

Grand Erie District School Board

TO: JoAnna Roberto, Ph. D., Director of Education & Secretary of the Board
FROM: Rafal Wyszynski, Superintendent of Business & Treasurer
RE: **Energy Consumption and Greenhouse Gas Emissions Report 2023-24**
DATE: June 9, 2025

Background

Ont. Reg 25/23 (Formerly O. Reg 507/18), under the *Electricity Act*, requires school boards, among other public agencies, to report annually on their energy consumption and greenhouse gas (GHG) emissions. The report is due July 1, 2025 and must provide information on the total consumption of energy and associated Greenhouse Gas (GHG) emissions for the previous fiscal year. This year's report covers September 1, 2023 to August 31, 2024, also referred to as "FY2024" (fiscal year 2024).

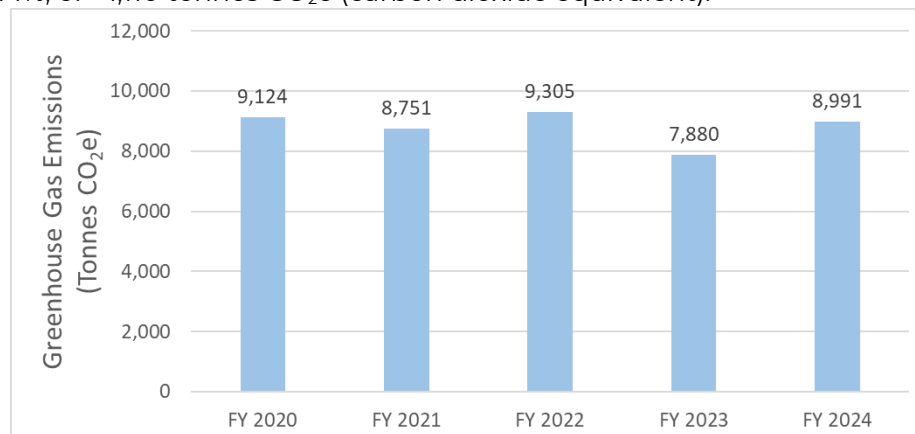
All data must be uploaded to the Ministry of Energy's reporting system. Through this process, a report is generated which summarizes energy consumption and GHG emissions over the previous fiscal year for ministry and public review. Please refer to Appendix A: Energy Consumption and Greenhouse Gas Emissions Report 2023-24. Grand Erie's 2023-24 Energy Consumption and Greenhouse Gas Emissions Report was completed and submitted to the Ministry of Energy as of May 14, 2025.

For this reporting process, Grand Erie reports on Branlyn Community School and Notre Dame Catholic Elementary School, while the Brant Haldimand Norfolk Catholic District School Board reports on Saint Basil Catholic Elementary School and Walter Gretzky Elementary School. As per Ont. Reg 25/23, boards are required to submit their completed consumption report to the Ministry of Energy, post the report on both their internet and intranet sites, and have a copy available at their office to any interested member of the public.

Summary

Total Annual Greenhouse Gas Emissions:

Measuring the GHG emissions associated with energy consumption required to operate across the board provides a comparable and consistent metric for environmental performance. Overall, GHG emissions at Grand Erie increased between FY2023 and FY2024 by approximately 14%, or ~1,110 tonnes CO₂e (carbon dioxide equivalent).



GHG Emission Highlights:

- 5-year average: 8,810 tonnes CO₂e
- Highest annual emissions: FY2022 – 9,305 tonnes CO₂e
- Lowest annual emissions: FY2023 – 7,880 tonnes CO₂e

There are three types of energy tracked as part of this reporting process, natural gas, electricity, and propane. On average natural gas has made up the largest share of our energy profile, followed by electricity, and lastly propane. For the period of this report, natural gas represented 69.5% of the energy profile, electricity made up 30.2%, and propane accounted for 0.3%:

Energy Consumption	FY2020	FY2021	FY2022	FY2023	FY2024
Electricity (kWh)	17,407,992	17,112,276	19,115,457	19,354,602	19,841,868
Natural Gas (m ³)	4,595,335	4,312,922	4,410,608	3,701,462	4,265,933
Propane (L)	31,588	18,535	10,786	22,517	24,183

