

SECTION 5:
ELECTRICITY
IN INDIA

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

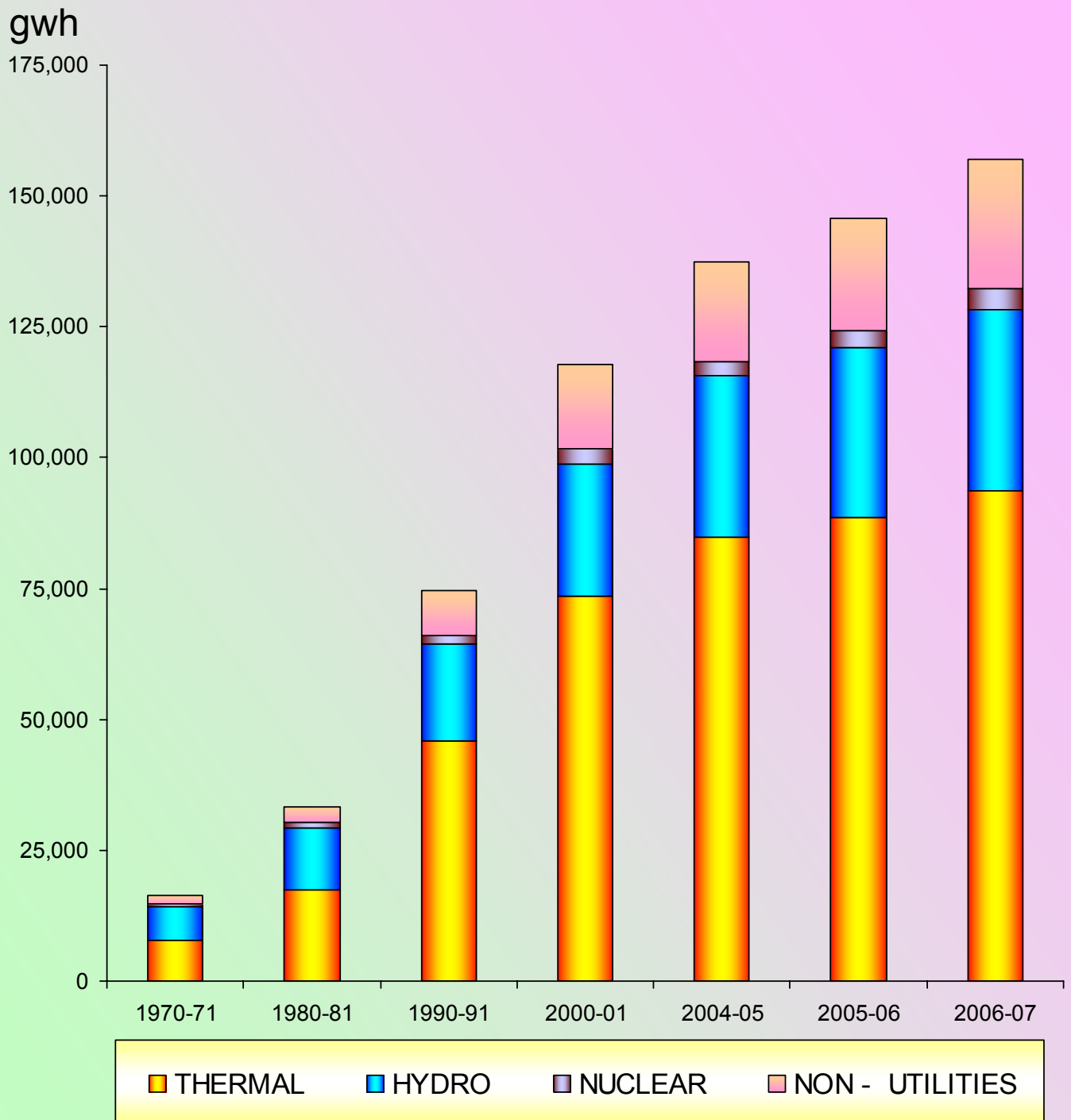


Exhibit (Table 5.1)

Table 5.1 : Installed Generating Capacity of Electricity in Utilities and Non-utilities in India

