

California Greenhouse Gas Inventory for 2000-2012
 — by Category as Defined in the 2008 Scoping Plan
Current ARB Inventory available at: www.arb.ca.gov/cc/inventory/inventory_current.htm

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

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Transportation	176.21	176.62	183.80	183.52	186.88	189.08	189.18	189.27	178.02	171.47	170.46	168.13	167.38
On Road	162.88	163.46	169.64	168.81	171.48	172.68	172.37	172.41	163.00	158.46	157.38	154.91	154.06
Passenger Vehicles	130.10	129.97	134.46	132.91	133.34	132.75	131.79	130.80	124.27	122.41	121.39	118.85	118.28
Heavy Duty Trucks	32.78	33.50	35.19	35.90	38.13	39.92	40.58	41.61	38.73	36.04	36.00	36.06	35.78
Ships & Commercial Boats	3.39	3.21	3.56	3.78	3.84	4.12	4.20	4.31	4.04	3.68	3.71	3.72	3.83
Aviation (Intrastate)	4.15	4.07	4.12	4.25	4.50	4.50	4.57	4.98	4.51	4.04	3.85	3.75	3.72
Rail	1.88	1.89	2.50	2.70	2.91	3.34	3.53	3.17	2.38	1.94	2.33	2.49	2.48
Off Road [1]	2.63	2.79	2.77	2.84	3.03	3.22	3.32	3.18	2.82	2.25	2.03	2.13	2.23
Unspecified	1.28	1.19	1.21	1.13	1.13	1.22	1.20	1.22	1.27	1.10	1.16	1.14	1.06
Electric Power	104.86	122.01	108.65	112.62	115.20	107.86	104.54	113.94	120.15	101.32	90.30	88.04	95.09
In-State Generation	58.96	62.99	49.69	48.06	49.16	45.06	49.86	54.13	54.32	53.28	46.71	41.18	51.02
Natural Gas	50.92	55.46	42.17	40.92	42.40	38.11	43.07	47.12	48.02	46.08	40.59	35.92	45.77
Other Fuels	6.85	6.36	6.37	5.99	5.60	5.78	5.64	5.86	5.16	5.85	5.02	4.01	4.44
Fugitive and Process Emissions	1.18	1.16	1.15	1.15	1.16	1.16	1.15	1.16	1.14	1.34	1.10	1.25	0.82
Imported Electricity	45.90	59.02	58.96	64.56	66.04	62.80	54.68	59.81	65.82	48.04	43.59	46.86	44.07
Unspecified Imports	14.27	25.42	26.92	32.05	32.92	30.01	27.95	32.73	37.92	14.99	13.45	15.52	17.48
Specified Imports	31.64	33.59	32.04	32.51	33.13	32.79	26.73	27.08	27.90	33.05	30.14	31.34	26.59
Commercial and Residential	42.33	41.20	43.17	41.54	42.90	41.24	41.89	42.11	42.44	42.65	43.82	44.32	42.28
Residential Fuel Use	29.70	28.77	28.93	28.47	29.51	28.22	28.58	28.73	29.07	28.69	29.42	29.89	28.09
Natural Gas	28.03	27.43	27.54	26.67	27.38	25.98	26.60	26.73	26.67	26.31	27.04	27.51	25.76
Other Fuels	1.67	1.34	1.39	1.80	2.12	2.25	1.98	2.01	2.40	2.38	2.39	2.38	2.33
Commercial Fuel Use	11.54	11.37	13.18	12.82	12.77	12.61	12.89	12.88	13.00	13.04	13.48	13.65	13.44
Natural Gas	10.07	10.10	11.90	11.38	11.16	10.94	11.62	11.49	11.16	11.02	11.19	11.33	11.24
Other Fuels	1.47	1.27	1.28	1.43	1.61	1.67	1.27	1.40	1.83	2.02	2.29	2.32	2.19
Commercial Cogeneration Heat Output	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
Industrial	95.01	93.16	93.14	92.47	94.48	92.29	90.28	87.10	87.54	84.95	88.51	88.34	89.16
Refineries	28.47	29.04	29.20	29.83	29.08	29.75	29.65	29.21	28.42	28.34	30.39	30.12	29.88
General Fuel Use	20.20	19.04	20.28	16.49	17.03	16.01	15.96	14.77	16.00	15.56	17.98	19.14	18.87
Natural Gas	16.82	14.62	15.18	11.97	12.80	12.72	12.38	11.56	12.37	11.46	13.46	14.48	14.30
Other Fuels	3.38	4.42	5.09	4.52	4.23	3.28	3.58	3.20	3.63	4.10	4.52	4.66	4.56
Oil & Gas Extraction [2]	18.71	19.08	17.65	20.21	19.90	18.59	16.94	17.00	18.22	17.12	16.18	16.22	16.86
Fuel Use	17.53	17.76	16.51	19.03	19.20	17.91	15.75	15.78	17.03	15.92	15.01	14.91	15.50
Fugitive Emissions	1.18	1.32	1.14	1.17	0.71	0.69	1.19	1.21	1.20	1.20	1.17	1.31	1.36
Cement Plants	9.41	9.52	9.62	9.71	9.81	9.91	9.74	9.14	8.63	5.72	5.56	6.14	6.92
Clinker Production	5.43	5.52	5.60	5.68	5.77	5.85	5.80	5.55	5.28	3.60	3.46	4.08	4.65
Fuel Use	3.98	4.00	4.01	4.03	4.05	4.06	3.95	3.59	3.34	2.12	2.10	2.06	2.26
Cogeneration Heat Output	11.73	10.48	10.65	10.60	12.92	12.41	12.17	11.16	10.40	12.55	12.60	11.14	10.82
Other Fugitive and Process Emissions	6.49	6.00	5.74	5.62	5.74	5.62	5.83	5.83	5.87	5.65	5.80	5.59	5.82

