Emissions Sector	2019 Emissions[1] [MT CO$_2$e]	2019 Emissions Revised[2] [MT CO$_2$e]	2020 Emissions [MTCO$_2$e]	2021 Emissions [MTCO$_2$e]	2022 Emissions [MTCO$_2$e]	2023 Emissions [MTCO$_2$e]
On-Road Transportation	5,805,000	5,854,000	4,650,000	4,683,000	4,628,000	4,674,000
Electricity[3]	2,375,000	2,336,000	2,286,000	1,617,000	1,527,000	1,615,000
Natural Gas	1,911,000	1,912,000	1,827,000	1,918,000	1,837,000	1,898,000
Solid Waste[4]	277,000	277,000	273,000	216,000	212,000	213,000
Off-Road Transportation (Construction Equipment Only)	70,000	69,000	57,000	57,000	57,000	57,000
Water[5]	68,000	61,000	70,000	70,000	73,000	50,000
Wastewater	26,000	26,000	23,000	24,000	13,000	13,000
Total Emissions	**10,532,000**	**10,535,000**	**9,186,000**	**8,585,000**	**8,347,000**	**8,520,000**

TABLE 3 CITY OF SAN DIEGO GREENHOUSE GAS EMISSIONS (2019 – 2023)

[1] 2019 Emissions match those reported in 2022 CAP

[2] 2019 Emissions updated to reflect best available data. This report will reference the 2019 Revised Emissions for the remainder of this report. Sums may not add up to totals due to rounding. GHG emissions for each category are rounded to the nearest thousand. Values are not rounded in the intermediary steps in the calculation.

[3] Historical emissions from electricity have been modified from previous Annual Reports to incorporate newly public data for direct access electricity customers. Additional details on changes can be found in the Electricity section.

[4] 2021 - 2022 emissions from solid waste have been modified from previous Annual Reports to incorporate new statewide waste characterization studies after impacts of mandatory organics recycling regulations.

[5] 2022 water emissions have been updated from the previous Annual Report as water sales to other agencies were incorrectly not removed. This Annual Report corrects that error.

GHG emissions for each category and the totals are rounded to the nearest thousands. Sums may not add up to totals due to rounding.

MT CO2e = metric tons of carbon dioxide equivalent.

Energy Policy Initiatives Center, University of San Diego 2025