(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
1970-71	7,906	6,383	420	14,709	45	1,517	1,562	16,271
1971-72	8,223	6,611	420	15,254	59	1,577	1,636	16,890
1972-73	8,876	6,786	620	16,282	55	1,653	1,708	17,990
1973-74	9,058	6,966	640	16,664	60	1,733	1,793	18,457
1974-75	10,148	7,529	640	18,317	64	1,964	2,028	20,345
1975-76	11,013	8,464	640	20,117	61	2,071	2,132	22,249
1976-77	11,804	9,025	640	21,469	62	2,225	2,287	23,756
1977-78	13,009	10,020	640	23,669	62	2,444	2,506	26,175
1978-79	15,207	10,833	640	26,680	62	2,538	2,600	29,280
1979-80	16,424	11,384	640	28,448	62	2,800	2,862	31,310
1980-81	17,563	11,791	860	30,214	60	3,041	3,101	33,315
1981-82	19,312	12,173	860	32,345	60	3,376	3,436	35,781
1982-83	21,447	13,056	860	35,363	66	3,806	3,872	39,235
1983-84	24,388	13,856	1,095	39,339	68	4,298	4,366	43,705
1984-85	27,030	14,460	1,095	42,585	82	5,038	5,120	47,705
1985-86	29,967	15,472	1,330	46,769	85	5,419	5,504	52,273
1986-87	31,740	16,196	1,330	49,266	86	5,628	5,714	54,980
1987-88	35,560	17,265	1,330	54,155	87	6,258	6,345	60,500
1988-89	39,677	17,798	1,565	59,040	88	6,432	6,520	65,560
1989-90	43,763	18,308	1,565	63,636	109	8,007	8,116	71,752
1990-91	45,768	18,753	1,565	66,086	111	8,502	8,613	74,699
1991-92	48,086	19,194	1,785	69,065	133	9,168	9,301	78,366
1992-93	50,749	19,576	2,005	72,330	140	9,905	10,045	82,375
1993-94	54,369	20,379	2,005	76,753	148	10,575	10,723	87,476
1994-95	58,113	20,833	2,225	81,171	148	11,013	11,161	92,332
1995-96	60,083	20,986	2,225	83,294	158	11,629	11,787	95,081
1996-97	61,912	21,658	2,225	85,795	163	11,916	12,079	97,874
1997-98	64,972	21,905	2,225	89,102	162	13,004	13,166	102,268
1998-99	68,590	22,479	2,225	93,294	159	13,932	14,091	107,385
1999-00	71,347	23,857	2,680	97,884	-	15,336	15,336	113,220
2000-01	73,613	25,153	2,860	101,626	-	16,157	16,157	117,783
2001-02	76,057	26,269	2,720	105,046	-	17,145	17,145	122,191
2002-03	78,390	26,767	2,720	107,877	-	18,363	18,363	126,240
2003-04	80,457	29,507	2,720	112,684	-	18,740	18,740	131,424
2004-05	84,714	30,942	2,770	118,426	-	19,103	19,103	137,529
2005-06	88,601	32,326	3,360	124,287	-	21,468	21,468	145,755
2006-07(P)	93,775	34,654	3,900	132,329	-	24,681	24,681	157,010

* From 1995-96 onwards, Thermal includes wind also.

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

Source : Central Electricity Authority.

