

## California Carbon Dioxide Inventory for 2000-2014 — by Sector and Activity

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

Included Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
<b>Electricity Generation (In State)</b>	<b>58.70</b>	<b>62.74</b>	<b>49.44</b>	<b>47.81</b>	<b>48.93</b>	<b>44.83</b>	<b>49.63</b>	<b>53.90</b>	<b>54.10</b>	<b>53.09</b>	<b>46.53</b>	<b>40.91</b>	<b>50.82</b>	<b>49.12</b>	<b>51.37</b>
<i>CHP: Commercial</i>	0.73	0.67	0.76	0.86	0.69	0.73	0.71	0.77	0.76	1.05	0.79	0.86	0.62	0.84	0.88
<i>CHP: Industrial</i>	18.07	16.60	20.14	17.67	15.22	14.71	13.77	13.72	13.56	14.72	12.51	13.78	12.49	12.80	13.84
<i>Merchant Owned</i>	32.81	38.72	23.65	23.91	27.39	23.01	26.09	29.13	28.65	27.26	21.27	15.09	24.10	22.43	23.39
<i>Utility Owned</i>	7.09	6.75	4.89	5.37	5.63	6.38	9.05	10.27	11.13	10.06	11.97	11.18	13.61	13.06	13.26
<b>Electricity Generation (Imports)</b>	<b>45.67</b>	<b>58.72</b>	<b>58.67</b>	<b>64.25</b>	<b>65.73</b>	<b>62.50</b>	<b>54.43</b>	<b>59.53</b>	<b>65.51</b>	<b>47.89</b>	<b>43.43</b>	<b>46.70</b>	<b>43.91</b>	<b>39.89</b>	<b>36.37</b>
<i>Specified Imports</i>	31.47	33.42	31.88	32.34	32.95	32.62	26.59	26.94	27.76	32.91	29.99	31.20	26.45	28.07	22.95
<i>Unspecified Imports</i>	14.20	25.31	26.80	31.91	32.78	29.89	27.84	32.59	37.75	14.98	13.44	15.51	17.46	11.81	13.42
<b>Transportation</b>	<b>171.15</b>	<b>171.84</b>	<b>179.18</b>	<b>176.89</b>	<b>178.76</b>	<b>180.92</b>	<b>181.14</b>	<b>181.44</b>	<b>170.55</b>	<b>163.91</b>	<b>160.64</b>	<b>157.48</b>	<b>157.61</b>	<b>156.23</b>	<b>157.88</b>
<i>Aviation</i>	4.11	4.03	4.08	4.21	4.45	4.45	4.52	4.93	4.46	3.99	3.81	3.68	3.72	3.88	3.85
<i>Not Specified Transportation</i>	1.81	1.73	1.74	1.67	1.66	1.75	1.73	1.61	1.90	1.45	1.92	1.51	1.49	1.56	1.75
<i>Off Road</i>	2.62	2.78	2.76	2.83	3.02	3.21	3.30	3.17	2.81	2.24	2.03	2.13	2.23	2.33	2.43
<i>On Road</i>	157.25	158.12	164.50	161.55	162.95	164.16	164.00	164.36	155.03	150.67	146.95	143.99	143.88	142.18	143.17
<i>Rail</i>	1.87	1.88	2.49	2.85	2.90	3.33	3.52	3.16	2.37	1.94	2.30	2.63	2.46	2.39	2.74
<i>Water-borne</i>	3.49	3.31	3.61	3.77	3.78	4.03	4.07	4.23	3.98	3.62	3.64	3.55	3.83	3.90	3.94
<b>Industrial</b>	<b>87.93</b>	<b>86.07</b>	<b>87.03</b>	<b>86.39</b>	<b>88.81</b>	<b>86.59</b>	<b>83.83</b>	<b>80.77</b>	<b>81.08</b>	<b>78.61</b>	<b>82.01</b>	<b>81.48</b>	<b>81.79</b>	<b>84.22</b>	<b>84.31</b>
