

POWER:

Energy is one of the inputs for both the economic development as well as over-all wellbeing of the people. Orissa was the first state in the country towards introduction of sweeping reforms in the power sector. During 2006-07, the state's share in the installed capacity of the state sector power projects was 2814.88 MW and generated power of 1542.67 MW. It increased to 20.97% as compared to the figure of previous year. Out of 1542.67 MW power generated, 840.34 MW was from Hydro power projects and the balance 702.33 MW from thermal power projects. Power generation under hydro power projects and thermal power projects has been increased to 40.52% and 3.71% over the previous year. Besides state's share in installed capacity of central sector projects was 739.01 MW and power generated was 485.32 MW.

Installed capacity and power generation of different power projects in Orissa during 2004-05 & 2006-07.

Power projects	Installed capacity	State's share in installed capacity	State's share in power generation		
			2004-05	2005-06	2006-07
Hydro power projects	1992.25	1934.88	809.11	598.01	840.34
Thermal power projects	880.00	880.00	649.82	677.2	702.33
Central sector	4390.00	739.01	497.50	524.64	485.32
	7262.25	3553.89	1956.43	1799.85	2027.99

Coal based thermal power projects are generally located in Angul and Jharsuguda districts. There are five hydel power projects in the state distributed in Malkangiri, Angul, Sambalpur, Kalahandi and Koraput districts. During 2006-07 there were about 24.77 lakh power consumers in the state of which 21.36 lakh (80.01%) were domestic consumers and 2.05 lakh (8.45%) were commercial consumers. Distribution of power is being done through CESCO, NESCO, WESCO, SOUTHCO.

COAL BASED THERMAL POWER PROJECTS IN ORISSA

Year	District Name	Name of Plant	Production Capacity (MW)	Installation Capacity(MW)
1990	Angul	TTPS(I&II)	190	460
1991	Angul	TTPS(I&II)	190	460
1992	Angul	TTPS&STPS(I&II)	439	590
1993	Angul	TTPS(I&II)	184	460
1994	Anugul	TTPS(I&II)	217	460
	Jharsuguda	IB(I&II)	178	210
1995	Anugul	TTPS(I&II)	184	460
	Jharsuguda	IB(I&II)	260	420
1996	Anugul	TTPS(I&II)	141	460
	Jharsuguda	Ib(I&II)	260	420
1997	Jharsuguda	IB(I&II)	235	420
	Anugul	TTPS(I&II),KANIHA	296	1460
1998	Jharsuguda	Ib(I&II)	286	420
	Anugul	Kaniha, TTPS(I&II)	220	1460
1999	Sambalpur	Nil	0	0
	Anugul	NTPC, Kanhia; TTPS-I & II	383	1460
	Jharsuguda	IB - I & II	286	420
2000	Jharsuguda	IB - I & II	324	420
	Sambalpur	Nil	0	0
	Anugul	NTPC, Kanhia; TTPS - I & II	2370	1460
2001	Jharsuguda	IB Thermal -I&II	307	420
	Sambalpur	Nil	0	0
	Anugul	TTPS Stage I&II, TSTPP Kaniha	682	1460
2002	Jharsuguda	IB - I & II	265	420
	Anugul	NTPC, Kanhia; TTPS-I & II	429	1460
2003	Anugul	NTPC, Kanhia; TTPS-I & II	750	1460
	Jharsuguda	IB Thermal Power Station	266	420
	Sambalpur	Hirakud Power Station	647	332
2004	Jharsuguda	Ib (I&II)	323	420
	Anugul	TTPS(I&II), STPS(I&II)	574	1460
2005	Anugul	TTPS(I&II),STPS(I&II)	599	1460
	Jharsuguda	Ib(I&II)	316	420
2006	Jharsuguda	Ib(I&II)	363	420
	Anugul	TTPS(I&II),STPS(I&II)	576	1460

Source - Economic Survey & OHPC

GAS BASED THERMAL POWER PROJECTS IN ORISSA – (Year 1990-2007)

District Name	Name	Production Capacity (MW)	Installation Capacity(MW)
Anugul	Nil	0	0
Balangir	Nil	0	0
Baleshwar	Nil	0	0
Bargarh	Nil	0	0
Baudh	Nil	0	0
Bhadrak	Nil	0	0
Cuttack	Nil	0	0
Debagarh	Nil	0	0
Gajapati	Nil	0	0
Ganjam	Nil	0	0
Jagatsinghapur	Nil	0	0
Kendrapara	Nil	0	0
Kendujhar	Nil	0	0
Khordha	Nil	0	0
Koraput	Nil	0	0
Malkangiri	Nil	0	0
Mayurbhanj	Nil	0	0
Nayagarh	Nil	0	0
Nuapada	Nil	0	0
Sambalpur	Nil	0	0
Sonapur	Nil	0	0
Dhenkanal	Nil	0	0
Jharsuguda	Nil	0	0
Nabarangapur	Nil	0	0
Jajapur	Nil	0	0
Kalahandi	Nil	0	0
Kandhamal	Nil	0	0
Puri	Nil	0	0
Rayagada	Nil	0	0
Sundargarh	Nil	0	0

