

Coal extraction data

Richard Heede
 Climate Mitigation Services
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Singareni Collieries, India

www.sccmines.com Kothagudem

yellow column indicates original reported units

100 percent State-owned



Production / Extraction data

Year	Lignite		Hard 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
					Total India Coal	Singareni Collieries
1946					33.1	2.6
1947					32.9	2.6
1948					34.7	2.8
1949					35.6	2.8
1950					38.0	3.0
1951					39.9	3.2
1952					39.5	3.1
1953					40.5	3.2
1954					42.3	3.4
1955					45.1	3.6
1956					49.4	3.9
1957					51.5	4.1
1958					53.6	4.3
1959					58.0	4.6
1960	0.1	0.0	58.0	4.6	58.0	4.6
1961	0.1	0.0	61.8	4.9	61.9	4.9
1962	0.2	0.0	67.6	5.4	67.9	5.4
1963	1.1	0.1	72.7	5.8	73.8	5.9
1964	1.7	0.1	68.8	5.5	70.6	5.6
1965	2.5	0.2	74.0	5.9	76.6	6.1
1966	2.8	0.2	74.9	6.0	77.8	6.2
1967	3.2	0.3	75.2	6.0	78.4	6.2
1968	4.5	0.4	76.4	6.1	80.9	6.4
1969	4.6	0.4	83.1	6.6	87.7	7.0
1970	3.9	0.3	81.2	6.5	85	5.4
1971	4.1	0.3	76.2	6.1	83	5.3
1972	4.2	0.3	81.1	6.4	87	5.5
1973	4.4	0.3	86.0	6.8	89	5.7
1974	4.6	0.4	90.9	7.2	96	6.1
1975	4.7	0.4	95.8	7.6	109	6.9
1976	4.9	0.4	100.7	8.0	116	7.3
1977	5.0	0.4	105.6	8.4	115	7.3
1978	5.2	0.4	110.5	8.8	116	7.4
1979	5.4	0.4	115.4	9.2	118	7.5
1980	5.5	0.4	120.3	9.6	126	10
1981	7.2	0.6	135.7	10.8	143	11
1982	7.7	0.6	141.7	11.3	149	12
1983	7.3	0.6	148.6	11.8	156	12
1984	7.8	0.6	176.0	14.0	184	15
1985	8.6	0.7	181.4	14.4	190	15
1986	10.6	0.8	197.8	15.7	208	17
1987	12.4	1.0	198.3	15.8	211	17
1988	13.9	1.1	212.5	16.9	226	18
1989	13.9	1.1	219.9	17.5	234	19
1990	15.6	1.2	232.0	18.5	248	20
1991	17.6	1.4	252.3	20.1	270	21
1992	17.4	1.4	262.1	20.8	279	22
1993	18.3	1.5	269.8	21.5	288	23
1994	21.3	1.7	279.5	22.2	301	24
1995	24.4	1.9	296.2	23.6	321	25
1996	24.8	2.0	290.0	23.1	315	25
1997	25.4	2.0	312.6	24.9	338	27
1998	25.5	2.0	317.5	25.3	343	27
1999	24.8	2.0	331.5	26.4	356	28
2000	26.7	2.1	343.3	27.3	370	30
2001	27.4	2.2	361.3	28.7	389	31
2002	28.7	2.3	366.9	29.2	396	33
2003	30.8	2.5	389.7	31.0	421	34
2004	33.5	2.7	413.2	32.9	447	35
2005	33.3	2.7	439.9	35.0	473	36
2006	34.5	2.7	465.7	37.0	500	38
2007	37.5	3.0	494.1	39.3	532	41
2008	35.7	2.8	532.7	42.4	568	45
2009	38.2	3.0	573.2	45.6	611	50
2010	39.2	3.1	587.5	46.7	627	51

Percent of total India from 1947 to 1999 actual Singareni production data 2000-2010

SCCL was incorporated on 23Dec1920

Singareni Collieries produced 8.8% of total Indian production 2000-2010; this factor is applied to 1960-1999

