

Cell: D11

Comment: Rick Heede:

Coal production by coal mining companies and state-owned enterprises, including subsidiaries of oil and gas companies.

Coal types produced are not ordinarily reported by coal operators (except for metallurgical coal). We distinguish, where possible and reasonably well known, between hard (bituminous and subbituminous) and soft (lignite or peat) coals, especially for the larger companies operating in regions such as Australia and India where soft coals are predominant. Soft coals have lower carbon content per tonne than do hard coals.

Cell: G15

Comment: Rick Heede:

Arch Coal acquired Vulcan Partners in 2002. Oligopoly Watch, www.oligopolywatch.com/2003/09/21.html

Cell: G19

Comment: Rick Heede:

ABOUT ARCH COAL: As one of the nation's largest and most efficient coal producers, we contribute roughly 16% of America's coal supply. We have a leading position in all three major low-sulfur coal basins, with mining complexes in Wyoming, Utah, Colorado, West Virginia, Kentucky, and Virginia.

www.archcoal.com

Cell: D40

Comment: Rick Heede:

Keystone Coal Industry Manual for 1975, p. 498, lists Arch Mineral Group coal production for 1973 and 1974. Various Keystone editions for data 1973-1981, plus 1986 (interpolated 1982-1985).

Cell: E48

Comment: Rick Heede:

ARCO annual report 1983 shows coal shipments 1981-1983.

Cell: E50

Comment: Rick Heede:

Coal shipment data (which we take as equivalent to production) for 1984-1987 from ARCO (1988) Annual Report 1987, p. 60.

Cell: E55

Comment: Rick Heede:

Atlantic Richfield Annural Report for 1992, p. 1, shows "annual coal shipments" for 1988-1992.

Keystone Coal Industry Manual for 1993, p. 372, shows 1991 production data for ARCO at 32.6 million tons, and 26.9 million tons in 1988.

Cell: E60

Comment: Rick Heede:

ARCO annual report 1993, Highlights, shows "coal shipments" for 1989-1993 in million tons; in 1993, 10.2 million tons foreign and 37.5 million tons domestic.

Cell: E61

Comment: Rick Heede:

EIA Coal Industry Annual 1994, p. 23.

Cell: E62

Comment: Rick Heede:

EIA Coal Industry Annual 1995, p. 24.

Cell: E63

Comment: Rick Heede:

EIA Coal Industry Annual 1997, p. 23, ARCO 51.013 million tons.

Cell: E64

Comment: Rick Heede:

No data in Keystone Coal Industry Manual. ARCO 1997 coal production from EIA Coal Industry Annual 1997, p. 23.

Cell: E65

Comment: Rick Heede:

Keystone (1999) states that "during 1998, Arch Coal purchased ARCO Coal Company."

Cell: G65

Comment: Rick Heede:

Keystone Coal Industry Manual for 2000 (with data for 1998), p. 22: Triton Coal Company.

Cell: D71

Comment: Rick Heede:

Arch Coal Annual Rpt 2006, "tons sold," in million short tons. No data on coal production, or CO2 or methane emissions. Does mention coal-to-liquids project in southern Wyoming "that plans to capture carbon dioxide for plant use in enhanced oil recovery." (page 16.)

Cell: D73

Comment: Rick Heede:

Arch Coal Annual rpt 2008, "tons sold," in million short tons. No data on coal production, or CO2 or methane emissions. Provides low-sulfur coal for electricity generation. 2010 report pg 55; adds Arch Coal tons sold from powder River Basin, Western Bituminous, and Central Appalachia.