

**Annual Energy Consumption and Greenhouse Gas
Emissions Summary 2017
City of Kingston Water and Wastewater Facilities**

Utilities Kingston has produced this annual energy consumption and greenhouse gas emissions summary for water and wastewater treatment facilities that it operates which are owned by the City of Kingston in accordance with Ontario Regulation 507/18 made under the Electricity Act, 1998.

This regulation requires provincial public agencies or municipal services boards to file a summary of energy consumption and greenhouse gas emissions for all facilities that are related to the treatment of wastewater or water for which they are responsible for making payments for the energy consumed. Utilities Kingston has also chosen to report the energy consumption and greenhouse gas emissions for any facilities related to the pumping of wastewater or water.

This summary lists all the applicable water and wastewater facilities that Utilities Kingston operates within the municipal boundaries of the City of Kingston, including address, total annual flow volume, and electricity and natural gas consumption. The template uses these values to calculate the approximate greenhouse gas emissions for each facility, and combines all sources of energy to produce the equivalent energy consumption per unit volume pumped (ekWh/Mega Litre). This creates a benchmarking variable that can be used to compare the energy efficiency of our facilities to others, while also serving as a platform from which we can measure the success of our own efficiency measures.

If you have questions, concerns, or input regarding this Energy Consumption and Greenhouse Gas emissions summary and/or the Conservation and Demand Management Plan for the City of Kingston's municipal water and wastewater systems, please contact:

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Table of Energy Consumption and Greenhouse Gas Emissions Summary for 2017

Operation Name	Address	Annual Flow (ML)	Electricity Consumption (kWh)	Natural Gas Consumption (cubic meter)	GHG Emissions (Kg)	Energy Intensity (ekWh/sqft)	Energy Intensity (ekWh/ML)
Barrett Ct.	723 Barret Ct.	734.78	89,600.00	0.00	1,549.90	346.84	121.94
Barriefield PS	268 Main St.	0.00	11,464.00	0.00	198.30	0.00	1,146,400.00
Bath - Collins Bay Rd	4054 Bath Rd.	14.60	1,625.29	0.00	28.11	0.00	111.33
Bath - Lower Drive	4146 Bath Rd.	12.30	1,299.29	0.00	22.48	0.00	105.67
Bath Rd.	1298 Bath Rd.	217.78	48,214.29	197.47	1,207.35	283.29	231.02
Bayridge Dr.	200 Bayridge Dr.	15.41	1,876.51	0.00	32.46	0.00	121.76
Cana WWTP	1756 Cana Blvd.	47.87	56,914.88	0.00	984.51	293.75	1,188.85
Cana WTP	1753 Cana Blvd.	23.55	27,995.12	0.00	484.26	136.89	1,188.85
Cataraqui Bay	409 Front Rd.	10,965.00	3,585,761.61	88,071.25	228,536.39	396.31	412.38
Collins Bay Booster	865 Collins Bay Rd.	0.00	9,177.20	0.00	158.75	0.00	917,719.78
Collins Bay Rd. PS	1205 Collins Bay Rd.	65.48	9,540.00	0.00	165.02	0.00	145.69
Coverdale Dr.	1066 Coverdale Dr.	182.47	17,323.61	0.00	299.66	0.00	94.94
Creeford Tower	2754 Creeford Rd.	0.00	63,901.42	0.00	1,105.37	51.62	6,390,142.19
Crerar Blvd.	46 Crear Blvd.	357.74	70,254.54	22.29	1,257.41	396.90	197.05
Dalton Ave.	266 Dalton Ave.	4,748.27	670,789.20	3,937.30	19,047.28	607.39	150.08
Days Rd.	419 Days Rd.	7,172.85	717,840.00	0.00	12,417.20	430.25	100.08
Forest Dr. Tower	26 Forest Dr.	0.00	4,613.25	0.00	79.80	53.57	461,325.36
Greenview Dr.	38 Greenview Dr.	53.92	46,765.22	149.00	1,090.65	219.11	896.67
Hillview Rd.	740 Hillview Rd.	893.65	173,800.00	0.00	3,006.39	556.78	194.48
Innovation Tower	1000 Innovation Dr.	0.00	48,258.96	0.00	834.78	49.82	4,825,896.09
James St. Booster	229 James St.	2,122.54	434,448.96	0.00	7,515.10	403.62	205.65

