

CARMA Global Power Plant Ranking by Carbon Dioxide Emissions for Year 2009

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

Date created: July 11, 2012

Rank	Plant	Country	State/Province	City	metric tons CO2	net MWh	kg CO2 per MWh	Company	Latitude	Longitude	URL
1	TAICHUNG	Taiwan (China)	Taiwan	Longjin	36,336,000	39,009,000	931	MINISTRY OF ECONOMIC AFFAIRS	24.213	120.481	http://carma.org/plant/detail/44204
2	PORYONG	South Korea	South Chungcheong	Ponyong	32,823,000	35,998,000	912	KOREA MIDLAND POWER (KOMIPO)	36.402	126.492	http://carma.org/plant/detail/35511
3	TAEAN	South Korea	South Chungcheong	Taian	30,347,000	29,231,000	1,040	KOREA WESTERN POWER (KOWEPO)	36.756	126.298	http://carma.org/plant/detail/44146
4	BELCHATOW	Poland	Łódź Voivodeship	Belchatów	29,500,000	25,615,000	1,150	PGE POLSKA GRUPA ENERGETYCZNA	51.266	19.331	http://carma.org/plant/detail/3873
5	DANGJIN	South Korea	South Chungcheong	Tangjin	29,046,000	29,385,000	988	KOREA EAST-WEST POWER CO	36.894	126.630	http://carma.org/plant/detail/44498
6	HADONG	South Korea	South Gyeongsang	Ha-dong	28,719,000	28,644,000	1,000	KOREA SOUTHERN POWER (KOSPO)	34.951	127.822	http://carma.org/plant/detail/16468
7	NIEDERAUSSEM	Germany	North Rhine-Westphalia	Bergheim	26,300,000	27,909,000	942	RWE AG	50.996	6.669	http://carma.org/plant/detail/31142
8	MAILIAO FP	Taiwan (China)	Taiwan	Mailiao	25,304,000	29,678,000	853	MAILIAO POWER CO	23.749	120.255	http://carma.org/plant/detail/26650
9	VINDHYACHAL	India	State of Madhya Pradesh	Sidhi	24,812,000	25,898,000	958	NTPC LTD	24.098	82.672	http://carma.org/plant/detail/48330
10	KENDAL	South Africa	Mpumalanga	Witbank	24,652,000	23,307,000	1,060	ESKOM	-26.090	28.971	http://carma.org/plant/detail/21779
11	MATIMBA	South Africa	Limpopo Province	Ellisras	24,182,000	27,964,000	865	ESKOM	-23.668	27.611	http://carma.org/plant/detail/27542
12	SAMCHONPO	South Korea	South Gyeongsang	Sanzenpo	24,113,000	22,074,000	1,090	KOREA SOUTHEAST POWER CO	34.910	128.109	http://carma.org/plant/detail/39012
13	EKIBASTUZ-1	Kazakhstan	Pavlodar Oblsyt	Ekibastuz	24,076,000	18,881,000	1,280	KAZAKHMYS PLC	51.887	75.375	http://carma.org/plant/detail/11977
14	LETHABO	South Africa	Free State	Viljoensdrif	23,989,000	25,523,000	940	ESKOM	-26.742	27.977	http://carma.org/plant/detail/25054
15	SCHERER	United States	Georgia	Juliette	23,861,000	22,978,000	1,040	SOUTHERN CO	33.058	-83.807	http://carma.org/plant/detail/40093
16	JANSCHWALDE	Germany	Brandenburg	Peitz	23,600,000	21,150,000	1,120	VATTENFALL GROUP	51.835	14.460	http://carma.org/plant/detail/20075
17	MAJUBA	South Africa	Mpumalanga	Volksrust	23,412,000	22,340,000	1,050	ESKOM	-27.101	29.771	http://carma.org/plant/detail/26695
18	NEYVELI	India	State of Tamil Nādu	Neyveli	23,120,000	15,901,000	1,450	NEYVELI LIGNITE CORP LTD	11.533	79.483	http://carma.org/plant/detail/31075
19	JAMES H MILLER JR	United States	Alabama	Graysville	22,152,000	20,815,000	1,060	SOUTHERN CO	33.632	-87.060	http://carma.org/plant/detail/28493
20	DUVHA	South Africa	Mpumalanga	Witbank	22,026,000	22,581,000	975	ESKOM	-25.964	29.337	http://carma.org/plant/detail/11555
