

California Methane Inventory for 2000-2014 — by Sector and Activity

Methane

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
Electricity Generation (In State)	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.10	0.09	0.17	0.08	0.22	0.22
<i>CHP: Commercial</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>CHP: Industrial</i>	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02
<i>Merchant Owned</i>	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.14	0.05	0.15	0.15
<i>Utility Owned</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05
Electricity Generation (Imports)	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02
<i>Specified Imports</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.03	0.02
<i>Unspecified Imports</i>	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Transportation	0.58	0.52	0.48	0.44	0.53	0.46	0.42	0.38	0.33	0.31	0.29	0.26	0.24	0.23	0.21
<i>Aviation</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
<i>Not Specified Transportation</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Off Road</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>On Road</i>	0.57	0.51	0.46	0.42	0.52	0.45	0.40	0.36	0.32	0.29	0.27	0.25	0.23	0.21	0.19
<i>Rail</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Water-borne</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial	14.32	14.53	15.04	14.56	14.64	14.84	15.20	15.13	15.50	15.72	15.66	15.84	15.69	15.74	15.98
<i>CHP: Industrial</i>	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.02
<i>Landfills</i>	7.21	7.36	7.31	7.42	7.41	7.59	7.65	7.71	7.88	8.02	8.11	8.19	8.20	8.22	8.28
<i>Manufacturing</i>	0.15	0.17	0.13	0.13	0.12	0.13	0.12	0.11	0.11	0.10	0.10	0.11	0.11	0.07	0.07
<i>Mining</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Not Specified Industrial</i>	0.04	0.05	0.03	0.03	0.05	0.05	0.12	0.04	0.11	0.11	0.12	0.12	0.12	0.15	0.15
<i>Oil & Gas Extraction</i>	1.70	1.70	1.68	1.64	1.62	1.58	1.58	1.62	1.63	1.64	1.65	1.68	1.75	1.82	1.82
<i>Petroleum Marketing</i>	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.03	0.03	0.00	0.00
<i>Petroleum Refining and Hydrogen Production</i>	0.13	0.10	0.10	0.09	0.08	0.09	0.09	0.09	0.08	0.10	0.08	0.11	0.09	0.08	0.08
<i>Pipelines</i>	3.60	3.67	4.30	3.76	3.85	3.87	4.10	4.00	4.13	4.20	4.04	4.03	3.83	3.81	3.99
<i>Solid Waste Treatment</i>	0.19	0.21	0.23	0.25	0.26	0.28	0.30	0.32	0.34	0.36	0.38	0.39	0.41	0.43	0.45
<i>Wastewater Treatment</i>	1.26	1.24	1.25	1.22	1.21	1.21	1.20	1.21	1.19	1.16	1.16	1.15	1.13	1.13	1.11
Commercial	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<i>CHP: Commercial</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Communication</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Domestic Utilities</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Education</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Food Services</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Health Care</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Hotels</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>National Security</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Not Specified Commercial</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<i>Offices</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

California Methane Inventory for 2000-2014 — by Sector and Activity

Methanemillion 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
Retail & Wholesale	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Transportation Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Residential	0.04	0.04	0.04	0.04	0.05	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05
Household Use	0.04	0.04	0.04	0.04	0.05	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05
Agriculture & Forestry	19.46	19.53	20.85	21.19	20.67	21.13	21.42	23.74	23.75	23.15	23.74	23.64	24.18	23.26	23.30
Ag Energy Use	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ag Residue Burning	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Enteric Fermentation	10.36	10.25	10.91	11.00	10.77	11.08	11.13	12.31	12.04	11.65	12.13	11.98	12.10	11.78	11.85
Manure Management	7.88	8.23	8.76	9.06	8.60	8.89	9.13	10.25	10.56	10.26	10.38	10.38	10.84	10.23	10.46
Rice Cultivation	1.19	1.02	1.15	1.10	1.28	1.14	1.13	1.15	1.12	1.20	1.20	1.26	1.22	1.22	0.96
Summary for Included Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
California CH ₄ Emissions	34.5	34.8	36.5	36.4	36.0	36.6	37.2	39.4	39.7	39.3	39.9	40.0	40.3	39.5	39.8

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Excluded Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Transportation	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<i>Aviation</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>
<i>Water-borne</i>	<i>0.02</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.02</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>	<i>0.01</i>
Industrial	0.41	0.54	0.55	0.55	0.10	0.10	0.59	0.62	0.62	0.62	0.62	0.60	0.60	0.60	0.60
<i>Oil & Gas Extraction</i>	<i>0.41</i>	<i>0.54</i>	<i>0.55</i>	<i>0.55</i>	<i>0.10</i>	<i>0.10</i>	<i>0.59</i>	<i>0.62</i>	<i>0.62</i>	<i>0.62</i>	<i>0.62</i>	<i>0.60</i>	<i>0.60</i>	<i>0.60</i>	<i>0.60</i>
Military	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Not Specified Military</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>
Summary for Excluded Emissions	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
International and Interstate CH4 Emissions	0.4	0.6	0.6	0.6	0.1	0.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

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

This section of the inventory is currently under development