

SIMAP Fiscal Year 2024 Annual Report for Michigan State University

Scope	Source	CO2 (kg)	CO2 (MTCDE)	CH4 (kg)	CH4 (MTCDE)	N2O (kg)	N2O (MTCDE)	GHG MTCDE
1	Co-gen Electricity	116,710,892	116,710.89	11,636	324.66	233	63.54	117,099.08
1	Co-gen Steam	141,498,952	141,498.95	14,108	393.61	282	77.03	141,969.59
1	Other On-Campus Stationary	57,772,115	57,772.12	5,760	160.71	115	31.45	57,964.27
1	Direct Transportation	3,662,576	3,662.58	2,148	59.92	531	144.87	3,867.37
1	Refrigerants & Chemicals	0	0	0	0	0	0	8,646.44
1	Fertilizer & Animals	0	0	145,309	4,054.11	4,941	1,348.88	5,402.99
2	Purchased Electricity	55,682,587	55,682.59	5,186	144.68	715	195.31	56,022.57

Total Scope 1 and 2 emissions (MTCDE) 390,972.31

Scope	Source	CO2 (kg)	CO2 (MTCDE)	CH4 (kg)	CH4 (MTCDE)	N2O (kg)	N2O (MTCDE)	GHG MTCDE
3	Faculty Commuting	2,959,535	2,959.54	90	2.51	57	15.79	2,977.83
3	Staff Commuting	18,947,289	18,947.29	576	16.08	359	101.07	19,064.44
3	Student Commuting	13,563,961	13,563.96	413	11.54	269	73.57	13,649.07
3	Directly Financed Air Travel	20,046,063	20,046.06	230	6.4	407	64.63	20,117.09
3	Other Directly Financed Travel	912,838	912.84	27	0.75	22	4.89	918.47
3	Study Abroad Air Travel	9,060,048	9,060.05	12	0.34	110	29.22	9,089.62
3	Solid Waste	131,300	131.3	147,056	4,102.86	0	0	4,234.16
3	Wastewater	0	0	15,425	430.36	5,366	1,214.82	1,645.18
3	Paper Purchasing	277,748	277.75	0	0	0	0	277.75
3	T&D Losses	3,334,815	3,334.81	311	8.66	51	11.7	3,355.18

Total Scope 3 emissions (MTCDE) 75,328.79

Gross MTCDE (Scope 1, 2, 3) 466,301.10

Terms
 CO2 carbon dioxide kg kilogram
 CH4 methane MTCDE metric tons of carbon dioxide equivalents
 GHG greenhouse gas N2O nitrous oxide

Offsets (MTCDE) 0
 Compost (MTCDE) -431.89
 Non-Additional Sequestration (MTCDE) 0
Biogenic (MTCO2) 33.21
Net MTCDE (Scope 1, 2, 3) 465,869.21