

SECTION 2:
INSTALLED CAPACITY

Table 2.1: Installed Capacity of Coal Washeries in India as on 31.3.08

Sl. No.	Washery & Operator	State of Location	Capacity (MTY)
<u>COKING COAL :</u>			
1	Dudga-II, CIL	Jharkhand	2.00
2	Bhojudih, CIL	West Bengal	1.70
3	Patherdih, CIL	Jharkhand	1.60
4	Moonidih, CIL	Jharkhand	1.60
5	Sudamdih, CIL	Jharkhand	1.60
6	Mahuda, CIL	Jharkhand	0.63
7	Kathara, CIL	Jharkhand	3.00
8	Swang, CIL	Jharkhand	0.75
9	Rajrappa, CIL	Jharkhand	3.00
10	Kedla, CIL	Jharkhand	2.60
11	Nandan, CIL	Madhya Pradesh	1.20
	(A) CIL		19.68
13	Durgapur, SAIL	West Bengal	1.50
14	DCOP, DPL	West Bengal	1.35
15	Chasnala, IISCO	Jharkhand	2.04
16	Jamadoba, TISCO	Jharkhand	0.90
17	West Bokaro-II, TISCO	Jharkhand	1.80
18	West Bokaro-III, TISCO	Jharkhand	2.10
19	Bhelatand	Jharkhand	0.86
	(B) PSU & Private		10.55
	TOTAL (A + B)		30.23
<u>NON-COKING COAL</u>			
1	Dugda-I, CIL	Jharkhand	2.50
2	Madhuban, CIL	Jharkhand	2.50
3	Gidi, CIL	Jharkhand	2.50
4	Piparwar, CIL	Jharkhand	6.50
5	Kargali, CIL	Jharkhand	2.72
6	Bina, CIL	Uttar Pradesh	4.50
	(A) CIL		21.22
7	Dipka, Aryan coal beneficiation pvt. ltd.	Chattisgarh	12.00
8	Gevra, -do-	Chattisgarh	5.00
9	Panderpauni, -do-	Maharashtra	3.00
10	Chakabuwa, Aryan Energy private ltd.	Chattisgarh	6.00
11	Indaram, Aryan Coal Benefication Pvt.Ltd.	Andhra Pradesh	0.60
12	Talcher, Aryan Energy Pvt. Ltd.	Orissa	2.00

Table 2.1(Contd.): Installed Capacity of Coal Washeries in India as on 31.3.08

Sl. No.	Washery & Operator	State of Location	Capacity (MTY)
13	Wani, Kartikay Coal washeries pvt. ltd.(Aryan)	Maharastra	13.00
14	Korba, ST-CLI Coal washeries ltd.	Chattisgarh	5.20
15	Ramagundam, Gupta coalfield & washeries ltd.	Andhra Pradesh	2.40
16	Sasti, Gupta coalfield & washeries ltd.	Maharastra	2.40
17	Wani, Gupta coalfield & washeries ltd.	Maharastra	1.92
18	Umrer, Gupta coalfield & washeries ltd.	Maharastra	0.75
19	Bhandara, Gupta coalfield & washeries ltd.	Maharastra	0.75
20	Gondegaon, Gupta coalfield & washeries ltd.	Maharastra	2.40
21	Majri, Gupta coalfield & washeries ltd.	Maharastra	2.40
22	Bilaspur, Gupta coalfield & washeries ltd.	Chattisgarh	3.50
23	Ghugus, Gupta coalfield & washeries ltd.	Maharastra	2.40
24	Talcher, Global coal Mining (P) Ltd.	Orissa	2.50
25	Ib Valley, Global coal Mining (P) Ltd.	Orissa	1.50
26	Ramagundam, Global coal Mining (P) Ltd.	Andhra Pradesh	1.00
27	Wani, Bhatia International Ltd.	Maharastra	3.00
28	Ghugus, Bhatia International Ltd.	Maharastra	4.00
29	Jharsuguda, Bhatia International Ltd.	Orissa	1.50
30	Tamnar, Jindal Steel & Power Ltd.	Chattisgarh	6.00
31	Wani, Indo Unique Flame Ltd.	Maharastra	2.40
32	Nagpur, Indo Unique Flame Ltd.	Maharastra	0.60
33	Punwat, Indo Unique Flame Ltd.	Maharastra	2.40
34	Dharamsthal, BLA Industries	Madhya Pradesh	0.33
	(B) Private		90.95
	TOTAL (A+B)		112.17

