

# Coal extraction data

**Richard Heede**  
*Climate Mitigation Services*  
 File started: 11 January 2005  
 Last modified: November 2011

## Ukraine

yellow column indicates original reported units

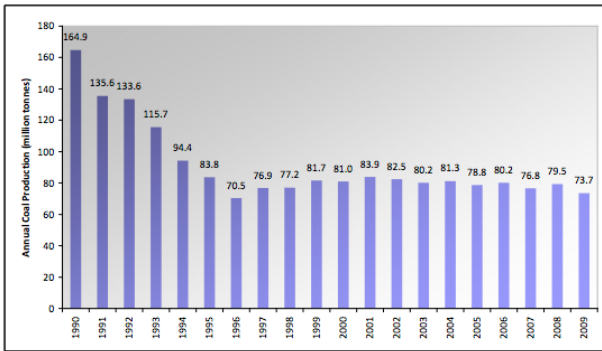
www. location

## Production / Extraction data

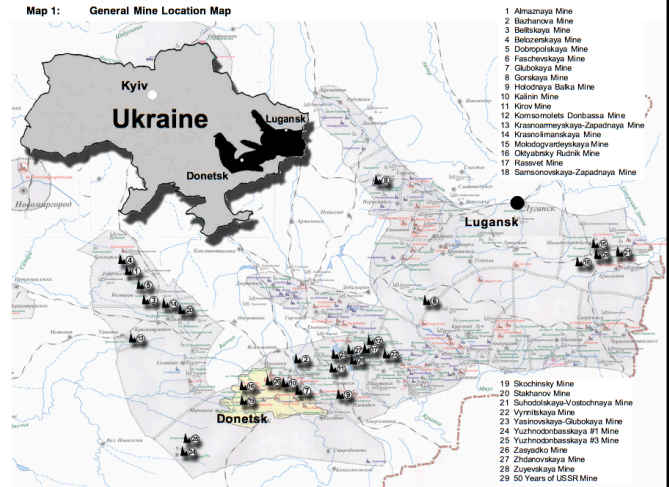
**Year**

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

- 1950
- 1951
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Ukraine coal production 1990-2009, BP.



U.S. Environmental Protection Agency (2001) Coal Mine Methane in Ukraine: Opportunities For Production and Investment in the Donetsk Coal Basin, Partnership for Energy and Environmental Reform (PEER), Washington DC, 127 pp., [www.epa.gov/cmop/docs/ukraine\\_handbook.pdf](http://www.epa.gov/cmop/docs/ukraine_handbook.pdf)

Included in Former Soviet Union (FSU) coal production 1900-1991

EIA coal stats:

EIA total primary coal excludes metallurgical

EIA coal production data for Ukraine 1992-2010 (see page 2 for details).

Year	Lignite	Bituminous	Anthracite	Metallurgical	Total	Total
	million tons	million tons	million tons	million tons	million tons	million tonnes
1992	6.4	96.2	25.8	30.1	128.4	116
1993	4.6	82.8	22.4	22.7	109.7	100
1994	2.9	69.0	16.4	21.4	88.3	80
1995	2.5	61.0	16.1	17.1	79.7	72
1996	1.0	48.8	12.9	16.3	62.8	57
1997	1.1	50.9	12.5	16.5	64.6	59
1998	0.9	51.3	13.4	16.7	65.6	60
1999	1.0	54.3	14.0	17.2	69.2	63
2000	0.9	55.2	12.7	18.4	68.8	62
2001	0.9	53.8	13.3	21.3	68.0	62
2002	0.8	53.5	13.5	20.5	67.9	62
2003	0.5	55.9	14.4	23.0	70.8	64
2004	0.5	47.7	17.5	24.2	65.7	60
2005	0.4	48.3	17.9	20.8	66.5	60
2006	0.3	49.8	17.9	21.2	68.0	62
2007	0.2	51.8	12.9	22.7	65.0	59
2008	0.2	52.3	13.2	21.5	65.7	60
2009	0.2	48.2	12.2	19.2	60.6	55
2010	0.2	47.8	12.1	-	60.1	55