HYDEL POWER PROJECTS IN ORISSA – (Year – 1990)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Malkangiri	Balimela	135	360
Anugul	Rengali	80	200
Sambalpur	Hirakud	134	308
Koraput	Upper Kolab & Machhkund	129	274

Source - Economic Survey & OHPC

HYDEL POWER PROJECTS IN ORISSA – (Year – 1991)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Malkangiri	Balimela	135	360
Sambalpur	Hirakud	134	308
Koraput	Upper Kolab & Machhkund	119	274
Anugul	Rengali	80	200

HYDEL POWER PROJECTS IN ORISSA – (Year – 1992)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Anugul	Rengali	86	250
Malkangiri	Balimela	126	360
Koraput	Upper Kolab & Machhkund	130	354
Sambalpur	Hirakud	135	308

HYDEL POWER PROJECTS IN ORISSA – (Year – 1993)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Anugul	Rengali	86	250
Malkangiri	Balimela	135	360
Sambalpur	Hirakud	134	308
Koraput	Upper Kolab & Machhkund	129	355

HYDEL POWER PROJECTS IN ORISSA – (Year – 1994)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Sambalpur	Hirakud	134	308
Malkangiri	Balimela	134	360
Anugul	Rengali	86	250
Koraput	Upper Kolab & Machhkund	130	355

HYDEL POWER PROJECTS IN ORISSA – (Year – 1995)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Sambalpur	Hirakud	134	308
Malkangiri	Balimela Hydro Power Project	135	360
Koraput	Machhkund & Upper Kolab	117	355
Anugul	Rengali	86	250

HYDEL POWER PROJECTS IN ORISSA – (Year – 1996)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Koraput	Upper Kolab & Machhkund	129	374
Malkangiri	Balimela	135	360
Sambalpur	Hirakud	134	308
Anugul	Rengali	86	250

HYDEL POWER PROJECTS IN ORISSA – (Year – 1997)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Anugul	Rengali	108	250
Sambalpur	Hirakud	105	308
Malkangiri	Balimela	102	360
Koraput	Upper Kolab & Machhkund	86	435

HYDEL POWER PROJECTS IN ORISSA – (Year – 1998)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Malkangiri	Balimela	89	360
Sambalpur	Hirakud	135	308
Koraput	Upper Kolab & Machhkund	77	435
Anugul	Rengali	102	250

HYDEL POWER PROJECTS IN ORISSA – (Year – 1999)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Sambalpur	Hirakud Power Station	126	332
Anugul	Rengali Power Station	102	250
Kalahandi	Upper Indravati Power Station	56	300
Koraput	Upper Kolab & Machhkund	130	435
Malkangiri	Balimela Power Station	137	360

HYDEL POWER PROJECTS IN ORISSA - (Year – 2000)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Sambalpur	Hirakud Power Station	126	332
Anugul	Rengali Power Station	899	250
Kalahandi	Upper Indravati Power Station	56	300
Koraput	Upper Kolab Power Station	92	320
Malkangiri	Balimela Power Station	137	360

HYDEL POWER PROJECTS IN ORISSA – (Year – 2001)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Sambalpur	Hirakud Power Station	67	332
Kalahandi	Upper Indravati Power Station	202	450
Malkangiri	Balimela Power Station	115	360
Anugul	Rengali Power Station	82	250
Koraput	Upper Kolab Power Station	59	320

HYDEL POWER PROJECTS IN ORISSA – (Year – 2002)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Sambalpur	Hirakud Power System-I&II	106	332
Anugul	Rengali Power Station	88	250
Kalahandi	Upper Indravati Power Station	334	600
Malkangiri	Balimela Power Station	120	360
Koraput	Upper Kolab Power Station	73	320

HYDEL POWER PROJECTS IN ORISSA – (Year – 2003)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Anugul	Rengali Power Station	117	250
Sambalpur	Hirakud Power Station	103	332
Koraput	Upper Kolab & Machhkund	95	435
Malkangiri	Balimela Power Station	128	360
Kalahandi	Upper Indravati Power Station	241	600

