

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1		Production		Summary of natural gas production entered on entity worksheets																			
2				Richard Heede Climate Accountability Institute 11-Nov-14																			
3				Copyright Climate Accountability Institute																			
4																							
5																							
6																							
7																							
8		Natural Gas	Notes	1870s			1880s						1890s										
9				1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	
10			Commissioned?																				
11	1	Abu Dhabi National Oil (ADNOC), UAE	yes																				
12	2	Anadarko, USA	yes																				
13	3	Apache, USA	yes																				
14	4	Bahrain Petroleum Corporation	yes																				
15	5	BG Group (British Gas), UK	yes																				
16	6	BHP Billiton, Australia	yes																				
17	7	BP, UK	yes																				
18	8	Canadian Natural Resources, Canada	yes																				
19	9	Chevron, USA	yes																				
20	10	CNOOC (China National Offshore Oil), China	yes																				
21	11	ConocoPhillips, USA	yes																				
22	12	CONSOL Energy, USA	yes																				
23	13	Devon Energy, USA	yes																				
24	14	Ecopetrol, Colombia	yes																				
25	15	Egyptian General Petroleum, Egypt	yes																				
26	16	EnCana, Canada	yes																				
27	17	ENI, Italy	yes																				
28	18	ExxonMobil, USA	yes																				
29	19	Former Soviet Union	yes																				
30	20	Gazprom, Russian Federation	yes																				
31	21	Hess, USA	yes																				
32	22	Husky, Canada	yes																				
33	23	Iraq National Oil Company, Iraq	yes																				
34	24	Kuwait Petroleum Corp., Kuwait	yes																				
35	25	Libya National Oil Corp., Libya	yes																				
36	26	Lukoil, Russian Federation	yes																				
37	27	Marathon, USA	yes																				
38	28	Murphy Oil, USA	yes																				
39	29	Nexen, Canada (acq. By CNOOC)	yes																				
40	30	National Iranian Oil Company (NIOC), Iran	yes																				
41	31	Nigerian National Petroleum, Nigeria	yes																				
42	32	Occidental, USA	yes																				
43	33	Oil and Natural Gas Corporation, India	yes																				
44	34	OMV Group, Austria	yes																				
45	35	Pertamina, Indonesia	yes																				
46	36	PetroChina (CNPC), China	yes																				
47	37	Petroleo Brasileiro (Petrobras), Brazil	yes																				
48	38	Petroleos de Venezuela, Venezuela	yes																				
49	39	Petroleos Mexicanos (PEMEX), Mexico	yes																				
50	40	Petroleum Development Oman, Oman	yes																				
51	41	Petronas, Malaysia	yes																				
52	42	Polish Oil & Gas, Poland	yes																				
53	43	Qatar Petroleum, Qatar	yes																				
54	44	Repsol, Spain	yes																				
55	45	Rosneft, Russian Federation	yes																				
56	46	Royal Dutch Shell plc, The Netherlands	yes																				
57	47	Sasol, South Africa	yes																				
58	48	Saudi Aramco, Saudi Arabia	yes																				
59	49	Sinopec, China	yes																				
60	50	Sonangol, Angola	yes																				
61	51	Sonatrach, Algeria	yes																				
62	52	Statoll, Norway	yes																				
63	53	Suncor / Petro-Canada, Canada	yes																				
64	54	Syrian Petroleum, Syria	yes																				
65	55	Talisman, Canada	yes																				
66	56	Total, France	yes																				
67	57	Yukos, Russian Federation	yes																				
68		Annual gas prod'n by identified entities:																					
69		Annual world gas prod'n 1960-2010																					
70		Percent identified prod'n of global prod'n																					
71																							
72																							
73																							
74																							
75																							
76																							
77																							
78																							
79																							
80																							
81																							
82																							
83																							
84																							
85																							
86																							
87																							
88																							
89																							
90																							
91																							
92																							
93																							
94																							
95																							
96																							
97																							
98																							
99																							
100																							
101																							
102																							
103																							
104																							
105																							
106																							
107																							
108																							
109																							
110																							
111																							
112																							
113																							
114																							
115																							
116																							
117																							
118																							
119																							
120																							
121																							
122																							
123																							
124																							
125																							
126																							
127																							
128																							
129																							
130																							
131																							
132																							
133																							
134																							
135																							
136																							
137																							
138																							

