



GOVERNMENT OF INDIA
MINISTRY OF ENERGY
(Department of Power)
CENTRAL ELECTRICITY AUTHORITY

**PUBLIC ELECTRICITY SUPPLY
ALL INDIA STATISTICS
1975-76**

GENERAL REVIEW

COMPILED BY THE COMMERCIAL DIRECTORATE
CENTRAL ELECTRICITY AUTHORITY

FOREWORD

In accordance with Section-3 of the Electricity (Supply) Act-1948 the Central Electricity Authority is required to collect data concerning the generation, distribution and utilisation of power and to publish the data so received.

As in previous years, the 'General Review' for the year 1975-76 presents in detail all aspects of progress and development in India in the field of Electricity Supply. The arrangement of tables and narrative data in this review has been modified slightly to bring together the write-up on any field of activity and the relevant tables. The Review contains 9 sections :—

- (1) Salient features of electricity supply industry,
- (2) Installed capacity and generation (utilities & non-utilities),
- (3) Transmission Distribution lines and transformers,
- (4) Utilisation (utilities & non-utilities),
- (5) Acquisition of licensees and electrical accidents,
- (6) Progress of electricity supply (utilities only),
- (7) Financial statistics,
- (8) Electricity Tariff,
- (9) Progress of electricity supply-Statewise.

Those who want to have a quick look on the progress of electric supply as a whole, can see the salient data in section-1. The details of Statewise progress of electricity are available in section-9. The rates of growth in generation, installed capacity, per capita consumption, etc. over the year are furnished in section-6.

The Authority is grateful to various Governments of States and Union Territories, State Electricity Boards and other Electricity Supply Undertakings, both in the public and private sector, and to the industrial undertakings for the supply of necessary data for compilation of this Review. Some of the electricity undertakings did not supply the necessary data in time in spite of vigorous efforts of the Authority.

In such cases the figures have been estimated on the basis of data available for the previous year. During the course of examination of the data furnished to the Authority it was found that, in some cases, it was not consistent with earlier information. In such cases some corrections have had to be made. This publication could have been brought out earlier, had complete and correct data been supplied by some organisations in time. The utility of this publication will be enhanced if it is published within six months of the completion of the year to which it relates. The co-operation of all the Electricity Supply undertakings both in the public and private sector is therefore solicited in ensuring that complete statistical and financial details regarding their undertakings are made available to the Authority within three months of the completion of the year.

While every effort has been made to ensure accuracy of the information contained in this publication, the Authority accepts no responsibility for any error or omission therein.

The Authority records its appreciation of the work done by the officers and staff of Commercial Dte. in the compilation and publication of 'General Review'.

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TECHNICAL STATISTICS

SECTION-1

SALIENT FEATURES OF ELECTRICITY SUPPLY INDUSTRY

SECTION—1

1.1 Salient features of electricity supply industry

The demand for power is closely related to the growth in various sectors of economy apart from factors like increase in population, income & energy consumption pattern etc. The installed capacity which was a meagre 1713 MW before the starting of Planning era, has risen to 20117 MW, and the generation has increased from 5858 m.kWh to 79231 m.kWh as at the end of March, 1976. This growth reflects the extent of the nations overall development particularly in the field of industry and agriculture. The per capita consumption of electricity has increased from 17.8 kWh at the beginning of first Plan to 109.95 kWh during the year 1975-76. The number of villages electrified at the end of the year was 185806 as compared to only 3061 in 1951.

Though the growth in electricity generation and consequently consumption had slowed down because of various factors during the last two or three years, the performance for the year 1975-76 was very encouraging with an increase of 14.47% in consumption. The per capita consumption went up steeply to 109.95 compared to 98.99 during the previous year. This has been mainly due to better performance of the existing plants and higher generation from hydro plants due to good monsoon. The widespread restrictions on the usage of electricity was consequently limited only to some pockets of the country.

1.2—Electricity supply industry, before independence, was mainly in the hands of private licensees. However, after the enactment of 'Electricity (Supply) Act—1948' the State Electricity Boards were made mainly responsible for the development and supply of power in the most economical and efficient manner within the State. Accordingly, State Electricity Boards have been constituted in eighteen of the twenty-two States (Sikkim being the 22nd State). Only the States of Manipur, Tripura, Sikkim and Nagaland have yet to establish their State Electricity Boards. Electricity Supply Industry made rapid strides under the State Electricity Boards. As of now the State Electricity Boards are responsible for 65.10% of the generation and 72.47% of the sales in the country. The private licensees who had been given license continued to operate, though their role is diminishing and their sales form only 15.58% of the total sales. Besides the State Electricity Boards and private licensees some municipalities, government departments and co-operatives are also engaged in the supply and distribution of electricity. The details of agencies engaged in generation and distribution or distribution only are indicated in the following table :—

Ownership	Generating and distributing	Generating Purchasing and distributing	Distributing	Total
1. <i>Public sector</i>				
(a) State Electy. Bds.	1	17	—	18
(b) Electricity depmts./govt. undertakings/corpsns.	9	12	3	24
(c) Municipalities & local authorities	—	3	23	26
<i>Private sector</i>				
Companies including co-operatives	—	11	45	56
TOTAL	10	43	71	124

N.B.—Renusagar Power Supply Co. has not been included in utilities.

During the year 26 private electricity undertakings were acquired either after the expiry of the license period or through special laws. Out of the existing private undertakings six large companies operating in Bombay, Calcutta and Ahmedabad areas handled 84.40% of the total energy sold by private licensees.

Majority of the private licensees are operating in the States of Maharashtra (23), Gujarat (11) and West Bengal (12). The States of Assam, Bihar, Haryana, Himachal Pradesh, Jammu & Kashmir, Madhya Pradesh, Manipur, Nagaland, Orissa, Rajasthan, Tamil Nadu and Tripura did not have any private licensee. Of late through the aegis of the Rural Electrification Corporation, establishment of rural cooperatives is being encouraged and the total number of co-operatives at the end of the year was 7. Two new cooperatives came into being in Andhra Pradesh during the year. For those who do not have time to go through in detail the various tables given in this review, the tables contained in this section offer all the salient features of the electricity supply industry on an all India basis. The tables indicate the growth since 1951 in generation primemoverwise and in the utility and non-utility sectors, per capita production and consumption, increase in the transmission net work during the Plan periods and the number of different classes of consumers and their consumption and the progress achieved in rural electrification.

