

California Greenhouse Gas Inventory for 2000-2008 — Summary by Economic Sector

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
Electricity Generation (In State)	60.76	64.67	51.57	49.77	58.09	52.45	56.99	55.80	55.74
<i>CHP: Commercial</i>	0.74	0.68	0.71	0.82	0.85	0.98	0.96	0.78	0.76
<i>CHP: Industrial</i>	18.38	16.84	20.55	17.73	22.27	20.14	18.93	13.64	13.47
<i>Merchant Owned</i>	33.73	39.59	24.56	25.01	28.49	24.11	27.19	30.32	29.65
<i>Transmission and Distribution</i>	0.83	0.80	0.69	0.70	0.69	0.69	0.70	0.64	0.62
<i>Utility Owned</i>	7.08	6.74	5.05	5.51	5.79	6.52	9.20	10.42	11.23
Electricity Generation (Imports)	44.31	57.11	56.00	61.17	62.92	59.57	51.68	56.27	61.58
<i>Specified Imports</i>	30.16	32.07	30.19	30.60	31.24	30.78	24.98	25.37	26.05
<i>Transmission and Distribution</i>	0.32	0.35	0.38	0.36	0.37	0.35	0.30	0.32	0.34
<i>Unspecified Imports</i>	13.83	24.69	25.42	30.21	31.32	28.44	26.40	30.57	35.19
Transportation	171.13	173.71	180.36	178.03	181.71	184.32	184.11	183.84	174.99
<i>Aviation</i>	2.68	2.50	2.66	2.59	2.64	2.70	2.68	2.96	2.42
<i>Not Specified Transportation</i>	3.41	4.08	2.94	2.81	2.90	3.11	3.00	2.56	2.44
<i>On Road</i>	159.40	161.69	168.40	166.17	169.22	170.82	170.49	170.79	163.30
<i>Rail</i>	1.86	1.87	2.48	2.41	2.89	3.32	3.50	3.15	2.52
<i>Water-borne</i>	3.77	3.56	3.87	4.04	4.06	4.36	4.45	4.38	4.32
Industrial	104.56	101.71	103.57	103.08	97.76	97.90	97.80	101.06	100.03
<i>CHP: Industrial</i>	11.96	10.69	10.84	10.79	6.19	6.91	6.90	11.22	10.47
<i>Landfills</i>	6.20	6.28	6.21	6.29	6.23	6.52	6.59	6.53	6.71
<i>Manufacturing</i>	27.18	26.42	28.12	25.21	24.96	23.72	24.46	23.22	22.47
<i>Mining</i>	0.87	0.31	0.32	0.34	0.36	0.34	0.11	0.16	0.19
<i>Not Specified Industrial</i>	1.81	1.79	2.00	1.73	1.94	2.10	2.20	2.21	2.24
<i>Oil & Gas Extraction</i>	18.41	18.45	17.37	19.51	19.31	18.01	16.48	16.52	17.04
<i>Petroleum Marketing</i>	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Petroleum Refining</i>	33.19	33.02	33.81	34.74	34.00	35.24	36.03	36.01	35.60
<i>Pipelines</i>	2.33	2.14	2.29	1.84	2.11	2.39	2.33	2.48	2.62
<i>Wastewater Treatment</i>	2.61	2.60	2.61	2.62	2.66	2.67	2.69	2.70	2.70
Commercial	12.80	12.40	14.44	13.07	13.20	12.71	13.01	13.22	14.69
<i>CHP: Commercial</i>	1.11	1.07	1.08	0.26	0.49	0.15	0.17	0.49	0.37
<i>Communication</i>	0.20	0.17	0.21	0.19	0.19	0.17	0.19	0.18	0.17
<i>Domestic Utilities</i>	0.25	0.18	0.17	0.37	0.32	0.23	0.18	0.19	0.19
<i>Education</i>	1.25	1.07	1.26	1.09	1.09	1.07	1.12	1.09	0.98
<i>Food Services</i>	1.94	1.97	2.53	2.31	2.27	2.29	2.46	2.42	2.33
<i>Health Care</i>	1.41	1.42	1.69	1.47	1.43	1.43	1.52	1.49	1.50
<i>Hotels</i>	0.65	0.67	0.79	0.69	0.67	0.68	0.74	0.75	1.88
<i>National Security</i>	0.21	0.31	0.21	0.19	0.20	0.18	0.21	0.20	0.26
<i>Not Specified Commercial</i>	4.00	4.00	4.55	4.68	4.73	4.71	4.44	4.34	4.72

