

Alameda County Greenhouse Gas Emissions Analysis: 2003 Emissions Inventory from County Government Services and Operations

2010 Update

While developing Alameda County's Climate Action Plan for Government Services and Operations, Alameda County staff revisited the original 2003 baseline emissions inventory and updated some of the initial calculations. These changes are reflected in this update, issued as an addendum to the original inventory report. Although this update does slightly increase accuracy of the inventory, it does not represent a significant change in emissions (less than a 3% increase). The methodologies described in the full inventory report are still accurate as are the conclusions and relative greenhouse gas emissions levels.

Updated Inventory Results:

- 32,447 metric tons of CO₂e were released in 2003 as a direct result of providing County government services and maintaining County operations.
- 62,997 metric tons of CO₂e were released in 2003 when estimates included other sources of emissions indirectly associated with government operations.

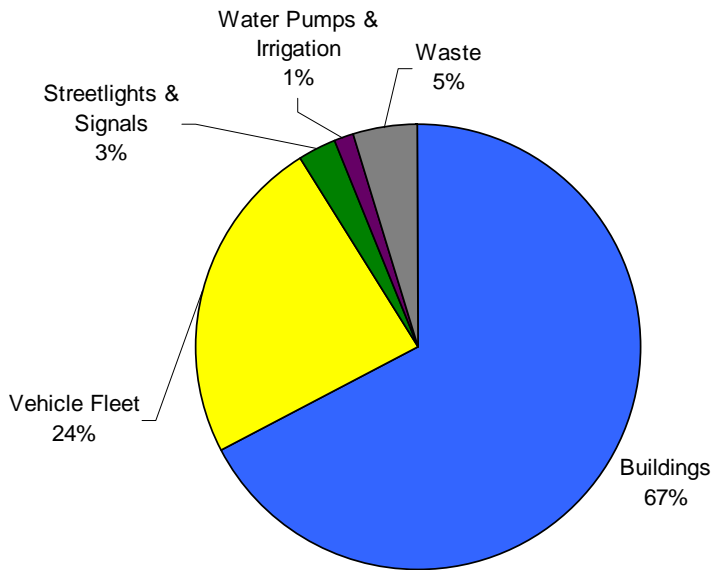
County Government Greenhouse Gas Emissions and Emission by Sources by Sector in 2003

	CO ₂ e (metric tons)	Percent of Total CO ₂ e ¹	Energy used / waste generated ²
Owned Buildings	21,821	35%	
electricity			4.5 million kWh
natural gas			1.7 million therms
Leased Facilities (est.)	5,507	9%	
Emergency Generators	83	0.1%	
diesel			8,656 gallons
natural gas			Included in building energy use
Vehicle Fleet	7,721	12%	
diesel			165,681 gallons
gasoline			5,399 gallons
CNG			625,052 gallons
Employee Commute (est.)	24,682	39%	
Streetlights & Traffic Control	959	2%	
electricity			3.4 million kWh
Water Pumps & Irrigation	408	1%	
electricity			1 million kWh
natural gas			6,990 therms
diesel			9,437 gallons
Waste - Owned Bldg.	1,538	2%	
waste generated			3,424 tons
Waste - Leased Bldg. (est.)	278	0.4%	
TOTAL	62,997	100%	

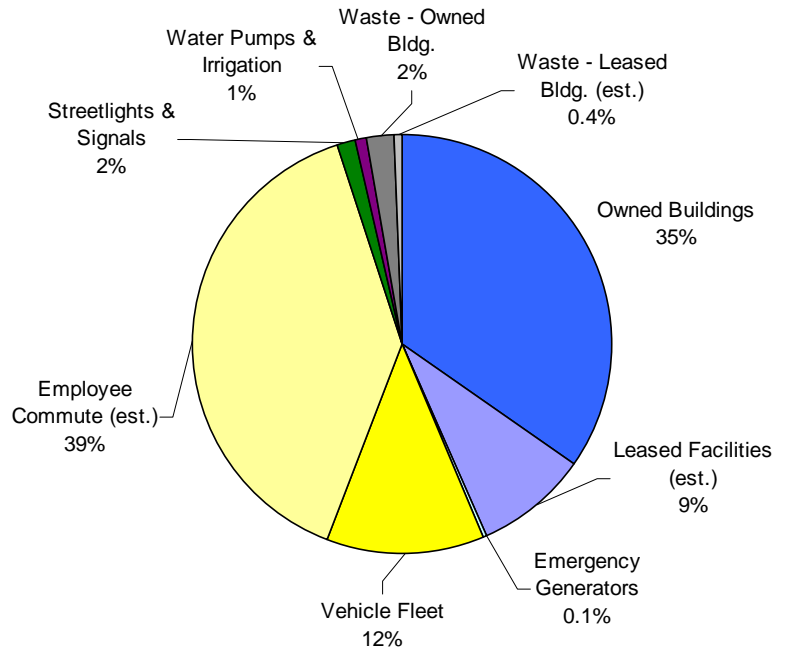
¹ The individual percentages reported may or may not add to exactly 100% due to rounding.

² Energy use / waste generation were not included for the *Associated Emissions* sectors as the nature of the calculations do not lend themselves to easy extrapolation

Greenhouse Gas Emissions from Alameda County's Government Services and Operations (2003)
Directly Controlled Sources



Greenhouse Gas Emissions from Alameda County's Government Services and Operations (2003)
Directly Controlled Sources and Select Associated Emissions



Major Updates:

This update reflects a variety of adjustments to the original greenhouse gas inventory including:

- Added fuel used in emergency generators
- Revised the facility data to reflect calendar months as opposed to billing cycles
- Adjusted the treatment of natural gas use in fleet vehicles
- Corrected minor data errors and updated the emission factors used in the fleet, water pumps and irrigation, and waste sectors
- Refined the employee commute and waste generation data to better reflect County specific information