TABLE No. 1.1.1
Generating capacity & Aggregate Maximum Demand

Year ending	12/50 @@	12/55 @@	3/61	3/66	3/69	3/74	3/75	3/76
I	2	3	4	5	6	7	8	9
GENERATING CAPACITY (M.W.)								
1.								
(a) Utilities :								
Hydro	559.29	939.48	1,916.66	4,123.75	5,906.91	6,965.30	7,529.24	8,463.60
Steam	1,004.43	1,546.81	2,436.26	4,417.11	6,640.34	8,651.76	9,752.54	10,579.09
Diesel	148.80	208.53	300.14	352.16	276.02	241.00	229.40	226.37
Gas Turbine	..	..	..	134.00	134.00	165.50	165.50	208.00
Nuclear	..	..	..	..	..	640.00	640.00	640.00
TOTAL	1,712.52	2,694.82	4,653.06	9,027.02	12,957.27	16,663.56	18,316.68	20,117.06
(b) Non-Utilities :								
(i) Self generating								
Industry	587.85	723.51	1,001.37	1,082.36	1,277.47	1,732.70	1,964.30	2,070.89
(ii) Railways	..	..	..	63.64	61.93	59.81	64.27	60.63
TOTAL	587.85	723.51	1,001.37	1,146.00	1,339.40	1,792.51	2,028.57	2,131.52
ALL INDIA GRAND TOTAL 1	2,300.37	3,418.33	5,654.43	10,173.02	14,296.67	18,456.07	20,345.25	22,248.58
2. Aggregate								
Maximum demand (M.W.)	1,205.19	1,989.77	3,545.93	7,306.23	10,871.06	14,478.71	15,576.65	17,304.76

@@ Nearest dates to beginning of First & Second Plans for which data available.

TABLE No. 1.1.2
Generation—All India & Per Capita

During the Year	1951	1956	1960-61	1965-66	1968-69	1973-74	1974-75	1975-76
I	2	3	4	5	6	7	8	9
(i) GENERATION (GROSS) (Million kWh)								
(a) (Utilities) Hydro	2,859.70	4,294.88	7,836.58	15,224.97	20,722.7	28,971.84	27,875.18	33,301.77
Steam	2,779.05	5,133.90	8,732.41	17,372.18	26,393.7	34,853.08	39,538.72	42,760.05
Diesel	219.65	233.36	368.02	223.68	193.5	124.61	121.27	59.83
Gas Turbine	..	..	..	69.30	123.4	343.14	449.27	482.76
Nuclear	..	..	..	..	..	2,396.36	2,206.09	2,626.51
TOTAL	5,858.40	9,662.14	16,937.00	32,990.13	47,433.3	66,689.03	70,190.53	79,230.92
(b) (Non-Utilities)								
(i) Self generating								
Industry	1,655.57	2,209.51	3,186.11	3,733.19	4,136.1	6,067.47	6,451.65	6,657.12
(ii) Railways	..	..	..	101.93	72.1	39.63	36.30	38.18
TOTAL	1,655.57	2,209.51	3,186.11	3,835.12	4,208.2	6,107.10	6,487.95	6,695.30
ALL INDIA GRAND TOTAL	7,513.97	11,871.65	20,123.12	36,825.25	51,641.50	72,796.13	76,678.48	85,926.22
(ii) PER CAPITA GENERATION- kwh (Utilities & Non- Utilities)	20.8	30.9	43.9	73.81	97.82	126.26	130.31	143.10

TABLE No. 1.1.3
Fuel Consumption

During the Year	1951	1956	1960-61	1965-66	1968-69	1973-74	1974-75	1975-76
I	2	3	4	5	6	7	8	9
FUEL CONSUMPTION								
(a) In steam power stations								
(i) Coal (Tonnes)	2478,200	4067,350	6699,590	10,273,634	13,807,758	18,306,348	21,676,089	24,292,558
(ii) Lignite (Tonnes)	..	..	..	218,106	2,730,000	2,875,000	2,446,000	2,388,000
(iii) Wood (Tonnes)	..	..	..	14,196	22,106	11,707	15,105	16,228
(iv) Furnace Oil (K. Litres)	..	..	..	422,848	1,125,303	1,762,164	1,919,160	1,846,273*
(b) Diesel Power Stations								
(v) Diesel Oil (K. Litres)	85,181	83,124	122,052	185,878	68,677	47,058@	46,669@	23,976@

*Includes 41742 K. L. Diesel oil & 527813 M.T.L.S.H.S. & H.H.S.

@ This includes Diesel oil used by Gas Turbines also.

TABLE No. 1.1.4
 Authorised Public Electricity Supply Undertakings*

Year Ending	12/50	12/55	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
(a) Public Sector :								
(i) Generating & Distributing	..	..	..	..	17	15	15	14
(ii) Generating, Purchasing & Distributing	269	69	74	80	32	29	29	28
(iii) Purchasing & Distributing	..	..	..	..	32	33	33	26
SUB-TOTAL (a)	269	69	74	80	81	77	77	68
(b) Private Sector :								
(i) Generating & Distributing	..	..	..	..	9	3	2	..
(ii) Generating, Purchasing and Distributing	316	301	263	180	35	21	17	11
(iii) Purchasing and Distributing	..	..	..	..	109	71	61	45
SUB-TOTAL (b)	316	301	263	180	153	95	80	56
GRAND TOTAL	585	370	337	260	234	172	157	124

*— The figures have been changed from 1965-66 and onwards by treating the State Electricity Board and Government Electricity Departments in the same State as two separate Undertakings.

TABLE No. 1.1.5
 Transmission & Distribution Lines & Transformers

Year Ending	12/50	12/55	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
(i) Transmission & Distribution Lines (Circuit Kilometers)								
(a) 220 kV/230 kV	..	..	1,099	3,772	10,225	13,932	18,054	20,651
(b) 132/110 kV	2,708	7,376	12,802	24,718	34,056	45,041	46,755	48,136
(c) 78/66 kV	5,562	7,798	12,805	17,544	21,239	24,252	24,731	24,976
(d) 44/33/22 kV	6,891	12,047	29,154	59,043	82,449	115,890	1,27,069	1,30,369
(e) 15/11/6·6/3·3/2·2 kV	14,110	39,200	1,02,027	1,85,969	2,68,951	4,91,462	5,12,521	5,39,012
(f) Less than 500 V.	N.A.	N.A.	N.A.	2,50,658	4,19,387	8,55,520	9,92,718	9,55,798
(ii) Transformers								
(a) Step up								
Numbers of Transformers	332	621	824	952	1155	1,548	1,114	1,180
Aggregate Capacity MVA	972·81	1,681·92	4,644·33	9,514·00	14,749·44	20,792·40	23,164·31	26,031·15
(b) Step down (Secondary above 500 V.)								
No. of Transformers	669	1,107	2,106	3,530	4,871	7,310	7,900	8,282
Aggregate Capacity MVA	1,366·76	2,729·03	7,400·38	16,269·15	27,999·00	45,491·21	52,570·28	56,427·14
(c) Distribution (Secondary 500 V. & below)								
Numbers of Transformers	10,767	19,740	57,314	92,728	173,910	3,04,428	3,43,413	3,67,547
Aggregate Capacity MVA	834·37	1,654·15	3,726·93	7,010·42	12,021·62	22,734·61	25,883·68	27,724·29
GRAND TOTAL								
Numbers of Transformers	11,768	21,468	60,244	97,210	1,79,936	3,13,286	3,52,427	3,77,009
Aggregate Capacity MVA	3,173·94	6,065·10	15,771·64	32,793·57	54,770·06	89,018·22	1,01,618·27	1,10,182·58

