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| 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | Production | Summary of natural gas production entered on entity worksheets | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | Richard Heede Climate Mitigation Services 17-May-13 | | | | | | | | | | Copyright Climate Mitigation Services | | | | | | | | | |
| 7 | | Natural Gas | Notes | 1870s | | | | | 1880s | | | | | 1890s | | | | | | | | | |
| 8 | | | | 1876 | 1877 | 1878 | 1879 | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | |
| 10 | | | Commissioned? | | | | | | | | | | | | | | | | | | | | |
| 12 | 1 | Abu Dhabi National Oil (ADNOC), UAE | yes | | | | | | | | | | | | | | | | | | | | |
| 14 | 2 | Anadarko, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 16 | 3 | Apache, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 18 | 4 | Bahrain Petroleum Corporation | yes | | | | | | | | | | | | | | | | | | | | |
| 20 | 5 | BG Group (British Gas), UK | yes | | | | | | | | | | | | | | | | | | | | |
| 22 | 6 | BHP Billiton, Australia | yes | | | | | | | | | | | | | | | | | | | | |
| 24 | 7 | BP, UK | yes | | | | | | | | | | | | | | | | | | | | |
| 26 | 8 | Canadian Natural Resources, Canada | yes | | | | | | | | | | | | | | | | | | | | |
| 28 | 9 | Chevron, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 30 | 10 | CNOOC (China National Offshore Oil), China | yes | | | | | | | | | | | | | | | | | | | | |
| 32 | 11 | ConocoPhillips, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 34 | 12 | CONSOL Energy, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 36 | 13 | Devon Energy, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 38 | 14 | Ecopetrol, Colombia | yes | | | | | | | | | | | | | | | | | | | | |
| 40 | 15 | Egyptian General Petroleum, Egypt | yes | | | | | | | | | | | | | | | | | | | | |
| 42 | 16 | EnCana, Canada | yes | | | | | | | | | | | | | | | | | | | | |
| 44 | 17 | ENI, Italy | yes | | | | | | | | | | | | | | | | | | | | |
| 46 | 18 | ExxonMobil, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 48 | 19 | Former Soviet Union | yes | | | | | | | | | | | | | | | | | | | | |
| 50 | 20 | Gazprom, Russian Federation | yes | | | | | | | | | | | | | | | | | | | | |
| 52 | 21 | Hess, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 54 | 22 | Husky, Canada | yes | | | | | | | | | | | | | | | | | | | | |
| 56 | 23 | Iraq National Oil Company, Iraq | yes | | | | | | | | | | | | | | | | | | | | |
| 58 | 24 | Kuwait Petroleum Corp., Kuwait | yes | | | | | | | | | | | | | | | | | | | | |
| 60 | 25 | Libya National Oil Corp., Libya | yes | | | | | | | | | | | | | | | | | | | | |
| 62 | 26 | Lukoil, Russian Federation | yes | | | | | | | | | | | | | | | | | | | | |
| 64 | 27 | Marathon, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 66 | 28 | Murphy Oil, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 68 | 29 | Nexen, Canada | yes | | | | | | | | | | | | | | | | | | | | |
| 70 | 30 | National Iranian Oil Company (NIOC), Iran | yes | | | | | | | | | | | | | | | | | | | | |
| 72 | 31 | Nigerian National Petroleum, Nigeria | yes | | | | | | | | | | | | | | | | | | | | |
| 74 | 32 | Occidental, USA | yes | | | | | | | | | | | | | | | | | | | | |
| 76 | 33 | Oil and Natural Gas Corporation, India | yes | | | | | | | | | | | | | | | | | | | | |
| 78 | 34 | OMV Group, Austria | yes | | | | | | | | | | | | | | | | | | | | |
| 80 | 35 | Pertamina, Indonesia | yes | | | | | | | | | | | | | | | | | | | | |
| 82 | 36 | PetroChina (CNPC), China | yes | | | | | | | | | | | | | | | | | | | | |
| 84 | 37 | Petroleo Brasileiro (Petrobras), Brazil | yes | | | | | | | | | | | | | | | | | | | | |
| 86 | 38 | Petroleos de Venezuela, Venezuela | yes | | | | | | | | | | | | | | | | | | | | |
| 88 | 39 | Petroleos Mexicanos (PEMEX), Mexico | yes | | | | | | | | | | | | | | | | | | | | |
| 90 | 40 | Petroleum Development Oman, Oman | yes | | | | | | | | | | | | | | | | | | | | |
| 92 | 41 | Petronas, Malaysia | yes | | | | | | | | | | | | | | | | | | | | |
