

Energy Consumption and GHG Emissions

From: 2020-01-01 To: 2020-12-31

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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	3,286.930	\$1,585.71	34,933.49	6,214.46	1.54	8.64
Courthouse and POA Office	860 William Street	4,370	6.41	52,224.410	\$20,255.42	555,041.03	98,738.47	22.59	127.01
Cobourg Food4All and EMS Station	600 William Street	1,182	11.97	24,897.030	\$9,309.55	264,605.63	47,071.75	39.82	223.86
Material Recovery Facility	280 Edwardson Road	486	6	20,489.290	\$7,444.71	217,760.17	38,738.23	79.71	448.07
Port Hope EMS Station	423 Croft Street	229	24	2,918.874	\$1,306.67	31,021.79	5,518.59	24.10	135.47

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	31958.49	\$11,949.99	339,654.83	60,422.56	39.83	223.90
Port Hope EMS Station	423 Croft Street	253	24	3,224.836	\$1,443.64	34,273.56	6,097.06	24.10	135.47
Colborne Fire/Paramedics Base	232 Purdy Road	1,133	24	21,314.050	\$8,151.25	226,525.72	40,297.57	35.57	199.93

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	299,102.660	\$105,788.02	3,178,863.07	565,500.67	61.16	343.77

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	5,491.290	\$2,438.10	58,361.43	10,382.15	27.98	157.31
Material Recovery Facility	280 Edwardson Road	2,296	6	96793.93	\$35,169.56	1,028,725.89	183,004.16	79.71	448.05
Veronica Roads Yard Waste Garage	60 Elgin Street	298	298	4,161.250	\$1,945.22	44,225.77	7,867.50	26.40	148.41

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	35,963.410	\$13,964.20	382,219.12	67,994.49	10.62	59.72

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	16,831.160	\$6,719.48	178,881.57	31,821.96	28.39	159.57

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	636,000.000	\$119,388.18	636,000.00	19,380.83	4.79	157.35
Courthouse and POA Office	860 William Street	4,370	6.41	505,145.090	\$97,369.07	505,145.09	15,393.29	3.52	115.59

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	1,182	11.97	168,048.37	\$31,200.81	168,048.37	5,120.94	4.33	142.17
Material Recovery Facility	280 Edwardson Road	486	6	108,217.42	\$29,661.40	108,217.42	3,297.71	6.79	222.67
Morganston Roads Depot	4218 County Road 25	140	8	63,829.330	\$9,823.99	63,829.33	1,945.07	13.89	455.92
Bewdley Transfer Station	7650 Oak Ridges Drive	24	6.57	19,416.840	\$3,202.88	19,416.84	591.69	24.65	809.04
Brighton Landfill	1112 County Road 26	34	6.57	26,650.590	\$5,744.37	26,650.59	812.12	23.89	783.84
Seymour Transfer Station	344 5th Line West	35	6.57	19,416.840	\$3,021.80	19,416.84	591.69	16.91	554.77
Port Hope EMS Station	423 Croft Street	229	24	18,271.62	\$5,868.19	18,271.62	556.79	2.43	79.79

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	215,711.63	\$40,050.23	215,711.63	6,573.38	4.33	142.20
Roseneath Roads Yard and EMS Station	10127 Highway 45	57	23.93	12,814.94	\$2,271.35	12,814.94	390.51	6.85	224.82
Port Hope EMS Station	423 Croft Street	253	24	41,599.00	\$5,868.19	41,599.00	1,267.65	5.01	164.42
Colborne Fire/Paramedics Base	232 Purdy Road	1,133	24	77,580.00	\$14,831.08	77,580.00	2,364.10	2.09	68.47

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	1,090,826.000	\$140,688.18	1,090,826.00	33,240.74	3.59	117.97

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	36,405.660	\$4,838.25	36,405.66	1,109.39	2.99	98.13
Material Recovery Facility	280 Edwardson Road	2,296	6	511,229.85	\$140,122.78	511,229.85	15,578.71	6.79	222.66
Morganston Roads Yard Depot	4218 County Road 25	501	8	6,687.720	\$1,298.17	6,687.72	203.79	0.41	13.35
Roseneath Roads Yard and EMS Station	10127 Highway 45	247	23.93	12,841.94	\$2,271.35	12,841.94	391.33	1.58	51.99
Plainville Sand Dome	8636 Donaldson Road	729	24	4,959.450	\$1,026.66	4,959.45	151.13	0.21	6.80
Veronica Roads Yard Waste Garage	60 Elgin Street	298	298	14,050.860	\$2,082.17	14,050.86	428.17	1.44	47.15
Veronica Roads Yard New Depot	60 Elgin Street	557	6.43	85,711.000	\$368.13	85,711.00	2,611.87	4.69	153.88

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	299,177.500	\$68,737.00	299,177.50	9,116.84	1.42	46.75

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	57,939.540	\$7,740.97	57,939.54	1,765.59	1.58	51.69

Totals

Totals by Energy Type

Energy Type	Cost	Energy (ekWh/yr.)	GHG Emissions (CO2e/yr.)
Natural Gas	\$227,471.52	6,575,093	1,169,669.61
Electricity	\$737,475.20	4,032,531	122,883.32

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

Facility Type	Total Cost	Total Energy (ekWh/yr.)	Total GHG Emissions (kg CO2e/yr.)
Office	\$345,182.75	2,668,358	243,971.63
Emergency Medical Services	\$84,565.73	948,160	117,412.82
Long-Term Care	\$246,476.20	4,269,689	598,741.41
Public Works	\$191,560.39	1,803,200	221,728.21
Storage Facility	\$82,701.20	681,397	77,111.32
Depot	\$14,460.45	236,821	33,587.55

Grand Totals All Facilities (Natural Gas & Electricity Combined)

Total Cost	Total Energy (ekWh/yr.)	Total GHG Emissions (kg CO2e/yr.)
\$964,946.72	10,607,642	1,292,552.93