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				atistics" 1980 - forw				L	1 tonne = s	in tons	1.1
		China, People:	anthracite	metallurgical cok	(e "to		Lig, Bit., Anth., Met				BP StatRev 2
1980	usand short tons thous	and short tons 450,649	thousand short ton 80,9			housand short tons 1 EIA data, Apr19 683,587	housand short ton sum D - H 683,5		million sh	tons	million toni productio
1981 1982	37,766 40,481	451,731 484,207	81,1 87,0	79 114,	554	685,230 734,492	685,2 734,4	30		685 734	
1983 1984	43,410 47,949	519,241 573,524	93,3 103,0	66 145,	439	787,635 869,977	787,6 869,9	77		788 870	
1985 1986	52,994 54,316	633,876 649,688	113,9 116,7	53 164,	753	961,524 985,510	961,5 985,5	10		962 985	
1987 1988 1989	56,385 59,531	674,432 712,060	121,1 127,9	61 180,	570	1,023,044 1,080,122	1,023,0 1,080,1 1,162,0	22		1,023	
1990 1991	64,043 65,571 65,874	766,039 784,315 787,934	137,6 140,9 141,5	46 198,	893	1,162,002 1,189,725 1,195,214	1,189,7 1,189,2	25		1,162 1,190 1,199	
1992 1993	67,713 69,950	809,931 836,694	145,5 150,3	49 205,	389	1,228,581 1,269,179	1,228,5 1,269,1	81		1,231	
1994 1995	74,698 78,505	893,478 939,019	160,5 168,7	63 226,	575	1,355,314 1,424,396	1,355,3 1,424,3	14		1,367 1,500	
1996 1997	82,926 80,514	991,900 963,051	178,2 173,0	66 244,	218	1,504,610 1,460,849	1,504,6 1,460,8	49		1,540 1,529	
1998 1999	79,151 78,029	946,747 933,319	170,1 167,7	23 236,	678	1,436,118 1,415,748	1,436,1 1,415,7	48		1,468 1,504	
2000 2001	84,094 89,400	1,005,870 1,069,340	180,7 192,1	66 271,	172	1,525,800 1,622,078	1,525,8 1,622,0	78		1,526 1,622	
2002 2003	94,192 111,477	1,126,656 1,333,398	202,4 239,6	19 338,	134	1,709,022 2,022,627	1,709,0 2,022,6	27		1,709 2,023	
2004 2005	128,956 143,691	1,542,475 1,718,722	277,1 308,8	64 435,	847	2,339,775 2,607,124	2,339,7 2,607,1 2,832,6	24		2,340	
2006 2007 2008	156,120 167,673 176,392	1,867,391 2,005,578 2,109,869	335,5 360,4 379,1	14 508,	590	2,832,640 3,042,256 3,200,453	2,832,6 3,042,2 3,200,4	56		2,833 3,042 3,200	
2009 2010	189,269 208,290	2,263,889 2,491,410	406,8 447,7	34 574,	095	3,434,086 3,779,212	3,434,0 3,779,2	86		3,434 3,779	
2011 2012	228,703 239,680	2,735,568 2,866,875	491,5 515,1	97 693, 94 727,	707 005	4,149,575 4,348,754	4,149,5 4,348,7	75 54		4,150 4,349	
2013 2014	241,454 235,354	2,888,090 2,815,128	519,0 505,8	06 732, 94 713,	385 882	4,380,935 4,270,260	4,380,9 4,270,2	35 60		4,381 4,270	
2015 2016	227,616 204,374	2,722,565 2,444,567	489,2 439,3	02 619,	912	4,129,851 3,708,155	4,129,8 3,708,1	55		4,130 3,760	
2017 2018	209,324	2,503,770	449,9	42 634,	926	3,797,961	3,797,9	61		3,885 4,060	
						htt	ps://www.eia.gov/	beta/inte	ernational/data	/browser/ind	lex.cfm
subt. 1980-2017 percent of 2017	4,373,543 5.511% 5.511%	52,312,995 65.924% 65.924%	9,400,9 11.84 11.84	7% 16.7	942 718% 718%	79,353,421 100.0% Not 100.0%	te (Apr19): % 201	7 equals 9	% 1980-2017.	Is this EIA's	metric?
<b>% 1980-2017:</b> percent of 1990 percent of 2000  Note: EIA c	5.49% 5.51% does not specify rank of bitu			oduction	.64% .72%	1,195,214 1,525,800					/ /63
96 1980-2017:  percent of 1990 percent of 2000  Note: EIA c CMS w Howev (note:	5.49% 5.51%	65.92% minous or sub-bituminous coal emission factors within range of a emissions, and China	nous for China's coal pror (2.530 tCO2/tonne CDIAC coal emissions is slight net importer)	oduction ) (1,629 tC or 5,962 tCO2	.72% 2) in 2010			\[\frac{1}{2}\]		1	M. Cal
96 1980-2017:    percent of 1990     percent of 2000     Note: EIA c     CMS w     Howev     (note:	5.49% 5.51% does not specify rank of bitu yould normally apply bitumin yer, to bring China's coal emi CDIAC includes consumptior	65.92% minous or sub-bituminous coal emission factors within range of a emissions, and China	nous for China's coal pror (2.530 tCO2/tonne CDIAC coal emissions is slight net importer)	oduction ) (1,629 tC or 5,962 tCO2	.72% 2) in 2010			1		A STATE OF THE PARTY OF THE PAR	
96 1980-2017:    percent of 1990     percent of 2000     Note: EIA c     CMS w     Howev     (note:	5.49% 5.51%  does not specify rank of bitu rould normally apply bitumine ver, to bring China's coal emi CDIAC includes consumption ssigns the sub-bituminous en	65.92% minous or sub-bitumir ous coal emission fact ssions within range of e emissions, and China mission factor (1.864	11.8 nous for China's coal pr or (2.530 tCO2/tonne) CDIAC coal emissions is slight net importer) tCO2 per tonne) to Ch	160 dduction (1,629 tC or 5,962 tCO2 , ina's "bituminous coal en	.72% 2) in 2010 nissions.	1,525,800 1,525,800 pter 9.18		1		The state of the s	
96 1980-2017:    percent of 1990     percent of 2000     Note: EIA c     CMS w     Howev     (note:	5.49% 5.5196  does not specify rank of bitu rould normally apply bituminer, to bring China's coal emi COMAC includes consumption ssigns the sub-bituminous et  Coal Do.	65.92%  minous or sub-bitumir pus coal emission facts ssions within range of 1 emissions, and Chian mission factor (1.864  USC  Liuzhuang N  Xioqiao Coa	11.8 nous for China's coal pr or (2.530 tCO2/tonne) CDIAC coal emissions is slight net importer) tCO2 per tonne) to Ch GS Minerals Yearbook tining Co. Ltd. coal mine the Wine (Huainan Mining	oduction (1,629 tC or 5,962 tCO2, ina's "bituminous coal en 2014, China, advance (State Development and In (Group) Co. Ltd.)	2) in 2010 nissions. release, cha	1,525,800  pter 9.18  Anhui, Bengbu Anhui, Flyang, Yingshang		1			
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subt. 1980-2017	4,373,543	52,312,995	9,400,941	13,265,942	79,353,421
percent of 2017	5.511%	65.924%	11.847%	16.718%	100.0% Note (Apr19): % 2017 equals % 1980-2017. Is this EIA's metric
% 1980-2017:	5.511%	65.924%	11.847%	16.718%	100.0%
percent of 1990	5.49%	65.62%	11.79%	16.64%	1,195,214
percent of 2000	5.51%	65.92%	11.85%	16.72%	1,525,800

