

California Greenhouse Gas Inventory for 2000-2009 — by Sector and Activity

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

Gross emissions & sinks	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Electricity Generation (In State)	60.97	64.75	51.49	49.89	50.98	46.96	51.79	55.96	56.08	56.21
<i>CHP: Commercial</i>	0.74	0.67	0.77	0.86	0.69	0.73	0.71	0.78	0.76	1.05
<i>CHP: Industrial</i>	18.49	16.78	20.33	17.86	15.38	14.88	13.93	13.87	13.70	17.03
<i>Merchant Owned</i>	33.75	39.66	24.60	24.91	28.37	24.08	27.14	30.21	29.68	27.38
<i>Transmission and Distribution</i>	0.91	0.87	0.74	0.75	0.74	0.75	0.75	0.67	0.67	0.68
<i>Utility Owned</i>	7.08	6.77	5.05	5.51	5.80	6.53	9.25	10.42	11.26	10.07
Electricity Generation (Imports)	46.23	59.39	59.37	64.94	66.42	63.18	54.99	60.13	66.18	48.40
<i>Specified Imports</i>	31.63	33.59	32.04	32.50	33.12	32.78	26.72	27.07	27.90	33.06
<i>Transmission and Distribution</i>	0.34	0.38	0.41	0.38	0.39	0.37	0.32	0.34	0.36	0.35
<i>Unspecified Imports</i>	14.27	25.42	26.92	32.05	32.90	30.02	27.96	32.72	37.92	14.99
Transportation	171.71	174.79	181.28	179.39	183.18	186.07	186.64	187.08	177.97	172.92
<i>Aviation</i>	3.84	3.64	3.92	3.77	4.27	4.74	4.90	5.13	5.09	4.99
<i>Not Specified Transportation</i>	3.41	4.08	2.94	2.88	2.90	3.11	3.00	2.56	2.36	2.38
<i>On Road</i>	159.34	162.16	168.61	166.42	169.64	171.14	171.43	172.45	164.27	160.14
<i>Rail</i>	1.86	1.87	2.48	2.83	2.89	3.32	3.50	3.15	2.56	1.94
<i>Water-borne</i>	3.27	3.04	3.33	3.49	3.48	3.75	3.81	3.78	3.69	3.48
Industrial	103.77	100.47	101.38	98.69	100.64	100.16	99.94	97.34	94.91	89.25
<i>CHP: Industrial</i>	11.96	10.60	10.71	10.68	13.00	12.52	12.27	11.23	10.50	10.22
<i>Landfills</i>	6.13	6.21	6.14	6.23	6.17	6.47	6.54	6.49	6.66	6.70
<i>Manufacturing</i>	30.76	29.57	31.05	27.41	27.70	26.97	27.38	25.46	24.74	22.57
<i>Mining</i>	0.87	0.31	0.31	0.34	0.36	0.34	0.11	0.16	0.19	0.15
<i>Not Specified Industrial</i>	1.80	1.77	1.98	1.70	1.91	2.07	2.09	2.06	2.04	1.88
<i>Oil & Gas Extraction</i>	17.60	17.03	15.86	16.82	16.48	15.35	13.98	14.60	13.95	13.40
<i>Petroleum Marketing</i>	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Petroleum Refining</i>	29.25	29.77	29.92	30.57	29.74	30.87	31.99	31.62	31.12	28.66
<i>Pipelines</i>	2.33	2.14	2.30	1.84	2.11	2.39	2.37	2.48	2.45	2.38
<i>Solid Waste Treatment</i>	0.42	0.44	0.46	0.48	0.51	0.53	0.55	0.57	0.60	0.62
<i>Wastewater Treatment</i>	2.65	2.62	2.63	2.63	2.66	2.65	2.67	2.67	2.66	2.66
Commercial	12.80	12.38	14.19	13.02	13.34	12.96	13.26	13.32	13.41	14.34
<i>CHP: Commercial</i>	1.11	1.05	1.07	0.26	0.62	0.40	0.42	0.49	0.37	0.92
<i>Communication</i>	0.20	0.17	0.20	0.19	0.19	0.17	0.19	0.18	0.17	0.17
<i>Domestic Utilities</i>	0.25	0.18	0.17	0.37	0.32	0.23	0.29	0.30	0.30	0.30
<i>Education</i>	1.25	1.07	1.24	1.09	1.09	1.07	1.12	1.09	1.01	1.07
<i>Food Services</i>	1.94	1.97	2.48	2.30	2.27	2.29	2.46	2.42	2.29	2.30
<i>Health Care</i>	1.41	1.42	1.65	1.47	1.43	1.43	1.51	1.49	1.44	1.50
<i>Hotels</i>	0.65	0.67	0.78	0.69	0.67	0.68	0.74	0.75	0.84	0.73
<i>National Security</i>	0.21	0.31	0.21	0.19	0.20	0.18	0.21	0.20	0.17	0.18