(Also see Coal India, equal to 81 percent of Indian coal production)

1960-1969 Based on BuMines India

1970-2004 EIA data for India

cumulative prod million tonnes	
SCCL 1920-2009	929
CMS 1947-2009	927

Singareni	India total
2000-2010 million tonnes	2000-2010 million tonnes
30.3	335.7
30.8	352.6
33.2	358.9
33.9	381.5
35.3	405.2
36.1	429.3
37.7	453.8
40.6	482.2
44.5	515.7
50.4	554.7
51.3	568.6

Total	743	59	11,199	891	12,502	978
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1980-2008	Lignite	54	Bituminous	759
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% Singareni of India: 8.77%

1980-2010 subtotal:	813	million tonnes
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Coal Types:	Lignite: 6.61%	Bituminous 93.39%	Metallurg./Anthr. 0.00%
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100.00%

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
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89																
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93																
94																
95	EIA "International Energy Statistics" 1980 - 2010 for India															
96																
97																
98	1980			5,526	120,319	-		12,502		125,845						
99	1981			7,249	135,699	-		12,978		142,948						
100	1982			7,713	141,651	-		12,920		149,364						
101	1983			7,319	148,572	-		12,798		155,891						
102	1984			7,837	176,030	-		12,091		183,868						
103	1985			8,572	181,363	-		12,828		189,935						
104	1986			10,582	197,814	-		10,603		208,396						
105	1987			12,423	198,306	-		9,409		210,729						
106	1988			13,867	212,538	-		11,941		226,405						
107	1989			13,933	219,852	-		11,841		233,785						
108	1990			15,554	232,016	-		10,731		247,569						
109	1991			17,604	252,330	-		11,565		269,934						
110	1992			17,429	262,055	-		11,653		279,483						
111	1993			18,318	269,774	-		11,729		288,092						
112	1994			21,319	279,489	-		11,945		300,808						
113	1995			24,405	296,151	-		12,070		320,557						
114	1996			24,846	290,007	-		13,081		314,853						
115	1997			25,408	312,644	-		12,291		338,052						
116	1998			25,541	317,536	-		14,074		343,077						
117	1999			24,774	331,490	-		14,427		356,265						
118	2000			26,728	343,291	-		14,750		370,018						
119	2001			27,352	361,323	-		14,945		388,675						
120	2002			28,680	366,945	-		15,341		395,625						
121	2003			30,818	389,707	-		14,463		420,525						
122	2004			33,522	413,161	-		13,970		446,683						
123	2005			33,321	439,946	-		14,713		473,266						
124	2006			34,486	465,707	-		13,852		500,193						
125	2007			37,457	494,065	-		13,825		531,521						
126	2008			35,738	532,710	-		13,910		568,448						
127	2009			38,241	573,203	-		13,779		611,444						
128	2010			39,197	587,533	-		-		626,731						
129																
130																
131	subt. 1980-2010			675,759	9,543,227	-		387,025		10,218,986						
132	percent of 2009			6.25%	93.75%			100%								
133	% 1980-2010:			6.61%	93.39%		0%	100%								
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Singareni at a Glance	
Mines	Under Ground - 36 : Opencast - 14
Manpower (as on 31-10-2011)	66,997
Targetted Production(2011-12)	53.4 Million tonnes
Targetted Production(2010-11)	51.3 Million tonnes
Actual Production(2010-11)	51.33 Million tonnes
Output per manshift(Mines+Depts)(2010-11)	2.90 Tonnes
Major consumers	Power,Cement and others

www.sclmines.com, viewed 29Nov11

GRADE	UHV RANGE - K.CAL / KG
A	Exceeding 6200
B	Exceeding 5600 but not exceeding 6200
C	Exceeding 4940 but not exceeding 5600
D	Exceeding 4200 but not exceeding 4940
E	Exceeding 3360 but not exceeding 4200
F	Exceeding 2400 but not exceeding 3360
G	Exceeding 1300 but not exceeding 2400

