

# CARMA Global State/Province Ranking by Carbon Dioxide Emissions for Year 2009

Source: Carbon Monitoring for Action (CARMA) Database ([www.carma.org](http://www.carma.org))

Date created: July 11, 2012

Rank	State/Province	Country	metric tons CO2	net MWh	kg CO2 per MWh	% Fossil Fuels	% Hydroelectric	% Nuclear	% Renewables	URL
1	Shanxi Sheng	China	254,930,000	264,090,000	965	94	5.92	0	0.11	<a href="http://carma.org/region/detail/1795912">http://carma.org/region/detail/1795912</a>
2	Jiangsu Sheng	China	252,020,000	259,400,000	972	93.6	0.61	5.12	0.62	<a href="http://carma.org/region/detail/1806260">http://carma.org/region/detail/1806260</a>
3	Hebei	China	251,960,000	377,870,000	667	64.8	34.4	0	0.77	<a href="http://carma.org/region/detail/1808773">http://carma.org/region/detail/1808773</a>
4	Texas	United States	245,410,000	395,220,000	621	83.9	0.26	10.5	5.34	<a href="http://carma.org/region/detail/4736286">http://carma.org/region/detail/4736286</a>
5	Inner Mongolia	China	241,400,000	235,240,000	1,030	95.8	0.31	0	3.88	<a href="http://carma.org/region/detail/2035607">http://carma.org/region/detail/2035607</a>
6	Shandong Sheng	China	232,290,000	223,610,000	1,040	98.3	0.77	0	0.89	<a href="http://carma.org/region/detail/1796328">http://carma.org/region/detail/1796328</a>
7	Henan Sheng	China	221,410,000	227,410,000	974	94	5.83	0	0.12	<a href="http://carma.org/region/detail/1808520">http://carma.org/region/detail/1808520</a>
8	Guangdong Sheng	China	182,440,000	246,030,000	742	75.4	11.9	12.2	0.41	<a href="http://carma.org/region/detail/1809935">http://carma.org/region/detail/1809935</a>
9	Zhejiang Sheng	China	155,700,000	215,470,000	723	74.9	14.7	10.4	0.04	<a href="http://carma.org/region/detail/1784764">http://carma.org/region/detail/1784764</a>
10	Mpumalanga	South Africa	150,770,000	145,590,000	1,040	100	0.01	0	0.03	<a href="http://carma.org/region/detail/1085595">http://carma.org/region/detail/1085595</a>
11	England	United Kingdom	143,920,000	276,810,000	520	81.1	0.01	15.2	3.71	<a href="http://carma.org/region/detail/6269131">http://carma.org/region/detail/6269131</a>
12	North Rhine-Westphalia	Germany	121,960,000	138,490,000	881	95	0.93	0	4.08	<a href="http://carma.org/region/detail/2861876">http://carma.org/region/detail/2861876</a>
13	Pennsylvania	United States	119,730,000	218,250,000	549	61.8	1.23	35.4	1.55	<a href="http://carma.org/region/detail/6254927">http://carma.org/region/detail/6254927</a>
14	Florida	United States	119,350,000	193,830,000	616	85.1	0.11	12.6	2.2	<a href="http://carma.org/region/detail/4155751">http://carma.org/region/detail/4155751</a>
15	Ohio	United States	118,350,000	135,540,000	873	87.9	0.39	11.2	0.48	<a href="http://carma.org/region/detail/5165418">http://carma.org/region/detail/5165418</a>
16	Anhui Sheng	China	116,740,000	129,100,000	904	95	4.92	0	0.11	<a href="http://carma.org/region/detail/1818058">http://carma.org/region/detail/1818058</a>
17	Indiana	United States	115,740,000	116,120,000	997	97.9	0.43	0	1.63	<a href="http://carma.org/region/detail/4921868">http://carma.org/region/detail/4921868</a>
18	Taiwan	Taiwan (China)	105,770,000	148,620,000	712	86.8	2.46	9.82	0.9	<a href="http://carma.org/region/detail/7280291">http://carma.org/region/detail/7280291</a>
19	Illinois	United States	100,020,000	193,390,000	517	48.8	0.07	49.4	1.8	<a href="http://carma.org/region/detail/4896861">http://carma.org/region/detail/4896861</a>
