

## Total Community Greenhouse Gas Emissions and Percent Change in Emissions, 2005-2022

Sector	Subsector	Emissions (MT CO <sub>2</sub> e)						Change 2005 to 2022		Change 2021 to 2022	
		2005	2012	2015	2020*	2021*	2022**	MT CO <sub>2</sub> e	%	MT CO <sub>2</sub> e	%
Transportation	Passenger/Light Duty	309,162	358,379	413,676	143,966	162,675	177,172	(131,990)	-43%	14,496	9%
	Medium/Heavy Duty	64,915	53,339	43,243	55,966	58,257	59,401	(5,514)	-8%	1,144	2%
	<b>Subtotal</b>	<b>374,077</b>	<b>411,718</b>	<b>456,919</b>	<b>199,932</b>	<b>220,932</b>	<b>236,572</b>	<b>(137,505)</b>	<b>-37%</b>	<b>15,640</b>	<b>7%</b>
Natural Gas***	Residential	64,065	63,343	53,566	57,537	106,498	107,692	(13,444)	-11%	1,194	1%
	Non-Residential	57,071	60,899	56,031	50,243						
Electricity	Residential	36,307	31,875	27,221	802	1,574	4,968	(31,339)	-86%	3,394	216%
	Non-Residential	138,119	139,048	130,021	27,623	28,687	39,117	(99,002)	-72%	10,430	36%
	<b>Subtotal</b>	<b>295,562</b>	<b>295,165</b>	<b>266,839</b>	<b>136,206</b>	<b>136,759</b>	<b>151,778</b>	<b>(143,784)</b>	<b>-49%</b>	<b>15,019</b>	<b>11%</b>
Off-Road Mobile Equipment	Construction	4,793	35,278	41,878	6,877	5,533	2,625	(2,168)	-45%	(2,907)	-53%
	Lawn and Garden	1,767	1,868	1,918	2,390	2,422	2,443	676	38%	21	1%
	Commercial Equipment	-	-	-	6,140	6,027	6,177	N/A	N/A	150	2%
	Industrial	-	-	-	20,590	19,987	19,540	N/A	N/A	(447)	-2%
	Portable Equipment	-	-	-	8,195	7,970	8,129	N/A	N/A	159	2%
	Other****	-	-	-	407	488	492	N/A	N/A	4	1%
	<b>Subtotal</b>	<b>6,560</b>	<b>37,146</b>	<b>43,796</b>	<b>44,600</b>	<b>42,427</b>	<b>39,407</b>	<b>32,847</b>	<b>501%</b>	<b>(3,020)</b>	<b>-7%</b>
Waste	Solid Waste	12,248	17,261	17,312	14,369	14,212	11,673	(575)	-5%	(2,539)	-18%
	Alternative Daily Cover	77	22	16	0	0	0	(77)	-100%	0	0%
	<b>Subtotal</b>	<b>12,325</b>	<b>17,283</b>	<b>17,328</b>	<b>14,369</b>	<b>14,212</b>	<b>11,673</b>	<b>(652)</b>	<b>-5%</b>	<b>(2,539)</b>	<b>-18%</b>
Water	Water Demand	4,384	2,326	1,633	70	35	34	(4,350)	-99%	(1)	-2%
	Wastewater	11,144	6,922	5,648	733	749	672	(10,472)	-94%	(77)	-10%
	<b>Subtotal</b>	<b>15,528</b>	<b>9,248</b>	<b>7,281</b>	<b>803</b>	<b>784</b>	<b>706</b>	<b>(14,822)</b>	<b>-95%</b>	<b>(78)</b>	<b>-10%</b>
<b>TOTAL</b>		<b>704,052</b>	<b>770,560</b>	<b>792,163</b>	<b>395,910</b>	<b>415,114</b>	<b>440,137</b>	<b>-263,915</b>	<b>-37%</b>	<b>25,022</b>	<b>6%</b>

\*Updated 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.

