

	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																							
2	Summary of natural gas production entered on entity worksheets																						
3																							
4	Richard Heede																						
5	Climate Mitigation Services																						
6	17-May-13																						
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
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	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																												
2	Summary of natural gas production entered on entity worksheets																											
3																												
4	Richard Heede Climate Mitigation Services 17-May-13																											
5																												
6																												
7	1910s				1920s								1930s								1940s							
	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		
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124	52	54	59	49	56	74	84	88	191	210	229	266	331	331	356	379	420	462	551	660	578	668	788	876	913	998		
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Gas Production

	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	
1	Summary of natural gas production entered on entity worksheets																								
2																									
3	Richard Heede Climate Mitigation Services 17-May-13																								
4																									
5																									
6																									
7	1940s						1950s										1960s								
8	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	
9																									
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20																			42	45	50	54	60		
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	
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	
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	
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44							11	26	41	71	95	118	147	165	170	203	218	235	245	250	265	270	305	321	
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	
47																									
48													450	694	1,115	1,388	1,754	2,273	2,806	3,415	3,892	4,570	5,110	5,601	
49																									
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52													96	102	109	107	110	123	137	149	153	149			
53																									
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56													2	2	2	2	1	1	13	11					
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59																			1	1	1	1			
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70													16	26	26	32	36	104	107	109	42	43	49	52	
71																									
72													0	1	2	1	0	0	1	1					
73																									
74													0.1	2	3	5	7	8	10	12	13	15			
75																									
76													4	5	5	5	5	5	5	5	5	5	5	14	16
77																									
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86													19	20	21	23	25	25	26	29					
87																									
88													329	341	361	371	402	494	485	475	573				
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96																			0	0	0	0			
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101																									
102	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	
103													0.004	0.005	0.005	0.006	0.006	0.006	0.007	0.1	3.2	3.6	3.6	4.0	4.5
104																									
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110																			4	7	8	15	34	42	45
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123																									
124	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	
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Pre-1980 data needs to be reviewed; get "dry natural gas production" (as for 1980-2008?)