Source - Economic Survey & OHPC

HYDEL POWER PROJECTS IN ORISSA – (Year – 2004)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Anugul	Rengali	83	250
Kalahandi	Indrabati	323	600
Koraput	Upper Kolab & Machhkund	141	435
Malkangiri	Balimela	170	360
Sambalpur	Hirakud	92	349

HYDEL POWER PROJECTS IN ORISSA – (Year – 2005)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Malkangiri	Balimela	117	360
Anugul	Rengali	76	250
Sambalpur	Hirakud	98	349
Kalahandi	Indrabati	200	600
Koraput	Upper Kolab & Machhkund	107	435

HYDEL POWER PROJECTS IN ORISSA – (Year – 2006)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Anugul	Rengali	74	250
Koraput	Upper Kolab & Machhkund	154	435
Sambalpur	Hirakud	92	348
Kalahandi	Indrabati	340	600
Malkangiri	Balimela	181	360

ATOMIC POWER PROJECTS IN ORISSA (Year- 1990-2007)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Baleshwar	Nil	0	0
Bargarh	Nil	0	0
Baudh	Nil	0	0
Bhadrak	Nil	0	0
Cuttack	Nil	0	0
Debagarh	Nil	0	0
Gajapati	Nil	0	0
Ganjam	Nil	0	0
Jagatsinghapur	Nil	0	0
Kendrapara	Nil	0	0
Kendujhar	Nil	0	0
Khordha	Nil	0	0
Malkangiri	Nil	0	0
Nabarangapur	Nil	0	0
Nayagarh	Nil	0	0
Puri	Nil	0	0
Sambalpur	Nil	0	0
Sundargarh	Nil	0	0
Balangir	Nil	0	0
Jharsuguda	Nil	0	0
Nuapada	Nil	0	0
Dhenkanal	Nil	0	0
Kalahandi	Nil	0	0
Kandhamal	Nil	0	0
Koraput	Nil	0	0
Rayagada	Nil	0	0
Sonapur	Nil	0	0
Anugul	Nil	0	0
Jajapur	Nil	0	0
Mayurbhanj	Nil	0	0

WINDMILL POWER PROJECTS IN ORISSA (Year- 1990-2007)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Anugul	Nil	0	0
Dhenkanal	Nil	0	0
Gajapati	Nil	0	0
Ganjam	Nil	0	0
Jagatsinghapur	Nil	0	0
Jajapur	Nil	0	0
Jharsuguda	Nil	0	0
Kalahandi	Nil	0	0
Kandhamal	Nil	0	0
Kendrapara	Nil	0	0
Khordha	Nil	0	0
Nabarangapur	Nil	0	0
Nayagarh	Nil	0	0
Nuapada	Nil	0	0
Puri	Nil	0	0
Sambalpur	Nil	0	0
Sundargarh	Nil	0	0
Baudh	Nil	0	0
Koraput	Nil	0	0
Balangir	Nil	0	0
Cuttack	Nil	0	0
Malkangiri	Nil	0	0
Mayurbhanj	Nil	0	0
Sonapur	Nil	0	0
Baleshwar	Nil	0	0
Bargarh	Nil	0	0
Bhadrak	Nil	0	0
Debagarh	Nil	0	0
Kendujhar	Nil	0	0
Rayagada	Nil	0	0

SOLAR POWER PROJECTS IN ORISSA (Year- 1990-2007)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Anugul	Nil	0	0
Balangir	Nil	0	0
Baleshwar	Nil	0	0
Bargarh	Nil	0	0
Baudh	Nil	0	0
Cuttack	Nil	0	0
Debagarh	Nil	0	0
Dhenkanal	Nil	0	0
Gajapati	Nil	0	0
Ganjam	Nil	0	0
Jagatsinghapur	Nil	0	0
Jajapur	Nil	0	0
Kalahandi	Nil	0	0
Kendujhar	Nil	0	0
Khordha	Nil	0	0
Nayagarh	Nil	0	0
Nuapada	Nil	0	0
Rayagada	Nil	0	0
Sambalpur	Nil	0	0
Sonapur	Nil	0	0
Bhadrak	Nil	0	0
Jharsuguda	Nil	0	0
Kendrapara	Nil	0	0
Puri	Nil	0	0
Sundargarh	Nil	0	0
Kandhamal	Nil	0	0
Koraput	Nil	0	0
Malkangiri	Nil	0	0
Mayurbhanj	Nil	0	0
Nabarangapur	Nil	0	0

BIOGAS POWER PROJECTS IN ORISSA (Year-1990-2007)