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Gross emissions & sinks	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Not Specified Commercial	4.00	4.00	4.49	4.64	4.73	4.71	4.36	4.38	4.64	4.91
Offices	0.78	0.55	0.66	0.67	0.70	0.68	0.72	0.63	0.70	0.70
Retail & Wholesale	0.83	0.87	1.13	1.03	1.01	1.02	1.11	1.06	0.96	1.04
Transportation Services	0.18	0.13	0.13	0.11	0.10	0.09	0.12	0.34	0.51	0.52
Residential	30.12	28.61	28.77	28.31	29.34	28.08	28.40	28.60	28.13	28.61
Household Use	30.12	28.61	28.77	28.31	29.34	28.08	28.40	28.60	28.13	28.61
Agriculture & Forestry	29.13	29.29	32.45	30.85	32.53	32.80	33.94	33.10	33.87	32.32
Ag Energy Use	3.82	3.81	4.37	4.35	4.50	4.60	5.30	3.78	3.87	2.65
Ag Residue Burning	0.08	0.06	0.06	0.06	0.06	0.07	0.06	0.07	0.07	0.07
Ag Soil Management	7.90	7.49	9.50	9.30	9.43	9.06	9.16	8.62	9.15	9.03
Enteric Fermentation	8.24	8.40	8.65	8.32	8.68	8.97	9.05	9.47	9.45	9.30
Forest and Range Management	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Histosol Cultivation	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Manure Management	8.18	8.69	8.98	7.95	8.90	9.22	9.47	10.26	10.45	10.35
Rice Cultivation	0.57	0.49	0.55	0.53	0.61	0.55	0.54	0.55	0.54	0.58
Not Specified	8.91	9.57	10.25	11.04	11.74	12.34	12.93	13.30	14.18	14.72
Not Specified Not Specified	8.55	9.25	10.02	10.77	11.53	12.14	12.71	13.08	13.95	14.51
Solvents & Chemicals	0.36	0.32	0.23	0.27	0.21	0.20	0.22	0.22	0.23	0.21
Summary for Gross emissions & sinks	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Gross California Emissions	463.65	479.25	479.18	476.14	488.16	482.54	481.89	488.83	484.72	456.77
Sinks from Forests and Rangelands	-4.49	-4.30	-4.16	-4.16	-4.16	-4.03	-3.87	-3.94	-3.84	-3.80
Net California Emissions	459.17	474.95	475.02	471.98	484.00	478.52	478.02	484.89	480.88	452.97

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Excluded Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Transportation	46.02	40.97	45.26	37.56	41.39	46.45	47.58	51.28	48.71	50.90
<i>Aviation</i>	28.93	28.30	30.19	27.47	28.96	30.13	29.63	31.89	28.96	30.98
<i>Water-borne</i>	17.09	12.68	15.08	10.10	12.43	16.32	17.94	19.39	19.75	19.91
Military	2.94	3.41	3.29	3.32	3.44	2.61	2.36	2.35	2.31	2.11
<i>Not Specified Military</i>	2.94	3.41	3.29	3.32	3.44	2.61	2.36	2.35	2.31	2.11
Summary for Excluded Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
International and Interstate Emissions	48.96	44.38	48.55	40.89	44.83	49.06	49.93	53.63	51.02	53.00

Archive

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CO2 from biogenic materials	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Electricity Generation (In State)	8.19	8.35	8.48	8.73	8.10	8.16	8.39	7.97	8.03	9.93
<i>CHP: Commercial</i>	0.27	0.10	0.16	0.31	0.31	0.37	0.35	0.31	0.31	0.11
<i>CHP: Industrial</i>	1.74	2.39	1.70	1.83	1.38	1.27	1.26	1.26	1.12	1.83
<i>Merchant Owned</i>	6.06	5.65	6.38	6.26	6.14	6.18	6.44	6.05	6.25	7.46
<i>Utility Owned</i>	0.13	0.21	0.24	0.33	0.27	0.34	0.35	0.35	0.35	0.53
Industrial	10.50	11.02	9.22	9.14	9.76	10.66	10.67	10.65	10.49	9.39
<i>CHP: Industrial</i>	1.30	1.03	0.61	0.62	1.14	1.50	1.53	1.52	1.48	0.43
<i>Landfills</i>	5.42	5.73	5.97	5.96	6.02	6.31	6.53	6.47	6.63	6.73
<i>Manufacturing</i>	0.06	0.06	0.07	0.07	0.07	0.08	0.05	0.06	0.06	0.07
<i>Not Specified Industrial</i>	3.72	4.19	2.57	2.50	2.53	2.78	2.56	2.61	2.32	2.16
<i>Petroleum Refining</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Commercial	0.62	0.60	0.62	0.64	0.66	0.49	0.48	0.52	0.52	0.51
<i>CHP: Commercial</i>	0.04	0.02	0.02	0.02	0.05	0.10	0.12	0.14	0.12	0.11
<i>Not Specified Commercial</i>	0.58	0.59	0.60	0.63	0.61	0.39	0.36	0.38	0.41	0.40
Residential	3.55	3.33	3.38	3.56	3.65	2.43	2.21	2.44	2.55	2.44
<i>Household Use</i>	3.55	3.33	3.38	3.56	3.65	2.43	2.21	2.44	2.55	2.44
Agriculture & Forestry	1.39	1.16	1.16	1.20	1.18	1.26	1.17	1.32	1.32	1.38
<i>Ag Residue Burning</i>	1.39	1.16	1.16	1.20	1.18	1.26	1.17	1.32	1.32	1.38
Summary for CO2 from biogenic materials	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Carbon dioxide from Biogenic sources	24.25	24.47	22.86	23.27	23.37	22.99	22.91	22.90	22.92	23.64