GROSS GENERATION OF ELECTRICITY IN UTILITIES AND NON-UTILITIES IN INDIA

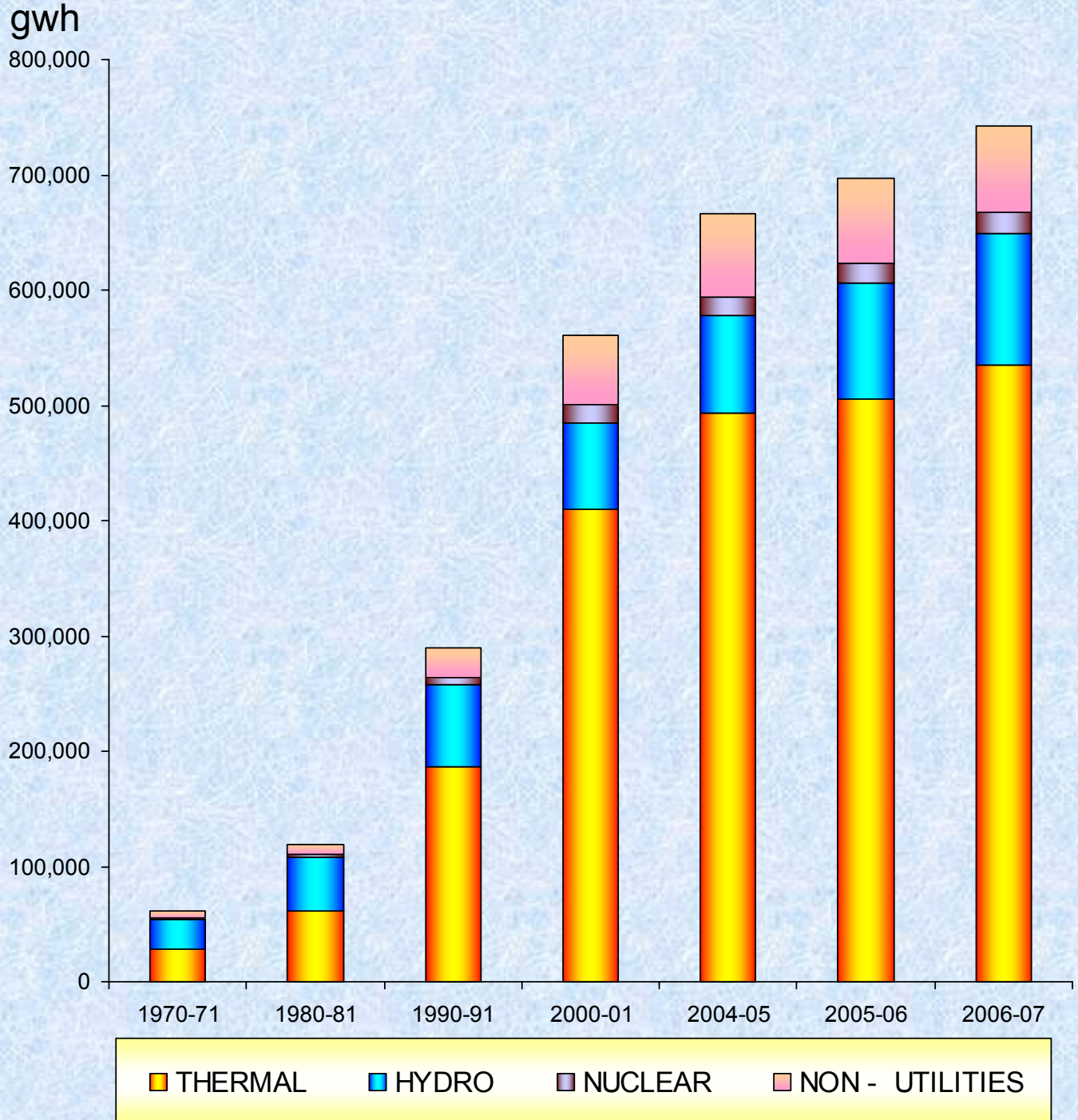


Exhibit (Table 5.2)

**Table 5.2 : Gross Generation of Electricity in Utilities
and Non-utilities in India**

(Giga Watt hour) = (10⁶ x Kilo Watt hour)