Source: Office of Coal Controller, Ministry of Coal

Table 2.2: Total Installed Capacity and Capacity Utilization of Refineries of Crude Oil in India during 2007-08

Sl. No	Refinery	Installed Capacity	Crude Oil Processed	Capacity Utilisation
		(in TMTPA)	(in TMT)	(%)
A	Public Sector Refineries	105468	112541	106.7
I	IOC REFINERIES	47350	47401	100.1
	IOC, Digboi	650	564	86.8
	IOC, Guwahati	1000	920	92.0
	IOC, Barauni	6000	5634	93.9
	IOC, Koyali	13700	13714	100.1
	IOC, Haldia	6000	5715	95.3
	IOC, Mathura	8000	8033	100.4
	IOC, Panipat	12000	12821	106.8
II	BPCL REFINERIES	19500	20880	107.1
	BPCL, Mumbai	12000	12746	106.2
	BPCL, Kochi	7500	8134	108.5
III	HPCL REFINERIES	13000	16818	129.4
	HPCL, Mumbai	5500	7409	134.7
	HPCL, Visakh	7500	9409	125.5
IV	CPCL REFINERIES	10500	10266	97.8
	CPCL, Manali	9500	9802	103.2
	CPCL, Narimanam	1000	464	46.4
V	BRPL, Bongaigaon	2350	2020	86.0
VI	NRL, Numaligarh	3000	2568	85.6
VII	ONGC, Tatipaka	78	63	80.8
VIII	MRPL, Mangalore	9690	12525	129.3
B	PRIVATE REFINERIES	43500	43562	100.1
I	RPL, Jamnagar	-	-	-
II	Essar Oil Ltd., Vadinar	33000	36931	111.9
	Total (A+B)	10500	6631	63.2
		148968	156103	104.8