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James St. PS	213 James St.	226.76	18,555.45	0.00	320.97	41.04	81.83
John Counter Blvd.	1871 John Counter Blvd.	6.73	12,508.03	0.00	216.36	0.00	1,857.28
Kenwoods Circle	84 Kenwoods Circle	27.00	8,718.79	0.00	150.82	28.93	322.92
King - Collingwood	300 King St.	180.44	6,173.58	2,551.65	4,931.01	118.96	184.50
King - Elevator Bay	1098 King St W.	14.48	22,117.40	0.00	382.59	36.69	1,527.78
King - Lake Ontario Park	920 King St W.	53.55	2,022.60	0.00	34.99	18.79	37.77
King - Portsmouth	621 King St. W.	2,262.82	236,891.74	6,153.38	15,731.50	438.80	133.59
King Street WTP	300 King St.	15,998.35	5,332,381.00	50,544.00	187,799.38	169.77	366.88
King Street PS	74 King St	11,137.16	523,194.00	16,396.26	40,049.41	647.95	62.62
Lakeshore Blvd.	187 Lakeshore Blvd.	492.03	57,851.87	0.00	1,000.72	275.62	117.58
Main St.	289 Main St	135.69	28,883.00	0.00	499.62	76.67	212.86
Morton St.	1 Morton St.	130.42	32,696.53	0.00	565.58	264.14	250.70
Notch Hill Rd.	60 Notch Hill Rd.	0.10	112.00	0.00	1.94	0.00	1,127.21
O'Connor Dr. Reservoir	590 O'Connor Dr.	820.00	765,189.00	6,306.84	25,160.13	188.57	1,014.90
O'Connor Dr. Tower	508 O'Connor Dr.	0.00	6,960.00	0.00	120.39	71.84	696,000.00
Old Colony Booster	901 Old Colony Rd.	0.00	8,102.24	0.00	140.15	0.00	810,224.36
Orchard St. - Emma Martin	7 Orchard St.	106.16	16,817.04	0.00	290.90	47.34	158.42
Palace Rd.	270 Palace Rd	67.59	9,698.57	0.00	167.77	180.21	143.49
Point Pleasant	80 Sunny Acres Rd.	5,514.08	2,448,323.00	45,096.47	127,611.70	65.40	530.93
Progress Ave.	730 Progress Ave.	300.00	181,500.00	0.00	3,139.59	281.03	605.00
Purdys Ct.	896 Purdys Ct.	0.00	14,261.84	0.00	246.70	0.00	1,426,184.16
Rankin Cres.	602 Rankin Cres.	8.07	9,427.54	0.00	163.08	97.32	1,168.50

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Ravensview Fill Stn	947 Hwy 2	0.00	910.94	0.00	15.76	0.00	91,093.61
Ravensview WWTP	947 Highway 2	31,499.00	3,938,272.30	479,420.37	974,529.32	154.73	286.79
River St.	12 River St	19,648.60	4,085,086.05	71,350.00	205,560.05	988.93	246.50
Schooner Dr.	22 Schooner Dr.	46.73	10,949.76	0.00	189.41	0.00	234.32
Third Ave.	119 Third Ave.	92.95	183,452.21	0.00	3,173.36	236.71	1,973.71
Tower St. Tower	5 Tower St.	0.00	7,698.91	0.00	133.18	119.21	769,891.00
Westbrook Rd.	1143 Westbrook Rd.	74.94	13,463.51	0.00	232.89	0.00	179.66
Yonge St	20 Yonge St.	4.20	771.30	0.00	13.34	0.00	183.64