Year	Utilities				Non-utilities			Grand
	Thermal *	Hydro	Nuclear	Total	Railways	Others	Total	Total
	1	2	3	4	5 = 2 to 4	6	7	8=6+7
1970-71	28,162	25,248	2,418	55,828	37	5,347	5,384	61,212
1971-72	31,712	28,024	1,190	60,926	43	5,415	5,458	66,384
1972-73	36,217	27,196	1,133	64,546	38	5,932	5,970	70,516
1973-74	35,321	28,972	2,396	66,689	40	6,067	6,107	72,796
1974-75	40,109	27,875	2,206	70,190	36	6,452	6,488	76,678
1975-76	43,303	33,302	2,626	79,231	38	6,657	6,695	85,926
1976-77	50,245	34,836	3,252	88,333	41	7,241	7,282	95,615
1977-78	51,090	38,007	2,272	91,369	39	7,520	7,559	98,928
1978-79	52,594	47,159	2,770	102,523	34	7,573	7,607	110,130
1979-80	56,273	45,477	2,877	104,627	36	8,157	8,193	112,820
1980-81	61,301	46,542	3,001	110,844	42	8,374	8,416	119,260
1981-82	69,515	49,565	3,021	122,101	45	8,979	9,024	131,125
1982-83	79,868	48,374	2,022	130,264	47	9,989	10,036	140,300
1983-84	86,677	49,954	3,546	140,177	48	10,769	10,817	150,994
1984-85	98,836	53,948	4,075	156,859	43	12,303	12,346	169,205
1985-86	114,347	51,021	4,982	170,350	43	12,997	13,040	183,390
1986-87	128,851	53,840	5,022	187,713	37	13,528	13,565	201,278
1987-88	149,614	47,444	5,035	202,093	35	16,855	16,890	218,983
1988-89	157,692	57,873	5,817	221,382	36	18,934	18,970	240,352
1989-90	178,697	62,116	4,625	245,438	29	23,197	23,226	268,664
1990-91	186,547	71,641	6,141	264,329	29	25,082	25,111	289,440
1991-92	208,747	72,757	5,525	287,029	22	28,580	28,602	315,631
1992-93	224,767	69,869	6,726	301,362	23	31,328	31,351	332,713
1993-94	248,189	70,463	5,398	324,050	23	32,262	32,285	356,335
1994-95	262,130	82,712	5,648	350,490	23	35,044	35,067	385,557
1995-96	299,316	72,579	7,982	379,877	24	38,142	38,166	418,043
1996-97	317,918	68,901	9,071	395,890	25	40,815	40,840	436,730
1997-98	337,082	74,582	10,083	421,747	27	44,051	44,078	465,825
1998-99	353,689	82,923	11,923	448,535	26	48,353	48,379	496,914
1999-00	387,050	80,756	13,249	481,055	-	55,397	55,397	536,452
2000-01	409,940	74,362	16,902	501,204	-	59,638	59,638	560,842
2001-02	424,385	73,579	19,475	517,439	-	61,681	61,681	579,120
2002-03	449,289	64,014	19,390	532,693	-	63,850	63,850	596,543
2003-04	472,080	75,242	17,780	565,102	-	68,173	68,173	633,275
2004-05	492,835	84,610	17,011	594,456	-	71,417	71,417	665,873
2005-06	505,001	101,494	17,324	623,819	-	73,640	73,640	697,459
2006-07(P)	535,547	113,359	18,607	667,513	-	74,846	74,846	742,359

* From 1995-96 onwards, Thermal includes wind also.

Source : Central Electricity Authority.

Table 5.3 : Average Generation of Electricity Per Kilowatt of Installed Capacity in India

