

## California Greenhouse Gas Inventory for 2000-2021 — by Sector and Activity

*million tonnes of CO2 equivalent - (based upon IPCC Fourth Assessment Report's 100-yr Global Warming Potentials)*

<b>Included Emissions</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>Electricity Generation (In State)</b>	<b>59.2</b>	<b>63.2</b>	<b>49.9</b>	<b>48.2</b>	<b>49.3</b>	<b>45.2</b>	<b>50.0</b>	<b>54.2</b>	<b>54.4</b>	<b>53.4</b>	<b>46.9</b>	<b>42.8</b>	<b>55.2</b>	<b>54.2</b>	<b>53.6</b>	<b>52.4</b>	<b>44.5</b>	<b>40.6</b>	<b>40.6</b>	<b>38.7</b>	<b>41.1</b>	<b>42.7</b>
<i>CHP: Commercial</i>	0.7	0.7	0.8	0.9	0.7	0.7	0.7	0.8	0.8	1.1	0.8	1.1	1.2	1.3	1.3	0.9	0.9	1.0	0.9	0.8	0.8	0.8
<i>CHP: Industrial</i>	18.1	16.6	20.2	17.7	15.2	14.7	13.8	13.7	13.6	14.7	12.5	14.3	15.1	16.0	14.6	13.9	13.0	12.3	11.8	11.0	10.0	9.8
<i>Merchant Owned</i>	32.9	38.8	23.8	24.0	27.5	23.1	26.2	29.3	28.8	27.4	21.4	16.9	24.4	23.1	23.7	23.3	17.5	15.2	16.1	15.6	18.5	19.7
<i>Transmission and Distribution</i>	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
<i>Utility Owned</i>	7.1	6.8	4.9	5.4	5.6	6.4	9.1	10.3	11.1	10.1	12.0	10.4	14.3	13.7	13.9	14.3	13.0	12.0	11.6	11.2	11.7	12.3
<b>Electricity Generation (Imports)</b>	<b>46.0</b>	<b>59.2</b>	<b>59.1</b>	<b>64.7</b>	<b>66.2</b>	<b>62.9</b>	<b>54.8</b>	<b>59.9</b>	<b>65.9</b>	<b>48.1</b>	<b>43.7</b>	<b>46.7</b>	<b>44.5</b>	<b>40.1</b>	<b>36.9</b>	<b>34.0</b>	<b>26.4</b>	<b>24.0</b>	<b>24.6</b>	<b>21.7</b>	<b>18.7</b>	<b>19.9</b>
<i>Specified Imports</i>	31.6	33.6	32.0	32.5	33.1	32.8	26.7	27.1	27.9	33.1	30.1	31.3	27.0	28.2	23.3	22.7	16.7	15.1	13.0	11.8	9.8	11.3
<i>Transmission and Distribution</i>	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1
<i>Unspecified Imports</i>	14.3	25.4	26.9	32.1	32.9	30.0	28.0	32.7	37.9	15.0	13.5	15.2	17.4	11.8	13.4	11.2	9.7	8.8	11.6	9.9	8.8	8.5
<b>Transportation</b>	<b>178.5</b>	<b>178.8</b>	<b>186.4</b>	<b>183.9</b>	<b>185.6</b>	<b>187.6</b>	<b>187.7</b>	<b>187.8</b>	<b>176.9</b>	<b>170.8</b>	<b>168.0</b>	<b>164.5</b>	<b>161.8</b>	<b>161.8</b>	<b>162.5</b>	<b>166.0</b>	<b>169.6</b>	<b>170.8</b>	<b>169.5</b>	<b>166.4</b>	<b>139.7</b>	<b>149.5</b>
<i>Aviation</i>	4.2	4.0	4.2	4.2	4.5	4.5	4.6	5.0	4.5	4.0	3.8	3.7	3.8	3.9	3.9	4.1	4.4	4.6	4.6	4.4	2.9	3.5
<i>Not Specified Transportation</i>	4.9	5.0	5.3	5.5	5.9	6.4	6.8	6.8	7.1	6.7	7.1	6.6	6.5	6.4	6.6	6.6	6.1	5.9	5.8	5.7	5.2	5.0
<i>On Road</i>	164.6	165.2	171.4	168.1	169.1	170.0	169.5	169.6	159.7	155.0	151.0	147.9	145.6	145.5	146.2	150.0	154.0	155.4	153.6	151.3	126.4	135.8