TABLE NO. 1.1.6

Consumers (in thousands) and Connected Load (in M.W)

Year ending	12/50**	12/56**	12/61	3/66	3/69	3/74	3/75	3/76
I	2	3	4	5	6	7	8	9
(i) Domestic								
(a) Consumers	1,157	1,930	3,667	6,379	8,388	13,238	14,191	14,883
(b) Connected Load	733.86	1,225.68	2,234.79	3,689.45	4,803.08	7,927.03	8,447.90	8,931.83
(ii) Commercial								
(a) Consumers	259	430	672	1,409	1,931	2,871	3,019	3,234
(b) Connected Load	401.30	365.68	526.07	1,022.75	1,975.16	2,565.76	2,741.65	3,397.91
(iii) 1. Industrial Power upto 650 Volts. including W.W & S.P.								
(a) Consumers	..	..	..	..	461	733	750	807
(b) Connected Load	..	..	..	..	3,944.99	5,968.32	6,937.62	7,545.72
2. Industrial Power above 650 Volts. including Railway								
(a) Consumers	63£	99£	179£	330£	10	12	12	15
(b) Connected Load	1,561.68@	2,455.39@	4,561.92@	6,749.09@	6,421.64	9,107.58	9,681.43	10,773.43
(iv) Public Lighting								
(a) Consumers	2	3	15	51	52	162	140	118
(b) Connected Load	20.67	33.26	76.16	104.52	146.26	237.60	246.87	271.66
(v) Agriculture (Pumping)								
(a) Consumers	20	47	196	509	1,078	2,391	2,622	2,742
(b) Connected Load	117.56	242.60	826.53	2,037.35	4,219.56	9,494.21	10,422.81	11,153.54
(vi) Miscellaneous								
(a) Consumers	*	*	*	*	16	21	52	13
(b) Connected Load	*	*	*	*	549.46	308.42	806.81	498.33
(vii) Total								
(a) Consumers	1,501	2,509	4,729	8,678	11,936	19,428	20,786	21,812
(b) Connected Load	2835.07	4,322.61	8,225.47	13,603.16	22,060.15	35,608.92	39,285.09	42,572.42

NOTE: :- £—Includes figures for item No. (iii) (1) (a), @—Includes figures for item No. (iii)(1)(b).

*—Included in Commercial, **—Nearest available data for beginning of first & second Plan.

W.W. & S.P.—Water Works and Sewage Pumping.

TABLE No. 1.1.7
Consumption Auxiliaries, Transmission, Distribution
and other Losses & Per capita

During the Year	1951	1956	1960-61	1965-66	1968-69	1973-74	1974-75	1975-76
1	2	3	4	5	6	7	8	9
(i) Gross Generation (Utilities) M. kWh	5,858.40	9,662.14	16,937.00	32,990.13	47,433.30	66,689.03	70,190.53	79,230.92
(ii) Energy used by power station auxiliaries (M. kWh)	218.32	386.45	721.86	1,647.46	2,532.14	3,615.43	4,130.28	4,555.81
(iii) Generation (Utilities) (Net) (M. kWh)	5,640.08	9,275.69	16,215.14	31,342.67	44,901.16	63,073.60	66,060.25	74,675.11
(iv) Energy purchased from non-utilities (M. kWh)	17.74	18.64	223.04	12.92	96.29	114.86	138.93	115.77
(v) Sales (M. kWh)								
(a) Domestic light & small power	594.08	934.12	1,492.29	2,355.14	3,184.19	4,644.55	5,172.79	5,821.35
(b) Commercial light & small power	330.02	545.85	847.74	1,650.07	2,125.74	2,987.52	3,081.57	3,506.76
(c) Industrial :—								
(i) Up to 650 volts	575.26	931.84	1,641.12	2,709.81	3,452.50	4,640.77	4,869.54	5,233.86
(ii) Above 650 volts	2,483.63	4,391.59	8,055.28	16,166.08	22,438.77	27,840.63	27,820.74	32,337.426
(d) Public Lighting	67.60	117.77	193.24	279.57	372.09	552.83	579.71	577.64
(e) Railways/Tramways	329.59	404.93	453.92	1,057.28	1,246.58	1,530.76	1,531.17	1,855.32
(f) Agricultural	203.05	316.18	832.92	1,891.84	3,465.54	6,310.21	7,762.73	8,721.06
(g) Public Water Works and sewage pumping	210.12	317.08	436.19	625.16	837.17	1,116.96	1,227.04	1,327.45
(h) Miscellaneous	*	*	*	*	229.81	622.15	586.35	868.11
TOTAL	4,793.35	7,959.36	13,952.70	26,734.95	37,352.39	50,246.38	52,631.64	60,245.81
Per capita consumption (kWh) Utilities & non-utilities	17.8	26.4	38.2	61.3	77.88	97.48	98.99	109.95
(vi) Energy lost in transformation, transmission, distribution and unaccounted for								
(i) M. kWh	864.48	1,334.98	2,485.47	4,585.18	7,214.51	12,931.12	13,556.00	14,526.52
(ii) %	N.A.	N.A.	N.A.	14.31	17.00	20.46	20.48	19.42
Towns and Villages Electrified								
(i) Villages	3,061	7,294	21,750	45,144	73,722	1,56,270	172,169@@	185,806@@
(ii) Towns	1,014	1,534	2,230	2,642	2,677	2,695	3,120@@	3,122@@

*Included in commercial.
@@As per 1971 census.

TECHNICAL STATISTICS
SECTION--2
INSTALLED PLANT CAPACITY AND GENERATION AS ON 31-3-1976
SUB-SECTION 2.1--UTILITIES
SUB-SECTION 2.2--SELECTED INDUSTRIES (INCLUDING RAILWAYS)

INSTALLED PLANT CAPACITY AND GENERATION

With an addition of 1800.4 MW, the installed capacity in the utility sector at the end of the year rose to 20117 MW corresponding to an increase of 9.83% over the previous year. The energy generated during the year was 79231 million kWh recording an increase of 12.88% over the previous year. The relatively higher percentage increase in generation can be attributed mainly to two factors viz. better availability from hydel power station due to good rains in many parts of the country and improvement in the capacity utilisation in steam power stations. The increase over the previous year in hydro generation was 19.47% as compared to 8.15% in generation by steam plants. New capacities added during the year in the hydro, steam and gas were 910.10, 860.55 and 42.50 MW respectively totalling to 1813.15 MW. Besides this four sets of capacity 60 MW each were upgraded to 65 MW in Koyna Power House and one 12 MW set in Shanan Hydro Power Station was upgraded to 15 MW by carrying out changes in the sets. Arunachal Pradesh has reported an increase of 1.26 MW in hydro though details are not furnished. During the year 3 sets of 10 MW each at Khaperkheda Steam Power House, one set of 4 MW at Sikka Steam Power House were retired and there was a decrease of 3.0 MW in diesel capacity due to wrong reporting thus bringing the net addition to 1800.4 MW. The details of the plants commissioned during the year are given in table 2.1.3.