Year	(Kilo Watt hour)							
	Utilities				Non-utilities			Grand
	Thermal *	Hydro	Nuclear	Total Average	Railways	Self- Generating Industries	Total Average	Total Average
1	2	3	4	5	6	7	8	9
1970-71	3,562	3,956	5,757	3,795	822	3,525	3,447	3,762
1971-72	3,857	4,239	2,833	3,994	729	3,434	3,336	3,930
1972-73	4,080	4,008	1,827	3,964	691	3,589	3,495	3,920
1973-74	3,899	4,159	3,744	4,002	667	3,501	3,406	3,944
1974-75	3,952	3,702	3,447	3,832	563	3,285	3,199	3,769
1975-76	3,932	3,935	4,103	3,939	623	3,214	3,140	3,862
1976-77	4,257	3,860	5,081	4,114	661	3,254	3,184	4,025
1977-78	3,927	3,793	3,550	3,860	629	3,077	3,016	3,779
1978-79	3,459	4,353	4,328	3,843	548	2,984	2,926	3,761
1979-80	3,426	3,995	4,495	3,678	581	2,913	2,863	3,603
1980-81	3,490	3,947	3,490	3,669	700	2,754	2,714	3,580
1981-82	3,600	4,072	3,513	3,775	750	2,660	2,626	3,665
1982-83	3,724	3,705	2,351	3,684	712	2,625	2,592	3,576
1983-84	3,554	3,605	3,238	3,563	706	2,506	2,478	3,455
1984-85	3,657	3,731	3,721	3,683	524	2,442	2,411	3,547
1985-86	3,816	3,298	3,746	3,642	506	2,398	2,369	3,508
1986-87	4,060	3,324	3,776	3,810	430	2,404	2,374	3,661
1987-88	4,207	2,748	3,786	3,732	402	2,693	2,662	3,620
1988-89	3,974	3,252	3,717	3,750	409	2,944	2,910	3,666
1989-90	4,083	3,393	2,955	3,857	266	2,897	2,862	3,744
1990-91	4,076	3,820	3,924	4,000	261	2,950	2,915	3,875
1991-92	4,341	3,791	3,095	4,156	165	3,117	3,075	4,028
1992-93	4,429	3,569	3,355	4,166	164	3,163	3,121	4,039
1993-94	4,565	3,458	2,692	4,222	155	3,051	3,011	4,074
1994-95	4,511	3,970	2,538	4,318	155	3,182	3,142	4,176
1995-96	4,982	3,458	3,587	4,561	152	3,280	3,237	4,397
1996-97	5,135	3,181	4,077	4,614	153	3,425	3,381	4,462
1997-98	5,188	3,405	4,532	4,733	167	3,387	3,348	4,555
1998-99	5,157	3,689	5,359	4,808	164	3,471	3,433	4,627
1999-00	5,425	3,385	4,944	4,915	-	3,612	3,612	4,738
2000-01	5,569	2,956	5,910	4,932	-	3,691	3,691	4,762
2001-02	5,586	2,816	7,103	4,911	-	3,801	3,801	4,757
2002-03	5,725	2,372	7,072	4,924	-	3,914	3,914	4,783
2003-04	5,867	2,550	6,537	5,015	-	3,638	3,638	4,819
2004-05	5,818	2,734	6,141	5,020	-	3,739	3,739	4,842
2005-06	5,700	3,140	5,156	5,019	-	3,430	3,430	4,785
2006-07(P)	5,711	3,271	4,771	5,044	-	3,033	3,033	4,728

* From 1995-96 onwards, Thermal includes wind also.

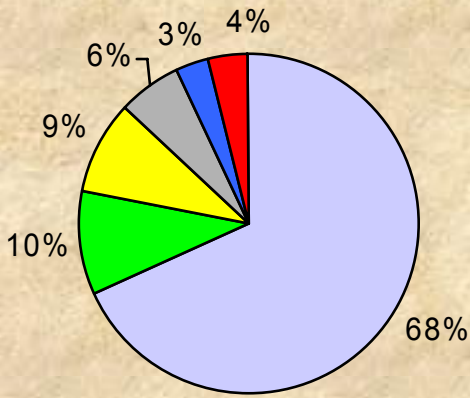
Source : Central Electricity Authority.

Table 5.4 : Electricity Generated, Distributed, Sold and Lost in India(Giga Watt hour) = (10⁶ x Kilo Watt hour)