## USGS Minerals Yearbook 2014, China, advance release, chapter 9.18

Coal	Liuzhuang Mining Co. Ltd. coal mine (State Development and Investment Corp.)	Anhui, Bengbu	11,400
Do.	Xieqiao Coal Mine (Huainan Mining (Group) Co. Ltd.)	Anhui, Fuyang, Yingshang	9,600
Do.	Fengfeng Group Co. Ltd. coal mines (Jizhong Energy Group Co. Ltd.)	Hebei, Handan	20,000
Do.	Handan Mining Group Co. Ltd. coal mines (Jizhong Energy Group Co. Ltd.)	do.	11,000
Do.	Jixi Mining Group coal mines (Heilongjiang Longmay Mining Holding Group Co. Ltd.)	Heilongjiang, Jixi	16,000
Do.	Zhongguo Pingmei Shemma Energy Chemical Group Co. Ltd. coal mines (China Pingmei Shemma Group)	Henan, Pingdingshan	40,000
Do.	Buetai Coal Mine [(Shendong Coal Group Co. Ltd.) Shenhua Group Corp. Ltd.]	Nei Mongol, Erdos	20,000
Do.	Bulianta Coal Mine [(Shendong Coal Group Co. Ltd.) Shenhua Group Corp. Ltd.]	do.	25,000
Do.	Heidaigou Coal Mine [(Shenhua Group Zhungeer Energy Co. Ltd.) Shenhua Group Corp. Ltd.]	do.	25,000
Do.	Suancigou Coal Mine (Nei Mongol Yitai Coal Co. Ltd.)	Nei Mongol, Jungar Banner	12,000
Do.	Diliuta Coal Mine [(Shendong Coal Group Co. Ltd.) Shenhua Group Corp. Ltd.]	Shaanxi, Yulin	20,000
Do.	Hancheng Coal Mine [(Hancheng Coal Bureau) Shaanxi Coal and Chemical Industry Group Co. Ltd.]	Shaanxi, Hancheng	20,000
Do.	Chenghe Coal Mine [Chenghe Mining Bureau) Shaanxi Coal and Chemical Industry Group Co. Ltd.	Shaanxi, Chengeheng	20,000
Do.	Yanzhou Coalfield [(Yanzhou Coal Mining Co. Ltd.) Yankuang Group Co., Ltd.]	Shandong, Jining	35,000
Do.	Antaibao Coal Mine [(Pingshuo Coal Industry Co., operator) China National Coal Group Corp.]	Shanxi, Pingshuo	20,000
Do.	Tongxin Coal Mine (Datong Coal Mine Group Co. Ltd.)	Shanxi, Datong	10,000

