

# CARMA Global Country 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	Country	metric tons CO2	net MWh	kg CO2 per MWh	% Fossil Fuels	% Hydroelectric	% Nuclear	% Renewables	URL
1	China	2,838,100,000	3,494,700,000	812	78.9	18.4	1.88	0.8	<a href="http://carma.org/region/detail/1814991">http://carma.org/region/detail/1814991</a>
2	United States	2,315,600,000	3,882,000,000	596	68.8	7.07	20.5	3.72	<a href="http://carma.org/region/detail/6252001">http://carma.org/region/detail/6252001</a>
3	India	699,440,000	836,370,000	836	82.4	13.6	1.76	2.23	<a href="http://carma.org/region/detail/1269750">http://carma.org/region/detail/1269750</a>
4	Russia	542,210,000	923,710,000	587	64.7	18.7	16.5	0.05	<a href="http://carma.org/region/detail/2017370">http://carma.org/region/detail/2017370</a>
5	Japan	387,430,000	937,730,000	413	63.7	7.92	27.5	0.93	<a href="http://carma.org/region/detail/1861060">http://carma.org/region/detail/1861060</a>
6	Germany	303,100,000	531,880,000	570	63.1	3.46	24	9.41	<a href="http://carma.org/region/detail/2921044">http://carma.org/region/detail/2921044</a>
7	South Korea	233,180,000	410,130,000	569	64.5	0.68	34.4	0.4	<a href="http://carma.org/region/detail/1835841">http://carma.org/region/detail/1835841</a>
8	South Africa	224,930,000	235,600,000	955	94.4	0.61	4.91	0.12	<a href="http://carma.org/region/detail/953987">http://carma.org/region/detail/953987</a>
9	Australia	219,440,000	240,050,000	914	92.4	5.04	0	2.57	<a href="http://carma.org/region/detail/2077456">http://carma.org/region/detail/2077456</a>
10	United Kingdom	174,630,000	356,230,000	490	76.1	1.46	17.6	4.81	<a href="http://carma.org/region/detail/2635167">http://carma.org/region/detail/2635167</a>
11	Saudi Arabia	160,850,000	197,320,000	815	100	0	0	0	<a href="http://carma.org/region/detail/102358">http://carma.org/region/detail/102358</a>
12	Poland	149,640,000	146,320,000	1,020	97.6	1.61	0	0.8	<a href="http://carma.org/region/detail/798544">http://carma.org/region/detail/798544</a>
13	Taiwan (China)	138,730,000	201,330,000	689	77.5	1.87	19.8	0.79	<a href="http://carma.org/region/detail/1668284">http://carma.org/region/detail/1668284</a>
14	Italy	137,030,000	274,240,000	500	76.2	17.7	0	6.08	<a href="http://carma.org/region/detail/3175395">http://carma.org/region/detail/3175395</a>
15	Iran	121,190,000	187,880,000	645	96.1	3.81	0	0.11	<a href="http://carma.org/region/detail/130758">http://carma.org/region/detail/130758</a>
16	Mexico	117,810,000	234,150,000	503	81.4	11.3	4.32	3.03	<a href="http://carma.org/region/detail/3996063">http://carma.org/region/detail/3996063</a>
17	Indonesia	110,890,000	139,100,000	797	85.7	8.05	0	6.28	<a href="http://carma.org/region/detail/1643084">http://carma.org/region/detail/1643084</a>
18	Canada	101,370,000	582,600,000	174	21.8	61.8	14.6	1.78	<a href="http://carma.org/region/detail/6251999">http://carma.org/region/detail/6251999</a>
19	Turkey	96,613,000	182,470,000	529	79.5	19.5	0	0.97	<a href="http://carma.org/region/detail/298795">http://carma.org/region/detail/298795</a>
20	Spain	87,417,000	259,820,000	336	53.7	10	19.5	16.8	<a href="http://carma.org/region/detail/2510769">http://carma.org/region/detail/2510769</a>
21	Kazakhstan	78,006,000	73,384,000	1,060	90.7	9.28	0	0	<a href="http://carma.org/region/detail/1522867">http://carma.org/region/detail/1522867</a>
22	Thailand	76,621,000	136,700,000	561	90.8	5.18	0	4.03	<a href="http://carma.org/region/detail/1605651">http://carma.org/region/detail/1605651</a>
23	Ukraine	74,943,000	161,010,000	465	44.3	7.28	48.4	0.03	<a href="http://carma.org/region/detail/690791">http://carma.org/region/detail/690791</a>
24	Malaysia	65,452,000	96,642,000	677	93.2	6.8	0	0	<a href="http://carma.org/region/detail/1733045">http://carma.org/region/detail/1733045</a>
25	Egypt	64,614,000	126,550,000	511	89.1	10	0	0.84	<a href="http://carma.org/region/detail/357994">http://carma.org/region/detail/357994</a>
26	United Arab Emirates	51,343,000	83,030,000	618	100	0	0	0	<a href="http://carma.org/region/detail/290557">http://carma.org/region/detail/290557</a>
27	Czech Republic	50,228,000	69,830,000	719	59.1	3.44	36.8	0.66	<a href="http://carma.org/region/detail/3077311">http://carma.org/region/detail/3077311</a>
28	Greece	48,600,000	59,464,000	817	86.7	8.95	0	4.32	<a href="http://carma.org/region/detail/390903">http://carma.org/region/detail/390903</a>
29	Kuwait	44,954,000	39,001,000	1,150	100	0	0	0	<a href="http://carma.org/region/detail/285570">http://carma.org/region/detail/285570</a>
30	France	44,594,000	512,850,000	87	10.3	11.1	76.8	1.86	<a href="http://carma.org/region/detail/3017382">http://carma.org/region/detail/3017382</a>
31	Netherlands	42,627,000	89,520,000	476	91.1	0.11	0	8.8	<a href="http://carma.org/region/detail/2750405">http://carma.org/region/detail/2750405</a>
32	Argentina	41,626,000	111,150,000	374	63	30.1	6.83	0.04	<a href="http://carma.org/region/detail/3865483">http://carma.org/region/detail/3865483</a>
33	Pakistan	41,094,000	79,690,000	516	61.8	34.9	3.31	0	<a href="http://carma.org/region/detail/1168579">http://carma.org/region/detail/1168579</a>
34	Israel	38,260,000	49,786,000	768	99.9	0.04	0	0.02	<a href="http://carma.org/region/detail/294640">http://carma.org/region/detail/294640</a>
35	Romania	34,933,000	56,497,000	618	53.6	27.2	19.2	0.03	<a href="http://carma.org/region/detail/798549">http://carma.org/region/detail/798549</a>
36	Vietnam	32,294,000	79,035,000	409	62.5	37.5	0	0	<a href="http://carma.org/region/detail/1562822">http://carma.org/region/detail/1562822</a>
37	Uzbekistan	30,560,000	46,967,000	651	80.3	19.7	0	0	<a href="http://carma.org/region/detail/1512440">http://carma.org/region/detail/1512440</a>
38	Iraq	30,336,000	42,651,000	711	92.5	7.49	0	0	<a href="http://carma.org/region/detail/99237">http://carma.org/region/detail/99237</a>
39	Hong Kong (China)	29,558,000	34,045,000	868	100	0	0	0	<a href="http://carma.org/region/detail/1819730">http://carma.org/region/detail/1819730</a>
40	Philippines	28,913,000	57,416,000	504	66.1	16.8	0	17	<a href="http://carma.org/region/detail/1694008">http://carma.org/region/detail/1694008</a>