TMTPA Thousand Metric Tonnes Per Annum

TMT Thousand Metric Tonnes

Source : Ministry of Petroleum & Natural Gas

INSTALLED GENERATING CAPACITY OF ELECTRICITY IN UTILITIES AND NON-UTILITIES IN INDIA

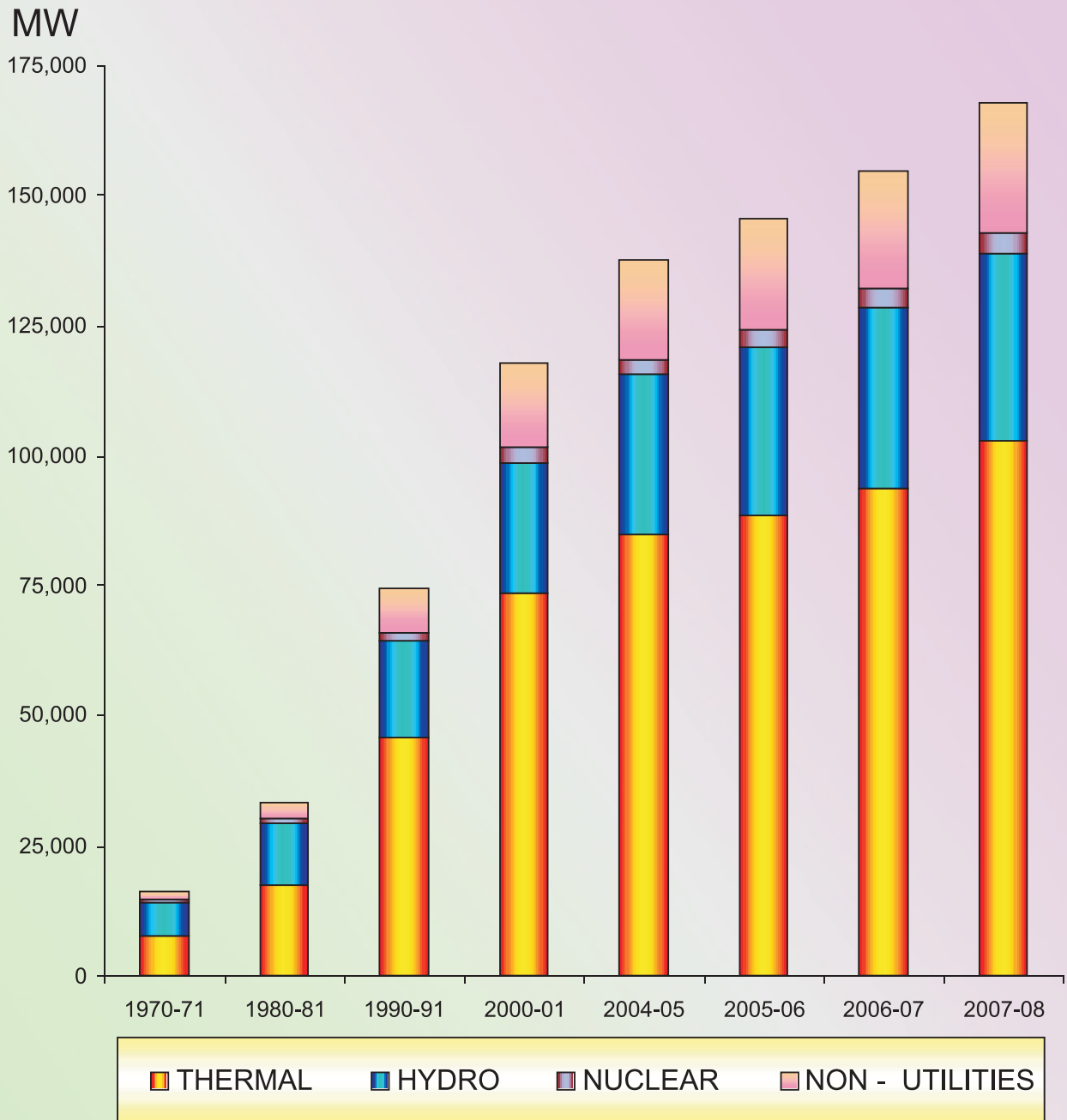


Exhibit (Table 2.3)

Table 2.3 : Installed Generating Capacity of Electricity in Utilities and Non-utilities in India as on 31st March

(Mega Watt) = (10³ x Kilo Watt)

Year	Utilities				Non-utilities			Grand Total
	Thermal *	Hydro	Nuclear	Total	Railways	Self- ** Generating Industries	Total	
1	2	3	4	5	6	7	8	9
1971	7,906	6,383	420	14,709	45	1,517	1,562	16,271
1972	8,223	6,611	420	15,254	59	1,577	1,636	16,890
1973	8,876	6,786	620	16,282	55	1,653	1,708	17,990
1974	9,058	6,966	640	16,664	60	1,733	1,793	18,457
1975	10,148	7,529	640	18,317	64	1,964	2,028	20,345
1976	11,013	8,464	640	20,117	61	2,071	2,132	22,249
1977	11,804	9,025	640	21,469	62	2,225	2,287	23,756
1978	13,009	10,020	640	23,669	62	2,444	2,506	26,175
1979	15,207	10,833	640	26,680	62	2,538	2,600	29,280
1980	16,424	11,384	640	28,448	62	2,800	2,862	31,310
1981	17,563	11,791	860	30,214	60	3,041	3,101	33,315
1982	19,312	12,173	860	32,345	60	3,376	3,436	35,781
1983	21,447	13,056	860	35,363	66	3,806	3,872	39,235
1984	24,388	13,856	1,095	39,339	68	4,298	4,366	43,705
1985	27,030	14,460	1,095	42,585	82	5,038	5,120	47,705
1986	29,967	15,472	1,330	46,769	85	5,419	5,504	52,273
1987	31,740	16,196	1,330	49,266	86	5,628	5,714	54,980
1988	35,560	17,265	1,330	54,155	87	6,258	6,345	60,500
1989	39,677	17,798	1,565	59,040	88	6,432	6,520	65,560
1990	43,763	18,308	1,565	63,636	109	8,007	8,116	71,752
1991	45,768	18,753	1,565	66,086	111	8,502	8,613	74,699
1992	48,086	19,194	1,785	69,065	133	9,168	9,301	78,366
1993	50,749	19,576	2,005	72,330	140	9,905	10,045	82,375
1994	54,369	20,379	2,005	76,753	148	10,575	10,723	87,476
1995	58,113	20,833	2,225	81,171	148	11,013	11,161	92,332
1996	60,083	20,986	2,225	83,294	158	11,629	11,787	95,081
1997	61,912	21,658	2,225	85,795	163	11,916	12,079	97,874
1998	64,972	21,905	2,225	89,102	162	13,004	13,166	102,268
1999	68,590	22,479	2,225	93,294	159	13,932	14,091	107,385
2000	71,347	23,857	2,680	97,884	-	15,336	15,336	113,220
2001	73,613	25,153	2,860	101,626	-	16,157	16,157	117,783
2002	76,057	26,269	2,720	105,046	-	17,145	17,145	122,191
2003	78,390	26,767	2,720	107,877	-	18,363	18,363	126,240
2004	80,457	29,507	2,720	112,684	-	18,740	18,740	131,424
2005	84,714	30,942	2,770	118,426	-	19,103	19,103	137,529
2006	88,601	32,326	3,360	124,287	-	21,468	21,468	145,755
2007	93,775	34,654	3,900	132,329	-	22,335	22,335	154,664
2008 (P)	103,032	35,909	4,120	143,061	-	24,986	24,986	168,047