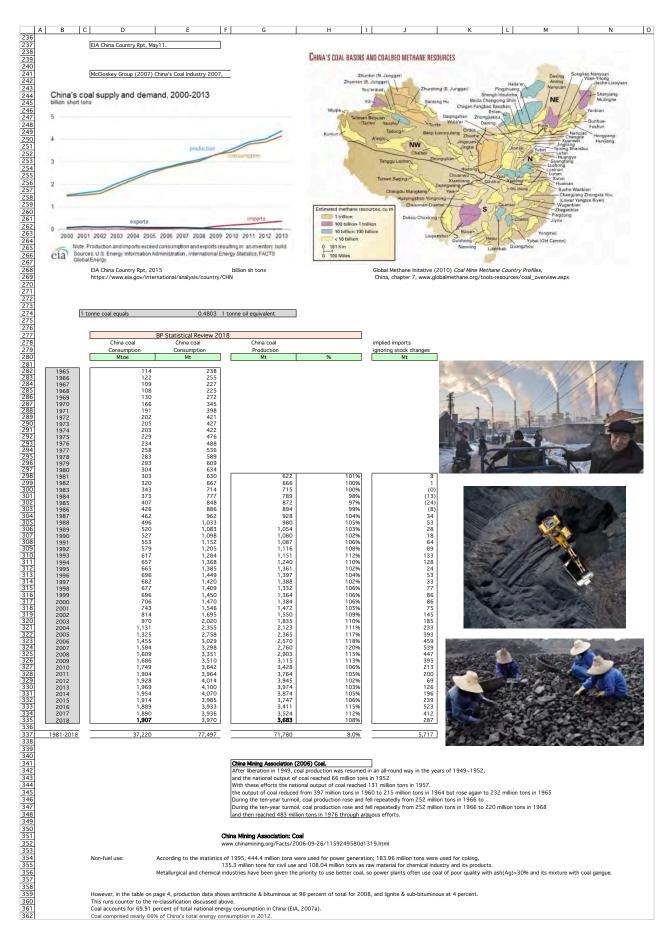
		(Thousand metric tons unless otherwise specified)		
Commodit	,	Facilities, major operating companies, and major equity owners	Location of main facilities <sup>2</sup>	Annual capacity <sup>a</sup>
Coal—Continued		Xishan, Hedong, and Huoxi coalfields [(Xishan Coal and Electricity Coking Coal Group Co.) Shanxi Coking Coal Group Co. Ltd.]	Shanxi, Taiyuan	33,000
Do.		Lu'an Mining Group Co. Ltd.	Shanxi, Changzhi, Xiangyuaj	90,000
Cobalt	metric tons	Jinchuan Nonferrous Metals Corp.	Gansu, Jinchang	10,000

## Table 7-1. China's Coal Reserves and Production

Indicator	Anthracite & Bituminous (million tonnes)	& Lignite (million tonnes)	Total (million tonnes)	Global Rank (# and %)
Estimated Proved Coal Reserves (2005)*	62,200.4	52,300.3	114,500.7	3 (13.7%)
Annual Coal Production (2008)**	2,482.5	101.1	2,583.6	1 (39.17%)

## Table 7-3. China's Mines by Category and Percent of Total Production (2004)

Mine Category	Number of Mines	% of Total Production
Local State-owned Key Coal Mine Groups	1,190	12
Other State-owned Key Coal Mine Groups	869	49.7
Mines Belonging to Villages and Towns	10,067	38.2



### Cell: 19

### nt: Rick Heede:

The coal industry in China goes back many centuries. [In recent decades has become the main energy source of what (from 2010) is the world's second largest economy. Thus China is by far the largest producer of coal in the world, producing over 2.8 billion tons of coal in 2007, or approximately 39.8 percent of all coal produced in the world during that year. For comparison, the second largest producer, the United States, produced more than 1.1 billion tons in 2007. An estimated 5 million people work in China's coal-mining industry. As many as 20,000 miners die in accidents each year. [58] Most Chinese mines are deep underground and do not produce the surface disruption typical of strip mines. https://en.wikipedia.org/wiki/History\_of\_coal\_mining#China

### Cell: D11

ment: 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.