20	Liaoning	China	98,301,000	105,660,000	930	89.5	8.64	0	1.88	<a href="http://carma.org/region/detail/2036115">http://carma.org/region/detail/2036115</a>
21	South Chungcheong	South Korea	95,745,000	89,783,000	1,070	100	0.02	0	0	<a href="http://carma.org/region/detail/1845105">http://carma.org/region/detail/1845105</a>
22	Kentucky	United States	91,036,000	90,163,000	1,010	95.9	3.68	0	0.4	<a href="http://carma.org/region/detail/6254925">http://carma.org/region/detail/6254925</a>
23	Guizhou Sheng	China	87,422,000	111,180,000	786	72.6	27.4	0	0	<a href="http://carma.org/region/detail/1809445">http://carma.org/region/detail/1809445</a>
24	Uttar Pradesh	India	84,329,000	89,152,000	946	98	0.93	0.62	0.42	<a href="http://carma.org/region/detail/1253626">http://carma.org/region/detail/1253626</a>
25	New South Wales	Australia	83,313,000	84,783,000	983	93.1	5.68	0	1.26	<a href="http://carma.org/region/detail/2155400">http://carma.org/region/detail/2155400</a>
26	Missouri	United States	78,726,000	87,907,000	896	85	2.71	11.7	0.61	<a href="http://carma.org/region/detail/4398678">http://carma.org/region/detail/4398678</a>
27	Georgia	United States	78,493,000	128,050,000	613	70.1	3.1	24.7	2.06	<a href="http://carma.org/region/detail/4197000">http://carma.org/region/detail/4197000</a>
28	Michigan	United States	73,609,000	101,380,000	726	74.3	1.34	21.6	2.78	<a href="http://carma.org/region/detail/5001836">http://carma.org/region/detail/5001836</a>
29	Alabama	United States	71,609,000	136,120,000	526	58.7	9.21	29.2	2.95	<a href="http://carma.org/region/detail/4829764">http://carma.org/region/detail/4829764</a>
30	Heilongjiang Sheng	China	71,159,000	69,458,000	1,020	92.2	5.52	0	2.28	<a href="http://carma.org/region/detail/2036965">http://carma.org/region/detail/2036965</a>
31	State of Mahārāshtra	India	70,071,000	84,431,000	830	77.2	8.38	8.13	6.25	<a href="http://carma.org/region/detail/1264418">http://carma.org/region/detail/1264418</a>
32	West Virginia	United States	69,047,000	70,540,000	979	96.6	2.33	0	1.05	<a href="http://carma.org/region/detail/4826850">http://carma.org/region/detail/4826850</a>
33	North Carolina	United States	66,156,000	117,820,000	562	59.3	4.43	34.7	1.57	<a href="http://carma.org/region/detail/4482348">http://carma.org/region/detail/4482348</a>
34	Fujian	China	65,945,000	104,580,000	631	66.1	32.8	0	1.02	<a href="http://carma.org/region/detail/1811017">http://carma.org/region/detail/1811017</a>
35	State of Andhra Pradesh	India	65,873,000	81,866,000	805	91.7	7.51	0	0.82	<a href="http://carma.org/region/detail/1278629">http://carma.org/region/detail/1278629</a>
36	Shanghai Shi	China	65,412,000	66,428,000	985	99.8	0	0	0.19	<a href="http://carma.org/region/detail/1796231">http://carma.org/region/detail/1796231</a>
37	Moskovskaya	Russia	61,782,000	76,962,000	803	96.5	3.5	0	0.01	<a href="http://carma.org/region/detail/524925">http://carma.org/region/detail/524925</a>
38	State of Chhattīsgarh	India	61,058,000	58,602,000	1,040	99.2	0.58	0	0.19	<a href="http://carma.org/region/detail/1444364">http://carma.org/region/detail/1444364</a>
39	State of Orissa	India	61,023,000	59,955,000	1,020	91.2	8.76	0	0	<a href="http://carma.org/region/detail/1261029">http://carma.org/region/detail/1261029</a>
40	State of Gujarāt	India	59,931,000	79,902,000	750	92.1	3.73	0.98	3.18	<a href="http://carma.org/region/detail/1270770">http://carma.org/region/detail/1270770</a>