* From 1995-96 onwards, Thermal includes Renewable Energy Sources.

** Capacity in respect of Self Generating Industries includes units of capacity 1 MW and above.

Source : Central Electricity Authority.

Table 2.4 : Statewise Installed Generating Capacity of Electricity (Utilities)**(in MW)**

States/UTs	As on 31st March 2008				
	Hydro	Thermal	Nuclear	New & Renewable	Total
Haryana	884	2206	0	69	3159
Himachal Pradesh	780	0	0	147	926
Jammu & Kashmir	330	184	0	112	626
Punjab	2320	2380	0	161	4861
Rajasthan	988	2989	0	543	4520
Uttar Pradesh	524	4380	0	174	5077
Uttaranchal	1652	0	0	83	1735
Chandigarh	0	2	0	0	2
Delhi	0	932	0	0	932
Central Sector NR	5498	9362	1180	0	16040
Sub-Total (NR)	12975	22436	1180	1288	37879
Gujarat	772	6721	0	858	8351
Madhya Pradesh	1704	2658	0	123	4484
Chhattisgarh	120	2530	0	164	2814
Maharashtra	3083	9542	0	1956	14580
Goa	0	48	0	30	78
D & N Haveli	0	0	0	0	0
Daman & Diu	0	0	0	0	0
Central Sector WR	1520	9372	1840	0	12732
Sub-Total (WR)	7199	30871	1840	3131	43040
Andhra Pradesh	3534	5255	0	663	9452
Karnataka	3301	2684	0	1641	7626
Kerala	1757	430	0	100	2287
Tamil Nadu	2094	4566	0	3947	10606
Lakshadweep	0	10	0	1	11
Puducherry	0	33	0	0	33
Central Sector SR	0	6440	1100	0	7540
Sub-Total (SR)	10685	19418	1100	6351	37555
Bihar	0	540	0	50	590
Jharkhand	130	1620	0	4	1754
Orissa	2068	420	0	11	2498
West Bengal	1022	5469	0	100	6590
DVC	144	3190	0	0	3334
A & N Island	0	60	0	5	65
Sikkim	0	5	0	39	44
Central Sector ER	570	6910	0	0	7480
Sub-Total (ER)	3934	18214	0	209	22357
Assam	100	344	0	2	446
Manipur	0	45	0	5	51
Meghalaya	156	2	0	31	189
Nagaland	0	2	0	29	31
Tripura	0	132	0	16	148
Arunachal Pradesh	0	16	0	45	61
Mizoram	0	52	0	17	69
Central Sector NER	860	375	0	0	1235
Sub-Total (NER)	1116	969	0	146	2231
Central Sector All India	8448	32459	4120	0	45027
Total All India	35909	91907	4120	11125	143061

Source : Central Electricity Authority.

