

Total Community Greenhouse Gas Emissions and Percent Change in Emissions, 2005-2021

Sector	Subsector	Emissions (MT CO ₂ e)								Change 2005 to 2021		Change 2020 to 2021	
		2005	2012	2015	2017 ¹	2018 ¹	2019 ¹	2020 ¹	2021 ²	MT CO ₂ e	%	MT CO ₂ e	%
Natural Gas ³	Residential	64,065	63,343	53,566	56,687	57,449	57,610	57,537	106,498	(14,638)	-12%	(1,282)	-1%
	Non-Residential	57,071	60,899	56,031	56,372	57,098	58,182	50,243					
Electricity	Residential	36,307	31,875	27,221	7,065	801	175	806	1,432	(34,875)	-96%	626	78%
	Non-Residential	138,119	139,048	130,021	60,304	42,833	37,812	42,356	43,181	(94,938)	-69%	825	2%
	Subtotal	295,562	295,165	266,839	180,429	158,181	153,780	150,943	151,112	(144,450)	-49%	169	0%
Transportation	Passenger/Light Duty	309,162	358,379	413,676	365,028	341,939	307,891	169,475	204,108	(105,054)	-34%	34,632	20%
	Medium/Heavy Duty	64,915	53,339	43,243	53,946	53,737	84,597	65,882	74,646	9,731	15%	8,764	13%
	Subtotal	374,077	411,718	456,919	418,973	395,676	392,488	235,357	278,754	(95,323)	-25%	43,396	18%
Waste	Solid Waste	12,248	17,261	17,312	15,131	17,093	18,932	14,369	14,212	1,964	16%	(158)	-1%
	Alternative Daily Cover	77	22	16	2	1	0	0	0	(77)	-100%	0	0%
	Subtotal	12,325	17,283	17,328	15,133	17,094	18,932	14,369	14,212	1,887	15%	(158)	-1%
Water	Water Demand	4,384	2,326	1,633	77	84	2	70	35	(4,349)	-99%	(35)	-50%
	Wastewater	11,144	6,922	5,648	2,719	2,957	1,302	733	749	(10,395)	-93%	16	2%
	Subtotal	15,528	9,248	7,281	2,797	3,040	1,304	803	784	(14,744)	-95%	(19)	-2%
Off-Road Mobile Equipment	Construction	4,793	35,278	41,878	16,552	3,786	9,871	6,877	5,533	740	15%	(1,345)	-20%
	Lawn and Garden	1,767	1,868	1,918	-	-	-	2,390	2,371	604	34%	(19)	-1%
	Commercial Equipment	-	-	-	11,085	10,948	11,071	6,140	6,321	N/A	N/A	181	3%
	Industrial	-	-	-	19,272	18,994	19,169	20,590	10,462	N/A	N/A	(10,128)	-49%
	Portable Equipment	-	-	-	-	-	-	8,195	8,359	N/A	N/A	164	2%
	Other ⁴	-	-	-	-	-	-	407	512	N/A	N/A	105	26%
	Subtotal	6,560	37,146	43,796	46,909	33,727	40,111	44,600	33,558	26,998	412%	(11,042)	-25%
TOTAL		704,052	770,560	792,163	664,241	607,718	606,614	446,073	478,419	-225,633	-32%	32,346	7%

¹Updated based on the global warming potentials from the IPCC 5th Assessment. The 2005, 2012, and 2015 inventories were calculated with the global warming potentials from the IPCC 2nd Assessment.

