Coal extraction data

Richard Heede
Climate Accountability Institute
File started: 11 January 2005
Last modified: July 2019

Poland

yellow column indicates original reported units

www.

Production / Extraction data

Year	Lignite & Bituminous		Anthracite & Coke		Total Coal	
	Gross production	Gross production	Gross production	Gross production	Gross production	Gross production
	Million tons/yr	Million tons/yr	Million tons/yr	Million tons/yr	Million tons/yr	Million tonnes/yr
	million tone				million tons	million tonnes
1913	32.83	Chemical & Metallurgical Engineering			32.8	30
1914	32.52	interpolated			32.5	29
1915	32.20	interpolated			32.2	29
1916	31.89	interpolated			31.9	29
1917	31.58	interpolated			31.6	29
1918	31.26	interpolated			31.3	28
1919	30.95	interpolated			31.0	28
1920	30.64	Chemical & Metallurgical Engineering			30.6	28
1921	31.32	interpolated			31.3	28
1922	32.01	interpolated			32.0	29
1923	32.70	interpolated			32.7	30
1924	33.38	interpolated			33.4	30
1925	34.07	interpolated			34.1	31
1926	34.75	interpolated			34.8	32
1927	35.44	interpolated			35.4	32
1928	36.13	interpolated			36.1	33
1929	36.81	interpolated			36.8	33
1930	37.50	Chemical & Metallurgical Engineering			37.5	34
1931				interpolated	38.1	35
1932				interpolated	38.6	35
1933				interpolated	39.2	36
1934				interpolated	39.8	36
1935				interpolated	40.3	37
1936				interpolated	40.9	37
1937				interpolated	41.4	38
1938	37.5	42.00	UN statistics (from Australia Year Book 1953)		42.0	38
1939	40.9	45.8	interpolated		45.8	42
1940	44.3	49.6	interpolated		49.6	45
1941	47.7	53.4	interpolated		53.4	48
1942	51.1	57.2	interpolated		57.2	52
1943	54.4	61.0	interpolated		61.0	55
1944	57.8	64.8	interpolated		64.8	59
1945	61.2	68.6	interpolated		68.6	62
1946	64.6	72.4	interpolated		72.4	66
1947	68.0	76.2	interpolated		76.2	69
1948	71.4	80.0	UN statistics (from Australia Year Book 1953)		80.0	73
1949	75.3	84.3	UN statistics (from Australia Year Book 1953)		84.3	76
1950	79.3	88.8	UN statistics (from Australia Year Book 1953)		88.8	81
1951				interpolated	92.4	84
1952				interpolated	96.1	87
1953				interpolated	99.8	90
1954				interpolated	103.4	94
1955				interpolated	107.1	97
1956				interpolated	110.7	100
1957				interpolated	114.4	104
1958				interpolated	118.1	107
1959				interpolated	121.7	110
1960	10.3	115.1	US BuMines	1960-1971	125.4	114
1961	11.4	117.5			128.9	117
1962	12.2	120.8			133.0	121
1963	16.9	124.7			141.6	128
1964	22.4	129.4			151.7	138
1965	24.9	131.0			155.9	141
1966	27.0	134.5			161.5	146
1967	26.4	136.6			162.9	148
1968	29.7	141.8			171.4	156
1969	34.0	148.8			182.8	166
1970	36.1	154.4			190.6	173
1971	38.0	160.4			198.4	180
1972			EIA Coal stats		215.7	196
1973			1972-1979		215.9	196
1974					222.5	202
1975					233.1	211
1976			EIA total primary coal includes metallurgical		241.0	219
1977					250.1	227
1978					257.5	234
1979					263.6	239
1980	117.3	114.6	-	21.6	253.5	230
1981	101.3	99.0	-	18.6	219.0	199
1982	115.8	113.1	-	21.3	250.2	227
1983	119.2	116.4	-	21.9	257.5	234
1984	123.4	120.6	-	22.7	266.7	242
1985	127.2	124.3	-	23.4	274.9	249
1986	132.3	129.3	-	24.3	285.9	259
1987	135.8	132.7	-	25.0	293.4	266
1988	135.8	132.7	-	25.0	293.4	266
1989	127.1	124.2	-	23.4	274.7	249
1990	109.7	107.2	-	20.2	237.1	215
1991	106.8	104.4	-	19.7	230.9	209
1992	101.1	98.8	-	18.6	218.4	198
1993	101.1	98.8	-	18.6	218.4	198
1994	102.0	99.6	-	18.8	220.3	200
1995	101.9	99.6	-	18.7	220.2	200
1996	102.5	100.1	-	18.9	221.4	201
1997	102.2	99.8	-	18.8	220.8	200
1998	90.8	88.7	-	16.7	196.2	178
1999	86.8	84.8	-	16.0	187.6	170
2000	82.5	80.6	-	15.2	178.2	162
2001	83.1	81.2	-	15.3	179.5	163
2002	82.1	80.2	-	15.1	177.4	161
2003	82.9	81.0	-	15.3	179.2	163
2004	82.5	80.6	-	15.2	178.3	162
2005	81.0	79.1	-	14.9	175.0	159
2006	79.2	77.4	-	14.6	171.1	155
2007	73.9	72.2	-	13.6	159.8	145
2008	73.1	71.4	-	13.5	158.0	143
2009	68.6	67.1	-	12.6	148.4	135
2010	67.7	66.1	-	12.5	146.3	133
2011	70.6	69.0	-	13.0	152.7	139
2012	73.2	71.5	-	13.5	158.2	144
2013	72.6	70.9	-	13.4	156.9	142
2014	70.4	66.4	-	13.5	150.4	136
2015	69.6	65.2	-	14.3	149.1	135
2016	66.4	63.0	-	14.6	144.0	131
2017	67.4	58.4	-	13.6	139.5	127
2018					122	BP 122.4 BP 2018 (tent.)
Total	**3,586**	**3,490**	**-**	**666**	**14,230**	**13,032**