SOURCEWISE TOTAL INSTALLED CAPACITY OF RENEWABLE POWER AS ON 31.03.2008

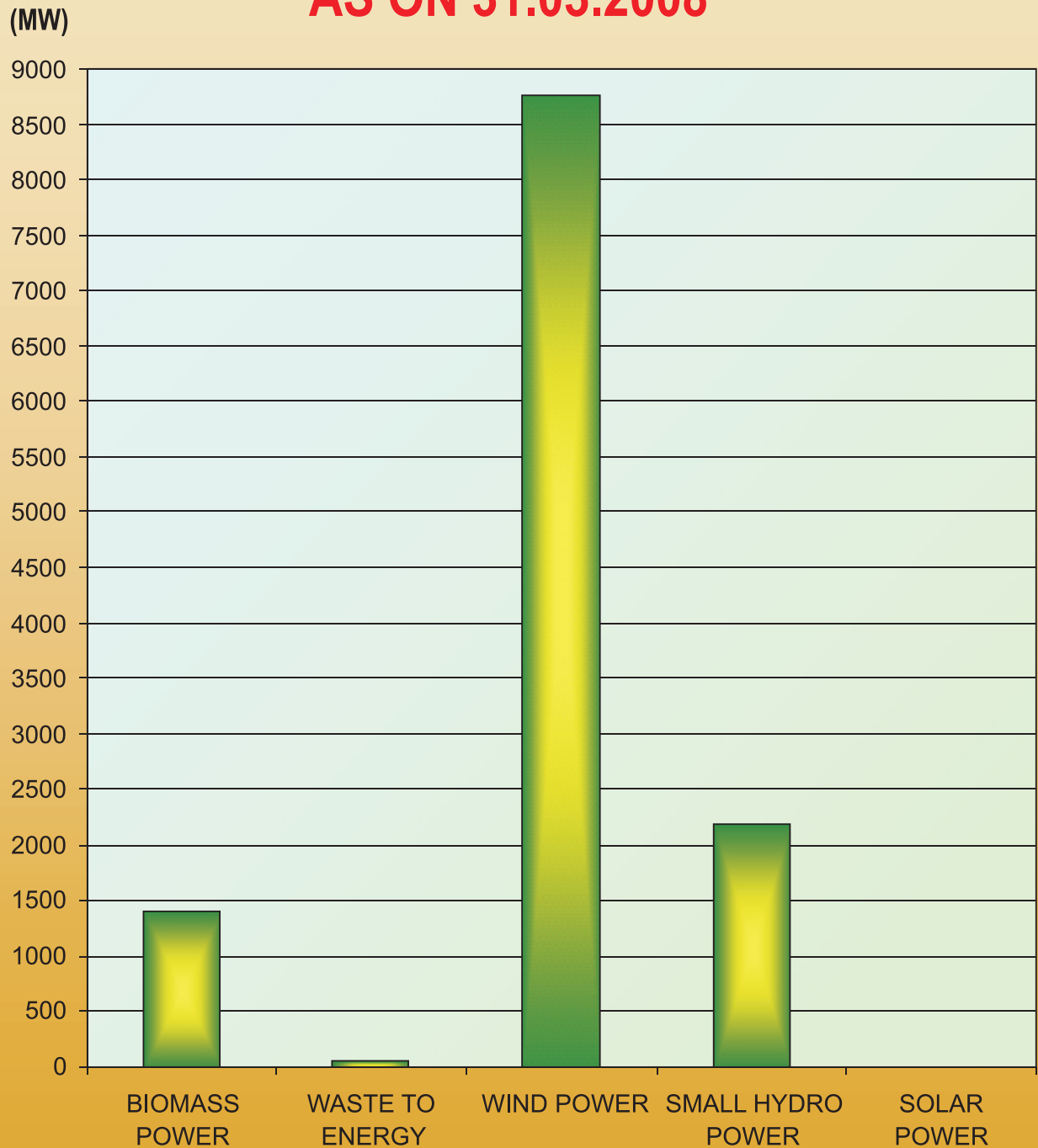


Exhibit (Table 2.5)

N.B. : Solar power being too small is not visible on the scale

**Table 2.5 :Statewise and Sourcewise Total Installed Capacity of Renewable Power
as on 31.03.2008**

(in MW)