Energy Consumption (GJ)*	FY2020	FY2021	FY2022	FY2023	FY2024
Electricity	61,353	60,252	68,334	69,673	71,427
Natural Gas	169,375	161,809	171,219	142,248	163,942
Propane	822	279	273	570	612
Total	231,550	222,340	239,826	212,492	235,981

*Energy consumption converted to gigajoules (GJ) to allow for relative comparison

Factors influencing energy consumption and GHG emissions

There are several factors which have affected energy consumption and GHG emission trends over the period of this report:

- Seasonal temperatures:
 - Variations in seasonal temperatures can sway the energy demand of board facilities, either requiring more or less energy based on the need for heating or cooling.
- Additional portables:
 - During FY2024, Grand Erie increased the number of portables in use by 10 leading to an expected increase in our annual electricity consumption of roughly 120,000 kWh based on an annual per-portable consumption rate of 12,000 kWh.
- Energy conservation projects:
 - Boiler replacement projects took place at Delhi Public School, Hagersville Elementary School, James Hillier Public School, and Onondaga-Brant Public School in FY2023. Across these four projects there was a reduction in consumption of approximately 14,000 m³ of natural gas.
 - Ventilation improvements through duct sealing were completed at Hagersville Secondary School in FY2023. This work reduced annual electricity consumption by 76,000 kWh, however natural gas use increased by 72,000 m³.
- Natural gas meter read estimates:
 - As identified in previous annual energy reports, many Enbridge Gas customers are receiving frequent estimated meter reads for natural gas services. This has continued into FY2024 and has impacted our ability to ensure the accuracy of our natural gas data.

Next Steps

This report was completed to meet the requirements of Ont. Reg 25/23 Broader Public Sector: Energy Reporting and Conservation and Demand Management Plans. Efforts to reduce the environmental impact of Grand Erie's operations will continue to be explored.

Grand Erie Multi-Year Plan

This report is connected to all priorities: Learning, Well-being, and Belonging.

Respectfully submitted,

Rafal Wyszynski
Superintendent of Business & Treasurer

Energy Consumption and Greenhouse Gas Emissions Report 2023-24

Confirm consecutive 12-month period (month-year to month-year)	September 2023 – August 2024
Sector	School Board
Agency Sub-sector	School Board
Organization Name	Grand Erie District School Board

