

2021 Corporate Energy and Emissions Inventory

	Electricity Use (kWh)	Electricity Use (GJ)	Electricity Emissions (tCO2e)	Electricity Expenditure (\$)	Natural Gas Use (GJ)	Natural Gas Emissions (tCO2e)	Natural Gas Expenditure (\$)	Fuel Use (L)	Fuel Use (GJ)	Fuel Emissions (tCO2e)	Fuel Expenditure (\$)
Municipal Buildings	2,737,218	9,855	1,600	\$369,320	24,652	1,266	\$181,921	3,738	95	6	\$4,192
Airport	71,844	259	42	\$13,885	-	-	-	3,738	95	6	\$4,192
Amenities	66,908	241	39	\$14,114	-	-	-				
Public Works Building and Shop	31,850	115	19	\$4,726	641	33	\$5,140				
Town Office Complex	241,080	868	141	\$28,482	1,841	95	\$13,603				
Ford Building	1,408	5	1	\$1,335	300	15	\$2,777				
West Yard Storage	18,615	67	11	\$3,220	378	19	\$3,356				
Outdoor Ice Rink	7,972	29	5	\$1,944	97	5	\$1,375				
Public Works Complex	18,913	68	11	\$2,562	461	24	\$3,802				
Clean Energy Technology Centre	333,672	1,201	195	\$47,677	3,042	156	\$22,787				
Park Valley Pool	368,537	1,327	215	\$36,611	5,400	277	\$39,330				
Omniplex Arena	1,205,289	4,339	704	\$153,244	8,898	457	\$59,849				
Early Childhood Development Centre	34,924	126	20	\$7,568	350	18	\$3,138				
MacKenzie Conference Centre	176,336	635	103	\$29,136	1,318	68	\$9,931				
Historical Society Museum	6,089	22	4	\$1,765	354	18	\$3,174				
Rotary Park Building	2,582	9	2	\$1,403	210	11	\$2,219				
Elanor Pick-Up Arts Centre	70,065	252	41	\$9,812	339	17	\$3,059				
Splash Park	14,184	51	8	\$2,420	-	-	-				
Cause for Critters	26,907	97	16	\$4,711	537	28	\$4,494				
Ricochet Oil Corp. Aquatic Centre	40,041	144	23	\$4,705	486	25	\$3,887				
RV Park	104,056	375	61	\$20,530	97	5	\$1,391				
Affordable Housing Program	9,641	35	6	\$7,265	960	49	\$7,379				
Lights	476,667	1,716	279	\$574,017							
Park Lights	11,753	42	7	\$8,274							
Streetlights	402,125	1,448	235	\$543,091							
Traffic Lights	62,789	226	37	\$22,652							
Water Treatment	1,805,639	6,500	1,055	\$298,568	4,202	216	\$31,455	1,233	47	3	\$1,365
Old Water Treatment Plant	2	-	-	\$18,668	-	-	\$166				
New Water Treatment Plant	832,631	2,997	487	\$140,706	3,874	199	\$28,327	1,233	47	3	\$1,365
Water Reservoirs	263,322	948	154	\$34,541	328	17	\$2,962				
Raw Water Pumping Station	709,684	2,555	415	\$104,653							
Wastewater Treatment	1,180,417	4,250	690	\$122,514	477	25	\$5,095				
Lab					280	14	\$2,442				
Brazeau Business Park Lift Station	2,890	10	2	\$2,897							
Sewer Blower Building	906,570	3,264	530	\$89,726							
Sewer Plant UV	267,970	965	157	\$27,884	197	10	\$1,950				
Sewer WWTF Outfall	-	-	-	\$585							
Lift Station Greenfield Subdivision	2,987	11	2	\$1,422	-	-	\$703				

	Diesel Use (L)	Diesel Use (GJ)	Diesel Emissions (tCO2e)	Diesel Expenditure (\$)	Ethanol (E10) Use (L)	Ethanol (E10) Use (GJ)	Ethanol (E10) Emissions (tCO2e)	Ethanol (E10) Expenditure (\$)
Fleet	42,436	1,624	115	\$48,617	47,958	1,624	72	\$55,529
Firehall	8,479	325	23	\$9,684	4,185	142	6	\$4,887
Public Works	29,668	1,136	80	\$34,155	14,399	488	22	\$16,562
Parks	3,210	122	9	\$3,569	16,003	541	24	\$18,549
Others	1,079	41	3	\$1,209	13,371	453	20	\$15,531

The municipal fleet fuel use does not include fuel used by contractors, staff and Council using their own vehicles for municipal operations.

Included in the Others category – Bylaw, Facilities, Omniplex, Safety and Utilities departments.

	Electricity Use (kWh)	Electricity Use (GJ)	Electricity Emissions (tCO2e)	Natural Gas Use (GJ)	Natural Gas Emissions (tCO2e)	Diesel Use (L)	Diesel Use (GJ)	Diesel Emissions (tCO2e)	Solid Waste (tonnes)	Solid Waste Emissions (tCO2e)	Solid Waste Expenditure (\$)
Waste Management											
Aspen Waste Management	30,391	109	19	458	23	30,618	1,173	82	15,662	35,240	\$ 242,088

Energy use for waste management estimated based on 2018 data.

Town of Drayton Valley	2021
Total Corporate Energy Use (GJ)	59,416
Total Corporate Emissions (tCO2e)	44,129
Total Corporate Expenditure (\$)	1,910,548

2021 Community Energy and Emissions Inventory

	Electricity Use (kWh)	Electricity Use (GJ)	Electricity Emissions (tCO2e)	Natural Gas Use (GJ)	Natural Gas Emissions (tCO2e)	Unspecified Emissions (tCO2e)
Stationary Energy	102,018,261	367,266	59,628	553,720	28,433	2,495
Residential	20,393,483	73,417	11,920	295,232	15,160	-
Non-residential	81,624,778	293,849	47,708	258,488	13,273	-
Unspecified Sources	-	-	-	-	-	2,495

	Gasoline Use (GJ)	Gasoline Emissions (tCO2e)	Diesel Use (GJ)	Diesel Emissions (tCO2e)	Ethanol (E10) Use (GJ)	Ethanol (E10) Emissions (tCO2e)
Transportation	192,407	12,739	167,572	12,020	666,002	29,662
Cars	82,735	5,478	21,784	1,563	286,381	12,755
Light-duty vehicle	107,748	7,134	28,487	2,043	372,961	16,611
Heavy-duty vehicle	1,924	127	117,301	8,414	6,660	297

	Waste Emissions (tCO2e)
Waste	40
Wastewater	0.6
Composting	39

Drayton Valley	2021
Total Community Energy Use (GJ)	1,946,967
Total Community Emissions (tCO2e)	145,017