<i>Rail</i>	1.9	1.9	2.5	2.9	2.9	3.3	3.5	3.2	2.4	1.9	2.3	2.6	2.4	2.1	1.9	1.7	1.5	1.3	1.9	1.4	1.3	1.3
<i>Water-borne</i>	2.9	2.7	3.0	3.1	3.1	3.3	3.4	3.3	3.2	3.0	3.7	3.6	3.6	3.8	3.9	3.5	3.5	3.6	3.6	3.7	3.8	3.8
<b>Industrial</b>	<b>100.8</b>	<b>100.5</b>	<b>101.9</b>	<b>100.4</b>	<b>103.8</b>	<b>101.8</b>	<b>102.0</b>	<b>99.4</b>	<b>97.9</b>	<b>95.3</b>	<b>97.9</b>	<b>96.3</b>	<b>91.4</b>	<b>93.5</b>	<b>95.8</b>	<b>93.6</b>	<b>92.1</b>	<b>92.6</b>	<b>93.4</b>	<b>92.2</b>	<b>84.9</b>	<b>85.3</b>
<i>CHP: Industrial</i>	11.7	10.5	10.7	10.6	12.9	12.4	12.2	11.2	10.4	12.6	12.6	10.0	7.1	7.0	7.2	6.8	6.4	6.1	6.8	6.0	6.2	6.1
<i>Landfills</i>	6.6	6.8	6.8	6.9	6.9	7.1	7.2	7.2	7.3	7.4	7.5	7.9	8.1	8.0	7.8	7.8	7.6	7.8	7.9	8.0	8.2	8.0
<i>Manufacturing</i>	23.3	23.3	23.4	22.1	23.3	21.2	21.9	20.1	19.9	16.6	17.4	18.0	17.8	18.4	18.7	18.0	18.0	18.0	17.9	18.4	17.1	17.2
<i>Mining</i>	0.2	0.3	0.3	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
<i>Not Specified Industrial</i>	2.9	2.9	3.0	3.0	3.2	3.6	3.7	3.7	3.6	3.5	3.9	4.0	4.1	4.5	4.7	4.9	5.0	5.1	5.2	5.1	5.0	5.0
<i>Off Road</i>	2.6	2.8	2.8	2.8	3.0	3.2	3.3	3.2	2.8	2.2	2.0	2.1	2.1	2.1	1.7	1.8	1.8	1.9	2.4	2.6	1.9	1.9
<i>Oil &amp; Gas: Production &amp; Processing</i>	18.5	18.3	18.7	18.1	18.3	17.4	17.2	17.9	18.3	17.3	16.6	16.6	15.0	16.8	17.9	18.0	15.3	15.5	15.1	15.1	12.8	12.8
<i>Petroleum Marketing</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Petroleum Refining and Hydrogen Production</i>	28.1	28.7	28.9	29.5	28.6	29.3	29.3	28.9	28.0	28.3	30.4	30.2	29.8	29.4	29.8	28.4	29.8	30.1	30.1	28.7	25.8	26.2
<i>Solid Waste Treatment</i>	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
<i>Solvents &amp; Chemicals</i>	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
<i>Transmission and Distribution</i>	4.2	4.4	4.6	4.3	4.7	4.6	4.5	4.6	4.6	4.5	4.7	4.7	4.7	4.5	5.2	5.0	5.2	5.1	5.1	5.3	5.2	5.3
<i>Wastewater Treatment</i>	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9
<b>Commercial</b>	<b>14.6</b>	<b>14.1</b>	<b>14.8</b>	<b>14.9</b>	<b>16.4</b>	<b>16.1</b>	<b>16.3</b>	<b>17.1</b>	<b>17.7</b>	<b>18.7</b>	<b>20.1</b>	<b>20.5</b>	<b>19.5</b>	<b>19.9</b>	<b>20.1</b>	<b>21.8</b>	<b>22.1</b>	<b>22.4</b>	<b>22.3</b>	<b>23.0</b>	<b>22.1</b>	<b>22.5</b>
<i>CHP: Commercial</i>	1.1	1.1	1.1	0.3	0.6	0.4	0.4	0.5	0.4	0.9	0.9	0.5	0.5	0.6	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4
<i>Communication</i>	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<i>Domestic Utilities</i>	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2

