



## **Annual Energy Consumption and Greenhouse Gas Emissions Summary 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 397/11 made under the Green Energy and Green Economy Act.

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, postal code, 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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## Energy Consumption and Greenhouse Gas Emissions Summary for 2016

Jan/2016 - Dec/2016									
Sector	Municipal Service Board								
Agency Sub-sector	Municipal								
Organization Name	Utilities Kingston								
Operation Name	Address	Postal Code	Annual Flow (Mega Litres)	Energy Source and Consumption				Approximate GHG	Approximate Energy Intensity (kWh/Mega Litre)
				Electricity		Natural Gas			
				Quantity	Unit	Quantity	Unit		
Barrett Ct.	723 Barret Ct.	K7L 5H6	668.62	99872	kWh			3550.25	149.3703449
Bath - Collins Bay Rd	4054 Bath Rd.	K7M 4Y4	9.832	1200	kWh			42.6576	122.0504475
Bath - Lower Drive	4146 Bath Rd.	K7M 7K1	7.138	914	kWh			32.49087	128.047072
Bath Rd.	1298 Bath Rd.	K7M 4X3	194.715	37080	kWh	624.261	Cubic Meter	2498.365	224.5050802
Bayridge Dr.	200 Bayridge Dr.	K7M 4T8	12.997	14900	kWh			529.6652	1146.418404
Cana WTP	1753 Cana Blvd.	K7L 4V3	11.634	31121	kWh			1106.289	2675.004298
Cana WWTP	1756 Cana Blvd.	K7L 4V3	31.997	75224	kWh			2674.063	2350.970403
Cataraqui Bay	409 Front Rd.	K7M 5R8	8865.641	3654179	kWh	71471	Cubic Meter	265023.8	497.8497155
Collins Bay Rd. PS	1205 Collins Bay Rd.	K7P 0E4	73.175	8999	kWh			319.8965	122.9791595
Coverdale Dr.	1066 Coverdale Dr.	K7M 8X7	209.224	17025	kWh			605.2047	81.37211792
Crear Blvd.	46 Crear Blvd.	K7M 7C6	470.141	61433	kWh	248.433	Cubic Meter	2653.514	136.2852645
Dalton Ave.	266 Dalton Ave.	K7K 6C3	3972.071	590128	kWh	4606	Cubic Meter	29686.1	160.8932823
Days Rd.	419 Days Rd.	K7M 3R5	7351.13	563220	kWh			20021.34	76.61679225
Greenview Dr.	38 Greenview Dr.	K7M 7T5	95.271	20884	kWh	135	Cubic Meter	997.6191	234.265935
Hillview Rd.	740 Hillview Rd.	K7M 5C7	925.919	152040	kWh			5404.718	164.2044282
James St. Booster	229 James St.	K7K 1Z5	199.182	582776	kWh			20716.52	2925.846713
John Counter Blvd.	1871 John Counter Blvd.	K7M 7P5	5.728	12389	kWh			440.4042	2162.884078
Kenwoods Circle	84 Kenwoods Circle	K7K 6Y2	28.194	8457	kWh			300.6294	299.9574378
King - Collingwood	300 King St.	K7L 2X1	130.4379	16837	kWh			598.5217	129.0805816
King - Elevator Bay	1098 King St W.	K7M 8J2	11.304	17308	kWh			615.2648	1531.13942
King - Lake Ontario Park	920 King St W.	K7M 9G9	48.88	1639	kWh			58.26317	33.53109656
King - Portsmouth	621 King St. W.	K7M 2E7	1553.2	150816	kWh	4881	Cubic Meter	14589.36	130.4984416
King Street PS	62 King St. W.	K7L 0A6	7455.731	330182	kWh	12053	Cubic Meter	34525.04	61.46662161
King Street WTP	300 King St.	K7L 2X1	17285	5762854	kWh	58916	Cubic Meter	316246.1	369.6268504
Lakeshore Blvd.	187 Lakeshore Blvd.	K7M 6Z6	383.57	43679	kWh			1552.701	113.874912
Main St.	289 Main St	K7L 5H6	177.096	34637	kWh			1231.276	195.5831865
Morton St.	1 Morton St.	K7L 2X4	29.834	8245	kWh			293.0933	276.3625394
Notch Hill Rd.	60 Notch Hill Rd.	K7M 2W9	0.012	115	kWh			4.08802	9583.333333
O'Connor Dr. Reservoir	590 O'Connor Dr.	K7P 1N3	3185.698	699564	kWh	6840.917	Cubic Meter	37801.72	242.4171219
Old Colony Rd.	901 Old Colony Rd.	K7P 1S1	7.5	28361	kWh			1008.177	3781.466667
Orchard St. - Emma Martin	7 Orchard St.	K7K 2Z4	73.161	4524	kWh			160.8192	61.83622422
Palace Rd.	270 Palace Rd	K7L 4T2	58.4	9295	kWh			330.4187	159.1609589
Point Pleasant	80 Sunny Acres Rd.	K7M 3N2	5692.62	2952842	kWh	16921.93	Cubic Meter	136960.7	550.3062735
Progress Ave.	730 Progress Ave.	K7M 4W9	417.56	188370	kWh			6696.177	451.120797
Purdys Ct.	896 Purdys Ct.	K7M 3M9	94.6836	80680	kWh			2868.013	852.101103
Rankin Cres.	602 Rankin Cres.	K7M 7L4	9.334	9096	kWh			323.3446	974.5018213
Ravensview WTP	947 Highway 2	K7L 4V1	19835.14	3599360	kWh	270360.9	Cubic Meter	639101.7	326.3246619
River St.	12 River St	K7K 2A1	18713.64	2712618	kWh	59449	Cubic Meter	208824	178.7160977
Schooner Dr.	22 Schooner Dr.	K7K 7J8	458.692	8036	kWh			285.6637	17.5193812
Third Ave.	119 Third Ave.	K7K 4X3	1306.253	192019	kWh			6825.891	146.9998538
Westbrook Rd.	1143 Westbrook Rd.	K7P 2V7	73.167	12424	kWh			441.6484	169.8033266
Yonge St	20 Yonge St.	K7M 1E3	1.847	422	kWh			15.00126	228.478614