| 94 | 42 | Polish Oil & Gas, Poland | yes | | | | | | | | | | | | | | | | | | | | |
| 96 | 43 | Qatar Petroleum, Qatar | yes | | | | | | | | | | | | | | | | | | | | |
| 98 | 44 | Repsol, Spain | yes | | | | | | | | | | | | | | | | | | | | |
| 100 | 45 | Rosneft, Russian Federation | yes | | | | | | | | | | | | | | | | | | | | |
| 102 | 46 | Royal Dutch Shell plc, The Netherlands | yes | | | | | | | | | | | | | | | | | | | | |
| 104 | 47 | Saudi Aramco, Saudi Arabia | yes | | | | | | | | | | | | | | | | | | | | |
| 106 | 48 | Sinopec, China | yes | | | | | | | | | | | | | | | | | | | | |
| 108 | 49 | Sonangol, Angola | yes | | | | | | | | | | | | | | | | | | | | |
| 110 | 50 | Sonatrach, Algeria | yes | | | | | | | | | | | | | | | | | | | | |
| 112 | 51 | Statoil, Norway | yes | | | | | | | | | | | | | | | | | | | | |
| 114 | 52 | Suncor / Petro-Canada, Canada | yes | | | | | | | | | | | | | | | | | | | | |
| 116 | 53 | Syrian Petroleum, Syria | yes | | | | | | | | | | | | | | | | | | | | |
| 118 | 54 | Talisman, Canada | yes | | | | | | | | | | | | | | | | | | | | |
| 120 | 55 | Total, France | yes | | | | | | | | | | | | | | | | | | | | |
| 122 | 56 | Yukos, Russian Federation | yes | | | | | | | | | | | | | | | | | | | | |
| 124 | | Annual gas prod'n by identified entities: | | | | | | | | | | | | | | | | | | | | | |
| 126 | | Annual world gas prod'n 1960-2010 | | | | | | | | | | | | | | | | | | | | | |
| 128 | | Percent identified prod'n of global prod'n | | | | | | | | | | | | | | | | | | | | | |

| | 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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| 46 | | 9 | 13 | 15 | 17 | 19 | 23 | 28 | 29 | 29 | 35 | 37 | 37 | 41 | 42 | 43 | 46 | 55 | 58 | | | | |
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| 124 | | 9 | 13 | 15 | 17 | 19 | 23 | 28 | 29 | 29 | 35 | 37 | 37 | 41 | 42 | 43 | 46 | 55 | 58 | | | | |
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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 | |
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| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Summary of natural gas production entered on entity worksheets | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Richard Heede Climate Mitigation Services 17-May-13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 1910s | | | 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 | |
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| 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 | |
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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 | |
| 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 136 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | | | | | | | | | | | | | | | | | | | | | | | |
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| 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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| 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 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 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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| 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 |
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| 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 |
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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 |
| 125 | | | | | | | | | | | | | | | | | | | | | | | | |
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| 136 | | | | | | | | | | | | | | | | | | | | | | | | |

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

Table with columns DS-EM and EN, rows 1-136. Includes 'Summary of natural gas production entered on entity worksheets', 'Production' table, and 'Annual gas prod'n by identified entities (Bcf)'.

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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Comment: Rick Heede:

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