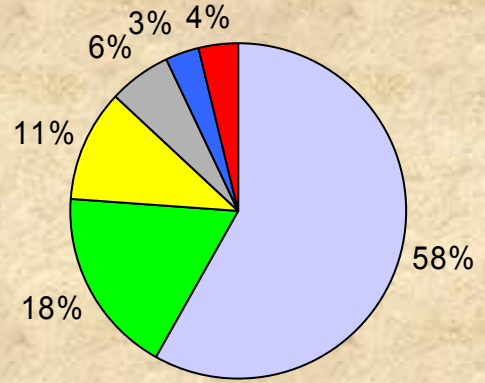
Year	Gross Electricity Generated from Utilities	Consumption in Power Station Auxiliaries	Net Electricity Generated from Utilities	Purchases from Non-Utilities + Imported from Other Countries	Net Electricity Available for Supply	Sold to Ultimate Consumers & Other Countries	Loss in transmission
1	2	3	4=2-3	5	6=4+5	7	8=6-7
1970-71	55,828	2,863	52,965	66	53,031	43,724	9,307
1971-72	60,926	3,130	57,796	129	57,925	47,063	10,862
1972-73	64,546	3,398	61,148	178	61,326	49,096	12,230
1973-74	66,689	3,615	63,074	115	63,189	50,257	12,932
1974-75	70,190	4,130	66,060	139	66,199	52,644	13,555
1975-76	79,231	4,556	74,675	121	74,796	60,246	14,550
1976-77	88,333	5,334	82,999	88	83,087	66,641	16,446
1977-78	91,369	5,620	85,749	69	85,818	69,286	16,532
1978-79	102,523	5,893	96,630	73	96,703	77,343	19,360
1979-80	104,627	6,495	98,132	68	98,200	78,124	20,076
1980-81	110,844	7,230	103,614	120	103,734	82,367	21,367
1981-82	122,101	8,287	113,814	114	113,928	90,245	23,683
1982-83	130,264	9,029	121,235	70	121,305	95,667	25,638
1983-84	140,177	10,142	130,035	87	130,122	102,433	27,689
1984-85	156,859	11,650	145,209	184	145,393	114,179	31,214
1985-86	170,350	13,157	157,193	107	157,300	123,106	34,194
1986-87	187,713	14,704	173,009	316	173,325	136,129	37,196
1987-88	202,093	16,317	185,776	2,097	187,873	145,643	42,230
1988-89	221,382	17,185	204,197	1,745	205,942	161,436	44,506
1989-90	245,438	18,674	226,764	2,020	228,784	175,524	53,260
1990-91	264,329	19,604	244,725	2,216	246,941	190,420	56,521
1991-92	287,029	21,011	266,018	3,118	269,136	207,698	61,438
1992-93	301,362	22,060	279,302	3,082	282,384	220,819	61,565
1993-94	324,050	23,670	300,380	3,301	303,681	238,670	65,011
1994-95	350,490	24,795	325,695	3,560	329,255	259,687	69,568
1995-96	379,877	27,220	352,657	3,784	356,441	277,078	79,363
1996-97	395,890	28,805	367,085	4,310	371,395	280,290	91,105
1997-98	421,747	30,684	391,063	3,926	394,989	297,070	97,919
1998-99	448,535	31,423	417,112	4,367	421,479	310,004	111,475
1999-00	481,055	32,889	448,166	5,039	453,205	313,042	140,163
2000-01	501,204	34,932	466,272	5,596	471,868	316,795	155,073
2001-02	517,439	36,606	480,833	7,969	488,802	322,691	166,111
2002-03	532,693	38,256	494,437	8,219	502,656	339,773	162,883
2003-04	565,102	39,801	525,301	9,730	535,031	360,996	174,035
2004-05	594,456	41,590	552,866	8,843	561,709	386,174	175,535
2005-06	623,819	41,970	581,849	10,345	592,194	412,096	180,098
2006-07(P)	667,513	46,726	620,787	11,592	632,379	443,463	188,916

Source : Central Electricity Authority.