<b>Total</b>	<b>26</b>	<b>1,079</b>	<b>291</b>	<b>265</b>	<b>1,395</b>	<b>1,266</b>
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<b>Coal Types:</b>	1992-2010 total:		1,395	million tons	<b>100.0%</b>
	Lignite:	<b>1.83%</b>	Bituminous	<b>77.31%</b>	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
85																	
86																	
87																	
88		<b>Ukraine</b>															
89																	
90		Lignite	Bituminous		Anthracite	Metallurgical											
91		EIA coal stats:	EIA coal stats:		EIA coal stats:	EIA coal stats:											
92		thousand tons	thousand tons		thousand tons	thousand tons											
93																	
94	1980	--	--	--	--	--	--	--	--	--							
95	1981	--	--	--	--	--	--	--	--	--							
96	1982	--	--	--	--	--	--	--	--	--							
97	1983	--	--	--	--	--	--	--	--	--							
98	1984	--	--	--	--	--	--	--	--	--							
99	1985	--	--	--	--	--	--	--	--	--							
100	1986	--	--	--	--	--	--	--	--	--							
101	1987	--	--	--	--	--	--	--	--	--							
102	1988	--	--	--	--	--	--	--	--	--							
103	1989	--	--	--	--	--	--	--	--	--							
104	1990	--	--	--	--	--	--	--	--	--							
105	1991	--	--	--	--	--	--	--	--	--							
106	1992		6,370		96,187		25,845		30,093		128,402						
107	1993		4,572		82,762		22,398		22,708		109,732						
108	1994		2,935		69,050		16,364		21,385		88,349						
109	1995		2,531		61,029		16,117		17,086		79,677						
110	1996		1,047		48,817		12,927		16,314		62,791						
111	1997		1,145		50,908		12,515		16,535		64,568						
112	1998		929		51,293		13,396		16,700		65,618						
113	1999		963		54,320		13,965		17,173		69,248						
114	2000		884		55,203		12,701		18,376		68,788						
115	2001		888		53,782		13,325		21,328		67,995						
116	2002		840		53,540		13,474		20,499		67,854						
117	2003		540		55,885		14,379		22,977		70,804						
118	2004		507		47,704		17,475		24,249		65,686						
119	2005		390		48,285		17,862		20,806		66,537						
120	2006		256		49,806		17,919		21,191		67,981						
121	2007		205		51,836		12,912		22,678		64,954						
122	2008		180		52,309		13,240		21,539		65,729						
123	2009		193		48,213		12,204		19,180		60,609						
124	2010	est.	191		47,827		12,106				60,125						
125																	
126																	
127	subt. 1980-2010		25,569		1,078,754		291,122		370,814		1,395,445						
128	percent of 2009		0.32%		79.55%		20.13%		100.00%								
129	<b>% 1980-2010:</b>		1.8%		77.3%		79%										
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**Coal methane emissions**

**CMM emissions** Crude CMM rate  
million cubic meters Cubic meters per tonne

3,878		
3,540		
3,422	29.4	
2,842	28.5	
2,599	32.4	
2,109	29.2	
2,022	35.5	
1,988	33.9	
2,002	33.6	
1,978	31.5	
2,197	35.2	
1,850	30.0	
2,074	33.7	
2,022	31.5	
2,050	34.4	
1,992	33.0	
1,936	31.4	interpolated
1,881	31.9	interpolated
1,825	30.6	interpolated
1,769	32.2	interpolated
1,714	31.4	

<b>40,273</b>	<b>31.8</b>
1992-2010	ave. 1992-2010

Global Methane Initiative (2010)

**Table 34-1. Ukraine'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 (2009)*	15,351	18,522	33,873	6 (4.1%)
Annual Coal Production (2010)**	58.7	0.2	58.9	11 (1.2%)

Source: \*BP (2010); \*\*IEA (2010)

Note on coal production vs washed coal &amp; losses (~25%)

**Table 34-4. Ukraine's CMM Emissions (million cubic meters)**

Emission Category	1990	1991	1992	1993	1994	1995	1996	1997	1998
Underground mining - active	3557.51	3276.00	3161.00	2615.28	2414.07	1945.49	1881.85	1839.08	1852.92
Underground - post-mining	306.41	253.07	251.81	219.87	180.82	160.20	138.05	146.72	146.72
Surface mining - active	12.79	9.91	7.97	5.72	3.68	3.16	2.19	1.97	1.93
Surface - post-mining	1.83	1.41	1.14	0.82	0.52	0.45	0.31	0.28	0.27
Total Emissions	3878.53	3540.40	3421.92	2841.69	2599.10	2109.30	2022.41	1988.05	2001.84
Additional Recovered and Flared	144.77	137.97	88.22	69.38	94.89	89.03	48.06	56.74	83.26

Emission Category	1999	2000	2001	2002	2003	2004	2005	2010*	
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**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:** H52**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:** F55**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:** J75**Comment:** Rick Heede:

EIA countries data <http://www.eia.gov/countries/country-data.cfm?fips=UP>

**Cell:** H88**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:** M98**Comment:** Rick Heede:

Source: Global Methane Initiative (2010) Coal Mine Methane Country Profiles, Kazakhstan, chapter 20, [www.globalmethane.org/tools-resources/coal\\_overview.aspx](http://www.globalmethane.org/tools-resources/coal_overview.aspx)  
 Ssection 34.1.3: "In 2001, 77 percent of operating mines were considered gassy. At some mines, the natural gas content can exceed 35 cubic meters (m<sup>3</sup>) per tonne of dry ash-free coal (PEER, 2002)."

**Cell:** M140**Comment:** Rick Heede:

GMI (2010) Ukraine, section 34.1.1: "It should be noted that Table 34-1 contains data on raw coal production. To understand actual coal production in Ukraine, it is more useful to consider washed coal statistics. In 2004, Ukraine produced 80.5 Mmt of raw coal but only 60 million tons of washed coal. Ukrainian coal undergoes substantial washing because of typically high levels of contaminants, which can result in as much as a 25 percent product loss (Raptson, 2008)."

**Cell:** O174**Comment:** Rick Heede:

Ukraine