

GREEN ENERGY ACT, 2009

ENERGY CONSUMPTION AND
GREENHOUSE GAS EMISSIONS TEMPLATE

CITY OF THUNDER BAY

June 27, 2013

In 2009 the Ministry of Energy and Infrastructure enacted the *Green Energy Act* to help public agencies including municipalities, hospitals, and schools manage and reduce their energy consumption. As part of this Act, Regulation 397/11 requires certain public agencies – municipalities, municipal service boards, school boards, universities, colleges and hospitals – to report on their annual energy consumption and greenhouse gas emissions beginning in 2013. The regulation also requires the development and implementation of conservation and demand management (CDM) plans starting in 2014.

Conservation and the wise use of energy is a key component of the *Green Energy Act*, 2009 and this regulation will help Ontario achieve its Greenhouse Gas emissions reduction targets:

Six per cent below 1990 levels by 2014

15 per cent by 2020 and

80 per cent by 2050.

These targets were set out in *Go Green: Ontario's Action Plan*, which was issued in 2007 and can be found at www.ene.gov.on.ca.

O. Reg 397/11 outlines the operations for which the municipality is required to report on its energy use and greenhouse gas emissions and prepare CDM plans. The list of prescribed operations for which the municipality must report are:

- Administrative offices and related facilities including municipal council chambers
- Public libraries
- Cultural facilities, indoor recreational facilities and community centres, including art galleries, performing arts facilities, auditoriums, indoor sports arenas, indoor ice rinks, indoor swimming pools, gyms and indoor courts for playing tennis, basketballs or other sports
- Ambulance stations and associated offices and facilities
- Fire stations and associated offices and facilities
- Police stations and associated offices and facilities
- Storage facilities where equipment or vehicles are maintained, repaired or stored
- Buildings/facilities or facilities related to the treatment or pumping of water or sewage
- Parking garages

The prescribed operations must also be conducted in a building/facility that the municipality owns or leases, and the municipality must be issued and be responsible for paying the utility invoice.

The City of Thunder Bay facilities and energy consumption portfolio also includes other operations that were not included in the prescribed list of required reporting. Facilities and operations that were not included are:

- Outdoor pools and operations
- Homes for the Aged
- Tourism facilities and signage
- Animal Services facilities
- Commercial facilities
- Seasonal parks
- Waterfront facilities
- Conservatory
- Cemeteries
- Golf facilities and operations
- Daycares
- Stadiums
- Parking lot lighting
- Streetlighting
- Flashing lights and traffic control lighting
- Other outdoor lighting

As a result, the greenhouse gas emission reported through O. Reg 397/11 is not inclusive of all the operations and facilities within the City of Thunder Bay's energy consumption portfolio.

Contact: For more information on the City of Thunder Bay's energy consumption, the Green Energy Act reporting template and energy management initiatives within City operations, please contact Vanessa DeGiacomo-Zwaresch at 684-2510 or email at vdegiacomozwaresch@thunderbay.ca.

Energy Consumption and Greenhouse Gas Emissions Report - for 2011

Confirm consecutive 12-month period (month-year to month-year): Yes

Type of Public Agency (Sector): Municipal

Agency Sub-sector: Municipality

Organization Name: City of Thunder Bay

Operation Name	Operation Type	Address	City	Postal Code	Total Floor Area of the Indoor Space in which Operation is Conducted		Average # Hrs Per Week	Energy Type and Amount Purchased and Consumed in Natural Units				Total (These columns will calculate when file is Saved)		Comments
								Electricity		Natural Gas		GHG Emissions (Kg)	Energy Intensity (ekWh/sqft)	
City Hall	Administrative offices and related facilities, including municipal council chambers	500 Donald St E	Thunder Bay	P7E 5V3	43,500	Square feet	40	736,210.00000	kWh	96,743.08200	Cubic meter	241,801.88289	40.56032	
Human Resources	Administrative offices and related facilities, including municipal council chambers	141 May St S	Thunder Bay	P7E 1A9	9,400	Square feet	40	264,762.00000	kWh			21,180.96000	28.16617	