21,019	22,867	24,480	26,394	28,398
54.6%	55.8%	57.5%	59.2%	61.9%

Gas Production

	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	
1	Summary of natural gas production entered on entity worksheets																										
2	Richard Heede Climate Mitigation Services 17-May-13																										
7	1970s												1980s								1990s						
8	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	
12	39	47	54	73	80	97	97	86	98	145	191	202	254	313	329	311	355	386	397	409	420	462	488	555	587	599	
14	520	471	460	448	437	426	415	404	392	381	370	359	348	336	325	314	303	291	279	267	255	243	231	219	207	195	
18	0	1	1	2	2	6	7	44	46	50	53	57	100	120	130	140	133	164	180	176	185	194	210	157	166	180	
20	67	75	88	115	146	160	195	220	241	276	259	246	258	272	272	280	294	325	333	341	323	314	325	314	344	409	
22		0	4	8	12	18	25	32	40	47	51	58	65	82	85	89	93	95	121	131	178	175	204	187	192	185	
24	1,538	1,751	1,854	1,916	2,006	1,974	1,806	1,668	1,670	1,661	1,639	1,636	1,482	1,492	1,405	1,353	1,468	1,518	1,473	1,530	1,668	2,026	2,053	2,138	2,113	2,125	
26																						4	20	37	54	70	
28	3,835	4,220	4,585	4,693	4,931	4,749	4,675	4,316	4,235	4,081	3,913	3,897	3,635	3,340	3,072	2,856	3,203	2,531	2,423	2,513	2,394	2,285	2,457	2,410	2,379	2,293	
32	1,506	1,531	1,582	1,619	1,645	1,648	1,629	1,521	1,526	1,476	1,489	1,478	1,409	1,323	1,243	1,230	1,236	1,274	1,266	1,257	1,355	1,506	1,509	1,579	1,633	1,659	
36																					6	8	292	277	332	451	
38																					141	176	177	141	144	144	
40		0.3	0.3	0.3	0.3	0.2	0.2	7	9	11	13	15	26	48	58	73	89	102	113	125	139	146	164	178	203		
42																					210	251	240	233	235	286	
44	343	388	428	438	486	518	515	497	511	463	486	485	502	514	491	467	485	522	569	618	622	643	657	625	713		
46	2,892	3,378	3,920	4,373	4,665	5,131	5,196	5,048	5,002	4,966	4,932	4,997	3,868	3,507	3,063	2,940	3,359	3,328	3,198	3,387	3,457	3,623	3,556	3,694	3,747	3,809	
48	6,032	6,457	7,063	7,501	7,818	8,334	9,201	10,206	11,336	12,344	13,353	14,361	15,370	16,430	17,680	18,927	20,744	22,707	24,195	25,358	27,192						
50																						22,764	23,307	23,178	22,240	21,452	
52	173	198	223	252	279	271	258	238	205	228	216	233	222	212	201	190	180	169	169	194	189	204	257	307	339	323	
54																					44	86	76	82	92	90	
56	16	19	17	18	18	21	24	35	35	36	36	37	37.2	14	14	11	12	14	27	79	121	129	89	25	64	57	
58	18	19	20	16	30	60	150	184	197	209	221	232	244	213	149	154	179	171	222	187	230	288	185	16	94	158	
60		2	8	110	196	190	230	329	297	240	183	126	77	84	98	113	126	139	132	136	148	153	153	176	182		
62																											
64	152	157	174	169	157	153	151	163	155	169	161	141	156	171	186	201	216	375	375	359	412	469	424	392	338	317	
66																61	61	69	69	67	76	86	93	81	92	101	
68																					57	75	78	76	73	82	
70	56	98	396	299	448	702	787	771	794	658	522	386	250	210	250	310	476	600	536	671	620	764	849	779	941	1,018	
72	1	0	0	2	2	3	4	4	5	6	7	14	23	46	30	49	58	65	70	78	126	135	134	116	166	166	
74	17	18	20	22	23	24	20	34	34	34	35	39	42	40	62	276	258	265	298	308	283	258	257	259	274		
76	21	26	24	26	33	32	25	35	54	53	52	52	51	64	89	106	113	135	180	269	312	374	438	485	569	552	
78																											
80	12	21	23	23	22	14	20	42	64	132	199	266	333	338	344	392	529	582	605	647	706	743	838	947	997	1,027	
82																					85	513	518	540	547	585	
84	34	43	43	40	42	40	50	55	55	61	65	64	75	85	104	142	173	187	198	204	199	209	210	221	234	249	
86	30	31	35	37	39	46	48	45	480	550	620	691	761	572	600	576	610	618	674	1,276	1,375	1,420	1,404	1,495	1,503	1,589	
88	575	609	665	643	643	677	745	787	769	852	935	1,065	1,299	1,482	1,448	1,414	1,380	1,345	1,311	1,277	1,273	1,304	1,333	1,326	1,312	1,311	
90		2	2	2	2	2	2	2	2	9	15	22	28	33	41	72	82	93	103	122	93	96	134	128	146	166	
92							17	20	22	30	39	47	55	61	55	146	320	430	520	568	591	526	570	585	735	732	
94																											
96	2	4	4	5	5	14	36	47	31	51	71	91	110	94	112	104	125	115	116	119	124	129	166	214	274	324	
98																					680	783	891	854	472	472	
100																								184	171	155	143
102	1,265	1,542	1,811	1,951	2,166	2,318	2,477	2,417	2,451	2,436	2,350	2,378	2,284	2,189	2,024	2,080	2,156	2,292	2,303	2,387	2,209	2,142	2,351	2,578	2,391	2,493	
104	8	9	8	10	10	40	131	120	138	159	335	400	450	564	430	418	620	716	890	741	899	1,080	1,135	1,190	1,310	1,307	
106																											
108		0	0	0	0	0	0	0	1	2	3	4	5	5	5	6	6	7	7	8	9	8	10	10	10	10	
110	58	67	67	71	83	120	146	254	272	291	311	331	352	676	843	1,203	1,272	1,299	1,284	1,472	1,542	2,317	1,588	1,618	1,837	1,787	
112																											
114																											
116					5	4	4	4	5	6	7	9	10	5	5	5	5	3	5	13	11	21	64	77	79	82	
118																											
120					17	12	6	12	18	43	107	172	196	207	192	203	212	809	742	851	939	942	934	983	1,020	1,038	
122																											
124	19,209	21,183	23,573	24,776	26,360	27,811	29,053	29,539	31,221	32,223	33,369	34,756	34,554	35,252	35,549	37,322	41,059	44,135	45,746	50,029	52,938	51,094	52,083	52,205</			