<i>CHP: Industrial</i>	11.63	10.42	10.61	10.55	12.85	12.34	12.09	11.08	10.34	12.49	12.55	11.09	10.76	10.94	9.59
<i>Manufacturing</i>	27.36	26.41	28.30	24.72	25.11	24.18	24.37	22.45	23.14	20.00	21.95	23.38	24.17	24.88	25.22
<i>Mining</i>	0.86	0.31	0.31	0.34	0.36	0.34	0.11	0.16	0.19	0.14	0.15	0.15	0.17	0.16	0.16
<i>Not Specified Industrial</i>	1.59	1.47	1.55	1.44	1.47	1.47	1.48	1.54	1.47	1.34	1.36	1.28	1.19	1.38	1.45
<i>Oil &amp; Gas Extraction</i>	17.69	17.93	16.67	19.19	19.35	18.05	15.90	15.93	17.19	16.08	15.17	15.08	15.07	17.22	17.42
<i>Petroleum Refining and Hydrogen Production</i>	28.24	28.85	29.00	29.65	28.89	29.56	29.45	29.02	28.24	28.12	30.23	29.86	29.65	29.00	29.17
<i>Pipelines</i>	0.56	0.67	0.61	0.52	0.77	0.66	0.44	0.57	0.52	0.43	0.61	0.64	0.77	0.64	1.31
<b>Commercial</b>	<b>12.53</b>	<b>12.33</b>	<b>14.13</b>	<b>13.06</b>	<b>13.29</b>	<b>12.93</b>	<b>13.23</b>	<b>13.29</b>	<b>13.34</b>	<b>13.78</b>	<b>14.47</b>	<b>14.46</b>	<b>14.00</b>	<b>13.83</b>	<b>13.17</b>
<i>CHP: Commercial</i>	1.09	1.05	1.06	0.26	0.62	0.40	0.42	0.49	0.37	0.92	0.92	0.78	0.76	0.71	0.58
<i>Communication</i>	0.19	0.17	0.20	0.19	0.19	0.17	0.19	0.18	0.16	0.16	0.15	0.15	0.14	0.14	0.12
<i>Domestic Utilities</i>	0.25	0.18	0.17	0.37	0.32	0.23	0.29	0.30	0.28	0.28	0.27	0.25	0.26	0.25	0.25
<i>Education</i>	1.22	1.07	1.24	1.09	1.09	1.07	1.12	1.09	1.01	1.03	1.05	1.06	0.98	1.01	0.86
<i>Food Services</i>	1.90	1.97	2.48	2.31	2.27	2.29	2.46	2.42	2.31	2.22	2.23	2.25	2.27	2.32	2.33
<i>Health Care</i>	1.38	1.42	1.65	1.47	1.43	1.43	1.52	1.49	1.44	1.44	1.51	1.55	1.52	1.54	1.47
<i>Hotels</i>	0.63	0.67	0.78	0.69	0.67	0.68	0.74	0.75	0.73	0.70	0.73	0.74	0.73	0.74	0.73
<i>National Security</i>	0.20	0.31	0.21	0.19	0.20	0.18	0.21	0.20	0.17	0.18	0.17	0.18	0.16	0.14	0.15
<i>Not Specified Commercial</i>	3.91	3.96	4.44	4.68	4.68	4.68	4.33	4.34	4.68	4.65	5.22	5.21	4.88	4.78	4.62
<i>Offices</i>	0.77	0.55	0.66	0.67	0.70	0.68	0.72	0.63	0.69	0.67	0.68	0.69	0.55	0.54	0.50
<i>Retail &amp; Wholesale</i>	0.81	0.87	1.13	1.03	1.01	1.02	1.11	1.06	0.97	1.00	1.02	1.05	1.17	1.08	1.00
<i>Transportation Services</i>	0.18	0.13	0.13	0.11	0.10	0.09	0.12	0.34	0.51	0.51	0.53	0.56	0.57	0.58	0.58