US BuMines data: lignite (million tons), bituminous (million tons)

EIA coal production data for Poland 1980-2010 (see page 2 for details).

Lignite (million tons)	Bituminous (million tons)	Anthracite (million tons)	Metallurgical (million tons)
117.3	114.6	-	21.6
101.3	99.0	-	18.6
115.8	113.1	-	21.3
119.2	116.4	-	21.9
123.4	120.6	-	22.7
127.2	124.3	-	23.4
132.3	129.3	-	24.3
135.8	132.7	-	25.0
135.8	132.7	-	25.0
127.1	124.2	-	23.4
109.7	107.2	-	20.2
106.8	104.4	-	19.7
101.1	98.8	-	18.6
101.1	98.8	-	18.6
102.0	99.6	-	18.8
101.9	99.6	-	18.7
102.5	100.1	-	18.9
102.2	99.8	-	18.8
90.8	88.7	-	16.7
86.8	84.8	-	16.0
82.5	80.6	-	15.2
83.1	81.2	-	15.3
82.1	80.2	-	15.1
82.9	81.0	-	15.3
82.5	80.6	-	15.2
81.0	79.1	-	14.9
79.2	77.4	-	14.6
73.9	72.2	-	13.6
73.1	71.4	-	13.5
68.6	67.1	-	12.6
67.7	66.1	-	12.5
70.6	69.0	-	13.0
73.2	71.5	-	13.5
72.6	70.9	-	13.4
70.4	66.4	-	13.5
69.6	65.2	-	14.3
66.4	63.0	-	14.6
67.4	58.4	-	13.6

BP StatRev 2018 (Mt)

198.4
198.6
200.7
200.7
201.7
200.9
178.6
172.7
162.8
163.5
161.9
163.8
161.3
159.5
156.1
145.9
144.0
135.2
133.2
139.3
144.1
142.9
137.1
135.8
131.0
127.1

	Lignite:	Bituminous	Anthracite	Metallurgical	Subtotal 1980-2017	
Coal Types:					7,742	Msht
Percent 1980-2017:	46.32%	45.08%	0.0%	8.60%	100.00%	

Industrial Conditions in Polish Upper Silesia

A SURVEY of the industries acquired by Poland in the Upper Silesian territory by the decision of the League of Nations is given in *Commerce Reports* for Jan. 30, 1922.