21	MATLA	South Africa	Mpumalanga	Bethal	21,531,000	21,955,000	981	ESKOM	-26.282	29.141	http://carma.org/plant/detail/27549
22	TALCHER KANIHA	India	State of Orissa	Angul	21,227,000	22,398,000	948	NTPC LTD	21.097	85.075	http://carma.org/plant/detail/44357
23	WAIGAOQIAO	China	Shanghai Shi	Pudong	21,161,000	22,526,000	939	SHENERGY COMPANY LTD	31.356	121.597	http://carma.org/plant/detail/48705
24	BOWEN	United States	Georgia	Cartersville	20,566,000	21,538,000	955	SOUTHERN CO	34.126	-84.919	http://carma.org/plant/detail/5461
25	DRAX	United Kingdom	England	Selby	20,500,000	21,870,000	937	DRAX POWER LTD	53.736	-0.998	http://carma.org/plant/detail/11290
26	TUTUKA	South Africa	Mpumalanga	Standerton	20,333,000	19,848,000	1,020	ESKOM	-26.779	29.352	http://carma.org/plant/detail/46691
27	BEILUN	China	Zhejiang Sheng	Ningbo	20,148,000	22,151,000	910	CHINA GUODIAN CORP	29.941	121.813	http://carma.org/plant/detail/3846
28	W A PARISH	United States	Texas	Thompsons	20,095,000	18,972,000	1,060	NRG ENERGY INC	29.483	-95.631	http://carma.org/plant/detail/48638
29	ERARING	Australia	New South Wales	Dora Creek	19,799,000	17,482,000	1,130	ORIGIN ENERGY LTD	-33.062	151.520	http://carma.org/plant/detail/12587
30	AL-SHUAIBAH SEC	Saudi Arabia	Mintaqat Makkah		19,691,000	23,597,000	834	SAUDI ELECTRICITY CO	NA	NA	http://carma.org/plant/detail/754
31	AZ-ZOUR SOUTH	Kuwait	Muḥāfazat al 'Āšimah	Az Zawr	19,575,000	24,447,000	801	MINISTRY ELEC & WATER (KW)	29.442	48.275	http://carma.org/plant/detail/2702
32	SURALAYA	Indonesia	Provinsi Banten	Serang	19,517,000	16,644,000	1,170	PT INDONESIA POWER - SURALAYA	-5.892	106.031	http://carma.org/plant/detail/43839
33	RAMAGUNDAM	India	State of Andhra Pradesh	Karīmānagar	19,417,000	20,370,000	953	NTPC LTD	18.759	79.455	http://carma.org/plant/detail/36523
34	BAYSWATER	Australia	New South Wales	Muswellbrook	19,401,000	17,185,000	1,130	MACQUARIE GENERATION	-32.396	150.949	http://carma.org/plant/detail/3667
35	MARTIN LAKE	United States	Texas	Tatum	19,299,000	17,066,000	1,130	ENERGY FUTURE HOLDINGS CORP	32.260	-94.570	http://carma.org/plant/detail/27383
36	WEISWEILER	Germany	North Rhine-Westphalia	Eschweiler	19,200,000	19,851,000	967	RWE AG	50.833	6.315	http://carma.org/plant/detail/49187
37	GIBSON	United States	Indiana	Owensville	19,101,000	18,902,000	1,010	DUKE ENERGY CORP	38.372	-87.766	http://carma.org/plant/detail/15060
38	GENERAL JAMES M GAVIN	United States	Ohio	Cheshire	18,798,000	19,160,000	981	AMERICAN ELECTRIC POWER CO INC	38.935	-82.116	http://carma.org/plant/detail/14748
39	HEKINAN	Japan	Aichi-ken	Hekinan	18,664,000	24,545,000	760	CHUBU ELECTRIC POWER CO	34.883	136.983	http://carma.org/plant/detail/17371
40	MONROE (1733)	United States	Michigan	Monroe	18,658,000	19,130,000	975	DTE ENERGY CO	41.892	-83.346	http://carma.org/plant/detail/29100

Notes: Data are a mix of publicly-disclosed information and statistical model estimates. 'Company' refers to the ultimate corporate owner/operator. Geographic coordinates are approximate in some cases. Visit www.carma.org for more details.

