

## Coal extraction data

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Climate Mitigation Services  
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### Poland

www.

yellow column indicates original reported units

### Production / Extraction data

Year	Lignite & Bituminous		Anthracite & Coke		Total Coal	
	Gross production Million tons/yr	Gross production Million tons/yr	Gross production Million tons/yr	Gross production Million tons/yr	Gross production Million tons/yr	Gross production Million tonnes/yr
1913	32.83				32.8	30
1914	32.52				32.5	29
1915	32.20				32.2	29
1916	31.89				31.9	29
1917	31.58				31.6	29
1918	31.26				31.3	28
1919	30.95				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

Year	US BuMines data on Poland		EIA Coal stats 1972-1979
	million long tons	million tons	
1938	37.5	42.00	42.0
1939	40.9	45.8	45.8
1940	44.3	49.6	49.6
1941	47.7	53.4	53.4
1942	51.1	57.2	57.2
1943	54.4	61.0	61.0
1944	57.8	64.8	64.8
1945	61.2	68.6	68.6
1946	64.6	72.4	72.4
1947	68.0	76.2	76.2
1948	71.4	80.0	80.0
1949	75.3	84.3	84.3
1950	79.3	88.8	88.8
1951			92.4
1952			96.1
1953			99.8
1954			103.4
1955			107.1
1956			110.7
1957			114.4
1958			118.1
1959			121.7
1960	10.3	115.1	125.4
1961	11.4	117.5	128.9
1962	12.2	120.8	133.0
1963	16.9	124.7	141.6
1964	22.4	129.4	151.7
1965	24.9	131.0	155.9
1966	27.0	134.5	161.5
1967	26.4	136.6	162.9
1968	29.7	141.8	171.4
1969	34.0	148.8	182.8
1970	36.1	154.4	190.6
1971	38.0	160.4	198.4

Year	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
1980	40.6	212.9	-	22.1
1981	39.2	179.7	-	20.4
1982	41.5	208.7	-	19.5
1983	46.9	210.6	-	19.4
1984	55.5	211.2	-	18.9
1985	63.7	211.2	-	17.9
1986	74.1	211.7	-	18.3
1987	80.7	212.8	-	19.2
1988	81.0	212.4	-	19.3
1989	79.2	195.5	-	18.6
1990	74.5	162.6	-	15.1
1991	76.5	154.4	-	12.6
1992	73.7	144.7	-	12.2
1993	75.1	143.2	-	11.3
1994	73.6	146.5	-	12.6
1995	70.0	150.9	-	12.8
1996	70.4	151.7	-	11.4
1997	69.6	151.5	-	11.6
1998	69.2	127.3	-	10.7
1999	67.1	121.3	-	9.2
2000	65.6	113.7	-	10.0
2001	65.6	114.4	-	9.9
2002	64.2	114.1	-	9.6
2003	67.2	112.1	-	11.1
2004	67.5	110.8	-	11.1
2005	67.9	107.0	-	9.3
2006	67.1	104.1	-	10.6
2007	63.4	96.3	-	11.2
2008	65.8	92.2	-	10.8
2009	63.0	85.4	-	7.8
2010	61.6	83.5	-	7.8

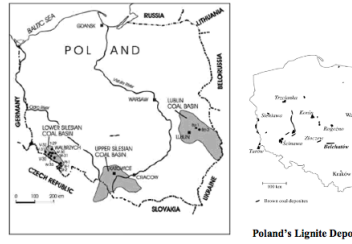
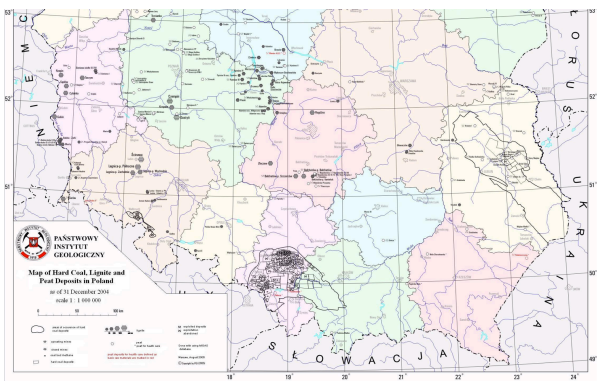
### Industrial Conditions in Polish Upper Silesia

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. No author (1922) "Industrial Conditions in Polish Upper Silesia. Chemical & Metallurgical Engineering, vol. 26 (6):260.