The coal production for 1913 of the mines assigned to Poland was 32,829,000 tons; in 1920 these mines produced 24,637,000 tons and those in present German territory 7,114,000 tons. The net coal production of the former Polish territory (Congress Poland and Galicia) at present may be put at about 6,000,000 tons. It is estimated that, with the acquisition of the Upper Silesian territory, Poland can export about 10,000,000 tons in 1922.

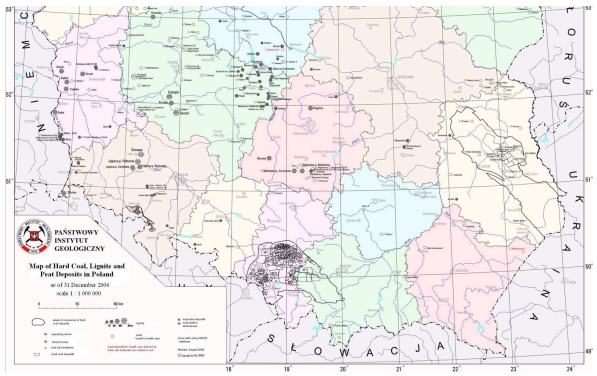
Chemical & Metallurgical Engineering, Vol. 26 (6):260.

COAL : PRODUCTION IN FOREIGN COUNTRIES.

('000 Tons of 2,240 lb.)

Country.	Black Coal. 1938.	1948.	1949.	1950.	Brown Coal, Lignite. 1938.	1948.	1949.	1950.
United States of America	319,684	605,282	442,960	512,861	2,677	2,755	2,761	3,036
Western Germany ..	*b* 283,238	88,434	104,894	112,539	*b* 191,899	65,901	73,424	77,058
Poland	37,502	71,388	75,265	79,252	9	5,121	4,694	(*a*)
France	45,770	43,991	52,026	51,660	1,041	1,865	1,878	1,719
Japan	47,915	34,408	38,675	39,078	(*a*)	2,597	2,122	1,305
Belgium	29,118	27,104	28,299	27,738	..	..	..	..
Czechoslovakia ..	15,900	18,033	17,277	18,752	15,779	2,397	2,695	2,795
Netherlands	13,275	11,205	11,888	12,449	168	280	207	195
Spain	5,559	10,595	10,815	11,217	163	1,414	1,341	1,366
Turkey	2,548	4,085	4,255	4,426	143	1,013	1,292	1,167
Chile	2,011	2,268	2,109	2,219	..	..	..	..
Brazil	871	2,061	2,158	1,987	..	..	..	..
Italy	1,505	588	1,122	1,047	886	922	846	793
Mexico	879	1,077	1,089	957	..	..	..	..
Indonesia	1,480	548	673	812	..	..	..	..
Nigeria	374	628	568	604	..	..	..	..
Portugal	303	393	451	433	28	105	113	96
Malaya	494	388	400	429	..	..	..	..
Norway	304	444	463	390	..	..	..	..

(*a*) Not available. (*b*) Pre-war Germany.