The largest hydro unit in operation is rated at 130 MW and was commissioned in Iddukki Power House during the year. The largest units in thermal, nuclear and gas are the 150 MW set at Trombay, 220 MW unit Rajasthan Atomic Power Station and 30 MW at Namrup in Assam respectively.

Bulk of the electricity produced (91.6%) was in the public sector which includes State Electricity Boards, Government departments, D.V.C., Central and State Government undertakings and municipalities. The balance 8.4% was produced by private licensees.

The proportion of steam generation showed a small decline probably because of better water availability and also due to a small increase in the proportion of installed capacity on the hydro side. The break-up of prime-moverwise installed capacity, energy generation & proportionate %age are given in the table 2.1.1.

The entire country is divided into five regions for the purpose of co-ordinated operation of power systems and inter-system links have been established within the region to permit exchange of power among the constituent systems so as to improve operating efficiency and reliability. Inter-regional links are also in existence for the same purpose. The regionwise installed capacity and generation are given in table 2.1.5. The Western region has continued to be largest of the five regions from the point of view of generation, producing 22827 m.kWh or 28.81% of the total energy generated in the utility sector in the country.

Though most of the power houses are owned by one agency, there are a few stations which are jointly owned and the power from these stations are shared by mutual agreement. The Central Govt. is also engaged in power generation and the energy generated is sold to the State Electy. Boards and other utilities. Two nuclear power stations, operating in the country, are owned by the Deptt. of Atomic Energy. The Deptt. of Power at New Delhi operates the 300 MW thermal power station in Badarpur. The other power stations belonging to the Central Govt. are Chola (Steam) belonging to Central Railways, Pong Dam of Beas Const. Board and Neyveli Lignite Corpn. Total generation from all these Central Govt. power houses was 6465 m kWh corresponding to 8.16% of the total energy generated in the utility sector.

Hydro Stations

At the end of the year 121 hydro stations having 394 sets were in operation. 76 Stations with capacities of above 10 MW accounted for 98.95% of the total installed capacity and 99.03% of the total energy generated. Four power houses with an aggregate capacity of 356 MW were commissioned during the year and 11 units aggregating to 554.1 MW were added as extensions to the existing stations. The largest hydro station is Sharavathi Power House in Karnataka and has an installed capacity of 801.90 MW and the energy produced from this station during the year was 4484.14 m.kWh. The position regarding hydro stations is summarised below :-

	1974-75	1975-76	% increase over 1974-75
No. of hydro Stations	116	121	4.31
Aggregate plant capacity (MW)	7,529.24	8,463.60	12.41
Total energy generated (million kWh)	27,875.18	33,301.77	19.47
Aggregate plant factor (%)	42.26	44.92	—

The consumption by station auxiliaries in all the hydro power houses was 162.18 m.kWh representing 0.49% of the gross generation.

Steam Stations

The total number of steam power houses operating in the country was 95 with an installed capacity of 10579.09 MW. These stations had 319 sets and produced 42760.05 m.kWh. Out of these, 45 stations had capacities exceeding 50 MW and accounted for 93.69% of total capacity and 95.17% of total energy produced. One new power house with a capacity of 120 MW was commissioned at Ukai in Gujarat and 7 units with a total capacity of 740 MW were added to the existing power houses. Chandrapura station of DVC with 660 MW capacity was the largest in the country. However, Dhuvran Steam Station (534 MW) recorded a maximum generation of 2773.73 m.kWh. The position of the steam power houses is summarised below :

	1974-75	1975-76	%age increase over 1974-75
(i) No. of Stations	94	95	1.06
(ii) Aggregate installed capacity(MW)	9752.54	10579.09	8.48
(iii) Total energy generated (Gross)	39,538.72	42,760.05	8.15
(iv) Installed capacity of plant (above 50 MW)	9,031.50	9,911.50	9.14
(v) Energy generated from plants (above 50 MW)	37,397.30	40,695.97	8.82
(vi) kWh/kW installed from plants above 50 MW	4.118	4.105	(-)-0.29
(vii) Fuel used			
(a) (i) Coal (tonnes)	2,16,76,039	2,42,92,558	11.20
(ii) Average calorific value kilocal./kg	4,973	4,871	
(b) (i) Lignite (tonnes)	24,46,000	23,88,000	(-)-2.37
(ii) Average calorific value k. cal. / kg.	2,440	2,499	
(c) (i) Wood (tonnes)	15,105	16,228	7.43
(ii) Average calorific value k. cal./kg.		3,000	
(d) (i) Furnace oil (kilo-litres)	13,28,192	12,76,718	(-)-3.88
(ii) Average calorific value (kilo. cal./litres)	9,461	10,401	
(e) (i) LSHS & H.H.S. (KL)	4,87,763	5,27,813	8.21
(ii) Average calorific value (kilo. cal./litres)	10,237	10,413	
(f) (i) Diesel oil (KL)	1,03,105	41,742	(-)-59.52
(ii) Average calorific value (kilo calories/litres)		8,900	
(g) (i) Overall thermal efficiency for plants above 50 MW	20.16	26.23	
(h) Total fuel consumption (coal equivalent) at 5000 K. cal./kg. (tonnes)	2,70,20,138	3,03,52,460	11.23

Though the aggregate capacity increased by 8.48% the energy generated recorded a slightly lower increase i.e., 8.15%. This is probably attributed to teething troubles of the newly commissioned plants and better hydro availability. The consumption of coal equivalent increased by 11.23% and this is mainly because of lower average calorific value of the coal used.

Eight power stations reported overall thermal efficiencies ranging between 20 to 25% and generated 4290.06 m.kWh. Twenty-four stations had thermal efficiencies between 25 to 30% and generated 21677.21677.13 m.kWh. Ten stations operated at thermal efficiencies ranging from 30 to 35% and generated 11636.8 m.kWh. A maximum output of 7929 kWh/kW was achieved by the 60 MW Amarkantak power house in Madhya Pradesh.

The consumption by station auxiliaries for all the steam power stations was 4165.30 m.kWh representing 9.74% of gross generation.