Archives	Administrative offices and related facilities, including municipal council chambers	235 Vickers St N	Thunder Bay	P7C 6A4	22,000	Square feet	40	137,949.90000	kWh	31,472.24200	Cubic meter	70,538.26248	21.47408
Victoriaville Civic Centre	Administrative offices and related facilities, including municipal council chambers	111 Syndicate Ave S	Thunder Bay	P7E 6S4	39,000	Square feet	40	748,302.90000	kWh	4,770.83100	Cubic meter	68,884.09390	20.48734
101 S Syndicate (POA)	Administrative offices and related facilities, including municipal council chambers	101 S Syndicate Ave	Thunder Bay	P7E 1C5	4,200	Square feet	40	49,321.13000	kWh	11,035.87300	Cubic meter	24,810.40986	39.66855
125 S Syndicate Ave (CIT)	Administrative offices and related facilities, including municipal council chambers	125 Syndicate Ave S	Thunder Bay	P7E 6H8	9,709	Square feet	40	114,908.50000	kWh			9,192.68000	11.83526

Waterfront / Pool 6	Administrative offices and related facilities, including municipal council chambers	53 Water Street S	Thunder Bay	P7B 6E8	8,525	Square feet	40	120,240.40000	kWh	21,895.47900	Cubic meter	51,015.41578	41.40066	
Mountdale Administration Building	Administrative offices and related facilities, including municipal council chambers	410 Mountdale Ave	Thunder Bay	P7E 6G8	10,760	Square feet	40	12,755.57000	kWh	18,978.50700	Cubic meter	36,901.72335	19.93075	
Front St Administration Building	Administrative offices and related facilities, including municipal council chambers	155 Front St	Thunder Bay	P7A 2P3	13,334	Square feet	40	122,379.85000	kWh	47,526.33900	Cubic meter	99,644.96772	47.05859	
Parks North	Administrative offices and related facilities, including municipal council chambers	645 Cumberland St N	Thunder Bay	P7A 4S2	1,387	Square feet	40	6,039.93000	kWh	2,064.47900	Cubic meter	4,386.35414	20.17358	

Traffic Control and Street lighting	Administrative offices and related facilities, including municipal council chambers	625 Cumberland St N	Thunder Bay	P7A 4S2	4,727	Square feet	40	21,872.90000	kWh	6,804.95500	Cubic meter	14,615.46366	19.92690	
Transit Administration	Administrative offices and related facilities, including municipal council chambers	570 Fort William Rd	Thunder Bay	P7B 2Z8	12,681	Square feet	140	107,911.19000	kWh	20,596.37200	Cubic meter	47,572.95221	25.77122	
Mapleward Solid Waste & Recycling Admin Building/Kiosk	Administrative offices and related facilities, including municipal council chambers	5405 Mapleward Rd	Thunder Bay	P7G 1R8	5,140	Square feet	61	89,471.23800	kWh	43,316.45000	Cubic meter	89,052.94895	106.97059	main feed also out to power 3 transfer units
Brodie St Library	Public libraries	216 Brodie St S	Thunder Bay	P7E 1C2	23,232	Square feet	62	304,634.29000	kWh	37,865.36600	Cubic meter	95,960.02652	30.43470	hours of operations
Waverly St Library	Public libraries	285 Red River Rd	Thunder Bay	P7B 1A9	23,300	Square feet	58	445,841.18000	kWh	54,064.72100	Cubic meter	137,883.51567	43.79524	hours of operations
Mary J L Black Library (new)	Public libraries	901 Edward St S	Thunder Bay	P7E 6R2	9,440	Square feet	41	40,696.11000	kWh	20,377.95300	Cubic meter	41,782.79695	27.25301	hours of operations
Mary J L Black Library (old)	Public libraries	151 Brock St W	Thunder Bay	P7E 4H9	9,224	Square feet	41	80,774.12000	kWh	9,469.29600	Cubic meter	24,364.83629	19.66736	hours of operations
County Park #16	Public libraries	1020 Dawson Rd	Thunder Bay	P7B 1K6	4,000	Square feet	40	8,906.64000	kWh			712.53120	2.22666	hours of operations