Location of Hard Coal Basins

Poland's Lignite Deposits

Global Methane Initiative (2010) Country Profiles: Poland, www.globalmethane.org/tools-resources/coal_overview.aspx

EIA statistics, "International Energy Statistics" 1980 - forward

Poland

EIA data updated June 2019

	Lignite EIA coal stats: thousand tons	Bituminous EIA coal stats: thousand tons	Anthracite EIA coal stats: thousand tons	Metallurgical EIA coal stats: thousand tons	Total Primary coal EIA coal stats: thousand tons
					Includes met coal
1980	117,302	114,632	-	21,583	253,517
1981	101,313	99,007	-	18,641	218,961
1982	115,760	113,125	-	21,299	250,184
1983	119,157	116,445	-	21,925	257,527
1984	123,414	120,604	-	22,708	266,726
1985	127,197	124,302	-	23,404	274,903
1986	132,272	129,261	-	24,338	285,871
1987	135,775	132,684	-	24,982	293,441
1988	135,774	132,683	-	24,982	293,439
1989	127,092	124,199	-	23,384	274,675
1990	109,697	107,200	-	20,184	237,081
1991	106,819	104,387	-	19,654	230,860
1992	101,072	98,771	-	18,597	218,440
1993	101,065	98,764	-	18,596	218,425
1994	101,955	99,634	-	18,759	220,348
1995	101,873	99,554	-	18,744	220,171
1996	102,463	100,131	-	18,853	221,447
1997	102,160	99,834	-	18,797	220,791
1998	90,769	88,703	-	16,701	196,173
1999	86,789	84,813	-	15,969	187,571
2000	82,475	80,597	-	15,175	178,247
2001	83,050	81,160	-	15,281	179,491
2002	82,082	80,213	-	15,103	177,398
2003	82,921	81,034	-	15,257	179,212
2004	82,481	80,603	-	15,176	178,260
2005	80,966	79,123	-	14,898	174,987
2006	79,184	77,381	-	14,570	171,135
2007	73,927	72,244	-	13,602	159,773
2008	73,103	71,439	-	13,451	157,993
2009	68,644	67,081	-	12,630	148,355
2010	67,673	66,132		12,452	146,257
2011	70,645	69,037		12,998	152,680
2012	73,198	71,531		13,468	158,197
2013	72,586	70,934		13,356	156,876
2014	70,412	66,416		13,545	150,373
2015	69,587	65,247		14,313	149,147
2016	66,410	63,031		14,555	143,996
2017	67,418	58,421		13,647	139,486
2018					
2019					

est. (2010)

https://www.eia.gov/beta/international/data/browser/index.cfm

subt. 1980-2017	3,586,480	3,490,357	-	665,577	7,742,414
percent of 2017	48.3%	41.9%	0.0%	9.8%	100%
% 1980-2017:	46.3%	45.1%	0.0%	8.6%	100%

	million sh tons	BP StatRev 2018 Mt
1980	219.0	198.6
1981	250.2	227.0
1982	257.5	233.6
1983	266.7	242.0
1984	274.9	249.4
1985	285.9	259.3
1986	293.4	266.2
1987	293.8	266.5
1988	275.0	249.5
1989	237.3	215.3
1990	231.3	209.8
1991	218.7	198.4
1992	218.9	198.6
1993	221.2	200.7
1994	221.3	200.7
1995	222.4	201.7
1996	221.5	200.9
1997	196.8	178.6
1998	190.4	172.7
1999	179.5	162.8
2000	180.3	163.5
2001	178.5	161.9
2002	180.5	163.8
2003	177.8	161.3
2004	175.9	159.5
2005	172.0	156.1
2006	160.8	145.9
2007	158.7	144.0
2008	149.0	135.2
2009	146.9	133.2
2010	153.5	139.3
2011	158.8	144.1
2012	157.5	142.9
2013	151.2	137.1
2014	149.7	135.8
2015	144.4	131.0
2016	140.1	127.1
2017	135.0	122.4
2018		
2019		