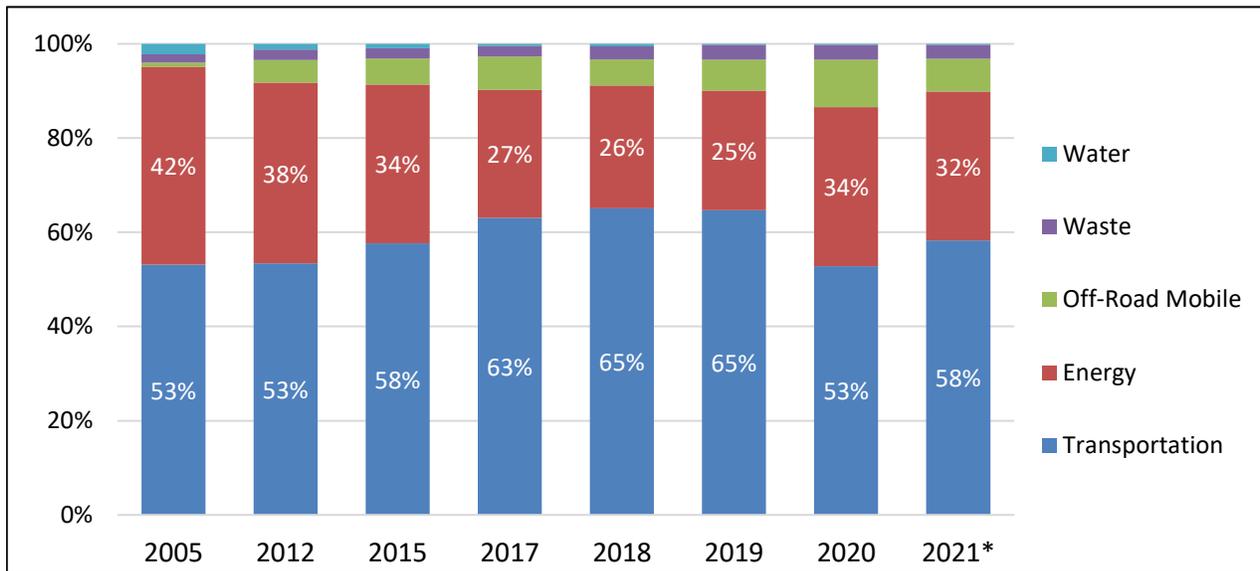
²2021 numbers are preliminary.

³2021 natural gas usage from residential and non-residential sources is aggregated for compliance with the CPUC 15/15 Rule.

⁴Includes emissions from forestry, pleasure craft, commercial harbor craft, and recreational sources obtained from the CARB EMFAC 2021.

Percent of Total Emissions by Sector and Subsector, 2005-2021

Sector	Subsector	Percent of Total Emissions							
		2005	2012	2015	2017	2018	2019	2020	2021 ¹
Natural Gas ²	Residential	9.1%	8.2%	6.8%	8.5%	9.5%	9.5%	12.9%	22.3%
	Non-Residential	8.1%	7.9%	7.1%	8.5%	9.4%	9.6%	11.3%	
Electricity	Residential	5.2%	4.1%	3.4%	1.1%	0.1%	0.0%	0.2%	0.3%
	Non-Residential	19.6%	18.0%	16.4%	9.1%	7.0%	6.2%	9.5%	9.0%
	Subtotal	42.0%	38.3%	33.7%	27.2%	26.0%	25.4%	33.8%	31.6%
Transportation	Passenger/Light Duty	43.9%	46.5%	52.2%	55.0%	56.3%	50.8%	38.0%	42.7%
	Medium/Heavy Duty	9.2%	6.9%	5.5%	8.1%	8.8%	13.9%	14.8%	15.6%
	Subtotal	53.1%	53.4%	57.7%	63.1%	65.1%	64.7%	52.8%	58.3%
Waste	Solid Waste	1.7%	2.2%	2.2%	2.3%	2.8%	3.1%	3.2%	3.0%
	Alternative Daily Cover	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Subtotal	1.8%	2.2%	2.2%	2.3%	2.8%	3.1%	3.2%	3.0%
Water	Water Demand	0.6%	0.3%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%
	Wastewater	1.6%	0.9%	0.7%	0.4%	0.5%	0.2%	0.2%	0.2%
	Subtotal	2.2%	1.2%	0.9%	0.4%	0.5%	0.2%	0.2%	0.2%
Off-Road Mobile Equipment	Construction	0.7%	4.6%	5.3%	2.5%	0.6%	1.6%	1.5%	1.2%
	Lawn and Garden	0.3%	0.2%	0.2%	N/A	N/A	N/A	0.5%	0.5%
	Commercial	N/A	N/A	N/A	1.7%	1.8%	1.8%	1.4%	1.3%
	Industrial	N/A	N/A	N/A	2.9%	3.1%	3.2%	4.6%	2.2%
	Portable Equipment	N/A	N/A	N/A	N/A	N/A	N/A	1.8%	1.7%
	Other ³	N/A	N/A	N/A	N/A	N/A	N/A	0.1%	0.1%
	Subtotal	0.9%	4.8%	5.5%	7.1%	5.5%	6.6%	10.0%	7.0%
TOTAL		100%	100%	100%	100%	100%	100%	100%	100%



¹2021 numbers are preliminary.

²2021 natural gas usage from residential and non-residential sources is aggregated for compliance with the CPUC 15/15 Rule.

³Includes emissions from forestry, pleasure craft, commercial labor craft, and recreational sources obtained from the CARB EMFAC 2021 database.