County Park #17	Public libraries	1020 Dawson Rd	Thunder Bay	P7B 1K6	4,000	Square feet	40	29,243.00000	kWh			2,339.44000	7.31075	hours of operations
Current River Community Centre	Community centres	450 Dewe Ave	Thunder Bay	P7A 2G7	8,000	Square feet	33	130,916.13000	kWh	15,571.74700	Cubic meter	39,913.65572	37.05115	office hours 9am-3pm M-F one time rentals not included in hours of operations
Jackpine Community Centre	Community centres	260 Jackpine Rd	Thunder Bay	P7G 1P6	4,400	Square feet	2	11,124.60000	kWh	8,215.06000	Cubic meter	16,421.58224	22.37101	no office hours - one time rentals not included in hours of operations
John Jumbo Community Centre	Community centres	330 Toivo St	Thunder Bay	P7B 6K8	2,878	Square feet	5	10,114.97000	kWh	2,689.34200	Cubic meter	5,893.74020	13.44569	no office hours - one time rentals not included in hours of operations
North End Community Centre	Community centres	954 Huron Ave	Thunder Bay	P7A 6L4	4,916	Square feet	3	56,431.95000	kWh	13,103.18600	Cubic meter	29,287.79324	39.80669	no office hours - one time rentals not included in hours of operations
North McIntyre	Community centres	2051 Government Rd	Thunder Bay	P7G 2E9	10,200	Square feet	13	68,884.29000	kWh	15,674.10700	Cubic meter	35,144.63310	23.08482	office hours 8am - 11am T-Th one time rentals not included in hours of operations
North Neebing Community Centre	Community centres	2145 Rossllyn Rd	Thunder Bay	P7K 1H6	3,490	Square feet	3	25,164.16000	kWh	5,000.74200	Cubic meter	11,467.67065	22.43866	no office hours - one time rentals not included in hours of operations
Oliver Road Community Centre	Community centres	563 Oliver Rd	Thunder Bay	P7B 2H2	9,644	Square feet	24	77,412.11000	kWh	10,293.42900	Cubic meter	25,654.00359	19.37042	office hours 9am - 1pm one time rentals not include
South Neebing Community Centre	Community centres	1841 Mountain Rd	Thunder Bay	P7J 1A8	6,960	Square feet	6	27,609.85000	kWh	6,636.37400	Cubic meter	14,755.69587	14.10054	no office hours - one time rentals not included in hours of operations

Vale Community Centre	Community centres	420 Vale Ave	Thunder Bay	P7C 5E7	6,528	Square feet	40	35,829.75000	kWh	9,267.63000	Cubic meter	20,388.01150	20.57660	M-F 8:30-4:30 one time rentals not included
Vickers Heights Community Centre	Community centres	1695 Broadway Ave	Thunder Bay	P7K 1M6	3,760	Square feet	4	31,529.12000	kWh	7,226.53800	Cubic meter	16,185.01746	28.81148	no office hours - one time rentals not included in hours of operations
Volunteer Pool Community Centre	Community centres	180 Martha St	Thunder Bay	P7A 8C1	6,624	Square feet	5	33,994.63000	kWh	10,432.85700	Cubic meter	22,444.21153	21.87088	no office hours - one time rentals not included in hours of operations
West Arthur Community Centre	Community centres	1914 Arthur St W	Thunder Bay	P7K 1C7	8,184	Square feet	15	70,105.46000	kWh	8,118.24200	Cubic meter	20,957.00432	19.10854	office hours 10am - 2pm T-W, Thurs 3pm - 7pm one time rentals not included
West Thunder Community Centre	Community centres	915 Edward St S	Thunder Bay	P7E 6R2	14,456	Square feet	36	221,825.00000	kWh	25,067.40000	Cubic meter	65,139.10326	33.77392	office hours 9am-3pm M-Thurs one time rentals not included
Thunder Bay Community Auditorium	Auditoriums	1 Paul Shaffer Dr	Thunder Bay	P7B 6C7	60,000	Square feet	88	675,240.56000	kWh	75,778.30900	Cubic meter	197,287.76181	24.67659	hours vary depending on events held - 140 events per year - hours depend on type of show - could range anywhere from 9:30 am to 1am or 24 hours a day - box office open 9:30am - 5:30pm Tues - Sat