Property Name	Operation Type	Address	City	Postal Code	Gross Floor Area (ft²)	Weekly Operating Hours	Number of Portables	Electricity (kWh)	Natural Gas (ekWh)	Propane (ekWh)	Site Energy Use (kWh)	Site Energy Use Intensity (kWh/ft²)	Site GHG Emissions (Metric Tons CO2e)	Site GHG Emissions Intensity (kgCO2e/ft²)
Agnes G Hodge PS	School	52 Clench Avenue	Brantford	N3T 1B6	43,870	80	12	316,559	505,306		821,861	18.73	102.82	2.34
Banbury Heights PS	School	141 Banbury Rd	Brantford	N3P 1E3	47,142	80	0	470,817	344,833		815,639	17.30	79.34	1.68
Bellview PS	School	97 Tenth Avenue	Brantford	N3S 1G5	36,883	80	1	200,672	334,111		534,778	14.50	67.67	1.83
Bloomsburg PS	School	25 Concession 12, R.R. 3	Waterford	N0E 1Y0	25,553	80	1	123,985	330,333		454,333	17.78	64.23	2.51
Board Office	Office	349 Erie Avenue	Brantford	N3S 2H7	28,458	80	2	312,002	331,389		643,389	22.61	71.19	2.50
Boston PS	School	2993 Cockshutt Rd., R.R. 1	Waterford	N0E 1Y0	21,841	80	3	137,544	323,139		460,667	21.09	63.41	2.90
Branlyn Community School	School	238 Brantwood Park Rd	Brantford	N3P 1N9	86,329	100	3	562,058	579,944		1,141,972	13.23	125.16	1.45
Brantford CI & VS	School	120 Brant Ave	Brantford	N3T 3H3	210,340	80	0	1,569,564	642,889		2,212,389	10.52	172.81	0.82
Brier Park PS	School	10 Blackfriar Lane	Brantford	N3R 6C5	34,258	80	1	236,214	365,722		601,944	17.57	74.67	2.18
Burford District ES	School	35 Alexander St	Burford	N0E 1A0	51,264	80	0	194,178	665,278		859,444	16.77	127.35	2.48
Caledonia Centennial PS	School	110 Shetland St	Caledonia	N3W 2H1	36,935	80	12	204,497	278,389		482,861	13.07	57.73	1.56
Cayuga SS	School	70 Highway 54	Cayuga	N0A 1E0	134,130	80	0	546,984	1,723,778		2,270,750	16.93	331.56	2.47
Cedarland PS	School	60 Ashgrove Ave	Brantford	N3R 6E5	33,917	80	0	185,950	373,472		559,417	16.49	74.26	2.19
Centennial-Grand Woodlands S	School	41 Ellenson Dr	Brantford	N3R 3E7	29,511	80	0	193,931	408,806		602,722	20.42	80.94	2.74
Central PS	School	135 George St	Brantford	N3T 6B4	29,378	80	3	207,514	265,972		473,472	16.12	55.59	1.89
Cobblestone ES	School	179 Grandville Circle	Paris	N3L 0A9	51,260	80	4	328,736	445,556		774,278	15.10	92.44	1.80
Courtland PS	School	1012 Queen Street, Box 245	Courtland	N0J 1E0	25,681	80	0	97,986	321,000		418,972	16.31	61.6	2.40
Delhi DSS	School	393 James St	Delhi	N4B 2B6	89,309	80	0	412,834	1,031,972		1,444,778	16.18	201.57	2.26
Delhi PS	School	227 Queen St	Delhi	N4B 2K6	35,683	80	0	186,922	330,472		517,389	14.50	66.52	1.86
Dunnville SS	School	106 Chestnut Ave	Brantford	N3T 4C6	45,239	80	0	158,692	485,556		644,250	14.24	93.56	2.07
Echo Place PS	School	110 Helena St	Dunnville	N1A 2S5	151,688	80	0	503,778	2,077,444		2,521,222	16.62	383.13	2.53
Ecole Confederation	School	723 Colborne St	Brantford	N3S 3R5	18,689	80	0	75,839	196,861		272,694	14.59	38.35	2.05
Ecole Dufferin	School	54 Ewing D Dr	Brantford	N3R 5H8	40,756	80	0	176,706	404,694		581,389	14.26	79.58	1.95
Edith Monture PS	School	33 Dowden Ave	Brantford	N3T 0A3	66,728	80	8	405,728	532,000		937,722	14.05	110.86	1.66
Elgin Avenue PS	School	80 Elgin Ave	Simcoe	N3Y 4A8	41,353	80	0	125,085	408,750		533,833	12.91	78.45	1.90
Glen Morris Central PS	School	522 Glen Morris Rd E	Glen Morris	N0B 1W0	16,847	80	0	95,566		170,028	265,583	15.76	40.79	2.42
Graham Bell-Victoria PS	School	56 Grand St	Brantford	N3R 4B2	33,984	80	0	110,802	381,111		491,889	14.47	72.94	2.15
Grand Erie Learning Alternatives	School	365 Rawdon St	Brantford	N3S 6J3	20,444	80	0	68,124	377,861		445,972	21.81	70.81	3.46
Grandview Central PS	Office	11 Thrush St	Dunnville	N1A 1X7	19,419	80	0	23,710	263,111		286,833	14.77	48.46	2.50