## Comment: Rick Heede (Feb10):

"Coal fires in China burn 109 million tons of coal a year, emitting 360 million metric tons of CO2. There are hundreds of coal fires burning around the world. Those burning underground can be difficult to locate and many cannot be extinguished. Fires can cause the ground above to subside, their combustion gases are dangerous to life, and breaking out to the surface an initiate surface wildfires. Coal seams can be set on fire by spontaneous combustion or contact with a mine fire or surface fire, and set dozens of coal seams on fire." http://en.wikipedia.org/wiki/Coal >>> CMS note: 360 MtCO2 / 109 Mt coal is a carbon factor of 3.30, substantially above the carbon factor CMS uses for bituminous coal: 2.53 tCO2/tonne coal. CMS thus revises the emissions from 109 Mt of coal burned per year to 109 \* 2.53 = 276 MtCO2. A source is not provided in the Wiki entry, is not verified, and is not added to China's emissions from coal production; CMS considers such fires to be non-anthropogenic.

### Cell: K36

## ent: Rick Heede

EIA (2005) Table 5.3, World Bituminous Production 1980-2003, www.eia.doe.gov/emeu/international/energy.html

### Cell: M36

EIA (2005) Table 5.4, World Lignite Production 1980-2003, www.eia.doe.gov/emeu/international/energy.html

## Cell: K40

### Comment: Rick Heede

China Mining Association (2006) Coal. "After liberation in 1949, coal production was resumed in an all-round way in the years of 1949~1952 and the national output of coal reached 66 million tons in 1952."

Comment: Rick Heede:

China Mining Association (2006) Coal, "With these efforts the national output of coal reached 131 million tons in 1957."

## Comment: Rick Heede:

BP Statistical Review 2018 (June 2019) data on consumption (converted from Mtoe to Mt) and production 1981-2018, Consult excel file for data; may not be contained in PDF,

### Comment: Rick Heede:

China's coal production of lignite plus bituminous plus anthracite (not disaggregated) from U.S. Bureau of Mines, Minerals Yearbook, various, 1960-1967.

## Call: 158

# Comment: Rick Heede:

US Energy Information Administration, world coal production 1970-1979.

### Cell: F64 Comment: Rick Heede

EIA (2019) International Energy Statistics on World Coal Production (lignite, bituminous, anthracite, and metallurgical coal), by country; data for 1980-2017. https://www.eia.gov/beta/international/data/

### Cell: K101

## ment: Rick Heede:

CAI adopts coal production data for 2013 to 2017 from the BP Statistical Review 2018.

### Cell: K104 Comment: Rick Heede:

# Preliminary, based on BP Stats 2017.

### Comment: Rick Heede: Preliminary, based on BP Statistical Review, June 2018. Revise with EIA data if warranted.

### ment: Rick Heede: CAI updated China's coal production from subbituminous to bituminous, April 2019, based on revised production by coal rank. See notes in China / Coal production worksheet. This revision increased China's coal emissions by 20.4%, from 159.4 GtC02 through 2017

data to 191.8 GtCO2

### Comment: Rick Heede: FIA (2019) International Energy Statistics on World Coal Production (lignite, bituminous, anthracite, and metallurgical coal), by country: data for 1980-2017; https://www.eia.gov/beta/international/data/browser/

Comment: Rick He

## EIA (2019) International Energy Statistics on World Coal Production (lignite, bituminous, anthracite, and metallurgical coal), by country; data for 1980-2017. https://www.eia.gov/beta/international/data/ Cell: N119

## Comment: R

BP Statistical review 2018, excel data. Converted to short tons at left

## Cell: B152

Comment: Rick Heede:

EIA has estimated Total Primary Coal Production for several countries, including China, for 2010. CMS allocates to lignite, bit, anthracite and met. Coal on the basis of 2009 percentages.