Coal methane emissions

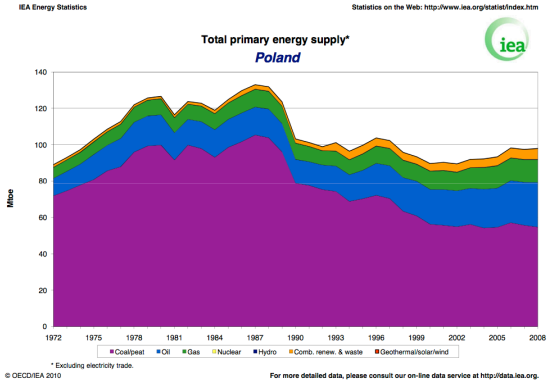
CMM emissions million cubic meters		Crude CMM rate Cubic meters per tonne CH4 content ranges
		#DIV/0!
		#DIV/0!
		#DIV/0!
		#DIV/0!
		#DIV/0!
		#DIV/0!
		#DIV/0!
		#DIV/0!
		#DIV/0!
1,175	est EPA *	#DIV/0!
1,158	interpolated	#DIV/0!
1,142	interpolated	#DIV/0!
1,125	interpolated	#DIV/0!
1,109	interpolated	#DIV/0!
1,092	est EPA *	#DIV/0!
1,040	interpolated	#DIV/0!
988		#DIV/0!
937		#DIV/0!
885		#DIV/0!
833	est EPA *	
712		
591		
470	est EPA *	
632		
794	est EPA *	
684	est Skiba	

Global Methane Intitiative (2010)
See sources below

Coal and Peat in Poland in 2008

	Anth-racite	Coking Coal	Other Bitu-minous Coal	Sub-Bitu-minous Coal	Lignite/ Brown Coal	Peat	Patent Fuel	Coke Oven Coke	Gas Coke	Coal Tar	BKB Peat Briquettes	Gas Works Gas*	Coke Oven Gas*	Blast Furnace Gas*	Oxygen Steel Furnace Gas *
Unit	*kt*	*kt*	*kt*	*kt*	*kt*	*kt*	*kt*	*kt*	*kt*	*kt*	*kt*	*TJ*	*TJ*	*TJ*	*TJ*
Production	0	12024	71637	0	59668	0	0	9831	0	417	0	0	82273	28551	0
From Other Sources	0	0	684	0	0	0	0	0	0	0	0	106	0	0	0
Imports	0	3500	6831	0	20	0	9	85	0	11	8	0	0	0	0
Exports	0	-1683	-6778	0	-1	0	0	-6118	0	-326	0	0	0	0	0
Stock Changes	0	-829	-2718	0	-36	0	-7	-509	0	8	0	0	0	0	0
Domestic Supply	**0**	**13012**	**69656**	**0**	**59651**	**0**	**2**	**3289**	**0**	**110**	**8**	**106**	**82273**	**28551**	**0**
Statistical Differences	0	308	-2564	0	-280	0	0	121	0	-3	0	0	1865	0	0

International Energy Agency, Coal Statistics, eia.org/stats/



International Energy Agency, Coal Statistics, eia.org/stats/

Table 27-1. Poland's Coal Reserves and Production

Indicator	Anthracite & Bituminous (million tonnes)	Sub-bituminous & Lignite (million tonnes)	Total (million tonnes)	Global Rank (# and %)
Estimated Proved Coal Reserves (2006)*	6,012	1,490	7,502	10 (1.6%)
Annual Coal Production (2007)** (2006)	87.4	57.5	144.9	9 (2.4%)

Source: *EIA (2008); **IEA (2007b)

Global Methane Initative (2010) Coal Mine Methane Country Profiles, Poland, chapter 27, www.globalmethane.org/tools-resources/coal_overview.aspx

Table 27-4. Poland's CMM Emissions (million cubic meters)