Grandview PS	School	68 North Park St	Brantford	N3R 4J9	33,951	80	0	115,155	423,278		538,417	15.86	80.72	2.38
Greenbrier PS	School	33 White Oaks Ave	Brantford	N3R 5N8	23,928	80	0	103,143	314,778		417,917	17.47	60.66	2.54
Hagersville ES	School	40 Parkview Road	Hagersville	N0A 1H0	29,999	80	2	136,269	292,833		429,111	14.30	57.89	1.93
Hagersville SS	School	70 Parkview Rd	Hagersville	N0A 1H0	133,389	80	1	689,337	3,069,389		3,758,694	28.18	580.13	4.35
Houghton Annex	School	505 Fairground SR, R.R. 5	Langton	N0E 1G0	4,955	40	0	1,346	12,306		13,667	2.76	2.28	0.46
Houghton PS	School	505 Fairground Sideroad	Langton	N0E 1G0	33,739	80	4	165,151	276,500		441,639	13.09	55.97	1.66
J L Mitchener PS	School	Box 99 60 Munsee St South	Cayuga	N0A 1E0	36,542	80	0	140,994	492,333		633,333	17.33	94.15	2.58
James Hillier PS	School	62 Queensway Dr	Brantford	N3R 4W8	30,979	80	1	110,993	395,806		506,806	16.36	75.6	2.44
Jarvis PS	School	14 Monson St	Jarvis	N0A 1J0	31,949	80	0	157,005	326,833		483,833	15.14	64.78	2.03
Joseph Brant Learning Centre	School	347 Erie Ave	Brantford	N3S 2H7	19,639	80	3	124,331	247,861		372,167	18.95	49.32	2.51
King George School	School	265 Rawdon St	Brantford	N3S 6G7	39,244	80	0	178,394	440,778		619,139	15.78	86.16	2.20
Lakewood ES	School	713 St. George St	Port Dover	N0A 1N0	90,337	80	0	353,798	1,257,083		1,610,861	17.83	240.17	2.66
Langton PS	School	23 Albert Street	Langton	N0E 1G0	21,034	80	0	108,790	341,139		449,944	21.39	65.64	3.12
Lansdowne-Costain PS	School	21 Preston Blvd	Brantford	N3T 5B1	29,557	80	2	146,944	227,472		374,417	12.67	46.44	1.57
Lynndale Heights PS	School	55 Donly Drive South	Simcoe	N3Y 5G7	39,173	80	1	235,964	375,833		611,778	15.62	76.49	1.95
Major Ballachey PS	School	105 Rawdon St	Brantford	N3S 6C7	48,259	80	0	154,482	450,111		604,583	12.53	87	1.80
Mapleview ES	School	223 Fairview Ave W	Dunnville	N1A 1M4	46,094	80	0	244,729	357,278		601,972	13.06	73.45	1.59
McKinnon Park SS	School	91 Haddington St	Caledonia	N3W 2H2	121,932	80	10	1,025,948	1,280,722		2,306,639	18.92	268.64	2.20
Mount Pleasant School	School	667 Mt. Pleasant Road	Mt. Pleasant	N0E 1K0	24,136	80	1	110,697	275,472		386,167	16.00	53.82	2.23
North Park C & VS	School	280 North Park St	Brantford	N3R 4L1	172,157	80	1	670,057	2,077,694		2,747,722	15.96	400.02	2.32
North Ward School	School	107 Silver St	Paris	N3L 1V2	43,854	80	0	151,953	279,333		431,278	9.83	56.01	1.28
Oakland-Scotland PS	School	15 Church Street West	Scotland	N0E 1R0	24,005	80	1	158,087	281,000		439,083	18.29	56.53	2.35
Oneida Central PS	School	661 4th Line	Caledonia	N3W 2B2	21,840	80	2	113,987	322,944		436,917	20.01	62.53	2.86
Onondaga-Brant PS	School	21 Brant School Rd., R.R. 1	Brantford	N3T 5L4	20,456	80	2	110,327	223,972		334,278	16.34	44.49	2.17
Paris Central PS	School	7 Broadway St E	Paris	N3L 2R2	26,077	80	0	227,481	202,250		429,722	16.48	44.78	1.72
Paris DHS	School	231 Grand River St N	Paris	N3L 2N6	147,702	80	4	641,495	1,893,361		2,534,833	17.16	365.64	2.48
Pauline Johnson C & VS	School	627 Colborne St	Brantford	N3S 3M8	184,625	80	0	587,276	2,202,111		2,789,361	15.11	419.55	2.27
Port Rowan PS	School	48 College Avenue	Port Rowan	N0E 1M0	22,998	80	0	84,801	303,167		387,972	16.87	57.9	2.52
Prince Charles PS	School	40 Morton Ave	Brantford	N3R 2N5	29,641	80	0	115,705	344,194		459,889	15.52	66.44	2.24
Princess Elizabeth PS	School	60 Tecumseh St	Brantford	N3S 2B5	26,696	80	0	88,000	388,972		476,972	17.87	73.54	2.75
Rainham Central School	School	RR 1 572 Concession 5	Fishersville	N0A 1G0	24,859	80	1	106,762	314,111		420,861	16.93	60.67	2.44
River Heights School	School	37 Forfar St.	Caledonia	N3W 1L6	58,496	80	0	221,454	531,139		752,583	12.87	104.06	1.78