### COAL : PRODUCTION IN FOREIGN COUNTRIES. ('000 Tons of 2,240 lb.)

Country.	Black Coal.				Brown Coal, Lignite.			
	1938.	1948.	1949.	1950.	1938.	1948.	1949.	1950.
United States of America	319,684	605,282	442,950	512,861	2,677	2,755	2,761	3,036
Western Germany	183,238	88,434	104,894	112,539	191,899	65,901	73,424	77,058
Poland	37,957	71,385	75,455	79,515	9	5,121	4,904	(a)
France	45,770	43,991	52,025	51,660	1,041	1,865	1,878	1,719
Japan	47,945	34,468	38,673	39,978	(a)	2,597	2,122	1,305
Belgium	59,418	57,104	55,599	57,735				
Czechoslovakia	15,900	16,033	17,277	16,725	15,779	2,397	2,695	2,795
Netherlands	13,775	11,205	11,858	12,449	165	266	207	195
Spain	5,550	10,955	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	2,058	2,109	2,219				
Brazil	871	2,062	2,158	1,987				
Italy	3,505	958	1,121	1,047	886	922	846	793
Mexico	879	1,077	1,080	937				
Indonesia	1,480	545	673	812				
Nigeria	374	628	658	604				
Portugal	393	393	451	433	18	103	113	96
Malaya	494	358	409	459				
Norway	394	444	451	395				

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

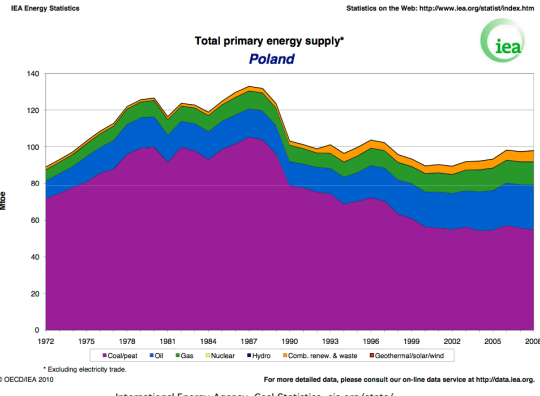


Location of Hard Coal Basins Global Methane Initiative (2010) Country Profiles: Poland, www.globalmethane.org/tools-resources/coal\_overview.aspx

Year	Lignite		Bituminous		Anthracite		Metallurgical	
	million tons	million tons	million tons	million tons	million tons	million tons	million tons	million tons
1980	40.6	212.9	-	-	-	-	22.1	22.1
1981	39.2	179.7	-	-	-	-	20.4	20.4
1982	41.5	208.7	-	-	-	-	19.5	19.5
1983	46.9	210.6	-	-	-	-	19.4	19.4
1984	55.5	211.2	-	-	-	-	18.9	18.9
1985	63.7	211.2	-	-	-	-	17.9	17.9
1986	74.1	211.7	-	-	-	-	18.3	18.3
1987	80.7	212.8	-	-	-	-	19.2	19.2
1988	81.0	212.4	-	-	-	-	19.3	19.3
1989	79.2	195.5	-	-	-	-	18.6	18.6
1990	74.5	162.6	-	-	-	-	15.1	15.1
1991	76.5	154.4	-	-	-	-	12.6	12.6
1992	73.7	144.7	-	-	-	-	12.2	12.2
1993	75.1	143.2	-	-	-	-	11.3	11.3
1994	73.6	146.5	-	-	-	-	12.6	12.6
1995	70.0	150.9	-	-	-	-	12.8	12.8
1996	70.4	151.7	-	-	-	-	11.4	11.4
1997	69.6	151.5	-	-	-	-	11.6	11.6
1998	69.2	127.3	-	-	-	-	10.7	10.7
1999	67.1	121.3	-	-	-	-	9.2	9.2
2000	65.6	113.7	-	-	-	-	10.0	10.0
2001	65.6	114.4	-	-	-	-	9.9	9.9
2002	64.2	114.1	-	-	-	-	9.6	9.6
2003	67.2	112.1	-	-	-	-	11.1	11.1
2004	67.5	110.8	-	-	-	-	11.1	11.1
2005	67.9	107.0	-	-	-	-	9.3	9.3
2006	67.1	104.1	-	-	-	-	10.6	10.6
2007	63.4	96.3	-	-	-	-	11.2	11.2
2008	65.8	92.2	-	-	-	-	10.8	10.8
2009	63.0	85.4	-	-	-	-	7.8	7.8
2010	61.6	83.5	-	-	-	-	7.8	7.8

