

Coal extraction data

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Climate Mitigation Services
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Murray Energy Corp., USA

www.murrayenergy.net Cleveland

yellow column indicates original reported units

Production / Extraction data

| Year | Lignite | | Thermal Coal | | Total Coal | |
|------|------------------|-------------------|------------------|-------------------|------------------|-------------------|
| | Gross production | Gross production | Gross production | Gross production | Gross production | Gross production |
| | Million tons/yr | Million tonnes/yr | Million tons/yr | Million tonnes/yr | Million tons/yr | Million tonnes/yr |

- 17 1950
- 18 1951
- 19 1952
- 20 1953
- 21 1954
- 22 1955
- 23 1956
- 24 1957
- 25 1958
- 26 1959
- 27 1960
- 28 1961
- 29 1962
- 30 1963
- 31 1964
- 32 1965
- 33 1966
- 34 1967
- 35 1968
- 36 1969
- 37 1970
- 38 1971
- 39 1972
- 40 1973
- 41 1974
- 42 1975
- 43 1976
- 44 1977
- 45 1978
- 46 1979
- 47 1980
- 48 1981
- 49 1982
- 50 1983
- 51 1984
- 52 1985
- 53 1986
- 54 1987
- 55 1988
- 56 1989
- 57 1990
- 58 1991
- 59 1992
- 60 1993
- 61 1994
- 62 1995
- 63 1996
- 64 1997
- 65 1998
- 66 1999
- 67 2000
- 68 2001
- 69 2002
- 70 2003
- 71 2004
- 72 2005
- 73 2006
- 74 2007
- 75 2008
- 76 2009
- 77 2010

Murray Energy Corporation

Murray Energy Corporation is privately held



Coal Types

| | Type | Moisture | Ash | Sulfur | BTU | SO2 |
|---|------------|----------|--------|--------|--------|------|
| Illinois | | | | | | |
| The American Coal Company Galatia 5 Seam | Bituminous | 11.25% | 8.00% | 1.50% | 12,000 | 2.50 |
| The American Coal Company Galatia 6 Seam | Bituminous | 11.25% | 8.00% | 2.50% | 11,800 | 4.40 |
| Ohio | | | | | | |
| The Ohio Valley Coal Company Powhatan No.6 Mine | Bituminous | 8.00% | 9.00% | 4.25% | 12,500 | 6.80 |
| American Energy Corporation Century Mine | Bituminous | 8.00% | 9.00% | 4.50% | 12,500 | 7.20 |
| OhioAmerican Energy Inc. RedBlind West Project | Bituminous | 7.00% | 12.00% | 3.66% | 12,200 | 6.00 |
| Kentucky | | | | | | |
| KanAmerican Resources, Inc. Paradise Mine | Bituminous | 11.75% | 8.50% | 2.85% | 11,600 | 5.00 |
| Utah | | | | | | |
| UtahAmerican Energy, Inc. West Ridge Mine | Bituminous | 7.00% | 9.50% | 1.20% | 12,500 | 1.92 |

www.murrayenergy.net/coaltype.shtml

Founded in 1988

Privately-held company

| Year | Value | Source |
|------|-------|--------------|
| 1988 | 1.0 | Murray data |
| 1989 | 2.3 | interpolated |
| 1990 | 3.5 | interpolated |
| 1991 | 4.8 | interpolated |
| 1992 | 6.0 | interpolated |
| 1993 | 7.3 | interpolated |
| 1994 | 8.5 | interpolated |
| 1995 | 9.8 | interpolated |
| 1996 | 11.1 | interpolated |
| 1997 | 12.3 | interpolated |
| 1998 | 13.6 | interpolated |
| 1999 | 14.8 | interpolated |
| 2000 | 16.1 | EIA data |
| 2001 | 15.7 | EIA data |
| 2002 | 19.8 | EIA data |
| 2003 | 19.4 | EIA data |
| 2004 | 21.6 | NMA data |
| 2005 | 19.9 | EIA data |
| 2006 | 20.4 | EIA data |
| 2007 | 27.8 | EIA data |
| 2008 | 26.1 | EIA data |

| Year | Value |
|------|-------|
| 1 | 1 |
| 2 | 2 |
| 4 | 3 |
| 5 | 4 |
| 6 | 5 |
| 7 | 7 |
| 9 | 8 |
| 10 | 9 |
| 11 | 10 |
| 12 | 11 |
| 14 | 12 |
| 15 | 13 |
| 16 | 15 |
| 16 | 14 |
| 20 | 18 |
| 19 | 18 |
| 22 | 20 |
| 20 | 18 |
| 20 | 19 |
| 28 | 25 |
| 26 | 24 |
| 25 | 23 |
| 25 | 22 |

Btu values
 11,600 - 12,500
 High-sulfur coal
 S: 2.5 - 7.2
 "Bituminous"
 IL, OH, KY, & UT

20-year anniversary

| | | | | | | |
|--------------|---|---|------------|---|------------|------------|
| Total | - | - | 282 | - | 332 | 301 |
|--------------|---|---|------------|---|------------|------------|

| | | | | | | |
|-------------------------------------|---------|-------|------------|---------|---------------|-------|
| 1988 - 2008 total: 282 million tons | | | | | | |
| Coal Types: | Lignite | 0.00% | Bituminous | 100.00% | Metallurgical | 0.00% |
| 100.00% | | | | | | |

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: G54

Comment: Rick Heede:

www.murrayenergy.net:

"Murray is the largest privately owned coal company in America. Producing approximately 30 million annual tons of bituminous coal that provides affordable energy to households and businesses across the country. We have eight (8) underground and surface mining operations, plus 40 subsidiary and support companies."

Cell: G55

Comment: Rick Heede:

[www.murrayenergy.net / history](http://www.murrayenergy.net/history):

"Murray Energy Corporation began in 1988 with the purchase of a single continuous miner operation having an annual output of One Million Tons per year.

Cell: G67

Comment: Rick Heede:

Coal production 2000-2003 from EIA (various) Annual Coal Report.

Cell: G71

Comment: Rick Heede:

National Mining Association (2005) Coal Producers Survey, May 2005, p. 9.

Cell: J76

Comment: Rick Heede:

NMA Coal Producers Survey 2009 and 2010 pdf, pg 10, table 1, million short tons