Current River Arena	Indoor ice rinks	425 Grenville Ave	Thunder Bay	P7A 2B9	26,310	Square feet	126	523,664.52000	kWh	53,944.62500	Cubic meter	143,882.32613	41.69426	April - Oct - ice plant runs continuous to maintain ice quality even if not 75% occupied
Delaney Arena	Indoor ice rinks	300 Legion Track Dr/200 Hyde Park Ave	Thunder Bay	P7E 1Y2	35,100	Square feet	126	827,400.00000	kWh	110,876.84300	Cubic meter	275,818.75305	57.14457	April - Oct - ice plant runs continuous to maintain ice quality even if not 75% occupied
Fort William Gardens	Indoor ice rinks	901 Miles St E	Thunder Bay	P7C 1J9	66,814	Square feet	126	1,402,040.69000	kWh	229,946.06900	Cubic meter	546,905.50180	57.56063	April - Oct - ice plant runs continuous to maintain ice quality even if not 75% occupied
Grandview Arena	Indoor ice rinks	300 Madeline St	Thunder Bay	P7A 5Y9	23,310	Square feet	126	311,356.85000	kWh	60,864.34800	Cubic meter	139,980.32767	41.10723	April - Oct - ice plant runs continuous to maintain ice quality even if not 75% occupied
Neebing Arena	Indoor ice rinks	1715 Bowlker Rd	Thunder Bay	P7K 1L4	25,000	Square feet	126	306,082.95000	kWh	59,167.33200	Cubic meter	136,349.99140	37.39601	April - Oct - ice plant runs continuous to maintain ice quality even if not 75% occupied
Port Arthur Arena	Indoor ice rinks	420 Lisgar St	Thunder Bay	P7B 6T4	30,087	Square feet	126	617,633.51000	kWh	72,780.85600	Cubic meter	187,012.13224	46.23699	Summer ice plus main ops Sept - April - ice plant run continuous to maintain ice even if not 75% occupied

Canada Games Complex	Indoor swimming pools	420 Winnipeg Ave	Thunder Bay	P7B 6B7	113,022	Square feet	92	2,061,125.82000	kWh	536,036.81000	Cubic meter	1,178,335.73158	68.64155	based on hours of operations
Churchill Pool	Indoor swimming pools	130 Churchill Dr W	Thunder Bay	P7C 1V5	11,015	Square feet	92	86,529.60000	kWh	142,939.17000	Cubic meter	277,167.02216	145.76988	based on hours of operations
Volunteer Pool	Indoor swimming pools	180 Martha St	Thunder Bay	P7A 8C1	21,000	Square feet	85	305,951.64000	kWh	93,895.71600	Cubic meter	201,997.90705	62.08830	based on hours of operations
EMS HQ	Ambulance stations and associated offices and facilities	401 Donald St	Thunder Bay	P7E 5V1	9,100	Square feet	168	72,609.32000	kWh	11,265.48000	Cubic meter	27,107.56626	21.13586	
Arthur St EMS	Ambulance stations and associated offices and facilities	1543 Arthur St	Thunder Bay	P7E 5N5	2,500	Square feet	168	31,347.15000	kWh	10,463.07400	Cubic meter	22,289.54221	57.01855	
Beardmore EMS	Ambulance stations and associated offices and facilities	133 Main St	Beardmore	P0T 1G0	2,423	Square feet	84	27,637.13000	kWh			2,210.97040	11.40616	
Beck St EMS	Ambulance stations and associated offices and facilities	181 Beck St	Thunder Bay	P7A 2J7	2,888	Square feet	168	23,677.55000	kWh	6,137.35000	Cubic meter	13,497.64362	30.78391	
Conmee EMS	Ambulance stations and associated offices and facilities	Fire #5750 Hwy 11/17	Conmee	P0T 1W0	3,000	Square feet	84	9,947.81000	kWh			795.82480	3.31594	

Geraldton EMS	Ambulance stations and associated offices and facilities	815 Main St, Box 1350	Geraldton	POT 1M0	3,961	Square feet	140	31,051.07000	kWh	7,625.80000	Cubic meter	16,901.62898	28.30002	
Greenstone EMS (Longlac)	Ambulance stations and associated offices and facilities	105 Skinner Ave, PO Box 640	Longlac	POT 2A0	3,280	Square feet	84	15,834.44000	kWh	8,042.89200	Cubic meter	16,472.86397	30.88796	
Manitouwadge EMS	Ambulance stations and associated offices and facilities	1 Paramedic Lane, PO Box 548	Manitouwadge	POT 2C0	5,300	Square feet	84	61,136.09000	kWh			4,890.88720	11.53511	
Marathon EMS	Ambulance stations and associated offices and facilities	26 Peninsula Rd, PO Box 459	Marathon	POT 2E0	3,078	Square feet	84	21,462.42000	kWh			1,716.99360	6.97285	
Nakina EMS	Ambulance stations and associated offices and facilities	204-B Thornton St, Box 429	Nakina	POT 2H0	2,100	Square feet	84	24,380.29000	kWh			1,950.42320	11.60966	
Nipigon EMS	Ambulance stations and associated offices and facilities	125 HOGAN RD, UNIT R	Nipigon	POT 2J0	2,080	Square feet	84			5,642.89300	Cubic meter	10,668.60586	28.83241	
Red Rock EMS	Ambulance stations and associated offices and facilities	4 Taylor St, Box 217	Red Rock	POT 2P0	1,638	Square feet	84	15,358.43000	kWh	3,315.58900	Cubic meter	7,497.21648	30.88875	