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<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>Residential</b>	<b>29.27</b>	<b>28.36</b>	<b>28.51</b>	<b>28.03</b>	<b>29.06</b>	<b>27.89</b>	<b>28.28</b>	<b>28.41</b>	<b>28.72</b>	<b>28.36</b>	<b>29.09</b>	<b>29.54</b>	<b>27.24</b>	<b>28.02</b>	<b>23.61</b>
Household Use	29.27	28.36	28.51	28.03	29.06	27.89	28.28	28.41	28.72	28.36	29.09	29.54	27.24	28.02	23.61
<b>Agriculture &amp; Forestry</b>	<b>4.07</b>	<b>3.97</b>	<b>4.60</b>	<b>4.48</b>	<b>4.72</b>	<b>4.88</b>	<b>5.77</b>	<b>4.03</b>	<b>4.25</b>	<b>2.77</b>	<b>2.94</b>	<b>3.82</b>	<b>4.09</b>	<b>3.92</b>	<b>4.86</b>
Ag Energy Use	3.80	3.81	4.37	4.24	4.49	4.59	5.28	3.77	4.08	2.60	2.77	3.64	3.86	3.69	4.65
Ag Soil Management	0.27	0.16	0.23	0.24	0.24	0.30	0.48	0.26	0.17	0.17	0.18	0.17	0.23	0.22	0.21
<b>Not Specified</b>	<b>1.20</b>	<b>1.07</b>	<b>0.94</b>	<b>0.98</b>	<b>0.87</b>	<b>0.89</b>	<b>0.89</b>	<b>0.87</b>	<b>0.85</b>	<b>0.79</b>	<b>0.82</b>	<b>0.79</b>	<b>0.78</b>	<b>0.79</b>	<b>0.79</b>
Solvents & Chemicals	1.20	1.07	0.94	0.98	0.87	0.89	0.89	0.87	0.85	0.79	0.82	0.79	0.78	0.79	0.79
<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>
California CO2 Emissions	410.5	425.1	422.5	421.9	430.2	421.4	417.2	422.2	418.4	389.2	379.9	375.2	380.2	376.0	372.4

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<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>Transportation</b>	<b>50.57</b>	<b>43.69</b>	<b>48.61</b>	<b>42.93</b>	<b>47.00</b>	<b>50.32</b>	<b>52.81</b>	<b>55.63</b>	<b>52.18</b>	<b>51.68</b>	<b>51.04</b>	<b>46.85</b>	<b>44.07</b>	<b>46.71</b>	<b>49.33</b>
<i>Aviation</i>	34.87	32.22	34.88	33.50	35.86	35.52	36.46	38.11	34.56	33.90	33.21	33.70	32.41	34.70	37.08
<i>Water-borne</i>	15.70	11.47	13.73	9.43	11.15	14.79	16.34	17.52	17.62	17.78	17.83	13.15	11.66	12.01	12.25
<b>Military</b>	<b>3.77</b>	<b>4.32</b>	<b>4.09</b>	<b>4.12</b>	<b>3.85</b>	<b>3.38</b>	<b>3.09</b>	<b>2.90</b>	<b>2.75</b>	<b>2.68</b>	<b>3.08</b>	<b>2.66</b>	<b>3.27</b>	<b>2.87</b>	<b>3.53</b>
<i>Not Specified Military</i>	3.77	4.32	4.09	4.12	3.85	3.38	3.09	2.90	2.75	2.68	3.08	2.66	3.27	2.87	3.53
<b>Summary for 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>
International and Interstate CO2 Emissions	54.3	48.0	52.7	47.1	50.9	53.7	55.9	58.5	54.9	54.4	54.1	49.5	47.3	49.6	52.9

**California Carbon Dioxide Inventory for 2000-2014 — by Sector and Activity**

**CO2**

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

**2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014**

This section of the inventory is currently under development