

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	147,893,758	147,893.76	14,745	411.4	295	80.51	148,385.67
1	Co-gen Steam	115,616,084	115,616.08	11,527	321.61	231	62.94	116,000.63
1	Other On-Campus Stationary	24,569,870	24,569.87	2,450	68.35	49	13.38	24,651.59
1	Direct Transportation	3,511,965	3,511.96	1,816	50.68	457	124.64	3,687.28
1	Refrigerants & Chemicals	0	0	0	0	0	0	4,005.54
1	Fertilizer & Animals	0	0	145,309	4,054.11	4,778	1,304.50	5,358.61
2	Purchased Electricity	65,180,438	65,180.44	5,376	149.98	852	232.47	65,562.88

Total Scope 1 and 2 emissions (MTCDE) 367,652.20

Scope	Source	CO2 (kg)	CO2 (MTCDE)	CH4 (kg)	CH4 (MTCDE)	N2O (kg)	N2O (MTCDE)	GHG MTCDE
3	Faculty Commuting	2,932,113	2,932.11	89	2.47	57	15.64	2,950.23
3	Staff Commuting	18,367,224	18,367.22	556	15.5	359	97.98	18,480.70
3	Student Commuting	13,528,847	13,528.85	412	11.51	269	73.38	13,613.73
3	Directly Financed Air Travel	34,480,332	34,480.33	395	11.02	407	111.16	34,602.51
3	Other Directly Financed Travel	1,142,162	1,142.16	34	0.94	22	6.11	1,149.21
3	Study Abroad Air Travel	11,784,716	11,784.72	13	0.35	139	37.99	11,823.06
3	Solid Waste	127,900	127.9	143,248	3,996.62	0	0	4,124.52
3	Wastewater	0	0	18,602	519	5,366	1,465.02	1,984.02
3	Paper Purchasing	510,015	510.02	0	0	0	0	510.02
3	T&D Losses	3,885,705	3,885.70	320	8.94	51	13.86	3,908.50

Total Scope 3 emissions (MTCDE) 93,146.50

Gross MTCDE (Scope 1, 2, 3) 460,798.70

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

Offsets (MTCDE) 0
Compost (MTCDE) -348.39
Non-Additional Sequestration (MTCDE) 0
Biogenic (MTCO2) 24.18
Net MTCDE (Scope 1, 2, 3) 460,450.31