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<i>Education</i>	1.2	1.1	1.1	1.0	1.2	1.1	1.1	1.1	1.0	1.0	1.1	1.1	0.9	0.9	0.8	0.8	0.8	0.9	0.9	1.0	0.8	0.9
<i>Food Services</i>	2.0	2.0	2.2	2.3	2.4	2.4	2.4	2.5	2.3	2.2	2.2	2.3	2.0	2.0	2.1	2.2	2.2	2.2	2.1	2.2	1.8	2.0
<i>Health Care</i>	1.3	1.3	1.3	1.3	1.4	1.3	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
<i>Hotels</i>	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.7	0.5	0.5
<i>Landscape</i>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
<i>National Security</i>	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<i>Not Specified Commercial</i>	4.3	4.0	4.2	5.1	5.5	5.9	5.9	6.5	7.6	8.1	9.4	10.0	10.1	10.5	10.9	12.5	12.6	12.9	12.9	13.2	13.2	13.0
<i>Offices</i>	1.9	1.9	2.1	2.0	2.1	2.0	2.0	1.9	1.8	1.7	1.8	1.8	1.6	1.5	1.4	1.5	1.6	1.6	1.6	1.7	1.6	1.7
<i>Retail &amp; Wholesale</i>	0.9	0.9	1.1	1.1	1.2	1.2	1.1	1.2	1.1	1.0	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.2
<i>Transportation Services</i>	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5
<b>Residential</b>	<b>31.6</b>	<b>30.5</b>	<b>31.0</b>	<b>30.3</b>	<b>31.7</b>	<b>30.4</b>	<b>30.7</b>	<b>30.9</b>	<b>31.3</b>	<b>31.1</b>	<b>32.1</b>	<b>32.9</b>	<b>27.8</b>	<b>28.4</b>	<b>25.7</b>	<b>26.6</b>	<b>27.4</b>	<b>28.4</b>	<b>28.2</b>	<b>31.0</b>	<b>30.8</b>	<b>30.5</b>
<i>Household Use</i>	29.3	28.2	28.7	28.0	29.4	28.1	28.4	28.5	28.8	28.5	29.2	29.6	24.2	24.5	21.4	22.0	22.5	23.1	22.5	25.0	24.4	23.9
<i>Landscape</i>	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9
<i>Not Specified Residential</i>	0.8	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.9	0.9	1.3	1.6	1.9	2.2	2.5	2.9	3.2	3.5	3.9	4.2	4.6	4.9
<i>Transmission and Distribution</i>	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
<b>Agriculture &amp; Forestry</b>	<b>30.8</b>	<b>31.1</b>	<b>33.1</b>	<b>33.6</b>	<b>32.9</b>	<b>33.7</b>	<b>34.5</b>	<b>35.1</b>	<b>35.0</b>	<b>32.8</b>	<b>34.0</b>	<b>34.2</b>	<b>35.2</b>	<b>33.7</b>	<b>33.7</b>	<b>32.6</b>	<b>32.1</b>	<b>31.6</b>	<b>32.1</b>	<b>31.3</b>	<b>31.5</b>	<b>30.9</b>
<i>Ag Energy Use</i>	3.7	3.8	4.2	4.4	4.6	4.6	5.1	3.7	4.0	2.5	3.1	3.6	3.6	3.3	3.4	3.2	2.8	2.2	2.7	2.2	2.4	2.4
<i>Ag Residue Burning</i>	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<i>Ag Soil Management</i>	7.1	7.0	7.2	7.2	7.0	7.1	7.2	6.7	6.5	6.4	6.5	6.3	6.6	6.1	5.9	5.6	5.6	5.7	5.8	5.6	5.8	5.8
<i>Enteric Fermentation</i>	9.9	9.8	10.4	10.5	10.3	10.5	10.6	11.7	11.5	11.1	11.6	11.4	11.5	11.2	11.3	11.0	10.9	11.1	11.1	11.0	11.0	11.0
<i>Histosol Cultivation</i>	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<i>Manure Management</i>	9.3	9.6	10.3	10.6	10.0	10.4	10.7	11.8	12.1	11.8	11.9	11.9	12.4	12.0	12.1	11.9	11.6	11.7	11.5	11.5	11.4	10.7
<i>Rice Cultivation</i>	0.7	0.7	0.8	0.8	0.8	0.9	0.7	0.9	0.7	0.8	0.8	0.9	0.8	0.9	0.8	0.7	0.9	0.6	0.7	0.8	0.8	0.8
<b>Summary for Included Emissions</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
California Emissions	461.6	477.5	476.2	476.0	485.9	477.7	476.1	484.5	479.2	450.2	442.7	437.8	435.5	431.6	428.2	426.9	414.2	410.4	410.7	404.4	368.7	381.3