Gas Production

	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN
1	Summary of natural gas production entered on entity worksheets																				Production	
2																			Richard Heede			
3																			Climate Mitigation Services			
4																			17-May-13			
5																			dataset marker		Copyright Climate Mitigation Services	
6																						
7	1990s										2000s										Sum to 2010	
8	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Billions of		Natural Gas		
9																						
10																						
11																						
12	697	569	737	877	890	926	989	1,000	1,000	1,000	1,000	1,176	1,253	1,187	1,246	1,092	1,106			23,926	Abu Dhabi National Oil (ADNOC), UAE	
13	768	585	840	883	1,030	981	726	1,009	1,047	1,057	1,029	952	644	698	750	809	829			27,604	Anadarko, USA	
14	176	211	205	222	64	240	303	411	394	444	451	461	580	656	591	642	689			7,424	Apache, USA	
15	183	286	294	203	215	221	390	390	400	416	410	470	382	403	435	441	452			8,491	Bahrain Petroleum Corporation	
16	466	430	432	434	436	438	440	457	533	640	719	805	948	885	965	1,011	1,034			17,813	BG Group (British Gas), UK	
17	187	199	213	228	242	256	262	287	278	303	326	348	360	357	367	363	369			7,121	BHP Billiton, Australia	
18	2,234	2,276	2,464	2,454	2,786	2,214	2,777	3,151	3,178	3,144	3,104	3,075	3,072	2,972	3,042	3,097	3,066			106,799	BP, UK	
19	87	111	183	228	246	263	290	335	450	474	507	525	545	609	546	480	454			6,516	Canadian Natural Resources, Canada	
20	2,428	2,344	2,394	2,446	2,442	2,405	2,341	2,398	2,264	2,197	1,996	1,545	1,809	1,832	1,871	1,821	1,840			158,420	Chevron, USA	
21			92	143	137	155	72	71	100	106	133	248	179	204	227	239	380			2,485	CNOOC (China National Offshore Oil), China	
22	1,760	1,820	1,981	2,094	2,184	2,434	2,054	1,940	2,111	2,036	2,076	1,889	1,814	1,857	1,769	2,518	2,330			101,538	ConocoPhillips, USA	
23							25	34	41	44	55	54	56	58	90	94	126			678	CONSOL Energy, USA	
24	504	695	683	715	837	755	916	810	916	863	883	819	808	863	938	966	930			15,272	Devon Energy, USA	
25	184	182	168	212	140	188	111	114	215	219	126	134	140	150	177	196	209			3,931	Ecopetrol, Colombia	
26	216	224	241	243	247	264	330	442	450	540	586	765	814	837	1,062	1,129	1,105			11,017	Egyptian General Petroleum, Egypt	
27	349	377	450	486	521	602	735	829	926	926	1,094	1,178	1,229	1,302	1,401	1,037	1,162			16,386	EnCana, Canada	
28	799	809	810	821	843	854	961	1,121	1,207	1,272	1,292	1,447	1,447	1,502	1,615	1,597	1,657			36,679	ENI, Italy	
29	3,908	3,886	4,112	4,026	3,959	3,868	3,901	3,904	4,003	3,937	3,905	3,754	3,840	3,957	4,015	4,204	4,434			200,228	ExxonMobil, USA	
30	21,094	20,657	19,535	18,587	19,281	19,315	18,527	18,139	18,480	19,148	19,581	19,641	19,633	19,372	19,414	16,298	17,961			437,606	Former Soviet Union	
31	309	323	251	207	210	235	249	303	275	249	210	199	223	224	251	252	244			11,378	Gazprom, Russian Federation	
32	91	105	98	90	85	90	131	209	208	223	252	248	245	228	217	198	185			3,371	Hess, USA	
33	71	71	73	70	89	73	72	64	55	28	41	56	64	132	167	183	180			2,527	Husky, Canada	
34	165	212	211	209	207	183	270	249	318	336	325	347	367	371	501	434	418			8,967	Iraq National Oil Company, Iraq	
35	172	173	172	174	177	172	143	163	161	162	145	221	304	506	567	565	555			8,161	Kuwait Petroleum Corp., Kuwait	
36	345	390	418	445	436	458	442	465	449	427	384	340	309	338	371	350	320			4,611	Libya National Oil Corp., Libya	
37	94	92	82	98	84	88	84	103	108	79	51	33	27	22	20	68	130			14,804	Lukoil, Russian Federation	
38	88	81	89	142	153	101	100	108	102	111	108	96	87	86	83	83	95			2,122	Marathon, USA	
39	995	1,128	1,349	3,030	3,441	3,700	2,130	2,330	2,650	1,630	2,599	3,200	3,213	2,970	3,515	3,415	4,840			2,224	Murphy Oil, USA	
40	161	151	142	142	135	123	124	124	362	315	529	814	849	860	957	1,071	840			2,224	Nexen, Canada	