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Offices	0.78	0.55	0.67	0.67	0.70	0.68	0.74	0.62	0.77
Retail & Wholesale	0.83	0.87	1.15	1.03	1.01	1.02	1.11	1.11	0.92
Transportation Services	0.18	0.13	0.13	0.11	0.10	0.09	0.12	0.34	0.58
Residential	30.13	28.62	29.35	28.31	29.34	28.08	28.46	28.61	28.45
Household Use	30.13	28.62	29.35	28.31	29.34	28.08	28.46	28.61	28.45
Agriculture & Forestry	25.63	25.56	28.61	28.68	29.01	29.18	30.08	28.45	28.25
Ag Energy Use	3.82	3.81	4.39	4.20	4.50	4.60	5.19	3.78	3.82
Ag Residue Burning	0.09	0.07	0.07	0.08	0.07	0.08	0.08	0.09	0.09
Ag Soil Management	7.20	6.74	8.69	8.65	8.66	8.25	8.30	7.73	7.17
Enteric Fermentation	7.49	7.64	7.86	7.97	7.97	8.26	8.33	8.52	8.70
Forest and Range Management	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
Manure Management	6.12	6.47	6.70	6.91	6.84	7.10	7.30	7.44	7.58
Rice Cultivation	0.57	0.49	0.55	0.53	0.62	0.55	0.55	0.55	0.54
Not Specified	8.72	9.46	10.26	11.05	11.85	12.53	13.18	13.60	14.02
Not Specified Not Specified	8.55	9.30	10.12	10.92	11.74	12.41	13.05	13.47	13.89
Solvents & Chemicals	0.17	0.16	0.14	0.13	0.12	0.12	0.13	0.13	0.13
Summary for Gross emissions & sinks	2000	2001	2002	2003	2004	2005	2006	2007	2008
Gross California Emissions	458.03	473.23	474.15	473.15	483.88	476.73	475.31	480.85	477.74
Sinks from Forests and Rangelands	-4.72	-4.53	-4.40	-4.33	-4.32	-4.17	-4.04	-4.07	-3.98
Net California Emissions	453.31	468.69	469.75	468.82	479.56	472.56	471.27	476.77	473.76

California Greenhouse Gas Inventory for 2000-2008 — Summary by Economic Sector*million tonnes of CO2 equivalent - (based upon IPCC Second Assessment Report's Global Warming Potentials)*

Excluded Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008
Transportation	42.90	38.26	42.40	35.34	38.80	42.96	44.08	47.68	43.20
<i>Aviation</i>	28.94	28.15	30.02	27.43	28.90	30.29	29.77	31.74	29.65
<i>Water-borne</i>	13.96	10.11	12.38	7.91	9.90	12.67	14.31	15.94	13.55
Military	2.85	3.47	3.37	3.25	3.44	2.51	2.26	2.22	2.03
<i>Not Specified Military</i>	2.85	3.47	3.37	3.25	3.44	2.51	2.26	2.22	2.03
Summary for Excluded Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008
International and Interstate Emissions	45.74	41.73	45.77	38.59	42.24	45.46	46.34	49.90	45.23

Archive

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CO2 from biogenic materials	2000	2001	2002	2003	2004	2005	2006	2007	2008
Electricity Generation (In State)	8.19	8.35	10.70	8.73	7.92	8.14	8.94	7.98	7.80
<i>CHP: Commercial</i>	0.27	0.10	0.16	0.31	0.31	0.40	0.40	0.31	0.31
<i>CHP: Industrial</i>	1.74	2.39	1.70	1.58	0.96	0.99	1.49	1.02	0.89
<i>Merchant Owned</i>	6.06	5.65	6.38	6.51	6.37	6.41	6.69	6.30	6.25
<i>Utility Owned</i>	0.13	0.21	2.46	0.33	0.27	0.34	0.35	0.35	0.35
Industrial	10.51	11.04	9.24	9.16	9.97	10.72	10.48	10.94	11.11
<i>CHP: Industrial</i>	1.30	1.03	0.61	0.62	1.34	1.55	1.03	1.50	1.43
<i>Landfills</i>	5.46	5.77	6.01	6.00	6.06	6.34	6.56	6.49	6.65
<i>Manufacturing</i>	0.04	0.04	0.04	0.05	0.05	0.06	0.04	0.05	0.07
<i>Not Specified Industrial</i>	3.72	4.19	2.57	2.50	2.53	2.78	2.85	2.90	2.96
Commercial	0.62	0.60	0.62	0.64	0.66	0.46	0.43	0.52	0.52
<i>CHP: Commercial</i>	0.04	0.02	0.02	0.02	0.04	0.07	0.07	0.14	0.12
<i>Not Specified Commercial</i>	0.58	0.59	0.60	0.63	0.61	0.39	0.36	0.38	0.40
Residential	3.55	3.33	3.38	3.56	3.65	2.43	2.21	2.44	2.66
<i>Household Use</i>	3.55	3.33	3.38	3.56	3.65	2.43	2.21	2.44	2.66
Agriculture & Forestry	1.62	1.36	1.37	1.42	1.40	1.51	1.46	1.62	1.69
<i>Ag Residue Burning</i>	1.62	1.36	1.37	1.42	1.40	1.51	1.46	1.62	1.69
Summary for CO2 from biogenic materials	2000	2001	2002	2003	2004	2005	2006	2007	2008
Carbon dioxide from Biogenic sources	24.50	24.68	25.31	23.51	23.60	23.26	23.52	23.50	23.78