	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1	Summary of natural gas production entered on entity worksheets																						
2	Richard Heede																						
3	Climate Accountability Institute											Copyright Climate Accountability Institute											
4	11-Nov-14																						
5																							
6																							
7	1890s					1900s										1910s							
8	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							
17																							
18																							
19																							
20																							
21																							
22																							
23																							
24																							
25																							
26																							
27																							
28																							
29																							
30																							
31																							
32																							
33																							
34																							
35																							
36																							
37																							
38																							
39																							
40																							
41																							
42																							
43																							
44																							
45																							
46																							
47																							
48																							
49																							
50																							
51																							
52																							
53																							
54																							
55																							
56																							
57																							
58																							
59																							
60																							
61																							
62																							
63																							
64																							
65																							
66																							
67																							
68																							
69																							
70																							
71																							
72																							
73																							
74																							
75																							
76																							
77																							
78																							
79																							
80																							
81																							
82																							
83																							
84																							
85																							
86																							
87																							
88																							
89																							
90																							
91																							
92																							
93																							
94																							
95																							
96																							
97																							
98																							
99																							
100																							
101																							
102																							
103																							
104																							
105																							
106																							
107																							
108																							
109																							
110																							
111																							
112																							
113																							
114																							
115																							
116																							
117																							
118																							
119																							
120																							
121																							
122																							
123																							
124																							
125																							
126																							
127																							
128																							
129																							
130																							
131																							
132																							
133																							
134																							
135																							
136																							
137																							
138																							

	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT		
1	Summary of natural gas production entered on entity worksheets																											
2																												
3	Richard Heede Climate Mitigation Services																											
4																												
5	Copyright Climate Accountability Institute																											
6																												
7	1920s														1930s							1940s						
8	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943		
9																												
10																												
11																												
12																												
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												
21																												
22																												
23																												
24													15	18	20	23	26	29	33	37	42	48	54	61				
25																												
26																												
27																												
28													15	28	52	70	75	153	200	188	209							
29																												
30																												
31																												
32								94	103	114	125	137	151	166	182	200	220	241	265	228	241	254	267	280	296			
33																												
34																												
35																												
36																												
37																												
38																												
39																												
40																												
41																												
42																												
43																												
44																												
45																												
46	52	54	59	49	56	74	84	88	97	107	116	141	143	125	116	116	132	143	176	228	155	215	231	245	266	298		
47																												
48																												
49																												
50																												
51																												
52																												
53																												
54																												
55																												
56																												
57																												
58																												
59																												
60																												
61																												
62																												
63																												
64																												
65																												
66																												
67																												
68																												
69																												
70																												
71																												
72																												
73																												
74																												
75																												
76																												
77																												
78																												
79																												
80																												
81																												
82																												
83																												
84																												
85																												
86																												
87																												
88																												
89																												
90																												
91																												
92																												
93																												
94																												
95																												
96																												
97																												
98																												
99																												
100																												
101													51	55	59	64	69	74	80	86	93	100	108	116	125	135		
102																												
103																												
104																												
105																												
106																												
107																												
108																												
109																												
110																												
111																												
112																												
113																												
114																												
115																												
116																												
117																												
118																												
119																												
120																												
121																												
122																												
123																												
124																												
125																												
126	52	54	59	49	56	74	84	88	191	210	229	266	331	331	356	379	420	474	551	660	578	668	788	876	913	998		
127																												
128																												
129																												
130																												
131																												
132																												
133																												
134																												
135																												
136																												
137																												
138																												