41	275	300	294	301	303	309	313	337	299	249	294	165	272	261	336	366	434			60,965	National Iranian Oil Company (NIOC), Iran	
42	601	691	761	789	650	665	869	896	898	918	908	811	849	887	898	984	988			9,012	Nigerian National Petroleum, Nigeria	
43				40	44	48	52	52	66	91	109	104	318	322	308	297	295			8,647	Occidental, USA	
44	1,149	1,165	1,240	1,235	1,182	1,361	1,266	1,150	226	335	395	411	405	406	427	502	533			18,312	Oil and Natural Gas Corporation, India	
45	599	608	795	740	767	860	647	747	783	942	1,104	1,398	1,695	2,040	2,345	2,607	2,928			2,145	OMV Group, Austria	
46	262	274	311	334	368	405	497	530	567	700	749	771	788	799	878	862	890			23,159	Pertamina, Indonesia	
47	834	897	1,925	1,925	2,144	2,075	1,456	1,494	1,369	2,373	639	701	763	826	888	830	830			24,433	PetroChina (CNPC), China	
48	1,323	1,372	1,535	1,630	1,749	1,748	1,708	1,647	1,614	1,642	1,669	1,759	1,955	2,211	2,525	2,566	2,562			13,276	Petrobras (Petrobras), Brazil	
49	164	161	164	175	176	129	280	460	526	548	629	633	823	872	854	838	981			39,282	Petroleos de Venezuela, Venezuela	
50	729	925	1,482	1,760	847	1,825	1,438	1,608	1,823	1,893	1,893	1,952	1,931	2,096	2,212	2,218	2,271			62,824	Petroleos Mexicanos (PEMEX), Mexico	
51					159	153	147	141	141	145	149	153	152	152	148	145	150			9,806	Petroleum Development Oman, Oman	
52	324	324	333	424	473	536	697	662	720	766	944	1,095	1,199	1,473	1,749	2,012	2,157			34,971	Petronas, Malaysia	
53	480	475	517	569	616	474	811	757	853	1,103	1,230	1,247	1,236	1,141	1,046	958	913			1,935	Polish Oil & Gas, Poland	
54	132	131	128	124	169	184	199	216	252	288	325	459	480	555	437	448	436			18,377	Qatar Petroleum, Qatar	
55	2,448	2,532	3,090	2,948	2,872	2,927	3,016	3,315	3,389	3,230	3,215	3,016	3,054	2,998	3,128	3,096	3,396			19,074	Repsol, Spain	
56	1,449	1,482	1,507	1,562	1,610	1,617	1,752	1,942	2,143	2,380	1,945	2,873	3,000	2,563	2,778	3,123	3,427			5,613	Rosneft, Russian Federation	
57						79	80	163	179	188	207	222	257	283	293	299	441			120,068	Royal Dutch Shell plc, The Netherlands	
58	13	12	13	13	13	13	13	13	12	14	13	14	14	15	18	15	16			50,289	Saudi Aramco, Saudi Arabia	
59	1,779	1,834	2,020	2,097	2,066	2,127	2,311	2,311	2,653	2,839	2,980	3,180	3,287	3,310	3,300	2,940	2,980			2,690	Sinopec, China	
60	261	254	351	650	946	1,036	696	729	884	975	1,093	1,290	1,333	1,352	1,469	1,519	1,509			350	Sonangol, Angola	
61	254	262	342	365	351	394	370	326	366	385	392	378	332	295	294	163	210			65,327	Sonatrach, Algeria	
62	84	74	103	115	142	148	149	130	152	156	162	140	141	133	131	143	196			19,079	Statoil, Norway	
63	181	237	237	240	274	330	362	369	379	398	462	481	490	462	455	468	499			6,987	Suncor / Petro-Canada, Canada	
64	1,131	1,134	1,227	1,242	1,134	1,159	1,375	1,482	1,654	1,747	1,990	2,001	1,967	2,006	2,117	1,941	2,347			2,731	Syrian Petroleum, Syria	
65							50	60	85	200	200	180								6,524	Talisman, Canada	
66																				37,309	Total, France	
67																				774	Yukos, Russian Federation	
68	53,000	53,530																				

Gas Production

Cell: EM50

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

Cell: EI116

Comment: Rick Heede:
2008-2010 are CIA estimates

Cell: B126

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: CN126

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

Cell: CT126

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: EC126

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: EM126

Comment: Rick Heede:
US Energy Information Administration: Table: Dry Natural Gas Production (Billion Cubic Feet) 1980-2010.

Cell: EN134

Comment: Rick Heede:

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Cell: EN135

Comment: Rick Heede:

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