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*million tonnes of CO2 equivalent - (based upon IPCC Fourth Assessment Report's 100-yr Global Warming Potentials)*

<b>Excluded Emissions</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
<b>Transportation</b>	50.6	44.2	49.1	43.4	47.7	50.5	53.0	56.0	52.6	51.7	52.3	48.1	45.3	44.6	44.0	49.2	53.7	56.4	56.2	51.5	29.2	33.2
<i>Aviation</i>	35.1	32.6	35.1	33.8	36.2	35.8	36.8	38.4	34.9	34.2	33.5	34.3	32.7	35.2	37.7	40.4	42.6	43.9	43.2	37.5	19.6	23.6
<i>Water-borne</i>	15.5	11.7	13.9	9.6	11.5	14.7	16.2	17.6	17.7	17.5	18.8	13.8	12.6	9.4	6.4	8.8	11.1	12.5	13.0	14.0	9.6	9.6
<b>Industrial</b>	0.4	0.5	0.6	0.6	0.1	0.1	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
<i>Oil &amp; Gas: Production &amp; Processing</i>	0.4	0.5	0.6	0.6	0.1	0.1	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
<b>Military</b>	3.8	4.4	4.1	4.2	3.9	3.4	3.1	2.9	2.8	2.7	3.1	2.7	3.3	2.6	3.0	2.6	2.3	2.4	2.2	2.2	2.2	2.2
<i>Not Specified Military</i>	3.8	4.4	4.1	4.2	3.9	3.4	3.1	2.9	2.8	2.7	3.1	2.7	3.3	2.6	3.0	2.6	2.3	2.4	2.2	2.2	2.2	2.2
<b>Summary for Excluded Emissions</b>																						
<b>Excluded Emissions</b>	54.8	49.1	53.7	48.1	51.7	54.0	56.7	59.6	56.0	54.5	56.0	51.4	49.2	47.8	47.6	52.4	56.6	59.4	59.1	54.3	32.0	35.9

**California Greenhouse Gas Inventory for 2000-2021 — by Sector and Activity**
*million tonnes of CO2 equivalent - (based upon IPCC Fourth Assessment Report's 100-yr Global Warming Potentials)*