	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV
1	Summary of natural gas production entered on entity worksheets																											
2																												
3																												
4	dataset marker																											
5	Richard Heede																											
6	Climate Accountability Institute																											
7	Copyright Climate Accountability Institute																											
8	11-Nov-14																											
9	1940s							1950s										1960s										
10	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
11																												
12																												
13																												
14																												
15																												
16																												
17																												
18																												
19																												
20																												
21																												
22																												
23																												
24	69	78	89	100	137	163	193	244	283	335	361	397	483	542	562	625	789	834	926	993	1,132	1,237	1,325	1,429	1,538	1,751	1,854	1,916
25																												
26																												
27																												
28	243	254	268	306	368	402	493	545	585	702	841	1,025	1,110	1,246	1,370	1,524	1,732	1,912	2,106	2,281	2,510	2,709	3,131	3,473	3,835	4,220	4,585	4,693
29																												
30																												
31																												
32	312	328	441	470	503	518	804	949	969	971	1,014	1,043	1,153	1,235	1,261	1,386	1,410	1,420	1,454	1,487	1,537	1,523	1,518	1,473	1,506	1,531	1,582	1,619
33																												
34																												
35																												
36																												
37																												
38																												
39																												
40																												
41																												
42																												
43																												
44																												
45																												
46	323	342	351	422	469	523	612	679	756	823	864	937	1,000	1,064	1,094	1,160	1,235	1,299	1,455	1,534	1,741	1,994	2,282	2,482	2,892	3,378	3,920	4,373
47																												
48																												
49																												
50																												
51																												
52																												
53																												
54																												
55																												
56																												
57																												
58																												
59																												
60																												
61																												
62																												
63																												
64																												
65																												
66																												
67																												
68																												
69																												
70																												
71																												
72																												
73																												
74																												
75																												
76																												
77																												
78																												
79																												
80																												
81																												
82																												
83																												
84																												
85																												
86																												
87																												
88																												
89																												
90																												
91																												
92																												
93																												
94																												
95																												
96																												
97																												
98																												
99																												
100																												
101	145	156	168	181	195	210	226	244	263	283	305	315	336	347	349	384	454	491	578	652	734	784	899	1,055	1,265	1,542	1,811	1,951
102																												
103																												
104																												
105																												
106																												
107																												
108																												
109																												
110																												
111																												
112																												
113																												
114																												
115																												
116																												
117																												
118																												
119																												
120																												
121																												
122																												
123																												
124																												
125																												
126	1,091	1,158	1,317	1,480	1,672	1,852	2,380	2,739	2,963	3,258	3,559	3,930	4,805	5,434	6,168	7,271	8,237	9,204	10,344	11,483	12,756	14,069	15,615	17,578	19,209	21,183	23,573	24,776
127																												
128																												
129																												
130																												
131																												
132																												
133																												
134																												
135																												
136																												
137																												
138																												

Pre-1980 data needs to be reviewed: get "dry natural gas production" (as for 1980-2007)

21,019	22,867	24,480	26,394	28,398	31,072	34,403	37,935	40,278
54.6%	55.8%	57.5%	59.2%	61.9%	61.8%	61.6%	62.1%	61.5%

Gas Production

Cell: E550

Comment: Rick Heede (Jan10):
CMS disaggregated gas production prior to the creation of Gazprom in 1989 (attributed to USSR, below).

Cell: E118

Comment: Rick Heede:
2008-2010 are CIA estimates

Cell: B128

Comment: Rick Heede:
Energy Information Administration (2005) Annual Energy Review 2004, US DOE, Washington, DC; www.eia.doe.gov

Data for 1960-1971 from US Bureau of Mines, Minerals Yearbook, various years; data shows "marketed natural gas production," although data for gross production is available for 1969-1971. Data is interpolated for the gas between 1972-1979, inclusive.

Cell: CN128

Comment: Rick Heede:
US Bureau of Mines, Minerals Yearbook 1967, p. 779.

Cell: CT128

Comment: Rick Heede:
US Bureau of Mines, Minerals Yearbook 1971, Table 19, p. 797, shows both marketed and gross production of natural gas for 1969-1971. Global gross production totaled 42.761 Tcf (x1.2429 of marketed production) in 1969, 46.455 Tcf (x1.2246) in 1970, and 49.014 Tcf (x1.2169) in 1971. Gross gas production includes gas that is vented or flared or re-injected; no data published to quantify vented or flared quantities in any country or the world overall.

Cell: EC128

Comment: Rick Heede:
World dry natural gas production estimated for 2004 (1.25 percent above 2003 datum (EIA), based on IEA data for gas production in Europe only. See our CDIAc.xls, in which CMS projects 2004 oil, gas, and coal production.

Cell: ES128

Comment: Rick Heede:
US Energy Information Administration: Table: Dry Natural Gas Production (Billion Cubic Feet) 1980-2013.

Cell: ET137

Comment: Rick Heede:

Page Intentional Left Blank.