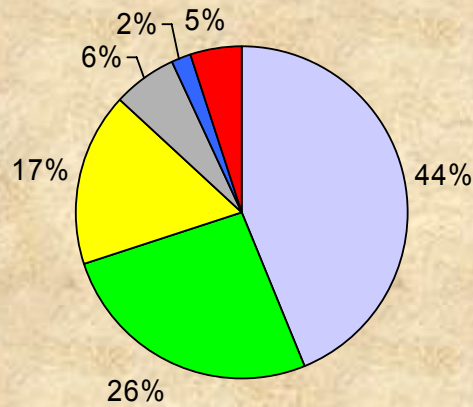
SECTOR WISE CONSUMPTION OF ELECTRICITY IN INDIA



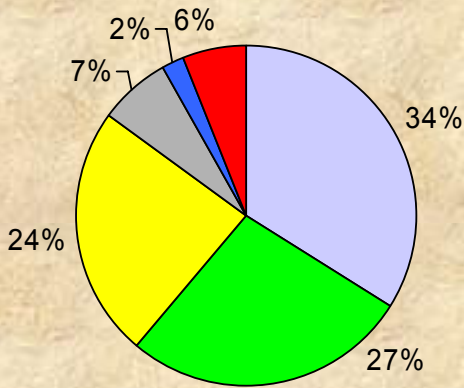
1970-71



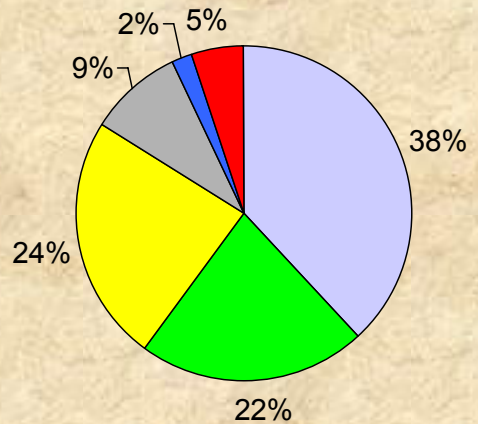
1980-81



1990-91



2000-01



2006-07



Exhibit (Table 5.5)

Table 5.5: Consumption of Electricity (from utilities) by Sectors in India(Giga Watt hour) = (10⁶ x Kilo Watt hour)

Year	Industry	Agriculture	Domestic	Commercial	Traction & Railways	Others	Total Electricity Consumed
1	2	3	4	5	6	7	8=2 to 7
1970-71	29,579	4,470	3,840	2,573	1,364	1,898	43,724
1971-72	31,637	5,006	4,107	2,953	1,633	1,737	47,073
1972-73	32,244	5,918	4,309	2,782	1,831	2,004	49,088
1973-74	32,481	6,310	4,645	2,988	1,531	2,291	50,246
1974-75	32,690	7,763	5,173	3,082	1,531	2,393	52,632
1975-76	37,568	8,721	5,821	3,507	1,855	2,774	60,246
1976-77	41,606	9,621	6,337	4,142	2,168	2,765	66,639
1977-78	42,635	10,107	6,821	4,428	2,297	2,967	69,255
1978-79	47,728	12,027	7,576	4,331	2,186	3,445	77,293
1979-80	45,955	13,452	8,402	4,657	2,301	3,317	78,084
1980-81	48,069	14,489	9,246	4,682	2,266	3,615	82,367
1981-82	53,064	15,202	10,439	5,194	2,505	3,841	90,245
1982-83	52,967	17,817	12,092	5,846	2,633	4,234	95,589
1983-84	57,094	18,233	13,235	6,561	2,710	4,511	102,344
1984-85	63,019	20,960	15,506	6,937	2,880	4,766	114,068
1985-86	66,980	23,422	17,258	7,290	3,182	4,967	123,099
1986-87	70,297	29,444	19,323	7,772	3,229	5,887	135,952
1987-88	69,180	35,267	22,120	8,841	3,616	6,589	145,613
1988-89	76,819	38,847	24,609	10,064	4,037	5,820	160,196
1989-90	80,694	44,056	29,577	9,548	4,070	7,474	175,419
1990-91	84,209	50,321	31,982	11,181	4,112	8,552	190,357
1991-92	87,288	58,557	35,854	12,032	4,520	9,394	207,645
1992-93	90,170	63,328	39,717	12,653	5,068	9,738	220,674
1993-94	94,503	70,699	43,344	14,144	5,620	10,259	238,569
1994-95	100,126	79,301	47,915	15,973	5,886	10,428	259,629
1995-96	104,693	85,732	51,733	16,996	6,223	11,652	277,029
1996-97	104,165	84,019	55,267	17,519	6,534	12,642	280,146
1997-98	104,926	91,242	60,346	19,367	6,944	13,924	296,749
1998-99	105,080	97,195	64,973	19,799	7,307	15,380	309,734
1999-00	106,728	90,934	70,520	21,161	8,088	15,410	312,841
2000-01	107,622	84,729	75,629	22,545	8,213	17,862	316,600
2001-02	107,296	81,673	79,694	24,139	8,106	21,551	322,459
2002-03	114,959	84,486	83,355	25,437	8,797	22,564	339,598
2003-04	124,573	87,089	89,736	28,201	9,210	22,128	360,937
2004-05	137,589	88,555	95,660	31,381	9,495	23,454	386,134
2005-06	151,557	90,292	100,090	35,965	9,944	24,039	411,887
2006-07(P)	167,365	97,089	107,724	38,673	10,381	21,931	443,163

Source : Central Electricity Authority.