<b>CO2 from biogenic materials</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	
<b>Electricity Generation (In State)</b>	<b>7.1</b>	<b>7.2</b>	<b>7.4</b>	<b>7.6</b>	<b>6.9</b>	<b>7.0</b>	<b>7.1</b>	<b>6.7</b>	<b>6.8</b>	<b>7.7</b>	<b>7.3</b>	<b>6.1</b>	<b>7.9</b>	<b>7.7</b>	<b>8.1</b>	<b>7.2</b>	<b>6.0</b>	<b>5.9</b>	<b>6.0</b>	<b>6.6</b>	<b>6.0</b>	<b>5.7</b>	
<i>CHP: Commercial</i>	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<i>CHP: Industrial</i>	1.7	2.3	1.6	1.8	1.4	1.2	1.2	1.2	1.1	0.9	0.9	1.0	2.0	1.8	1.8	1.5	1.4	1.3	1.4	2.1	1.9	1.7	
<i>Merchant Owned</i>	5.1	4.7	5.6	5.5	5.3	5.4	5.5	5.2	5.3	6.4	6.0	4.6	5.7	5.6	5.7	5.1	3.9	4.0	3.9	3.9	3.5	3.3	
<i>Utility Owned</i>	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.4	0.4	0.2	0.2	0.5	0.6	0.7	0.6	0.6	0.6	0.6	0.6	
<b>Electricity Generation (Imports)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.4</b>	<b>0.8</b>	<b>0.3</b>	<b>0.4</b>	<b>2.1</b>	<b>1.6</b>	<b>1.8</b>	<b>1.8</b>	<b>1.5</b>	<b>1.4</b>	<b>1.2</b>	<b>1.2</b>	<b>1.1</b>	
<i>Specified Imports</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.3	0.4	2.1	1.6	1.8	1.8	1.5	1.4	1.2	1.2	1.1	
<b>Transportation</b>	<b>0.3</b>	<b>0.5</b>	<b>0.6</b>	<b>3.2</b>	<b>4.9</b>	<b>5.3</b>	<b>5.4</b>	<b>5.3</b>	<b>5.6</b>	<b>5.5</b>	<b>8.5</b>	<b>9.1</b>	<b>8.5</b>	<b>10.1</b>	<b>10.8</b>	<b>11.3</b>	<b>12.5</b>	<b>13.3</b>	<b>13.9</b>	<b>15.9</b>	<b>14.3</b>	<b>18.3</b>	
<i>Aviation</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
<i>Not Specified Transportation</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
<i>On Road</i>	0.3	0.5	0.6	3.2	4.9	5.2	5.3	5.3	5.5	5.5	8.4	9.0	8.4	9.9	10.6	11.0	12.1	12.9	13.4	15.2	13.5	17.2	
<i>Rail</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.4	0.6	
<i>Water-borne</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	
<b>Industrial</b>	<b>11.9</b>	<b>12.5</b>	<b>10.8</b>	<b>10.9</b>	<b>11.6</b>	<b>12.4</b>	<b>12.5</b>	<b>12.7</b>	<b>12.6</b>	<b>12.3</b>	<b>12.7</b>	<b>13.2</b>	<b>13.1</b>	<b>13.6</b>	<b>13.0</b>	<b>13.1</b>	<b>13.4</b>	<b>13.8</b>	<b>14.0</b>	<b>13.8</b>	<b>16.2</b>	<b>16.9</b>	
<i>CHP: Industrial</i>	1.3	1.0	0.6	0.6	1.1	1.5	1.5	1.5	1.5	1.2	1.1	1.2	0.8	0.9	0.7	0.8	1.1	1.2	1.1	0.7	0.7	0.7	
<i>Landfills</i>	6.0	6.4	6.6	6.6	6.7	6.8	7.1	7.2	7.2	7.3	7.4	7.5	7.7	7.8	7.7	7.6	7.3	7.5	7.7	7.6	7.9	7.9	
<i>Manufacturing</i>	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4	
<i>Not Specified Industrial</i>	3.7	4.2	2.6	2.5	2.5	2.8	2.6	2.6	2.3	2.1	2.4	2.7	2.6	2.6	2.3	2.2	2.3	2.2	2.2	2.3	4.3	4.5	
<i>Off Road</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.6	0.6	0.9	
<i>Oil &amp; Gas: Production &amp; Processing</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<i>Petroleum Refining and Hydrogen Production</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<i>Solid Waste Treatment</i>	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.0	2.1	2.2	2.3	2.4	2.4	
<b>Commercial</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.4</b>	<b>0.4</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.5</b>	<b>0.6</b>	<b>0.7</b>	<b>0.7</b>	
<i>CHP: Commercial</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
<i>Not Specified Commercial</i>	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7	
<b>Residential</b>	<b>3.5</b>	<b>3.3</b>	<b>3.4</b>	<b>3.6</b>	<b>3.7</b>	<b>2.4</b>	<b>2.2</b>	<b>2.4</b>	<b>2.7</b>	<b>3.5</b>	<b>3.8</b>	<b>3.6</b>	<b>3.0</b>	<b>4.0</b>	<b>4.0</b>	<b>2.1</b>	<b>1.9</b>	<b>1.9</b>	<b>2.1</b>	<b>2.5</b>	<b>2.0</b>	<b>2.1</b>	
<i>Household Use</i>	3.5	3.3	3.4	3.6	3.7	2.4	2.2	2.4	2.7	3.5	3.8	3.6	3.0	4.0	4.0	2.1	1.9	1.9	2.1	2.5	2.0	2.1	
<b>Agriculture &amp; Forestry</b>	<b>1.4</b>	<b>1.2</b>	<b>1.2</b>	<b>1.2</b>	<b>1.2</b>	<b>1.2</b>	<b>1.3</b>	<b>1.3</b>	<b>1.4</b>	<b>1.4</b>	<b>1.5</b>	<b>1.5</b>	<b>1.6</b>	<b>1.7</b>	<b>1.7</b>	<b>1.8</b>	<b>1.9</b>	<b>2.0</b>	<b>2.1</b>	<b>2.2</b>	<b>2.5</b>	<b>2.8</b>	
<i>Ag Energy Use</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.6	0.8	
<i>Ag Residue Burning</i>	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.4	1.5	1.5	1.6	1.5	1.6	1.6	1.7	1.7	1.8	1.9	1.9	
<b>Summary for CO2 from biogenic materials</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	
Carbon dioxide from Biogenic sources	24.8	25.3	24.0	27.1	29.0	28.8	28.8	28.9	29.4	31.5	35.0	34.3	34.9	39.7	39.9	37.7	38.1	38.9	40.0	42.9	42.9	47.7	



**California Greenhouse Gas Inventory for 2000-2021 — by Sector and Activity**  
*million tonnes of CO2 equivalent - (based upon IPCC Fourth Assessment Report's 100-yr Global Warming Potentials)*

**Other Emissions**

**2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021**

**This section of the inventory is currently under development**