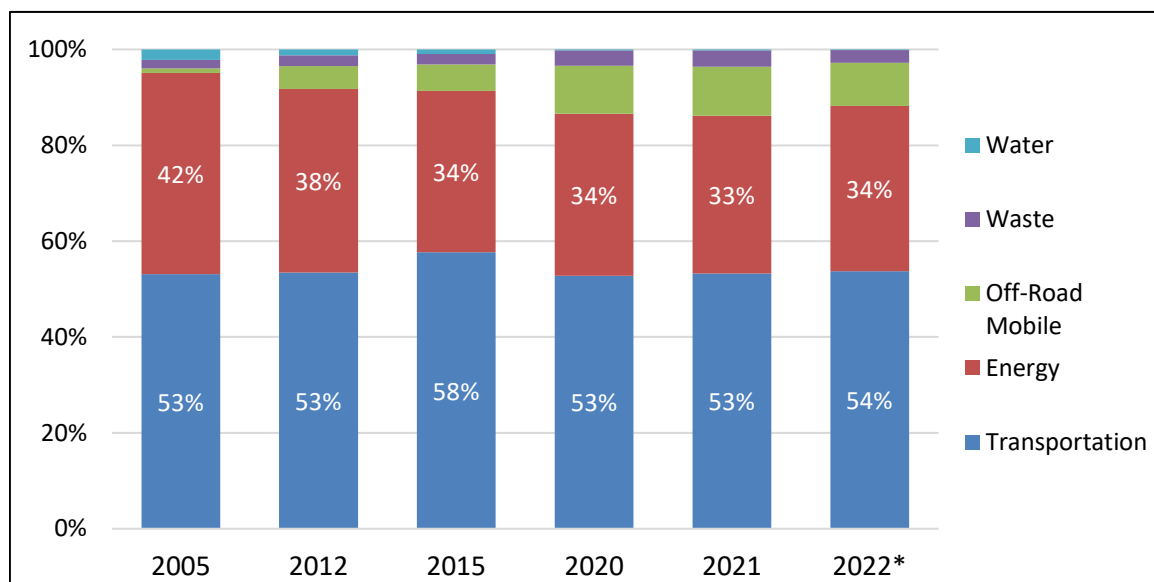
\*\*2022 numbers are preliminary.

\*\*\*2021 and 2022 natural gas usage from residential and non-residential sources is aggregated for compliance with the CPUC 15/15 Rule.

\*\*\*\*Includes emissions from forestry, pleasure craft, and recreational sources obtained from the CARB EMFAC 2021.

Percent of Total Emissions by Sector and Subsector, 2005-2022

Sector	Subsector	Percent of Total Emissions					
		2005	2012	2015	2020	2021	2022*
Transportation	Passenger/Light Duty	43.9%	46.5%	52.2%	36.4%	39.2%	40.3%
	Medium/Heavy Duty	9.2%	6.9%	5.5%	14.1%	14.0%	13.5%
	<b>Subtotal</b>	<b>53.1%</b>	<b>53.4%</b>	<b>57.7%</b>	<b>50.5%</b>	<b>53.2%</b>	<b>53.7%</b>
Natural Gas**	Residential	9.1%	8.2%	6.8%	14.5%	25.7%	24.5%
	Non-Residential	8.1%	7.9%	7.1%	12.7%		
Electricity	Residential	5.2%	4.1%	3.4%	0.2%	0.4%	1.1%
	Non-Residential	19.6%	18.0%	16.4%	7.0%	6.9%	8.9%
	<b>Subtotal</b>	<b>42.0%</b>	<b>38.3%</b>	<b>33.7%</b>	<b>34.4%</b>	<b>32.9%</b>	<b>34.5%</b>
Off-Road Mobile Equipment	Construction	0.7%	4.6%	5.3%	1.7%	1.3%	0.6%
	Lawn and Garden	0.3%	0.2%	0.2%	0.6%	0.6%	0.6%
	Commercial Equipment	N/A	N/A	N/A	1.6%	1.5%	1.4%
	Industrial	N/A	N/A	N/A	5.2%	4.8%	4.4%
	Portable Equipment	N/A	N/A	N/A	2.1%	1.9%	1.8%
	Other***	N/A	N/A	N/A	0.1%	0.1%	0.1%
	<b>Subtotal</b>	<b>0.9%</b>	<b>4.8%</b>	<b>5.5%</b>	<b>11.3%</b>	<b>10.2%</b>	<b>9.0%</b>
Waste	Solid Waste	1.7%	2.2%	2.2%	3.6%	3.4%	2.7%
	Alternative Daily Cover	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	<b>Subtotal</b>	<b>1.8%</b>	<b>2.2%</b>	<b>2.2%</b>	<b>3.6%</b>	<b>3.4%</b>	<b>2.7%</b>
Water	Water Demand	0.6%	0.3%	0.2%	0.0%	0.0%	0.0%
	Wastewater	1.6%	0.9%	0.7%	0.2%	0.2%	0.2%
	<b>Subtotal</b>	<b>2.2%</b>	<b>1.2%</b>	<b>0.9%</b>	<b>0.2%</b>	<b>0.2%</b>	<b>0.2%</b>
<b>TOTAL</b>		<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>



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