Nuclear Power Stations

There are presently two nuclear power stations in the country—Rajasthan Atomic Power Station in Rajasthan with an installed capacity of 220 MW and Tarapore Atomic Power Station in Maharashtra with an installed capacity of 420 MW. Total energy generated by these two power stations was 2626.51 m.kWh which was 420.42 m.kWh (19.06%) more than that in the previous year. The energy consumed by station auxiliaries was 215.63 m.kWh or 8.21% of gross generation. Performance of these two nuclear stations as compared to previous year is indicated below :—

Name of the Power station	Generation (m. kWh)		% increase/decrease over the year 1974-75
	1974-75	1975-76	
1. Tarapore Atomic Power Station	1,457.83	2,093.51	43.60
2. Rajasthan Atomic Power Station	748.26	533.00	(-)-28.77
TOTAL	2,206.09	2,626.51	19.06

Gas Turbine and Diesel Power Stations

There were five gas turbine stations with an aggregate capacity of 208.0 MW in the country and these stations produced 482.76 million kWh, which was 7.45% more than that of the previous year. The auxiliaries consumption was 10.65 million kWh i.e. 2.21% of gross generation. These stations are located in Andhra Pradesh (20 MW), Assam (111.50 MW), Gujarat (54 MW), Rajasthan (10 MW) and Uttar Pradesh (12.5 MW).

Diesel plants are mostly concentrated in the States of Assam, Bihar, Gujarat, Manipur, Punjab, Rajasthan, West Bengal and Union Territory of Delhi. The total capacity of the Diesel stations was 226.37 MW and the generation was 59.83 million kWh which is 50.7% less than that of previous year. The consumption in station auxiliaries was 2.05 million kWh corresponding to 3.4% of the gross generation. There were still five stations with an installed capacity of 3.42 MW producing D.C. Power.

Generation Voltage and Frequency :

The generation voltage of A.C. generating sets varied from 230 volts to a maximum of 33 kV. The most common voltage was however 11 kV. The standard frequency through out the country was 50 Hz except for Sivasamudram Power House (42 MW) in Karnataka which is generating electricity at 25 Hz. The generation voltage of D.C. sets varied from 110 to 500 volts.

Non-Utilities

Besides generation by utilities, number of industries such as Steel, Aluminium, Fertilisers, Cement, Sugar etc. have their own captive plants where electricity is generally produced as a by-product by utilising the process steam required for the manufacturing process. Renuagar Power House in U.P. (125 MW) is established mainly to supply power to the Aluminium Plant belonging to Hindustan Aluminium Co. Based on the data received from 1264 industrial establishments (out of which 740 had captive generating units), the total installed capacity in the non-utility sector was 2070.89 MW and the gross generation was 6657.12 million kWh as compared to an installed capacity of 1964.30 MW and a generation of 6451.60 million kWh reported during the previous year. The prime-moverwise breakup in capacities was 1716.30 MW of steam, 2.6 MW of Hydro and 351.99 MW of gas and diesel.

TABLE NO. 2.1.1

Installed capacity & generation ownershipwise and prime-moverwise (Utilities)

	Type of plant & ownership	Installed Plant Capacity (MW)	Percentage of total	Generation (m kWh) (Gross)	Percentage of gross generation
I.	HYDRO				
	<i>Public Sector :</i>				
	(a) State Elec. Boards	6,738.22	33.50	24,596.06	31.04
	(b) Elec. Deptts./Govt. Undertakings/ DVC	1,442.91	7.17	7,327.89	9.25
	(c) Municipalities	1.96	0.01	11.15	0.02
	SUB TOTAL	8,183.09	40.68	31,935.10	40.31
	<i>Private Sector :</i>				
	Companies	280.51	1.39	1,366.67	1.72
	TOTAL (I)	8,463.60	42.07	33,301.77	42.03
	% increase over previous year	(12.41)		(19.47)	
II.	STEAM				
	<i>Public Sector :</i>				
	(a) State Elec. Boards	6,796.36	33.79	26,474.38	33.41
	(b) Electricity Deptts./Govt. Under- takings/DVC	2,490.15	12.38	9,500.65	11.99
	(c) Municipalities	276.20	1.37	1,492.82	1.89
	SUB-TOTAL	9,562.71	47.54	37,467.85	47.29
	<i>Private Sector :</i>				
	Companies	1,016.38	5.05	5,292.20	6.68
	TOTAL (II)	10,579.09	52.59	42,760.05	53.97
	% increase over previous year	(8.48)		(8.15)	
III.	DIESEL				
	<i>Public Sector :</i>				
	(a) State Elec. Boards	170.00	0.85	28.67	0.04
	(b) Elec. Deptts./Govt. Undertakings/ D.V.C.	27.31	0.14	30.02	0.04
	(c) Municipalities	23.03	0.11	0.65	Neg.
	SUB-TOTAL	220.94	1.10	59.34	0.08
	<i>Private Sector :</i>				
	Companies	5.43	0.03	0.49	Neg.
	TOTAL (III)	226.37	1.13	59.83	0.08
	% increase over previous year	(-1.32)		(-50.66)	
IV.	GAS TURBINE				
	<i>Public Sector :</i>				
	(a) State Elec. Boards	203.00	1.01	482.76	0.61
	(b) Elec. Deptts./Govt. Undertakings/ D.V.C.	..	..	..	..
	(c) Municipalities	..	..	..	..
	SUB-TOTAL :	203.00	1.03	482.76	0.61
	<i>Private Sector :</i>				
	Companies	..	..	..	..
	TOTAL (IV)	203.00	1.03	482.76	0.61
	% increase over previous year	25.68		7.45	
V.	NUCLEAR				
	<i>Public Sector :</i>				
	(a) State Elec. Boards	..	..	..	..
	(b) Elec. Deptts./Govt. Undertakings/ D.V.C.	640.00	3.18	2,626.51	3.31
	(c) Municipalities	..	..	..	..
	SUB-TOTAL :	640.00	3.18	2,626.51	3.31
	<i>Private Sector :</i>				
	Companies	..	..	..	..
	TOTAL (V)	640.00	3.18	2,626.51	3.31
	% increase over previous year	Nil		19.05	
	GRAND TOTAL (I+II+III+IV+V)	20,117.05	100.00	79,230.92	100.00
	% increase over previous year	(9.83)		(12.88)	

TABLE NO. 2.1.2
Installed Capacity and Generation Ownership-wise with % increase over the Previous year

Sl. No.	Ownership	No. of Undertakings	Installed Plant Capacity			Gross Generation		
			As on 31-3-1976	% of total	Increase in installed capacity over 31-3-1975 %	Energy generated during 1975-76 (M.kWh)	% of generation Gross	Increase generation (Gross) in 1975-76 over 1974-75
1	2	3	4	5	6	7	8	9
1.	<i>Public Sector</i>							
	(a) State Electy. Boards	18	13,913.18	69.16	13.69	51,581.87	65.10	11.89
	(b) Govt. Deptt.	16	1,367.87	6.80	13.06	7,040.60	8.89	27.73
	(c) Govt. Undertakings@	8	3,232.50	16.07	Nil	12,444.47	15.71	28.38
	(d) Municipalities	26	301.19	1.50	(-)-2.39	1,504.62	1.90	4.85
	SUB-TOTAL	68	18,814.74	93.53	10.75	72,571.56	91.60	13.55
2.	<i>Private Sector</i>							
	(a) Companies	56	1,302.32	6.47	(-)-1.90	6,659.36	8.40	6.03
	TOTAL	124	20,117.06	100.00	9.83	79,230.92	100.00	12.88

@Including D.V.C.