sclmines.com/COAL_grade_spec.asp

District	Depth (m)	GRADE						Total Reserve (m.t.)
		A	B	C	D	E	F	
ADILABAD	0-300	0.06	25.89	279.62	701.96	427.25	509.55	67.97
	300-600	0.06	21.93	250.94	477.48	342.49	332.73	12.34
	>600	-	-	0.02	0.01	-	-	0.03
TOTAL		0.12	47.82	530.58	1179.44	769.73	842.28	80.31
CARIMNAGAR	0-300	0.00	45.43	417.09	306.71	292.88	52.03	0.66
	300-600	0.15	67.70	133.86	390.01	299.73	34.84	0.10
	>600	-	-	-	-	-	-	-
TOTAL		0.15	113.13	550.95	696.72	592.61	86.87	0.76
WARANGAL	0-300	32.27	90.05	145.42	99.47	198.29	229.84	24.50
	300-600	20.35	46.80	70.56	49.68	61.84	102.04	3.01
	>600	2.64	3.60	1.34	0.90	1.56	0.09	0.10
TOTAL		55.26	140.44	217.32	150.04	261.69	331.98	27.51
KHAMMAM	0-300	13.88	62.26	374.69	155.65	297.00	731.04	405.24
	300-600	6.62	41.26	232.54	127.17	108.21	113.65	39.40
	>600	-	-	-	-	-	-	-
TOTAL		20.50	103.53	607.22	282.82	405.21	844.69	444.65
TOTAL	0-300	46.21	223.63	1216.82	1263.79	1215.42	1522.46	498.37
	300-600	27.18	177.70	687.90	1044.33	812.26	583.26	54.86
	>600	2.64	3.60	1.35	0.90	1.56	0.09	0.10
TOTAL		76.04	404.92	1906.07	2309.02	2029.24	2105.82	553.23

sclmines.com/gvc_coalreserves.htm

Cell: D9**Comment:** Rick Heede:

SCCL: In the year 1871, Dr. King of the Geological Survey of India discovered coal near the village of Yellandu in Khammam district and one of the important coal seams bore his name. The Hyderabad (Deccan) Company Limited incorporated in England acquired mining rights in 1886 to exploit coal found in Yellandu area. The present Company was incorporated on 23rd December 1920 under the Hyderabad Companies Act as a public limited company with the name 'The Singareni Collieries Company Limited' (SCCL). It acquired all the assets and liabilities of the Hyderabad (Deccan) Co. Ltd. Best & Co., acted as Secretaries and Selling Agents. The State of Hyderabad purchased majority shares of the Company in 1945. From 1945 to 1949, the Hyderabad Construction Co., Ltd., was acting as Managing Agent. In 1949 this function was entrusted to Industrial Trust Fund by the then Government of Hyderabad. The controlling interest of the Company devolved on the Government of Andhra Pradesh in 1956 pursuant to the reorganization of States. Thus, the SCCL became a Government Company under the Companies Act in 1956.

Large-scale expansion of SCCL was undertaken during the initial Five-year plans. In 1960 the Govt. of India started its participation in the equity of the Company and also started extending loan assistance. Thus since March 1960 it has been jointly owned by the Government of Andhra Pradesh and the Govt. of India. In 1974 the Government of India transferred its share capital to the Coal Mines Authority Limited.

The Company's accredited function is to explore and exploit the coal deposits in the Godavari valley coalfield, which is the only repository of coal in South India. Mining activities of SCCL are presently spread over four districts of Andhra Pradesh Viz. Adilabad, Karimnagar, Khammam and Warangal.

The studies of Geological Survey of India attribute as much as 22016 million tonnes of coal reserves in the Godavari valley coalfield. The inventory covers up to a depth of 1200 metres and it includes reserves proved, indicated as well as inferred.

The coal extracted by SCCL in the Godavari valley coalfield up to the year 2009-10 was about 929.12 million tonnes.

www.sclmines.com/history.asp

Cell: M9**Comment:** Rick Heede:

Wiki: "the company is jointly owned by the Andhra Pradesh government (51 percent) and the Union Government (49 percent). The Union Government's administration of the company is through the Ministry of Coal. SCCL is currently operating 13 opencast and 42 underground mines in 4 districts of Andhra Pradesh with a manpower around 78,000.