# Cell: F180

USGS Minerals Yearbook 2014, China, advance release, chapter 9.18, May 2017. Also has a section on the structure of China's commodity industries, including the production capacity of 18 coal companies, coal reserves (240 Gt), Gas 4,950 Bcm, Oil 3,430 Mt, exports and imports (export 13.9 Mt of cement, import 291.2 Mt coal, 19.8 Mt LNG, 303.38 Mt crude oil and 30 Mt refined products – all 2014. Cell: D237

The ment Rick Heede:

According to the World Energy Council, China held an estimated 114.5 billion short tons of recoverable coal reserves in 2009, the third-largest in the world behind the United States and Russia, and equivalent to about 14 percent of the world's total reserves. Coal production rose to almost 3.4 billion short tons in 2009, making China the largest coal producer in the world. There are 27 provinces in China that produce coal, and slightly greater than half of China's coal is used for power generation. Northern China, especially the Shanxi and Inner Mongolia Provinces, contains most of China's coal and virtually all of the large state-owned mines. Coal makes up 71 percent of China's total primary energy consumption, and in 2009, China consumed an estimated 3.5 billion short

Coal consumption has been on the rise in China over the last nine years, reversing the decline seen from 1996 to 2000. China's coal imports started growing after Shahar and internal modes in the control of the control of the world total and a 180 percent increases increases. Since 2000. Colar consumption has been on the rise in China over the last nine years, reversing the decline seen from 1996 to 2000. China's coal imports started growing after 2002 because the cost of importing coal became competitive with domestic production.

China, typically a net coal exporter, became a net coal importer in 2009, importing from Indonesia, Australia, Vietnam, and Russia.

In September 2009, the China Coal Transportation and Distribution Association stated that China signed a \$6 billion loan-for-coal agreement with Russia for 15 to 20 million tons of coal for 25 years.

## Cell: D241

# nent: Rick Heede: On the demand s

ide it is not just the electricity sector which is soaring with 90GW added to Chinas power station fleet in 2006. The iron and steel producers consumed 390mt last year double their demand as recently in 2001. Cement and construction consumed almost as much 325mt. All these sectors expect to see large-scale, sustained growth; the steel producers alone adding a further 70mt by 2009. Chapter Eight: Coal Company Profiles 8.1 China Coal score 8.1 China Coal Score 8.2 China Coal Score 8.3 China Coal specs 8.4 China Coal exports by type and destination 8.5 Datong Coalmine Group 06/05 Coal Production 8.6 Datong Coalmine Group Specs 8.7 Shanxi Companies and production 8.11 Shenhua specs 8.1 Shenhua caports by type and destination 2005/2006 8.8 Shanxi Coal specs 8.7 Shanxi Companies and production 8.11 Shenhua specs 8.12 Shenhua caports by type and destination 2005/2006 8.13 Yanzhou Coal 2006/2005 Coal Production 8.14 Yanzhou's mine development and production history 8.15 Yanzhou Coal 2006/2005 Coal Production 8.14 Yanzhou's mine development and production history 8.15 Yanzhou Coal 2006/2005 Coal Production 8.14 Yanzhou's mine development and production history 8.15 Yanzhou Coal 2006/2005 Coal Production 8.14 Yanzhou's mine development and production history 8.15 Yanzhou Coal 2006/2005 Coal Production 8.15 Yanzhou's mine development and production history 8.15 Yanzhou Coal 2006/2005 Coal Production 8.14 Yanzhou's mine development and production history 8.15 Yanzhou Coal 2006/2005 Coal Production 8.15 Yanzhou's mine development and production 8.15 Yanzhou Coal 2006/2005 Coal Production 8.15 Yanzhou's mine development and production 8.15 Yanzhou Coal 2006/2005 Coal Coal specs

### Cell: E274 ent: Rick Heede:

BP Statistical Review 2018 reports China coal production 1981-2018 and China coal consumption 1965-2018 (only in Mtoe, toe = tonnes oil equiv). We calculate average Mt coal per Mtoe at ~0.4803 Mtoe/Mt.

# Cell: G341

## ment: Rick Heede

Inchina Mining Association: Coal. In part: "After the July 7 Incident of 1937, Japanese invaders occupied a large number of coal mines in China and made predatory exploitation. During the period from 1931 to 1945, 420 million tons of coal were plundered and coal resources were seriously damaged. In the Anti Japanese War (1937-1945), the Commission of Resources of the then national government made efforts to develop China's mining industry, mainly coal industry, and the annual output of coal reached 6 million tons. When Japanese invaders were defeated, most coal mines occupied by Japanese invaders were taken over by the Kuomingtang regime. On the eve of liberation in 1949, the majority of China's coal mines were nearly closed down or stopped production because of war in successive years." www.chinamining.org/Facts/2006-09-26/1159249580d1319.html