TABLE No. 2.1.3

Plant Commissioned during the Year 1975-76

(a) Hydro Generating Units Commissioned :

Sl. No.	Installed at (Ownership)	State/Union Territory	Date of Commissioning	No. of Sets	Capacity of each set (MW)	Total capacity (MW)
1	2	3	4	5	6	7
1.	Lower Sileru (S.E.B.)	A.P.	March 1976	1	100.00	100.00
2.	Ukai (S.E.B.)	Gujarat	March 1976	1	75.00	75.00
3.	Chenani (S.E.B.)	J & K	April 1975 & June 1975	2	5.00	10.00
4.	Sharavati (Govt. Deptt.)	Karnataka	March 1976	1	89.10	89.10
5.	Idukki (S.E.B.)	Kerala	12-2-1976	1	130.00	130.00
6.	Koyna St. III (S.E.B.)	Maharashtra	July 1975			
			January & March 1976	3	80.00	240.00
7.	Vaiterena (S.E.B.)	Maharashtra	March 1976	1	60.00	60.00
8.	Balimela (State Govt.)	Orissa	March 1976	1	60.00	60.00
9.	Kulhal (S.E.B.) (Jamuna St. IV)	U.P.	Sept. 1975 & December '75	2	10.00	20.00
10.	Ramganga (S.E.B.)	U.P.	April 1975	1	66.00	66.00
11.	Chibro (S.E.B.)	U.P.	February '76	1	60.00	60.00
	TOTAL			15		910.10

(b) Steam, Gas and Nuclear Units Commissioned :

1.	Namrup@ (S.E.B.) (Gas)	Assam	1975-76	1	12.50	12.5
2.	Namrup Extn. (S.E.B.) (Steam)	Assam	March 1976	1	30.00	30.00
3.	Faridabad Extn. (S.E.B.)	Haryana	March 1976	1	60.00	60.00
4.	Ukai (S.E.B.)	Gujarat	March 1976	1	120.00	120.00
5.	Korba Extn. (S.E.B.)	M.P.	March 1976	1	120.00	120.00
6.	Koradi (S.E.B.)	Maharashtra	March 1976	1	120.00	120.00
7.	Bhatinda (S.E.B.)	Punjab	Sept. 1975	1	110.00	110.00
8.	Ennore (S.E.B.)	Tamil Nadu	Dec. 1975	1	110.00	110.00
9.	Obra Extn. (S.E.B.)	U.P.	Sept. 1975	1	100.00	100.00
10.	Santalidih (S.E.B.)	West Bengal	July 1975	1	120.00	120.00
	TOTAL			10		(*)903.05

LEGEND : S.E.B. State Electricity Board

@The 12.50 MW gas unit which was dismantled during 1972-73 at Gauhati has been reinstalled at Namrup.

*Includes 0.55 MW set commissioned at Chetham Steam p.h. in A & N Islands.

TABLE No. 2.1.4

Addition/Deletion of Plants Statewise, Prime-moverwise During the Year 1975-76

Sl. No.	State/U.T.'s	Hydro	Steam	Gas	Total
1.	Andhra Pradesh	100.00	..	..	100.00
2.	Assam	..	..	42.50	42.50
3.	Bihar	..	..	..	..
4.	Gujarat	75.00	120.00 (-)4.00	..	191.00
5.	Haryana	..	60.00	..	60.00
6.	Himachal Pradesh	..	..	..	..
7.	Jammu & Kashmir	10.00	..	..	10.00
8.	Karnataka	89.10	..	..	89.10
9.	Kerala	130.00	..	..	130.00
10.	Madhya Pradesh	..	120.00	..	120.00
11.	Maharashtra	300.00	120.00 (-)30.00	..	390.00
12.	Manipur	..	..	..	..
13.	Meghalaya	..	..	..	..
14.	Nagaland	..	..	..	..
15.	Orissa	60.00	..	..	60.00
16.	Punjab	..	110.00	..	110.00
17.	Rajasthan	..	..	..	..
18.	Tamil Nadu	..	110.00	..	110.00
19.	Tripura	..	..	..	..
20.	Uttar Pradesh	146.00	100.00	..	246.00
21.	West Bengal	..	120.00	..	120.00
22.	D.V.C.	..	..	..	..
UNION TERRITORIES					
	(a) A. & N. Islands	..	0.55	..	0.55
	(d) Arunachal Pradesh	..	..	..	..
	(e) Chandigarh	..	..	..	..
	(d) D. & N. Haveli	..	..	..	..
	(e) Delhi	..	..	..	..
	(f) Goa, Daman Diu	..	..	..	..
	(g) Lakshadweep	..	..	..	..
	(h) Pondicherry	..	..	..	..
	(i) Mizoram	..	..	..	..
	TOTAL	910.10	860.55	42.50	1,779.15
	Rerating	23.00@	(-)34.00	..	23.00
	Wrong reporting	1.26	..	..	(*)1.26
	In diesel net retirement				(-)3.03
	NET ADDITIONS	934.36	826.55	42.50	1,803.38

NOTE : @ This include 20 MW and 3 MW due to upgradation of 4 sets of 60 MW each to 65 MW at koyna Power House and one set of 12 MW to 15 MW at Shanan Power House resp.