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: J17**Comment:** Rick Heede:

Coal production 1947-1960 from Prasad (1986), page 132.

Prasad, Anubhuti Ranjan (1986) Coal industry of India, S.B. Nangia, New Delhi, 256 pp.

Cell: G21**Comment:** Rick Heede:

Over the nine-year period 2000-2010 for which we have detailed Singareni production data, CMS computes Singareni's percent of total coal production in India (using EIA statistics). This fraction is 8.77 percent. This factor is used to estimate Singareni's production 1947-1999 as the percent of total Indian coal production.

See computation in columns "M" and "N", and cell N84.

Cell: E27**Comment:** Rick Heede:

Indian coal production from Energy Information Administration (2005) International Energy Annual 2003, Table 5.3 (Bituminous) and Table 5.1 (Lignite).

Cell: D29**Comment:** Rick Heede:

Indian coal production from Energy Information Administration (2005) International Energy Annual 2003, Table 5.3 (Bituminous) and Table 5.1 (Lignite).

Data for 1960-1971: Bureau of Mines, Minerals Yearbook, Table 54, various years.

Cell: D50**Comment:** Rick Heede:

EIA (2009) World Lignite Coal Production, 1980-2006, plus online EIA data for 2007-2010, Indian lignite production, in million tons per year.

Cell: G50**Comment:** Rick Heede:

EIA (2009) World Bituminous Coal Production, 1980-2006, plus online EIA data for 2007-2008, Indian bituminous production, in million tons per year. CMS note: EIA does show Indian production by coal rank, e.g. bituminous vs subbituminous coal production. Singareni does list its reserves by rank (see sclmines.com/gvc_coalreserves.htm), but not its production.

Cell: N62**Comment:** Rick Heede:

Company website, <http://sclmines.com/history.asp>:

"The studies of Geological Survey of India attribute as much as 16997 million tonnes of coal reserves in the Godavari valley coalfield. The inventory covers up to a depth of 1200 metres and it includes reserves confirmed, indicated as well as inferred.

The coal extracted by SCCL in the Godavari valley coalfield up to the year 2009-10 was about 929.12 million tonnes.

www.sclmines.com/history.asp

Cell: M68**Comment:** Rick Heede:

Singareni fiscal year is April-March. FY 2010-2011 is entered for CY 2010.

Cell: K70**Comment:** Rick Heede:

CMS uses data from SCCL (see column "M") for 2000-2008. SCCL production data prior to 2000 is not available on the website.

CMS has sent (17Feb10) an email requesting production data for 1920-1999, as well recent data on prod by coal grade, to Director of Operations Sri J. V. Dattatreyyulu, dop@sclmines.com.

Cell: M70**Comment:** Rick Heede (Feb10):

Production performance data for 2000/01 to 2008/09 from SCCL (<http://sclmines.com/opstatistics.asp>); CMS converts from "Lakh tonnes" to million tonnes per year (one lakh = 10⁵).

Cell: N70**Comment:** Rick Heede:

EIA total coal production in India 2000-2008 converted to million tonnes.

Cell: G74**Comment:** Rick Heede:

EIA (2006) World Bituminous Coal Production, 1980-2004, Table 5.3

Singareni

Cell: J79

Comment: Rick Heede:
calculated as if Singareni is just 7.4 % of total

Cell: K79

Comment: Rick Heede:
AR 200910 pdf report pg 5; see page 6 for info about underground vs opencast production; 2008 numbers are not consistent with lignite/bituminous reported here, although total sum is consistent

Cell: N84

Comment: Rick Heede (Feb10):
Over the nine-year period 2000-2008 for which we have detailed Singareni production data, CMS computes Singareni's percent of total coal production in India (using EIA statistics). This fraction is 8.69 percent. This factor is used to estimate Singareni's production 1960-1999 as the percent of total Indian coal production.

Cell: J94

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 or www.eia.gov/countries/data.cfm.