States/ UTs	Grid Interactive Renewable power					Total
	Bio Power		Wind Power	Small Hydro Power	Solar Power	
	Biomass Power	Waste to Energy				
Andhra Pradesh	334.25	32.00	122.50	180.83	0.1	669.68
Arunachal Pradesh	-	-	-	45.24	0.02	45.26
Assam	-	-	-	27.11	-	27.11
Bihar	-	-	-	50.40	-	50.40
Chhattisgarh	146.30	-	-	18.05	-	164.35
Goa	-	-	-	0.05	-	0.05
Gujarat	0.50	0.50	1252.90	7.00	-	1260.90
Haryana	6.00	-	-	62.70	-	68.70
Himachal Pradesh	-	-	-	162.62	-	162.62
Jammu & Kashmir	-	-	-	111.83	-	111.83
Jharkhand	-	-	-	4.05	-	4.05
Karnataka	262.28	1.00	1011.40	464.00	-	1738.68
Kerala	-	-	10.50	123.12	0.02	133.64
Madhya Pradesh	1.00	2.75	187.70	71.16	0.10	262.71
Maharashtra	114.00	1.00	1755.90	211.33	-	2082.23
Manipur	-	-	-	5.45	-	5.45
Meghalaya	-	-	-	31.03	-	31.03
Mizoram	-	-	-	17.47	-	17.47
Nagaland	-	-	-	28.67	-	28.67
Orissa	-	-	3.20	32.30	-	35.50
Punjab	28.00	9.25	-	123.90	0.32	161.47
Rajasthan	23.30	-	538.80	23.85	0.15	586.10
Sikkim	-	-	-	39.11	-	39.11
Tamil Nadu	290.50	4.25	3873.40	89.70	0.05	4257.90
Tripura	-	-	-	16.01	-	16.01
Uttar Pradesh	200.50	5.00	-	25.10	0.38	230.98
Uttaranchal	-	-	-	105.12	0.05	105.17
West Bengal	-	-	-	98.40	0.05	98.45
Andaman & Nicobar	-	-	1.10	5.25	0.1	6.45
Chandigarh	-	-	-	-	-	-
Dadar &	-	-	-	-	-	-
Nagar Haveli	-	-	-	-	-	-
Daman & Diu	-	-	-	-	-	-
Delhi	-	-	-	-	-	-
Lakshadweep	-	-	-	-	0.76	0.76
Puducherry	-	-	-	-	0.02	0.02
Total	1406.63	55.75	8757.40	2180.85	2.12	12402.75

Source : Ministry of New & Renewable Energy

Table 2.6 : Installation of Off-grid / Decentralised Renewable Energy Systems/ Devices as on 31.03.2008

Sl. No.	State/UT	Biogas Plants (Nos.)	Water Pumping Wind Mills (Nos.)	SPV Pumps (Nos.)	Solar Photovoltaic			
					SLS (Nos.)	HLS (Nos.)	SL (Nos.)	PP (KWP)
1	2	3	4	5	6	7	8	9
1	Andhra Pradesh	433,414	6	613	3,733	1,628	35,152	21.66
2	Arunachal Pradesh	2,545	-	1	788	1,770	9,937	7.90
3	Assam	63,642	3	45	98	5,870	711	7.50
4	Bihar	125,488	46	139	690	2,771	50,117	-
5	Chhattisgarh	25,499	-	93	1,409	7,028	3,192	-
6	Goa	3,828	-	15	283	223	603	1.72
7	Gujarat	395,552	874	85	2,004	5,918	31,603	29.90
8	Haryana	51,314	-	469	3,793	22,698	41,465	250.40
9	Himachal Pradesh	45,225	-	6	2,994	16,840	22,470	1.50
10	Jammu & Kashmir	2,262	-	39	5,496	15,769	27,509	175.60
11	Jharkhand	3,079	-	-	620	4,035	16,374	-
12	Karnataka	400,614	26	532	2,271	23,038	7,334	29.41
13	Kerala	117,227	79	810	1,090	32,326	41,181	44.70
14	Madhya Pradesh	266,389	-	87	6,054	1,307	8,564	22.40
15	Maharashtra	753,831	26	228	3,491	825	8,683	6.44
16	Manipur	2,128	-	12	370	2,850	3,883	28.00
17	Meghalaya	5,111	-	19	1,273	7,040	24,875	50.50
18	Mizoram	3,670	-	37	315	3,045	5,812	109.00
19	Nagaland	3,123	-	-	271	218	3,437	6.00
20	Orissa	232,190	-	8	5,819	4,485	9,882	36.52
21	Punjab	88,344	-	1,821	3,037	4,620	14,995	71.00
22	Rajasthan	67,080	222	283	6,632	50,551	4,716	25.80
23	Sikkim	6,331	-	-	162	1,805	720	14.70
24	Tamil Nadu	213,015	56	829	2,672	1,557	16,818	30.05
25	Tripura	2,587	-	25	760	2,800	28,000	24.57
26	Uttar Pradesh	416,998	-	751	950	52,997	51,683	129.20
27	Uttaranchal	8,179	-	26	1,169	43,331	56,523	80.03
28	West Bengal	285,462	-	48	2,111	76,304	3,662	675.00
29	Andaman & Nicobar	137	2	5	358	405	6,296	167.00
30	Chandigarh	97	-	12	-	275	1,675	-
31	Dadar & Nagar Haveli	169	-	-	-	-	-	-
32	Daman & Diu	-	-	-	-	-	-	-
33	Delhi 678	-	89	301	-	4,753	30.00	-
34	Lakshadweep	-	-	-	-	-	-	85.00
35	Pondicherry	573	-	21	310	25	1,637	-
36	Others*	-	-	-	9,150	8,584	125,797	58.00
Total		4,025,781	1,340	7,148	70,474	402,938	670,059	2,220