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Recycling and Waste	7.35	7.49	7.43	7.57	7.57	7.75	7.80	7.93	8.09	8.23	8.34	8.42	8.49
<i>Landfills [3]</i>	<i>7.11</i>	<i>7.23</i>	<i>7.14</i>	<i>7.26</i>	<i>7.24</i>	<i>7.40</i>	<i>7.42</i>	<i>7.53</i>	<i>7.66</i>	<i>7.78</i>	<i>7.86</i>	<i>7.92</i>	<i>7.97</i>
<i>Composting</i>	<i>0.24</i>	<i>0.26</i>	<i>0.29</i>	<i>0.31</i>	<i>0.33</i>	<i>0.36</i>	<i>0.38</i>	<i>0.40</i>	<i>0.43</i>	<i>0.45</i>	<i>0.47</i>	<i>0.50</i>	<i>0.52</i>
High GWP	8.03	7.99	8.14	8.83	9.56	10.36	11.08	11.78	12.87	13.99	15.89	17.35	18.41
<i>Ozone Depleting Substance (ODS) Substitutes</i>	<i>7.00</i>	<i>7.17</i>	<i>7.37</i>	<i>8.06</i>	<i>8.87</i>	<i>9.71</i>	<i>10.41</i>	<i>11.16</i>	<i>12.24</i>	<i>13.49</i>	<i>15.36</i>	<i>16.58</i>	<i>17.73</i>
<i>Electricity Grid SF6 Losses [4]</i>	<i>0.33</i>	<i>0.32</i>	<i>0.30</i>	<i>0.29</i>	<i>0.30</i>	<i>0.29</i>	<i>0.28</i>	<i>0.26</i>	<i>0.27</i>	<i>0.26</i>	<i>0.24</i>	<i>0.24</i>	<i>0.23</i>
<i>Semiconductor Manufacturing [3]</i>	<i>0.70</i>	<i>0.50</i>	<i>0.47</i>	<i>0.48</i>	<i>0.40</i>	<i>0.36</i>	<i>0.39</i>	<i>0.36</i>	<i>0.36</i>	<i>0.23</i>	<i>0.29</i>	<i>0.53</i>	<i>0.45</i>
Agriculture	32.52	32.75	35.99	36.50	36.26	36.54	37.75	37.03	37.99	35.84	35.73	36.34	37.86
Livestock	19.66	20.44	21.06	21.63	21.06	21.81	22.22	23.73	24.09	23.88	23.35	23.38	23.92
Enteric Fermentation (Digestive Process)	10.26	10.45	10.74	10.89	10.78	11.14	11.24	11.93	11.89	11.71	11.51	11.49	11.78
Manure Management	9.40	10.00	10.32	10.75	10.28	10.67	10.98	11.80	12.20	12.17	11.84	11.89	12.14
Crop Growing & Harvesting	9.05	8.48	10.54	10.49	10.67	10.11	10.20	9.50	9.98	9.31	9.57	9.30	10.22
Fertilizers	7.01	6.73	8.56	8.57	8.49	8.09	8.01	7.49	8.04	7.32	7.58	7.25	8.16
Soil Preparation and Disturbances	1.96	1.69	1.91	1.86	2.11	1.95	2.12	1.94	1.87	1.92	1.91	1.98	1.98
Crop Residue Burning	0.08	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08
General Fuel Use	3.82	3.83	4.39	4.38	4.53	4.63	5.33	3.80	3.92	2.65	2.81	3.66	3.72
Diesel	2.52	2.70	3.05	3.11	3.18	3.41	3.87	2.68	3.00	1.79	1.99	2.37	2.47
Natural Gas	0.98	0.75	0.94	0.85	0.82	0.70	0.88	0.79	0.75	0.69	0.65	0.66	0.70
Gasoline	0.31	0.38	0.41	0.41	0.52	0.52	0.57	0.32	0.17	0.17	0.17	0.63	0.55
Other Fuels	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Total Emissions	466.32	481.23	480.32	483.05	492.86	485.13	482.52	489.16	487.10	458.44	453.06	450.94	458.68

[1] Includes equipment used in construction, mining, oil drilling, industrial and airport ground operations

[2] Reflects emissions from combustion of natural gas, diesel, and lease fuel plus fugitive emissions

[3] These categories are listed in the Industrial sector of ARB's GHG Emission Inventory sectors

[4] This category is listed in the Electric Power sector of ARB's GHG Emission Inventory sectors