District Name	Name	Production Capacity (MW)	Installation Capacity(KV)
Anugul	Nil	0	0
Balangir	Nil	0	0
Baleshwar	Nil	0	0
Bargarh	Nil	0	0
Baudh	Nil	0	0
Bhadrak	Nil	0	0
Cuttack	Nil	0	0
Debagarh	Nil	0	0
Dhenkanal	Nil	0	0
Ganjam	Nil	0	0
Jajapur	Nil	0	0
Jharsuguda	Nil	0	0
Kalahandi	Nil	0	0
Kandhamal	Nil	0	0
Kendrapara	Nil	0	0
Khordha	Nil	0	0
Malkangiri	Nil	0	0
Puri	Nil	0	0
Rayagada	Nil	0	0
Gajapati	Nil	0	0
Jagatsinghapur	Nil	0	0
Kendujhar	Nil	0	0
Koraput	Nil	0	0
Mayurbhanj	Nil	0	0
Nabarangapur	Nil	0	0
Nayagarh	Nil	0	0
Nuapada	Nil	0	0
Sambalpur	Nil	0	0
Sonapur	Nil	0	0
Sundargarh	Nil	0	0

ENERGY SOURCES IN ORISSA

Year	District Name	Coal Production (in tons)	Electricity/Power (in KWH)
1999	Angul	28983000	485000
	Jharsuguda	13809000	286000
	Koraput	NA	49000
	Malkangiri	NA	89000
	Sambalpur	NA	135000
2000	Angul	29812759	3754000
	Jharsuguda	13040255	324000
	Kalahandi	NA	56000
	Malkangiri	NA	137000
	Sambalpur	NA	126000
	Sundargarh	691429	NA
2001	Angul	31189304	389000
	Jharsuguda	12952845	682000
	Kalahandi	NA	202000
	Koraput	NA	59000
	Malkangiri	NA	115000
	Sambalpur	NA	67000
	Sundargarh	670691	NA
2002	Angul	33102819	517000
	Jharsuguda	14098991	265000
	Kalahandi	NA	334000
	Koraput	NA	334000
	Malkangir	NA	120000
	Sambalpur	NA	106000
	Sundargarh	NA	601210
2003	Angul	36819349	821000
	Jharsuguda	14746683	266000
	Kalahandi	NA	90000
	Koraput	NA	54000
	Malkangiri	NA	60000
	Sambalpur	NA	717000
	Sundargarh	464677	NA

Source - Economic Survey

ENERGY CONSUMPTION IN ORISSA (Year – 2003)

Baleshwar	334771000	1357000	3344000	12510000	109000000	460694000
Bhadrak	148872000	1235000	2174000	4141000	132000000	287944000
Balangir	53199000	1314000	8135000	11389000	58018000	131579000
Cuttack	191916000	16510000	17670000	5980000	231000000	502760000
Jagatsinghapur	12590000	730000	570000	1010000	71940000	86840000
Gajapati	56081000	3482000	2716000	227000	95841000	159068000
Nuapada	13975000	623230000	1000000	7271000	25279000	48378000
Malkangiri	10744000	320000	585000	801000	7985000	20435000
Nabarangapur	34807000	600000	977000	925000	21436000	58745000
Rayagada	37587000	1769000	2689000	2939000	36017000	81001000
Mayurbhanj	43342000	2753000	3850000	2695000	94901000	147541000
Kandhamal	6869000	1506000	1241000	429000	16540000	26585000
Puri	46270000	3350000	4080000	7790000	117000000	178510000
Nayagarh	7580000	660000	1090000	3020000	50670000	63020000
Bargarh	121743000	874000	1976000	15580000	83081000	223254000
Debagarh	2723000	130000	294000	497000	8791000	12435000
Sonapur	3546000	230000	206000	1820000	24051000	29853000
Jajapur	113560000000	562000	2477000	9798000	118000000	331113000
Kendrapara	158860000	1020000	1320000	5330000	91160000	257690000
Dhenkanal	81950000	1180000	1600000	6440000	56800000	147970000
Anugul	358450000	1800000	2510000	2050000	64080000	430430000
Ganjam	202893000	7856000	15266000	9107000	291000000	529303000
Kendujhar	123039000	1172000	3261000	1601000	68192000	333379000
Koraput	163859000	1445000	9794000	969000	32216000	208283000
Baudh	4630000	125000	334000	1459000	10993000	17541000
Khordha	1664140000	18530000	48220000	2500000	318000000	681660000
Sambalpur	605194000	3274000	6700000	2924000	78398000	696490000
Jharsuguda	224182000	1912000	2499000	5001000	61151000	330489000
Sundargarh	638678000	6705000	11572000	7214000	121000000	