Emission Category	1990	1992	1994	1995	2000	2003	2005	2006
Underground coal mines – ventilation emissions	N/A	N/A	N/A	N/A	399*	N/A	N/A	578‡
Underground coal mines – all emissions	N/A	N/A	N/A	N/A	N/A	722	N/A	251‡
Post-underground emissions	N/A	N/A	N/A	N/A	N/A	110	N/A	N/A
Surface mine emission (total)	N/A	N/A	N/A	N/A	N/A	1.15	N/A	N/A
Total liberated (= sum of all above)	1175	923	1064	N/A	N/A	833	N/A	829‡
Recovered & Used	N/A	N/A	N/A	N/A	N/A	363	N/A	145‡
Total emitted (= Total liberated – recovered & used)	1175†	N/A	N/A	1092†	833†	470	794†	684‡

Source: UNFCCC (1998); *USEPA (2003); †USEPA (2006); 2003 data from UNFCCC (2007a); ‡Skiba (2007)

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: E17
Comment: Rick Heede:
Coal production in Selesia and Poland, 1913, 1920, and 1930:
No author (1922) "Industrial Conditions in Polish Upper Silesia, Chemical & Metallurgical Engineering, vol. 26 (6):260.

Cell: E34
Comment: Rick Heede:
"Total exports [from Poland] rose from under 500,000 tonnes in 1922 to some 12.5 million tonnes annually from 1923-31. Domestic consumption took two-thirds of production in 1930, but the rest was exported. Despite the shrinking international market during the world-wide depression, Poland increased production and its share of exports rose from 6 percent in 1929 to 18 percent in 1937."
Greenberg, Dolores "Fueling the Illusion of Progress: Energy and Industrialization in the European Experience, in: Byrne, John, & Daniel Rich (1992) "Energy and the Environment,: the policy challenge," p. 102.
CMS assumes (until better data becomes available) coal production in Poland of 13 million tonnes in 1922 rising to 3*12.5 = 37.5 million tonnes in 1930 and 1931. CMS interpolates between 1923 and 1930.

Cell: D42
Comment: Rick Heede:
Data from table at right, based on UN data, for coal production in Poland 1938 and 1948-1950.
Commonwealth of Australia Bureau of Census and Statistics (1953) Official Year Book of the Commonwealth of Australia for 1952, No. 39, ACT, page 832; 1,413 pp.

Cell: F81
Comment: Rick Heede:
EIA (2011) International Energy Statistics on World Coal Production (lignite, bituminous, anthracite, and metallurgical coal), by country; data for1980-2009; total Primary Coal Production data extends to 2010. www.eia.gov/emeu/international/energy.html or www.eia.gov/countries/data.cfm.

Cell: M93
Comment: Rick Heede:
BP Statistical Review of World Energy for 2018, June 2019.

Cell: J113
Comment: Rick Heede:
EIA (2005) Table 5.4, World Lignite Production 1980-2003, www.eia.doe.gov/emeu/international/energy.html

Cell: K117
Comment: Rick Heede:
CAI adopts coal production data for 2013 to 2017 from the BP Statistical Review 2018.

Cell: N122
Comment: Rick Heede:
CAI adopts coal production data for 2017 and 2018 from the BP Statistical Review 2018.
Subject to revision once EIA data is available.

Cell: J133
Comment: Rick Heede:
EIA (2019) International Energy Statistics on World Coal Production (lignite, bituminous, anthracite, and metallurgical coal), by country; data for1980-2017; https://www.eia.gov/beta/international/data/browser/

Cell: H135
Comment: Rick Heede:
EIA (2019) International Energy Statistics on World Coal Production (lignite, bituminous, anthracite, and metallurgical coal), by country; data for1980-2017; https://www.eia.gov/beta/international/data/browser/

Cell: N135
Comment: Rick Heede:
BP Statistical Review of World Energy for 2018, June 2019.

Cell: J174
Comment: Rick Heede:
EIA International Energy Statistics for Poland, thousand short tons; data by coal rank only for 2013-2015. Previous data series from older EIA data. CAI includes metallurgical coal production.
https://www.eia.gov/beta/international/data/browser/index.cfm

Cell: R241
Comment: Rick Heede:

Left blank