

AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
1	Carbon Majors' 2010 CO2 & methane emissions										
2	Richard Heede										
3	Climate Mitigation Services										
4	9-Jul-13										
5	by ownership category, alphabetized										
6	Pasted values										
7	9-Jul-13										
8	1	IOC	Alpha Natural Resources, USA	182							
9	2	IOC	Anadarko, USA	96							
10	3	IOC	Anglo American, UK	242							
11	4	IOC	Apache, USA	97							
12	5	IOC	Arch Coal Company, USA	341							
13	6	IOC	BG Group (British Gas) UK	97							
14	7	IOC	BHP Billiton, Australia	320							
15	8	IOC	BP, UK	554							
16	9	IOC	Canadian Natural Resources, Canada	93							
17	10	IOC	Cemex, Mexico	27							
18	11	IOC	ChevronTexaco, USA	423							
19	12	IOC	ConocoPhillips, USA	359							
20	13	IOC	CONSOL Energy, USA	161							
21	14	IOC	Cyprus Amx, USA	-							
22	15	IOC	Devon Energy, USA	93							
23	16	IOC	EnCana, Canada	84							
24	17	IOC	ENI, Italy	258							
25	18	IOC	ExxonMobil, USA	655							
26	19	IOC	HeidelbergCement, Germany	31							
27	20	IOC	Hess, USA	61							
28	21	IOC	Holcim, Switzerland	62							
29	22	IOC	Husky, Canada	42							
30	23	IOC	Italcementi, Italy	24							
31	24	IOC	Kiewit Mining Group, USA	59							
32	25	IOC	Lafarge, France	61							
33	26	IOC	Lukoil, Russia	322							
34	27	IOC	Luminant, USA	33							
35	28	IOC	Marathon, USA	59							
36	29	IOC	Massey Energy Corporation, USA	91							
37	30	IOC	Murphy Oil, USA	27							
38	31	IOC	Murray Coal Corporation, USA	59							
39	32	IOC	Nexen, Canada	36							
40	33	IOC	North American Coal, USA	40							
41	34	IOC	Occidental, USA	109							
42	35	IOC	OMV Group, Austria	45							
43	36	IOC	Peabody Coal Group	519							
44	37	IOC	Repsol-YPF, Spain	126							
45	38	IOC	Rio Tinto, UK	161							
46	39	IOC	Royal Dutch Shell, The Netherlands	478							
47	40	IOC	Ruhrkohle AG (RAG), Germany	-							
48	41	IOC	RWE, Germany	148							
49	42	IOC	Sasol, South Africa	113							
50	43	IOC	Suncor / Petro-Canada, Canada	89							
51	44	IOC	Taiheyo, Japan	10							
52	45	IOC	Talisman, Canada	62							
53	46	IOC	Total, France	398							
54	47	IOC	UK Coal, UK	19							
55	48	IOC	Westmoreland Mining, USA	46							
56	49	IOC	Xstrata, Switzerland	214							
57	50	IOC	Yukos, Russia	-							
58	1	SOE	Abu Dhabi, United Arab Emirates	387							
59	2	SOE	Bahrain Petroleum Corporation	36							
60	3	SOE	British Coal Corporation, UK	-							
61	4	SOE	CNOOC (China National Offshore Oil), China	130							
62	5	SOE	Coal India, India	830							
63	6	SOE	Ecopetrol, Colombia	89							
64	7	SOE	Egyptian General Petroleum, Egypt	129							
65	8	SOE	Gazprom, Russia	1,371							
66	9	SOE	Iraq National Oil Company, Iraq	220							
67	10	SOE	Kuwait Petroleum Corp., Kuwait	321							
68	11	SOE	Libya National Oil Corp., Libya	219							
69	12	SOE	National Iranian Oil Company, Iran	867							
70	13	SOE	Nigerian National Petroleum, Nigeria	270							
71	14	SOE	Oil and Gas Corp India, India	164							
72	15	SOE	Pemex, Mexico	602							
73	16	SOE	Pertamina, Indonesia	64							
74	17	SOE	PetroChina, China	614							
75	18	SOE	Petroleo Brasileiro (Petrobras), Brazil	356							
76	19	SOE	Petroleos de Venezuela, Venezuela	485							
77	20	SOE	Petroleum Development Oman, Oman	124							
78	21	SOE	Petronas, Malaysia	260							
79	22	SOE	Polish Oil & Gas, Poland	12							
80	23	SOE	Qatar Petroleum, Qatar	271							
81	24	SOE	Rosneft, Russian Federation	364							
82	25	SOE	Saudi Aramco, Saudi Arabia	1,550							
83	26	SOE	Singareni Collieries Company, India	99							
84	27	SOE	Sinopec, China	160							
85	28	SOE	Sonangol, Angola	147							
86	29	SOE	Sonatrach, Algeria	386							
87	30	SOE	Statoli, Norway	243							
88	31	SOE	Syrian Petroleum, Syria	48							
89	1	State	China, Peoples Republic (coal & cement)	7,898							
90	2	State	Czech Republic	92							
91	3	State	Czechoslovakia	-							
92	4	State	FSU (Former Soviet Union)	-							
93	5	State	Kazakhstan	287							
94	6	State	North Korea	88							
95	7	State	Poland	294							
96	8	State	Russian Federation (not including FSU)	695							
97	9	State	Ukraine	145							
98	90		Total	27,946							

Cell: B9

Comment: Rick Heede:
Alphabetical rank.

Cell: D9

Comment: Rick Heede:
CMS has identified a total of 86 company, multinational, and state entities that produce, in aggregate, 84 percent of global carbon dioxide emissions from fossil fuel and cement manufacturing in 2004. (Note: See worksheet "SumSum.xls" for the CMS emissions from identified entities by year from 1886 through 2004. Historically, the emissions from the 86 identified entities represent ~61.5 percent of the global total since 1750, if compared to the ORNL/CDIAC industrial emissions for the anthropocene.

Cell: V111

Comment: Rick Heede:
EDGAR data 1970-2008 extrapolated to 2010 by CMS on the basis of EDGAR published data on CO2 emissions through 2010. See workbook "AncillaryCH4&CO2.xls" worksheet on "General Non-CO2 data" rows 336-376. Total estimated EDGAR for 2010 is 120.9 TgCH4 (*21); CMS excludes EDGAR estimate for "Energy manufacturing and transformation" of 6.5 TgCH4.