Notes: Data are a mix of publicly-disclosed information and statistical model estimates. Totals are aggregate of all power plants located within the country 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	Brazil	24,354,000	478,410,000	50.9	6.94	85.8	2.56	4.73	<a href="http://carma.org/region/detail/3469034">http://carma.org/region/detail/3469034</a>
10	South Korea	233,180,000	410,130,000	569	64.5	0.68	34.4	0.4	<a href="http://carma.org/region/detail/1835841">http://carma.org/region/detail/1835841</a>
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25	Sweden	4,312,500	131,710,000	32.7	3.67	49.4	38	8.93	<a href="http://carma.org/region/detail/2661886">http://carma.org/region/detail/2661886</a>
26	Norway	2,019,200	131,240,000	15.4	3.94	95.2	0	0.83	<a href="http://carma.org/region/detail/3144096">http://carma.org/region/detail/3144096</a>
27	Egypt	64,614,000	126,550,000	511	89.1	10	0	0.84	<a href="http://carma.org/region/detail/357994">http://carma.org/region/detail/357994</a>
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29	Venezuela	24,274,000	98,640,000	246	30.2	69.8	0	0	<a href="http://carma.org/region/detail/3625428">http://carma.org/region/detail/3625428</a>
30	Malaysia	65,452,000	96,642,000	677	93.2	6.8	0	0	<a href="http://carma.org/region/detail/1733045">http://carma.org/region/detail/1733045</a>
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32	Belgium	20,907,000	86,582,000	241	42.6	0.33	51.9	5.11	<a href="http://carma.org/region/detail/2802361">http://carma.org/region/detail/2802361</a>
33	United Arab Emirates	51,343,000	83,030,000	618	100	0	0	0	<a href="http://carma.org/region/detail/290557">http://carma.org/region/detail/290557</a>
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38	Finland	21,411,000	65,800,000	325	34.8	19.1	34.4	11.7	<a href="http://carma.org/region/detail/660013">http://carma.org/region/detail/660013</a>
39	Switzerland	411,480	62,753,000	6.56	1.63	56	41.9	0.57	<a href="http://carma.org/region/detail/2658434">http://carma.org/region/detail/2658434</a>
40	Austria	11,249,000	62,347,000	180	28.1	63.9	0	7.91	<a href="http://carma.org/region/detail/2782113">http://carma.org/region/detail/2782113</a>

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