TABLE No. 2.1.5

Installed capacity & generation Regionwise and Prime-moverwise
Installed Capacity (MW)

Sl. No.	Year	Hydro	Steam	Diesel	Gas	Nuclear	Total
1	2	3	4	5	6	7	8
			ALL	INDIA			
1.	1971-72	6,611.61	7,818.38	226.38	178.00	420.00	15,254.37
2.	1972-73	6,785.41	8,467.98	230.32	178.00	620.00	16,281.71
3.	1973-74	6,965.30	8,651.76	241.00	165.50	640.00	16,663.56
4.	1974-75	7,529.24	9,752.54	229.40	165.50	640.00	18,316.68
5.	1975-76	8,463.60	10,579.09	226.37	208.00	640.00	20,117.06
			NORTHERN	REGION			
1.	1971-72	2,106.92	1,333.23	110.12	22.50	..	3,572.77
2.	1972-73	2,157.92	1,506.83	127.06	22.50	200.00	4,014.31
3.	1973-74	2,200.47	1,599.70	136.37	22.50	220.00	4,179.04
4.	1974-75	2,408.47	2,057.00	133.54	22.50	220.00	4,841.51
5.	1975-76	2,567.47	2,327.00	130.90	22.50	220.00	5,267.87
			WESTERN	REGION			
1.	1971-72	987.82	2,242.60	38.00	54.00	420.00	3,742.42
2.	1972-73	1,020.82	2,552.60	25.44	54.00	420.00	4,072.86
3.	1973-74	1,037.32	2,536.00	22.79	54.00	420.00	4,070.11
4.	1974-75	1,273.30	2,775.00	12.98	54.00	420.00	4,535.28
5.	1975-76	1,668.30	3,101.00	9.93	54.00	420.00	5,253.23
			SOUTHERN	REGION			
1.	1971-72	3,005.03	1,282.50	2.92	20.00	..	4,309.45
2.	1972-73	3,080.03	1,412.50	2.34	20.00	..	4,514.87
3.	1973-74	3,080.03	1,412.50	3.81	20.00	..	4,516.34
4.	1974-75	3,080.03	1,632.50	4.00	20.00	..	4,736.53
5.	1975-76	3,399.13	1,742.50	4.00	20.00	..	5,165.63
			EASTERN	REGION			
1.	1971-72	444.53	2,961.05	36.90	..	..	3,442.48
2.	1972-73	459.33	2,961.05	36.82	..	..	3,457.20
3.	1973-74	579.93	3,068.56	37.59	..	..	3,686.08
4.	1974-75	699.93	3,253.04	38.61	..	..	3,991.58
5.	1975-76	759.93	3,373.59	39.10	..	..	4,172.62
			NORTH	EASTERN	REGION		
1.	1971-72	67.31	..	38.44	81.50	..	187.25
2.	1972-73	67.31	35.00	38.66	81.50	..	222.47
3.	1973-74	67.55	35.00	40.44	69.00	..	211.99
4.	1974-75	67.51	35.00	40.27	69.00	..	211.78
5.	1975-76	68.77	35.00	42.44	111.50	..	257.71

NOTE :— (1) The installed capacity and generation of jointly owned projects have been distributed amongst the regions as per the theoretical shares of the states falling in the respective region.

TABLE No. 2.1.5 (Contd.)

Gross Generation (Million kWh)

Hydro	Steam	Diesel	Gas	Nuclear	Total	Year
9	10	11	12	13	14	15
			ALL INDIA			
28,024.22	31,237.28	111.05	363.76	1,189.32	60,925.63	1971-72
27,195.95	35,614.12	144.65	458.54	1,132.74	64,546.00	1972-73
28,971.84	34,853.08	124.61	343.14	2,396.36	66,689.03	1973-74
27,875.18	39,538.72	121.27	449.27	2,206.09	70,190.53	1974-75
33,301.77	42,760.05	59.83	482.76	2,626.51	79,230.92	1975-76
		NORTHERN	REGION			
8,242.82	5,876.89	36.98	1.06	..	14,157.75	1971-72
8,764.63	6,544.83	84.86	4.24	..	15,398.56	1972-73
9,419.93	6,332.98	68.98	7.98	487.53	16,317.40	1973-74
7,313.96	8,231.30	76.85	14.17	748.26	16,384.54	1974-75
10,109.96	9,822.24	14.61	1.35	533.00	20,481.16	1975-76
		WESTERN	REGION			
5,518.29	10,404.83	13.07	139.00	1,189.32	17,264.51	1971-72
4,660.44	13,176.48	11.58	182.00	1,132.74	19,163.24	1972-73
5,385.64	12,462.77	3.73	63.83	1,908.83	19,824.80	1973-74
6,494.45	13,464.13	1.11	134.83	1,457.83	21,552.35	1974-75
6,438.62	14,148.47	1.02	145.41	2,093.51	22,827.03	1975-76
		SOUTHERN	REGION			
12,286.03	4,875.72	0.35	3.86	..	17,165.96	1971-72
12,029.48	4,900.10	0.37	23.28	..	16,953.23	1972-73
11,930.18	5,639.82	0.48	4.04	..	17,574.49	1973-74
11,968.87	6,246.29	0.45	1.12	..	18,216.73	1974-75
13,638.93	6,554.97	0.50	1.57	..	20,195.97	1975-76
		EASTERN	REGION			
1,783.72	10,079.84	32.65	..	..	11,896.21	1971-72
1,520.64	10,990.31	18.97	..	..	12,529.92	1972-73
2,035.60	10,372.43	19.50	..	..	12,427.53	1973-74
1,873.59	11,561.44	12.02	..	..	13,447.05	1974-75
2,932.31	12,124.44	11.67	..	..	15,068.42	1975-76
		NORTH	EASTERN	REGION		
193.36	..	28.00	219.84	..	441.20	1971-72
220.76	2.40	28.87	249.02	..	501.05	1972-73
200.49	45.08	31.95	267.29	..	544.81	1973-74
224.31	35.56	30.84	299.15	..	589.86	1974-75
181.95	109.93	32.03	334.43	..	658.34	1975-76

The details of States/U. Ts. covered in particular region are indicated as below :-

Northern Region	Western Region	Southern Region	Eastern Region	North Eastern Region
Haryana Himachal Pradesh Jammu & Kashmir Punjab Rajasthan U.P. Chandigarh & Delhi	Gujarat Madhya Pradesh Maharashtra Goa, Daman & Diu Dadra & Nagar Haveli	Andhra Pradesh Karnataka Kerala Tamil Nadu Pondicherry Lakshadweep	Bihar Orissa West Bengal D.V.C. Andaman & Nicobar	Assam Manipur Meghalaya Nagaland Tripura Arunachal Pradesh Mizoram

TABLE NO. 2.1.6

Installed Capacity & Generation Statewise and Prime-Moverwise with % Increase over Previous Year

