	1.57	51.62
Plainville Sand Dome	8636 Donaldson Road	729	24	8,328.94	\$1,546.91	8,328.94	253.81	0.35	11.43
Veronica Roads Yard Waste Garage	60 Elgin Street	298	298	10,840.32	\$1,650.17	10,840.32	330.34	1.11	36.38
Veronica Roads Yard New Depot	60 Elgin Street	557	6.43	919.63	\$432.26	919.63	28.02	0.05	1.65

Facility Primary Type: Storage Facility

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (kWh)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
OAFVC	216 Purdy Road	6,400	6.43	344,359.45	\$77,160.80	344,359.45	10,493.67	1.64	53.81

Facility Primary Type: Depot

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (kWh)	Cost	Energy (ekWh/yr)	GHG Emissions (kg CO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Veronica Roads Yard Depot	60 Elgin Street	1,121	6.41	55,664.79	\$6,818.23	55,664.79	1,696.27	1.51	49.66

Totals

Totals by Energy Type

Energy Type	Cost	Energy (ekWh/yr)	GHG Emissions (CO2e/yr)
Natural Gas	\$ 229,852.21	7,149,497	1,271,852.57
Electricity	\$ 767,700.41	3,878,894	118,201.55

Grand Totals by Facility Type (Natural Gas & Electricity Combined)

Facility Type	Total Cost	Total Energy (ekWh/yr)	Total GHG Emissions (kg CO2e/yr)
Office	\$ 393,855.10	2,614,628	248,136.14
Emergency Medical Services	\$ 78,949.05	992,741	128,304.36
Long-Term Care	\$ 227,359.73	4,602,053	666,031.22
Public Works	\$ 191,582.47	1,826,755	230,045.34
Storage Facility	\$ 91,855.11	742,125	81,253.82
Depot	\$ 13,951.15	250,089	36,283.23

Grand Totals All Facilities (Natural Gas & Electricity Combined)

Total Cost	Total Energy (ekWh/yr)	Total GHG Emissions (kg CO2e/yr)
\$997,552.61	11,028,391	1,390,054.11