

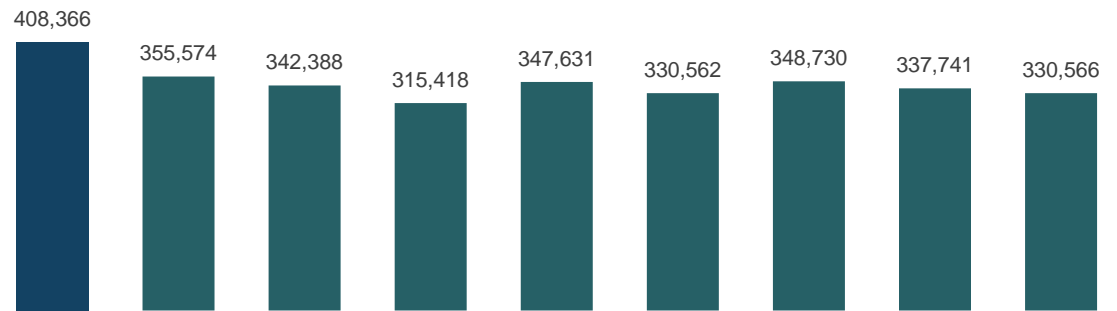
CITY OF COLUMBUS

2020 GREENHOUSE GAS INVENTORY

GOVERNMENT OPERATIONS

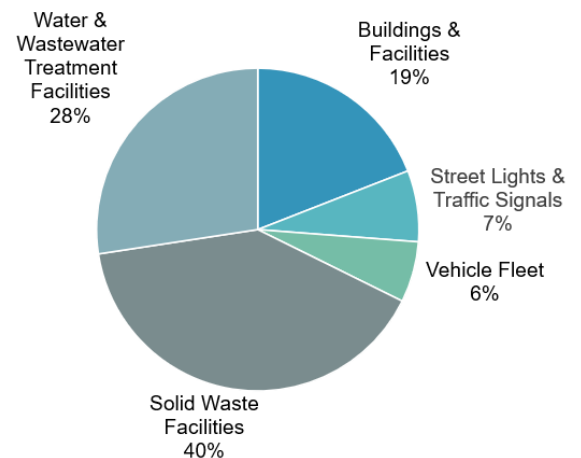
KEY TAKEAWAYS

- Whereas the population of Columbus has grown 23% since 2005 (the benchmark year), total emissions for government operations have decreased 19% over the same time period.
- On a per capita basis, greenhouse gas emissions for government operations have decreased 34%.
- All sectors show a significant decrease in emissions with the exception of solid waste. A portion of this growth is due to a methodological change in this recent years' inventories.
- Solid Waste and Water and Wastewater Facilities continue to contribute the most to total emissions for government operations (40% and 28% respectively).
- The majority of emission reductions are due to both changes in energy use during the pandemic and less carbon intensive fuel sources being used to produce electricity.



Government Operations Annual Emissions	2005	2013	2014	2015	2016	2017	2018	2019	2020
Buildings & Facilities	87,931	76,431	87,309	79,818	88,451	81,284	86,011	75,347	63,071
Street Lights & Traffic Signals	29,134	26,749	32,442	31,788	30,471	21,616	25,265	18,733	23,587
Vehicle Fleet	33,965	30,281	29,459	26,184	23,587	22,564	23,473	23,445	20,141
Solid Waste Facilities	97,245	97,218	98,597	102,290	108,272	110,308	111,721	122,917	133,148
Water & Wastewater Treatment Facilities	160,091	124,895	94,582	75,337	96,851	94,790	102,259	97,300	90,619
Total Emissions (Metric tons CO2e)	408,366	355,574	342,388	315,418	347,631	330,562	348,730	337,741	330,566

Government Operations Emissions	Percent Change in Total Emissions 2005 to 2020	Percent Change in Emissions per Capita 2005 to 2020
Buildings & Facilities	-28.3%	-41.7%
Street Lights & Traffic Signals	-19%	-34.2%
Vehicle Fleet	-40.7%	-51.8%
Solid Waste Facilities	36.9%	11.3%
Water & Wastewater Treatment Facilities	-43.4%	-54%
Total Emissions	-19.1%	-34.2%



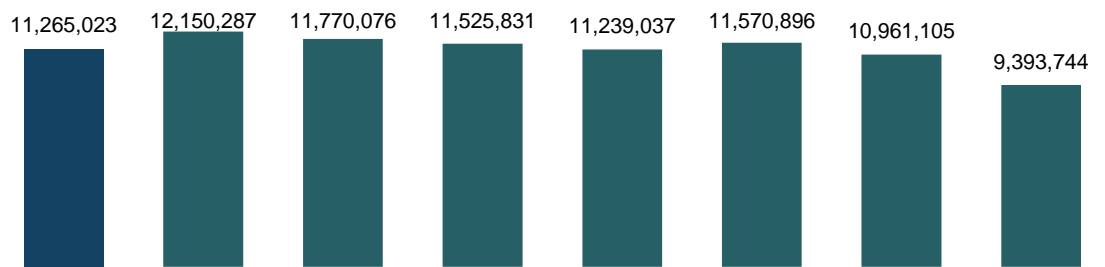
CITY OF COLUMBUS

2020 GREENHOUSE GAS INVENTORY

COMMUNITY WIDE

KEY TAKEAWAYS

- Total greenhouse gas emissions across the City are 17% lower than the benchmark year of 2013, despite a 19% growth in population during the same time period.
- On a per capita basis, emissions are nearly 27% lower than they were in 2013. This reflects a 16% reduction in per capita emissions from 2019 to 2020 due to a decrease in energy use across most sectors during the pandemic and less carbon intensive fuel sources being used to produce electricity.
- Transportation continues to be the largest contributor of greenhouse gas emissions for Columbus at 38%, despite the impacts of the pandemic. From 2013 to 2019 it grew by 28% on a per capita basis. Transportation greenhouse gas emissions decreased by 18% from 2019 to 2020.



Community Scale Sector Emissions	2013	2014	2015	2016	2017	2018	2019	2020
Residential Energy	2,641,935	3,020,841	2,700,722	2,614,721	2,423,504	2,763,887	2,492,497	2,406,417
Commercial Energy	4,883,764	4,640,654	4,216,227	4,170,874	3,748,313	3,573,927	3,343,330	2,759,194
Industrial Energy	287,152	713,266	657,967	626,048	611,877	371,757	347,443	139,625
Transportation	3,015,878	3,365,275	3,796,842	3,696,430	4,029,621	4,373,857	4,292,211	3,615,510
Solid Waste	249,007	249,877	244,372	263,633	275,496	332,321	304,904	307,564
Fugitive Emissions	59,171	63,481	57,928	56,682	55,435	52,887	83,420	74,815
Water/Wastewater	128,116	96,893	96,017	97,444	94,790	102,259	97,300	90,619
Total Emissions (Metric tons CO₂e)	11,265,023	12,150,287	11,770,076	11,525,831	11,239,037	11,570,896	10,961,105	9,393,744

Community Scale Emissions	Percent Change in Total Emissions 2013 to 2020	Percent Change in Emissions per Capita 2013 to 2020
Residential Energy	-8.9%	-19.8%
Commercial Energy	-43.5%	-50.3%
Industrial Energy	-51.4%	-57.2%
Transportation	19.9%	27.9%
Solid Waste	23.5%	102.6%
Fugitive Emissions	26.4%	27.3%
Water/Wastewater	-29.3%	-31.7%
Total Emissions	-16.6%	-10.5%