Notes: Data are a mix of publicly-disclosed information and statistical model estimates. Totals are aggregate of all power plants located within the state or province and reflect the production (not consumption) of electricity.

'% Fossil Fuels', '% Hydroelectric', '% Nuclear', and '% Renewables' report the approximate share of total electricity generation attributable to each. Totals may not sum due to rounding. Visit [www.carma.org](http://www.carma.org) for more details.

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9	Shandong Sheng	China	232,290,000	223,610,000	1,040	98.3	0.77	0	0.89	<a href="http://carma.org/region/detail/1796328">http://carma.org/region/detail/1796328</a>
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12	California	United States	55,361,000	204,020,000	271	58	14	15.6	12.4	<a href="http://carma.org/region/detail/5332921">http://carma.org/region/detail/5332921</a>
13	Florida	United States	119,350,000	193,830,000	616	85.1	0.11	12.6	2.2	<a href="http://carma.org/region/detail/4155751">http://carma.org/region/detail/4155751</a>
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15	Quebec	Canada	934,310	169,770,000	5.5	0.73	96.2	2.13	0.97	<a href="http://carma.org/region/detail/6115047">http://carma.org/region/detail/6115047</a>
16	Ontario	Canada	18,621,000	167,600,000	111	17.3	32.6	48.6	1.5	<a href="http://carma.org/region/detail/6093943">http://carma.org/region/detail/6093943</a>
17	Taiwan	Taiwan (China)	105,770,000	148,620,000	712	86.8	2.46	9.82	0.9	<a href="http://carma.org/region/detail/7280291">http://carma.org/region/detail/7280291</a>
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22	Sichuan Sheng	China	55,117,000	132,050,000	417	40.6	59.4	0	0	<a href="http://carma.org/region/detail/1794299">http://carma.org/region/detail/1794299</a>
23	Estado do Parana	Brazil	660,160	130,720,000	5.05	1.02	97.6	0	1.36	<a href="http://carma.org/region/detail/3455077">http://carma.org/region/detail/3455077</a>
24	New York	United States	37,174,000	130,080,000	286	42	21.2	33.4	3.36	<a href="http://carma.org/region/detail/5128638">http://carma.org/region/detail/5128638</a>
25	Anhui Sheng	China	116,740,000	129,100,000	904	95	4.92	0	0.11	<a href="http://carma.org/region/detail/1818058">http://carma.org/region/detail/1818058</a>
26	Georgia	United States	78,493,000	128,050,000	613	70.1	3.1	24.7	2.06	<a href="http://carma.org/region/detail/4197000">http://carma.org/region/detail/4197000</a>
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29	Arizona	United States	57,037,000	111,630,000	511	66.4	5.91	27.5	0.17	<a href="http://carma.org/region/detail/5551752">http://carma.org/region/detail/5551752</a>
30	Guizhou Sheng	China	87,422,000	111,180,000	786	72.6	27.4	0	0	<a href="http://carma.org/region/detail/1809445">http://carma.org/region/detail/1809445</a>
31	Rhône-Alpes	France	1,614,300	110,760,000	14.6	2.04	21	76.7	0.23	<a href="http://carma.org/region/detail/2983751">http://carma.org/region/detail/2983751</a>
32	Liaoning	China	98,301,000	105,660,000	930	89.5	8.64	0	1.88	<a href="http://carma.org/region/detail/2036115">http://carma.org/region/detail/2036115</a>
33	Fujian	China	65,945,000	104,580,000	631	66.1	32.8	0	1.02	<a href="http://carma.org/region/detail/1811017">http://carma.org/region/detail/1811017</a>
34	Washington	United States	13,535,000	103,850,000	130	18.5	70.3	6.39	4.86	<a href="http://carma.org/region/detail/5815135">http://carma.org/region/detail/5815135</a>
35	Fukushima-ken	Japan	31,544,000	103,460,000	305	35.8	3.46	60.2	0.53	<a href="http://carma.org/region/detail/2112922">http://carma.org/region/detail/2112922</a>
36	Yunnan	China	45,427,000	102,350,000	444	45.4	54.4	0	0.2	<a href="http://carma.org/region/detail/1785694">http://carma.org/region/detail/1785694</a>
37	Michigan	United States	73,609,000	101,380,000	726	74.3	1.34	21.6	2.78	<a href="http://carma.org/region/detail/5001836">http://carma.org/region/detail/5001836</a>
38	Hunan	China	59,712,000	99,532,000	600	60	39.8	0	0.2	<a href="http://carma.org/region/detail/1806691">http://carma.org/region/detail/1806691</a>
39	South Carolina	United States	38,657,000	98,928,000	391	43.4	2.14	52.7	1.76	<a href="http://carma.org/region/detail/4597040">http://carma.org/region/detail/4597040</a>
40	Bavaria	Germany	12,772,000	97,878,000	130	20	5.48	71.8	2.68	<a href="http://carma.org/region/detail/2951839">http://carma.org/region/detail/2951839</a>

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