Total	2,041	4,654	-	422	13,183	11,959
Coal Types:	Lignite: 30.48%	Bituminous 69.52%	Anthracite	0.00%	100.00%	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	<b>Poland</b>																		
	Lignite		Bituminous		Anthracite		Metallurgical		Total Primary coal		<b>Coal methane emissions</b>								
	EIA coal stats:		EIA coal stats:		EIA coal stats:		EIA coal stats:		EIA coal stats:		<b>CMM emissions</b>								
	thousand tons		thousand tons		thousand tons		thousand tons		thousand tons		million cubic meters								
									excludes metallurgical		Crude CMM rate								
											Cubic meters per tonne								
											CH4 content ranges up to 33 m³ per tonne								
128	1980	40,638	212,879	-	22,121	253,517					1,175	est EPA *							
129	1981	39,174	179,701	-	20,369	218,875					1,158	interpolated							
130	1982	41,501	208,683	-	19,542	250,184					1,142	interpolated							#DIV/0!
131	1983	46,884	210,643	-	19,379	257,526					1,125	interpolated							#DIV/0!
132	1984	55,532	211,194	-	18,866	266,726					1,109	interpolated							#DIV/0!
133	1985	63,654	211,249	-	17,900	274,903					1,092	est EPA *							#DIV/0!
134	1986	74,139	211,732	-	18,308	285,871					1,040	interpolated							#DIV/0!
135	1987	80,683	212,758	-	19,227	293,441					988								#DIV/0!
136	1988	81,008	212,432	-	19,271	293,440					937								#DIV/0!
137	1989	79,164	195,511	-	18,613	274,675					885								#DIV/0!
138	1990	74,499	162,583	-	15,070	237,082					835	est EPA *							#DIV/0!
139	1991	76,507	154,353	-	12,578	230,860					712								#DIV/0!
140	1992	73,692	144,748	-	12,229	218,440					591								#DIV/0!
141	1993	75,073	143,178	-	11,334	218,251					470	est EPA *							#DIV/0!
142	1994	73,601	146,505	-	12,628	220,106					632								#DIV/0!
143	1995	70,049	150,895	-	12,764	220,944					794	est EPA *							#DIV/0!
144	1996	70,377	151,671	-	11,398	222,048					684	est Skiba							#DIV/0!
145	1997	69,632	151,544	-	11,614	221,175					Global Methane Initiative (2010)								
146	1998	69,247	127,309	-	10,744	196,556					See sources below								
147	1999	67,064	121,256	-	9,224	188,320													
148	2000	65,573	113,674	-	9,976	179,247													
149	2001	65,645	114,401	-	9,876	180,046													
150	2002	64,165	114,085	-	9,589	178,250													
151	2003	67,153	112,060	-	11,147	179,213													
152	2004	67,459	110,801	-	11,130	178,260													
153	2005	67,942	107,045	-	9,264	174,988													
154	2006	67,069	104,066	-	10,597	171,135													
155	2007	63,425	96,349	-	11,208	159,773													
156	2008	65,773	92,220	-	10,837	157,993													
157	2009	62,951	85,373	-	7,821	148,324													
158	2010	est. 61,566	83,495	-	7,821	145,061													
159	Lignite & bituminous allocated to 2009 % of 2010				assume 2010=2009														
160	subt. 1980-2010		2,040,836	4,654,395	-	422,462	6,695,231												
161	percent of 2009		42.44%	57.56%	0.00%	0.00%	100.00%												
162	% 1980-2010:		30.5%	69.5%	100%														



Coal and Peat in Poland in 2008

	Anthracite	Coking Coal	Other Bituminous Coal	Sub-bituminous 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	-9778	0	-1	0	0	-6118	0	-326	0	0	0	0	0
Stock Changes	0	-629	-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/

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 Initiative (2010) Coal Mine Methane Country Profiles, Poland, chapter 27, [www.globalmethane.org/tools-resources/coal\\_overview.aspx](http://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 <sup>2</sup>
Underground coal mines – all emissions	N/A	N/A	N/A	N/A	N/A	722	N/A	251 <sup>2</sup>
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 <sup>2</sup>
Recovered & Used	N/A	N/A	N/A	N/A	N/A	363	N/A	145 <sup>2</sup>
Total emitted (= Total liberated – recovered & used)	1175 <sup>1</sup>	N/A	N/A	1092 <sup>1</sup>	833 <sup>1</sup>	470	794 <sup>1</sup>	684 <sup>2</sup>

Source: UNFCCC (1998); \*USEPA (2003); <sup>1</sup>USEPA (2006); 2003 data from UNFCCC (2007a); <sup>2</sup>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 Silesia 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  $3 \times 12.5 = 37.5$  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 for 1980-2009; total Primary Coal Production data extends to 2010. [www.eia.gov/emeu/internationalenergy.html](http://www.eia.gov/emeu/internationalenergy.html) or [www.eia.gov/countries/data.cfm](http://www.eia.gov/countries/data.cfm).

**Cell:** J113

**Comment:** Rick Heede:

EIA (2005) Table 5.4, World Lignite Production 1980-2003, [www.eia.doe.gov/emeu/internationalenergy.html](http://www.eia.doe.gov/emeu/internationalenergy.html)

**Cell:** H126

**Comment:** Rick Heede:

EIA (2011) World Lignite Production 1980-2009,

[www.eia.gov/emeu/internationalenergy.html](http://www.eia.gov/emeu/internationalenergy.html) or [www.eia.gov/countries/data.cfm](http://www.eia.gov/countries/data.cfm).

Same source for global production of bituminous, anthracite, and metallurgical coal production. Total Primary Coal Production data extends to 2010.

**Cell:** R222

**Comment:** Rick Heede:

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