Table 2.6 (contd.) : Installation of Off-grid / Decentralised Renewable Energy Systems/ Devices as on 31.03.2008

Sl. No.	State/UT	Aerogen. Hybrid System	Solar Cooker	Biomass Gasifiers	Waste to Energy		Remote Village Electrification Villages/Hamlets
					Industrial	Biogas	
		(KW)	(Nos.)	MW	MW	MWe	(Nos.)
1	2	10	11	12	13	14	15
1	Andhra Pradesh	16.00	13395	15.38	3.75	0.95	-
2	Arunachal Pradesh	-	530	1.98	-	-	128
3	Assam	6.00	80	0.12	-	-	1,950
4	Bihar	-	475	0.49	-	-	-
5	Chhattisgarh	-	37114	0.51	-	-	79
6	Goa	63.80	1500	0.02	-	-	-
7	Gujarat	10.00	146219	14.51	2.00	0.91	36
8	Haryana	-	27115	1.06	-	-	149
9	Himachal Pradesh	-	28837	0.01	-	-	-
10	Jammu & Kashmir	-	868	0.52	-	-	27
11	Jharkhand	-	280	0.18	-	-	405
12	Karnataka	34.15	253	5.56	-	2.00	66
13	Kerala	8.00	236	0.73	-	-	49
14	Madhya Pradesh	-	141618	4.74	-	0.03	215
15	Maharashtra	489.37	58044	3.82	-	1.76	255
16	Manipur	30	365	-	-	-	68
17	Meghalaya	-	1165	-	-	-	70
18	Mizoram	-	110	0.20	-	-	-
19	Nagaland	-	-	1.38	-	-	3
20	Orissa	-	3437	0.07	-	-	197
21	Punjab	-	22050	0.70	-	1.58	-
22	Rajasthan	4.00	36682	0.23	-	-	303
23	Sikkim	10.00	20	-	-	-	-
24	Tamil Nadu	24.50	1536	5.41	0.23	2.75	32
25	Tripura	-	80	1.10	-	-	205
26	Uttar Pradesh	-	50134	4.89	5.00	0.73	17
27	Uttaranchal	-	8998	-	-	1.52	140
28	West Bengal	18.00	7959	7.35	-	-	5
29	Andaman & Nicobar	-	60	0.17	-	-	-
30	Chandigarh	-	1529	-	-	-	-
31	Dadar & Nagar Haveli	-	80	-	-	-	-
32	Daman & Diu	-	-	-	-	-	-
33	Delhi	-	27990	0.07	-	-	-
34	Lakshaadweep	-	-	-	-	-	-
35	Pondicherry	5.00	90	0.60	-	-	-
36	Others*	-	17950	0.32	-	-	-
Total		718.82	636799	72.12	10.98	12.23	4399

Source : Ministry of New and Renewable Energy

* Others includes installations through NGOs/IREDA in different states

SLS = Street Lighting System; HLS = Home Lighting System; SL = Solar Lantern; PP = Power Plants;

SPV = Solar Photovoltaic; MW = Mega Watt; KWP = Kilowatt peak; MWe=Mega Watt electric