Roland St	Ambulance stations and associated offices and facilities	1118 Roland St	Thunder Bay	P7B 5M4	3,500	Square feet	168	72,645.02000	kWh	12,299.60400	Cubic meter	29,065.56501	58.10356	
Shuniah EMS	Ambulance stations and associated offices and facilities	1700A Lakeshore Dr	Shuniah	P7A 0T1	4,750	Square feet	84	27,687.89000	kWh			2,215.03120	5.82903	
Terrace Bay EMS	Ambulance stations and associated offices and facilities	20 Cartier Dr, Box 400	Terrace Bay	P0T 2W0	2,790	Square feet	84	51,931.85000	kWh			4,154.54800	18.61357	
Upsala EMS	Ambulance stations and associated offices and facilities	20 North Rd	Upsala	P0T 2Y0	1,982	Square feet	84	48,212.20000	kWh			3,856.97600	24.32503	
Armstrong EMS	Ambulance stations and associated offices and facilities	65 Queen Street, PO Box 6	Armstrong	P0T 1A0	2,995	Square feet	168	22,777.89000	kWh			1,822.23120	7.60531	
Brown Street Fire Station	Fire stations and associated offices and facilities	1321 Brown St	Thunder Bay	P7E 2M4	3,972	Square feet	168	45,127.70000	kWh	8,848.84400	Cubic meter	20,340.07939	35.03808	
Hodder Avenue Fire Station	Fire stations and associated offices and facilities	300 Hodder Ave	Thunder Bay	P7A 1T3	3,000	Square feet	168	18,674.96000	kWh	8,672.89300	Cubic meter	17,891.20247	36.94951	
James Street Fire Station	Fire stations and associated offices and facilities	501 Churchill Dr W	Thunder Bay	P7C 1W2	4,000	Square feet	168	35,811.69000	kWh	10,281.32000	Cubic meter	22,303.07639	36.26982	

Junot Avenue Fire Station	Fire stations and associated offices and facilities	20 Junot Ave N	Thunder Bay	P7A 7L1	3,600	Square feet	168	50,441.39000	kWh	10,084.26900	Cubic meter	23,100.90245	43.78188	
Mapleward Fire Station	Fire stations and associated offices and facilities	3000 Government Rd	Thunder Bay	P7G 1V5	4,130	Square feet	168	44,646.61000	kWh	5,768.69600	Cubic meter	14,478.18121	25.65497	
Neebing Fire Station	Fire stations and associated offices and facilities	2065 - 20th Side Rd	Thunder Bay	P7K 1H6	2,986	Square feet	168	12,519.63000	kWh	9,231.27300	Cubic meter	18,454.46438	37.04874	
Neebing Fire Station TEMP	Fire stations and associated offices and facilities	2065 - 20th Side Rd	Thunder Bay	P7K 1H6	400	Square feet	168	15,279.15000	kWh			1,222.33200	38.19788	
North Central Fire Station	Fire stations and associated offices and facilities	60 Water St S	Thunder Bay	P7B 6E8	24,711	Square feet	168	350,177.64000	kWh	28,304.40400	Cubic meter	81,527.28162	26.34416	
Vickers Street Fire Station	Fire stations and associated offices and facilities	330 Vickers St N	Thunder Bay	P7C 4B2	13,000	Square feet	168	142,672.29000	kWh	43,553.7000	Cubic meter	93,757.58437	46.58087	
Balmoral Police Station	Police stations and associated offices and facilities	1200 Balmoral St	Thunder Bay	P7B 5Z5	65,500	Square feet	168	1,525,517.73000	kWh	124,331.62000	Cubic meter	357,106.13613	43.46392	
Mounddale - InOps	Storage facilities where equipment or vehicles are maintained, repaired or stored	410 Mounddale Ave	Thunder Bay	P7E 6G8	26,900	Square feet	40	258,608.43000	kWh	128,385.13900	Cubic meter	263,417.08459	60.33669	