Property Name	Operation Type	Address	City	Postal Code	Gross Floor Area (ft²)	Weekly Operating Hours	Number of Portables	Electricity (kWh)	Natural Gas (ekWh)	Propane (ekWh)	Site Energy Use (kWh)	Site Energy Use Intensity (kWh/ft²)	Site GHG Emissions (Metric Tons CO2e)	Site GHG Emissions Intensity (kgCO2e/ft²)
Russell Reid PS	School	43 Cambridge Dr.	Brantford	N3R 5E3	29,105	80	0	131,947	297,972		429,889	14.77	58.66	2.02
Seneca Central PS	School	2767 Reg Rd #9	York	N0A 1R0	17,605	80	2	90,501	236,306		326,806	18.56	46.01	2.61
Simcoe Comp Secondary	School	40 Wilson Ave	Simcoe	N3V 2E5	160,657	80	0	654,580	2,035,056		2,689,611	16.74	391.74	2.44
St George-German PS	School	3 College Street	St. George	N0E 1N0	42,673	80	0	242,235	539,889		782,111	18.33	106.4	2.49
Teacher Resource Centre	Office	108 Tollgate Rd	Brantford	N3R 4Z6	19,623	80	0	258,877	100,889		359,750	18.33	27.57	1.41
Teeterville PS	School	229 Teeter St. PO Box 1	Teeterville	N0E 1S0	21,394	80	0	135,207	302,194		437,389	20.44	59.54	2.78
Thompson Creek ES	School	800 Cross St W	Dunnville	N1A 1N7	51,259	80	0	187,181	506,833		694,028	13.54	98.44	1.92
Tollgate Technological Skills Centre	School	112 Tollgate Rd	Brantford	N3R 4Z6	97,190	80	3	558,222	1,872,250		2,430,444	25.01	358.82	3.69
Valley Heights SS	School	2561 #59 Highway	Langton	N0E 1G0	110,656	80	0	630,757	1,396,389		2,027,111	18.32	275.34	2.49
Walpole North ES	School	1895 Regional Rd. 55, R.R. 5	Hagersville	N0A 1H0	20,655	80	1	100,469	317,944		418,417	20.26	61.14	2.96
Walsh PS	School	933 St. John's Road West, RR#2	Simcoe	N3Y 4K1	36,653	80	2	149,042	304,556		453,611	12.38	60.47	1.65
Waterford DHS	School	227 Main St., South	Waterford	N0E 1Y0	125,404	80	0	454,607	1,707,806		2,162,417	17.24	325.34	2.59
Waterford PS	School	100 East Church St	Waterford	N0E 1Y0	28,444	80	3	147,969	312,250		460,194	16.18	61.82	2.17
West Lynn PS	School	18 Parker Dr	Simcoe	N3Y 1A1	29,041	80	0	130,986	481,639		612,611	21.09	91.85	3.16
Woodman Cainsville School	School	51 Woodman Dr	Brantford	N3S 4K3	30,199	80	4	155,275	235,639		390,889	12.94	48.22	1.60

Disclaimers:

- The Ministry's new reporting template has transitioned from reporting data in kilowatt hours for electricity (kWh), cubic meters for natural gas (m³), and liters for Propane (L), to Gigajoules (GJ) for all energy types. Conversion from GJ for both Natural Gas and Propane to equivalent kWh (ekWh) was completed using the conversion factors included in Energy Star Portfolio Manager's "Thermal Energy Conversions – Technical Reference".
- While efforts were made to provide the most accurate data possible, due to the frequency of meter reads estimates from our primary natural gas service provider we cannot guarantee that the natural gas data for this period will remain unchanged in future reports.
- Rainham Central PS, Langton PS, and Grandview PS had annual natural gas consumption values well below what would be expected so estimates were created based on previous year's data. These estimates were put in place to minimize the impact these outliers could have on the overall trend of energy consumption at Grand Erie.