

CARMA Global State/Province Ranking by Change in CO2 Emissions (2004 to 2009)

Source: Carbon Monitoring for Action (CARMA) Database (www.carma.org)

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Rank	State/Province	Province_country	net MWh (2004)	net MWh (2009)	metric tons CO2 (2004)	metric tons CO2 (2009)	kg CO2 per MWh (2004)	kg CO2 per MWh (2009)	Increase in CO2 emissions (2004-2009)	URL
1	Inner Mongolia	China	93,542,000	235,240,000	103,740,000	241,400,000	1,110	1,030	137,660,000	http://carma.org/region/detail/2035607
2	Henan Sheng	China	108,580,000	227,410,000	111,420,000	221,410,000	1,030	974	109,990,000	http://carma.org/region/detail/1808520
3	Jiangsu Sheng	China	130,830,000	259,400,000	149,450,000	252,020,000	1,140	972	102,570,000	http://carma.org/region/detail/1806260
4	Shanxi Sheng	China	152,960,000	264,090,000	156,730,000	254,930,000	1,020	965	98,200,000	http://carma.org/region/detail/1795912
5	Zhejiang Sheng	China	115,100,000	215,470,000	77,380,000	155,700,000	672	723	78,320,000	http://carma.org/region/detail/1784764
6	Shandong Sheng	China	142,300,000	223,610,000	155,420,000	232,290,000	1,090	1,040	76,870,000	http://carma.org/region/detail/1796328
7	Anhui Sheng	China	54,973,000	129,100,000	57,067,000	116,740,000	1,040	904	59,673,000	http://carma.org/region/detail/1818058
8	Hebei	China	240,360,000	377,870,000	207,400,000	251,960,000	863	667	44,560,000	http://carma.org/region/detail/1808773
9	South Chungcheong	South Korea	54,289,000	89,783,000	56,028,000	95,745,000	1,030	1,070	39,717,000	http://carma.org/region/detail/1845105
10	Guizhou Sheng	China	63,483,000	111,180,000	53,808,000	87,422,000	848	786	33,614,000	http://carma.org/region/detail/1809445
11	State of Chhattisgarh	India	23,955,000	58,602,000	27,954,000	61,058,000	1,170	1,040	33,104,000	http://carma.org/region/detail/1444364
12	Guangdong Sheng	China	184,700,000	246,030,000	151,250,000	182,440,000	819	742	31,190,000	http://carma.org/region/detail/1809935
13	State of Orissa	India	35,889,000	59,955,000	31,357,000	61,023,000	874	1,020	29,666,000	http://carma.org/region/detail/1261029
14	Sichuan Sheng	China	63,379,000	132,050,000	28,199,000	55,117,000	445	417	26,918,000	http://carma.org/region/detail/1794299
15	Fujian	China	62,931,000	104,580,000	40,882,000	65,945,000	650	631	25,063,000	http://carma.org/region/detail/1811017
16	Guangxi Zhuangzu Zizhiqu	China	31,575,000	82,358,000	19,490,000	43,828,000	617	532	24,338,000	http://carma.org/region/detail/1809867
17	Gansu Sheng	China	44,256,000	80,630,000	34,027,000	55,782,000	769	692	21,755,000	http://carma.org/region/detail/1810676
18	Yunnan	China	41,102,000	102,350,000	25,811,000	45,427,000	628	444	19,616,000	http://carma.org/region/detail/1785694
19	Mpumalanga	South Africa	132,320,000	145,590,000	131,690,000	150,770,000	995	1,040	19,080,000	http://carma.org/region/detail/1085595
20	Ningxia Huizu Zizhiqu	China	20,865,000	43,336,000	21,160,000	39,591,000	1,010	914	18,431,000	http://carma.org/region/detail/1799355
21	Liaoning	China	83,286,000	105,660,000	82,065,000	98,301,000	985	930	16,236,000	http://carma.org/region/detail/2036115
22	Hunan	China	65,561,000	99,532,000	45,379,000	59,712,000	692	600	14,333,000	http://carma.org/region/detail/1806691
23	Tianjin Shi	China	37,988,000	53,748,000	40,759,000	54,066,000	1,070	1,010	13,307,000	http://carma.org/region/detail/1792943
24	State of Andhra Pradesh	India	60,470,000	81,866,000	52,647,000	65,873,000	871	805	13,226,000	http://carma.org/region/detail/1278629
25	Taiwan	Taiwan	129,310,000	148,620,000	92,727,000	105,770,000	717	712	13,043,000	http://carma.org/region/detail/7280291
26	Dubay	United Arab Emirates	15,655,000	35,047,000	9,205,900	21,851,000	588	623	12,645,100	http://carma.org/region/detail/292224
27	Central Java	Indonesia	14,479,000	26,162,000	11,903,000	24,338,000	822	930	12,435,000	http://carma.org/region/detail/1642669
28	Chongqing Shi	China	17,870,000	33,019,000	18,017,000	30,364,000	1,010	920	12,347,000	http://carma.org/region/detail/1814905
29	State of Madhya Pradesh	India	32,316,000	47,358,000	34,984,000	47,018,000	1,080	993	12,034,000	http://carma.org/region/detail/1264542
30	Mintaqat Makkah	Saudi Arabia	23,517,000	43,319,000	25,766,000	37,693,000	1,100	870	11,927,000	http://carma.org/region/detail/104514
31	Moskovskaya	Russia	57,328,000	76,962,000	49,932,000	61,782,000	871	803	11,850,000	http://carma.org/region/detail/524925
32	Jilin Sheng	China	53,905,000	69,632,000	34,601,000	46,251,000	642	664	11,650,000	http://carma.org/region/detail/2036500
33	South Gyeongsang	South Korea	42,173,000	51,526,000	42,547,000	53,565,000	1,010	1,040	11,018,000	http://carma.org/region/detail/1902028
34	Rajasthan	India	31,675,000	37,833,000	22,121,000	31,982,000	698	845	9,861,000	http://carma.org/region/detail/1258899
35	Negeri Sembilan	Malaysia	1,277,200	15,457,000	971,260	10,689,000	760	692	9,717,740	http://carma.org/region/detail/1733043
36	Xinjiang Uygur Zizhiqu	China	17,463,000	29,934,000	16,339,000	25,738,000	936	860	9,399,000	http://carma.org/region/detail/1529047
37	Al Mintaqah ash Sharqiyah	Saudi Arabia	65,086,000	80,183,000	49,945,000	58,948,000	767	735	9,003,000	http://carma.org/region/detail/108241
38	Queensland	Australia	54,360,000	63,071,000	49,912,000	58,911,000	918	934	8,999,000	http://carma.org/region/detail/2152274
39	Kahramanmaraş	Turkey	7,777,000	16,722,000	5,075,400	14,074,000	653	842	8,998,600	http://carma.org/region/detail/310858
40	Muḥāfaẓat al Qāhirah	Egypt	10,776,000	27,603,000	6,999,400	15,941,000	650	578	8,941,600	http://carma.org/region/detail/360631

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. Visit www.carma.org for more details.