Mountdale - Parks/Mechanics	Storage facilities where equipment or vehicles are maintained, repaired or stored	410 Mountdale Ave	Thunder Bay	P7E 6G8	14,400	Square feet	40	179,245.52000	kWh	33,185.44000	Cubic meter	77,080.93047	36.93979	
Front and Egan Garage	Storage facilities where equipment or vehicles are maintained, repaired or stored	155 Front St	Thunder Bay	P7A 2P3	25,676	Square feet	40	237,560.88000	kWh	92,257.01100	Cubic meter	193,428.46634	47.43916	
Transit Garage	Storage facilities where equipment or vehicles are maintained, repaired or stored	570 Fort William Rd	Thunder Bay	P7B 2X8	78,566	Square feet	140	662,883.03000	kWh	126,520.57200	Cubic meter	292,233.85188	25.55196	
TCSL Garage	Storage facilities where equipment or vehicles are maintained, repaired or stored	625 Cumberland St N	Thunder Bay	P7A 4S2	5,825	Square feet	40	26,733.55000	kWh	8,317.16800	Cubic meter	17,863.34638	19.76422	
Parks North	Storage facilities where equipment or vehicles are maintained, repaired or stored	645 Cumberland St N	Thunder Bay	P7A 4S2	17,886	Square feet	40	80,244.76000	kWh	27,428.07700	Cubic meter	58,275.84373	20.78409	

Mapleward Solid Waste and Recycling Garage	Storage facilities where equipment or vehicles are maintained, repaired or stored	5405 Mapleward Rd	Thunder Bay	P7G 1R8	17,510	Square feet	61	304,794.00000	kWh			24,383.52000	17.40685	main feed also out to power 3 transfer units
381 Current River Lift	Facilities related to the pumping of sewage	381 Rita St	Thunder Bay	P7A 2H8	200	Square feet	168	7,391.75000	kWh			591.34000	36.95875	
2389 Sleeping Giant Parkway Pumping Station	Facilities related to the pumping of water	2389 Sleeping Giant Pkwy	Thunder Bay	P7C 5K4	1000	Square feet	168	9,362.48000	kWh			748.99840	9.36248	built in 2011, commissioned in 2012
Loch Lomond WTP	Facilities related to the treatment of water	Mount McKay FWFN	Thunder Bay	P7C 5K4	20000	Square feet	168	9,360.00000	kWh			748.80000	0.46800	decommissioned as WTP
1032 Memorial Ave - Storm Water Lift Stn	Facilities related to the pumping of water	1032 Memorial Ave - Harbourview EXP	Thunder Bay	P7B 4A4	900	Square feet	168	21,894.67000	kWh			1,751.57360	24.32741	stormwater - no flow monitoring
Central Ave Pump - Storm Water Lift Stn	Facilities related to the pumping of water	Crn of Central and Memorial	Thunder Bay	P7B 3Z7	928	Square feet	168	26,143.11000	kWh			2,091.44880	28.17145	stormwater - no flow monitoring
Ontario St Pump	Facilities related to the pumping of water	Ontario St	Thunder Bay	P7C 5K4	900	Square feet	168	26,941.80000	kWh			2,155.34400	29.93533	stormwater - no flow monitoring
529 High Street Pump	Facilities related to the pumping of water	529 High St	Thunder Bay	P7B 3M1	900	Square feet	168	32,862.35000	kWh			2,628.98800	36.51372	stormwater - no flow monitoring