CARMA Global Power Plant Ranking by Electricity Generation for Year 2009

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

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Rank	Plant	Country	State/Province	City	metric tons CO2	net MWh	kg CO2 per MWh	Company	Latitude	Longitude	URL
1	ITAIPU	Brazil	Estado do Parana	Foz do Iguacu	0	91,652,000	0	ITAIPU BINACIONAL	-25.548	-54.588	http://carma.org/plant/detail/19731
2	THREE GORGES	China	Hebei		0	79,853,000	0	CHINA THREE GORGES CORP	30.821	111.002	http://carma.org/plant/detail/45316
3	SIMON BOLIVAR (GURI)	Venezuela	Estado Bolivar	Puerto Ordaz	0	52,600,000	0	CORPOELEC-EMP ELEC SOCIALISTA	8.298	-62.722	http://carma.org/plant/detail/36752
4	YONGGWANG	South Korea	South Jeolla	Reiko	0	48,581,000	0	KOREA HYDRO & NUCLEAR POWER CO	35.415	126.424	http://carma.org/plant/detail/52360
5	ULCHIN	South Korea	North Gyeongsang	Ulchin	0	48,444,000	0	KOREA HYDRO & NUCLEAR POWER CO	37.093	129.384	http://carma.org/plant/detail/46929
6	TAICHUNG	Taiwan (China)	Taiwan	Longjin	36,336,000	39,009,000	931	MINISTRY OF ECONOMIC AFFAIRS	24.213	120.481	http://carma.org/plant/detail/44204
7	ZAPORIZHZHYA N	Ukraine	Zaporiz'ka Oblast'	Energodar	0	39,003,000	0	ENERGOATOM	47.512	34.586	http://carma.org/plant/detail/50875
8	GRAVELINES	France	Nord-Pas-de-Calais	Gravelines	0	37,231,000	0	EDF GROUP	51.015	2.136	http://carma.org/plant/detail/15774
9	PORYONG	South Korea	South Chungcheong	Ponyong	32,823,000	35,998,000	912	KOREA MIDLAND POWER (KOMIPO)	36.402	126.492	http://carma.org/plant/detail/35511
10	BRUCE	Canada	Ontario	Tiverton	0	34,701,000	0	TRANSCAN/BPC TRUST/CAMECO	44.704	-81.599	http://carma.org/plant/detail/5956
11	CATTENOM	France	Lorraine	Cattenom	0	33,733,000	0	EDF GROUP	49.416	6.218	http://carma.org/plant/detail/7452
12	FUKUSHIMA DAINI	Japan	Fukushima-ken		0	32,395,000	0	TOKYO ELECTRIC POWER CO	37.319	141.021	http://carma.org/plant/detail/14289
13	OHI	Japan	Fukui-ken		0	31,211,000	0	KANSAI ELECTRIC POWER CO	35.541	135.652	http://carma.org/plant/detail/32278
14	CHURCHILL FALLS	Canada	Newfoundland and Labrador	St. John's	0	30,771,000	0	NALCOR ENERGY/HYDRO-QUEBEC	47.565	-52.709	http://carma.org/plant/detail/8635
15	PALO VERDE	United States	Arizona	Wintersburg	0	30,662,000	0	PINNACLE WEST CAPITAL CORP	33.389	-112.865	http://carma.org/plant/detail/33472
16	BALAKOVO	Russia	Saratovskaya Oblast'	Balakovo	0	29,922,000	0	ROSENERGOATOM OJSC	52.091	47.955	http://carma.org/plant/detail/2980
17	FUKUSHIMA DAIICHI	Japan	Fukushima-ken		0	29,891,000	0	TOKYO ELECTRIC POWER CO	37.421	141.032	http://carma.org/plant/detail/14288
18	MAILIAO FP	Taiwan (China)	Taiwan	Mailiao	25,304,000	29,678,000	853	MAILIAO POWER CO	23.749	120.255	http://carma.org/plant/detail/26650
19	PALUEL	France	Haute-Normandie	Cany-Barville	0	29,414,000	0	EDF GROUP	49.858	0.636	http://carma.org/plant/detail/33498
20	DANGJIN	South Korea	South Chungcheong	Tangjin	29,046,000	29,385,000	988	KOREA EAST-WEST POWER CO	36.894	126.630	http://carma.org/plant/detail/44498
21	TAEAN	South Korea	South Chungcheong	Taian	30,347,000	29,231,000	1,040	KOREA WESTERN POWER (KOWEPO)	36.756	126.298	http://carma.org/plant/detail/44146
22	TUCURUI	Brazil	Estado do Para	Tucuruí	0	29,083,000	0	ELETRONBRAS	-3.766	-49.672	http://carma.org/plant/detail/46512
23	HADONG	South Korea	South Gyeongsang	Ha-dong	28,719,000	28,644,000	1,000	KOREA SOUTHERN POWER (KOSPO)	34.951	127.822	http://carma.org/plant/detail/16468
24	FUTTSU	Japan	Chiba-ken	Futtsu	11,461,000	28,187,000	407	TOKYO ELECTRIC POWER CO	35.305	139.819	http://carma.org/plant/detail/14390
25	MATIMBA	South Africa	Limpopo Province	Ellisras	24,182,000	27,964,000	865	ESKOM	-23.668	27.611	http://carma.org/plant/detail/27542
26	NIEDERAUSSEM	Germany	North Rhine-Westphalia	Bergheim	26,300,000	27,909,000	942	RWE AG	50.996	6.669	http://carma.org/plant/detail/31142
27	DARLINGTON (ON)	Canada	Ontario	Bowmanville	0	26,109,000	0	PROVINCE OF ONTARIO	43.873	-78.720	http://carma.org/plant/detail/10237
28	VINDHYACHAL	India	State of Madhya Pradesh	Sidhi	24,812,000	25,898,000	958	NTPC LTD	24.098	82.672	http://carma.org/plant/detail/48330
29	BROWNS FERRY	United States	Alabama	Decatur	0	25,743,000	0	TENNESSEE VALLEY AUTHORITY	34.704	-87.119	http://carma.org/plant/detail/5952
30	BELCHATOW	Poland	Łódź Voivodeship	Belchatów	29,500,000	25,615,000	1,150	PGE POLSKA GRUPA ENERGETYCZNA	51.266	19.331	http://carma.org/plant/detail/3873
31	LETHABO	South Africa	Free State	Viljoensdrif	23,989,000	25,523,000	940	ESKOM	-26.742	27.977	http://carma.org/plant/detail/25054
32	KORI	South Korea	Busan		0	25,437,000	0	KOREA HYDRO & NUCLEAR POWER CO	35.317	129.300	http://carma.org/plant/detail/22833
33	KURSK NPP	Russia	Kurskaya Oblast'	Kurchatov	0	25,395,000	0	ROSENERGOATOM OJSC	51.675	35.606	http://carma.org/plant/detail/23400
34	HEKINAN	Japan	Aichi-ken	Hekinan	18,664,000	24,545,000	760	CHUBU ELECTRIC POWER CO	34.883	136.983	http://carma.org/plant/detail/17371
35	AZ-ZOUR SOUTH	Kuwait	Muhafazat al 'Aşimah	Az Zawr	19,575,000	24,447,000	801	MINISTRY ELEC & WATER (KW)	29.442	48.275	http://carma.org/plant/detail/2702
36	YONGHUNGDO	South Korea	Incheon	Yunghung Do	17,599,000	24,382,000	722	KOREA SOUTHEAST POWER CO	37.264	126.470	http://carma.org/plant/detail/51215
37	LENINGRAD-1	Russia	Leningrad	Sosnovyy Bor	0	24,284,000	0	ROSENERGOATOM OJSC	59.847	29.044	http://carma.org/plant/detail/24946
38	KRASNOYARSK HPS	Russia	Krasnoyarskiy Kray	Divnogorsk	0	24,163,000	0	EUROSIBENERGO	55.959	92.362	http://carma.org/plant/detail/23048
39	GENKAI	Japan	Saga-ken		0	23,800,000	0	KYUSHU ELECTRIC POWER CO	33.516	129.837	http://carma.org/plant/detail/14906
40	TIHANGE	Belgium	Walloon Region	Huy	0	23,719,000	0	GDF SUEZ SA	50.535	5.272	http://carma.org/plant/detail/45433

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