S. Darrell Ave Kam W	Facilities related to the pumping of water	Darrell Ave	Thunder Bay	P7C 5K4	36	Square feet	168	10,625.75000	kWh			850.06000	295.15972	facility houses access to tunnel - no flow rates
S. Darell Ave Kam W UT001	Facilities related to the pumping of water	Darrell Ave	Thunder Bay	P7C 5K4	36	Square feet	168	10,225.52000	kWh			818.04160	284.04222	facility houses access to tunnel - no flow rates
S. Side Kam Darrell Ave	Facilities related to the pumping of water	Darrell Ave	Thunder Bay	P7C 5K4	36	Square feet	168	26,699.45000	kWh			2,135.95600	741.65139	facility houses access to tunnel - no flow rates
Grenville Ave Dam	Facilities related to the pumping of water	Grenville Ave	Thunder Bay	P7C 5K4	1000	Square feet	168	35,796.77000	kWh			2,863.74160	35.79677	
WPCP - Atlantic Ave	Facilities related to the treatment of sewage	901 Atlantic Ave	Thunder Bay	P7E 2T2	117,631	Square feet	168	12,397,968.00000	kWh	866,207.49700	Cubic meter	2,629,512.72143	183.65761	
WTP - Bare Point	Facilities related to the treatment of water	RR#13 Bare Point Rd	Thunder Bay	P7A 8C6	67,339	Square feet	168	6,778,200.00000	kWh	210,314.78800	Cubic meter	939,882.81669	133.85079	
Crn James and Victoria Pumping Station	Facilities related to the pumping of water	135 N James St	Thunder Bay	P7C 4T1	1,220	Square feet	168	249,856.55000	kWh			19,988.52400	204.80045	
McIntyre Reservoir	Facilities related to the pumping of water	1210 Dawson Rd	Thunder Bay	P7G 1H7	800	Square feet	168	207,271.14000	kWh			16,581.69120	259.08893	
868 Chamberlain St Pump	Facilities related to the pumping of water	868 Chamberlain St	Thunder Bay	P7A 3A2	2,340	Square feet	168	613,532.90000	kWh			49,082.63200	262.19355	

Broadway Pumping Station	Facilities related to the pumping of water	1265 Broadway Ave	Thunder Bay	P7K 1L8	1,220	Square feet	168	109,680.00000	kWh	8,466.33500	Cubic meter	24,781.08154	163.65436	
20th Side Rd - Neebing Pumping Station	Facilities related to the pumping of water	511 20th Side Rd	Thunder Bay	P7K 1H6	320	Square feet	168	75,832.55000	kWh			6,066.60400	236.97672	
Hodder Ave PUC	Facilities related to the pumping of water	650 Hodder Ave	Thunder Bay	P7A 1W1	502	Square feet	168	82,863.43000	kWh			6,629.07440	165.06659	
Hodder Ave Stand	Facilities related to the pumping of water	650 Hodder Ave	Thunder Bay	P7C 5K4	1	Square feet	168	38,105.49000	kWh			3,048.43920	38,105.49000	no flow monitoring all flow goes through Hodder PUC
Hazelwood Reservoir	Facilities related to the pumping of water	169 Hazelwood Dr	Thunder Bay	P7G 1Y5	300	Square feet	168	249,605.64000	kWh			19,968.45120	832.01880	
Duke St Reservoir	Facilities related to the pumping of water	84 Duke St	Thunder Bay	P7A 4J5	800	Square feet	168	108,427.99000	kWh			8,674.23920	135.53499	
2070 Rockcliff	Facilities related to the pumping of water	2070 Rockcliff	Thunder Bay	P7C 5K4	2,000	Square feet	168	30,456.64000	kWh	20,248.71500	Cubic meter	40,719.29849	122.82773	
711 William St Pumping Station	Facilities related to the pumping of water	711 William St	Thunder Bay	P7C 3X6	1,100	Square feet	168	264,782.00000	kWh			21,182.56000	240.71091	
Waterfront Parkade	Parking garages	18 Court St N	Thunder Bay	P7C 5K4	3,000	Square feet	40	4,468.81000	kWh	2,474.59500	Cubic meter	5,036.04092	10.25608	

Mapleward Solid Waste and Recycling Bomag Building	Storage facilities where equipment or vehicles are maintained, repaired or stored	5405 Mapleward Rd	Thunder Bay	P7G 1R8	1,750	Square feet	61	16,756.48000	kWh			1,340.51840	9.57513	main feed also out to power 3 transfer units
55+ Centre	Indoor recreation facility	700 River St	Thunder Bay	P7A 3S6	22,500.00	Square feet	76	321,559.76000	kWh	27,937.35000	Cubic meter	78,543.88902	27.48763	based on hours of operation
Whalen Building	Administrative offices and related facilities, including municipal council chambers	34 N. Cumberland	Thunder Bay	P7A 4L3	80,000.00	Square feet	40	1,367,542.38476	kWh	38,138.74534	Cubic meter	181,509.53247	22.16091	