Sl. No.	State/U.Ts.	Hydro			
		Installed capacity MW	% increase over previous year	Gross generation M. kWh	% increase over previous year
1	2	3	4	5	6
1.	Andhra Pradesh	367.93	37.32	1,061.78	36.13
2.	Assam	..	..	..	..
3.	Bihar	15.00	..	8.08	28.05
4.	Gujarat	300.00	33.33	829.96	84.44
5.	Haryana	408.47	..	1,889.23	41.99
6.	Himachal Pradesh	49.97	..	182.16	7.67
7.	Jammu & Kashmir	72.72	15.94	270.18	(-)-3.31
8.	Karnataka	1,055.70	9.22	5,388.64	14.58
9.	Kerala	751.50	20.92	2,783.28	4.67
10.	Madhya Pradesh	193.00	..	855.55	(-)-1.67
11.	Maharashtra	1,175.30	37.41	4,753.11	(-)-8.16
12.	Manipur	0.60	..	1.28	(-)-21.95
13.	Meghalaya	66.71	..	179.99	(-)-19.07
14.	Nagaland	..	..	..	..
15.	Orissa	604.42	11.02	2,518.57	71.33
16.	Punjab	717.70	0.42	3,402.51	37.28
17.	Rajasthan	376.33	..	1,703.45	16.17
18.	Tamil Nadu	1,224.00	..	4,405.23	15.12
19.	Tripura	..	..	..	..
20.	Uttar Pradesh	942.28	18.34	2,662.43	67.46
21.	West Bengal	36.51	..	85.03	(-)-15.62
22.	D.V.C.	104.00	..	320.63	8.13
23.	Central Govt. Projects	..	..	..	..
	UNION TERRITORIES	..	..	..	..
(a)	Andaman & Nicobar Islands	..	..	..	..
(b)	Arunachal Pradesh	1.46	730.00	0.68	142.86
(c)	Chandigarh	..	..	..	..
(d)	Dadra & Nagar Haveli	..	..	..	..
(e)	Delhi	..	..	..	..
(f)	Goa, Daman & Diu	..	..	..	..
(g)	Lakshadweep	..	..	..	..
(h)	Mizoram	..	..	..	..
(i)	Pondicherry	..	..	..	..
	TOTAL (ALL INDIA)	8,463.60	12.41	33,301.77	19.47

TABLE No. 2.1.6 (Contd.)

Sl. No.	State/Union Territories	Installed capacity MW	Steam	Gross generation M. kWh	% increase over previous year
			% increase over previous year		
1	2	7	8	9	10
1.	Andhra Pradesh	602.50	..	2,727.34	0.71
2.	Assam	35.00	..	109.93	209.14
3.	Bihar	572.77	..	2,125.70	(-)-0.88
4.	Gujarat	998.00	13.15	4,611.48	(-)-6.75
5.	Haryana	204.30	41.58	675.56	32.99
6.	Himachal Pradesh	..	..	..	..
7.	Jammu & Kashmir	22.50	..	31.80	72.36
8.	Karnataka	..	..	..	..
9.	Kerala	..	..	..	..
10.	Madhya Pradesh	702.00	20.62	3,284.81	19.23
11.	Maharashtra	1,305.00	7.41	6,033.85	7.37
11.	Manipur	..	..	..	..
13.	Meghalaya	..	..	..	..
14.	Nagaland	..	..	..	..
15.	Orissa	258.25	..	716.30	(-)-16.83
16.	Punjab	225.00	95.65	432.83	183.82
17.	Rajasthan	163.00	..	724.06	9.95
18.	Tamil Nadu	540.00	25.58	1,316.89	5.38
19.	Tripura	..	..	..	..
20.	Uttar Pradesh	1,126.00	9.75	5,355.69	16.46
21.	West Bengal	1,343.42	9.81	4,592.98	4.74
22.	D.V.C.	1,197.50	..	4,686.14	12.41
23.	Central Govt. Projects	1,006.00	..	3,838.55	16.07
UNION TERRITORIES					
(a)	Andaman & Nicobar Islands	1.65	50.00	3.32	138.85
(d)	Arunachal Pradesh	..	..	..	..
(c)	Chandigarh	..	..	..	..
(d)	Dadar & Nagar Haveli	..	..	..	..
(e)	Delhi	276.20	..	1,492.82	5.08
(f)	Goa, Daman & Diu	..	..	..	..
(g)	Lakshadweep	..	..	..	..
(h)	Mizoram	..	..	..	..
(i)	Pondicherry	..	..	..	..
TOTAL (ALL INDIA)		10,579.09	8.48	42,760.05	8.15

TABLE No. 2.1.6 (Contd.)

Sl. No.	State/Union Territories	Diesel			
		Installed Capacity MW	% increase over previous year	Gross generation m. kWh	% increase the over previous year
1	2	11	12	13	14
1.	Andhra Pradesh	..	..	..	..
2.	Assam	20.00	(A)	5.00	(A)
3.	Bihar	16.62	1.59	1.20	(-)51.02
4.	Gujarat	9.44	(-)20.20	0.76	22.58
5.	Haryana	4.19	..	0.08	(-)88.06
6.	Himachal Pradesh	2.51	(-) 5.64	0.08	(-)55.56
7.	Jammu & Kashmir	6.76	(-)22.57	2.52	(-)52.27
8.	Karnataka	..	..	..	..
9.	Kerala	3.10	..	..	..
10.	Madhya Pradesh	0.42	(-)61.11	0.12	(-) 7.69
11.	Maharashtra	0.07	..	0.14	(-)61.11
12.	Manipur	9.47	80.73	13.67	19.70
13.	Meghalaya	1.31	(A)	0.76	(A)
14.	Nagaland	2.02	..	0.28	(-) 6.67
15.	Orissa	0.45	(-)18.18	0.06	50.00
16.	Punjab	56.62	..	5.87	(-)90.05
17.	Rajasthan	31.33	(-) 0.22	5.37	(-)45.26
18.	Tamil Nadu	..	..	..	..
19.	Tripura	4.88	..	5.00	(-) 9.91
20.	Uttar Pradesh	6.21	(-) 6.76	0.32	(-)57.89
21.	West Bengal	19.23	1.75	7.22	23.00
22.	D.V.C.	..	..	..	..
23.	Central Govt. Projects	..	..	..	..
UNION TERRITORIES					
(a)	Andaman & Nicobar Islands	2.80	..	3.19	(-)12.84
(b)	Arunachal Pradesh	3.10	64.02	5.51	445.54
(c)	Chandigarh	2.48	..	0.06	(-)45.45
(d)	Dadra & Nagar Haveli	..	..	..	..
(e)	Delhi	20.80	..	0.31	(-)69.61
(f)	Goa, Daman & Diu	..	..	..	..
(g)	Lakshadweep	0.90	..	0.50	13.64
(h)	Mizoram	1.66	(A)	1.81	(A)
(i)	Pondicherry	..	..	..	..
TOTAL (ALL INDIA)		226.37	(-) 1.32	59.83	(-)50.66

TABLE NO. 2.1.6 (Contd.)

Sl. No.	State/Union Territories	Gas			
		Installed capacity MW	% increase over Previous Year	Gross generation m. kWh	% increase over Previous Year
1	2	15	16	17	18
1.	Andhra Pradesh	20.00	..	1.57	40.18
2.	Assam	111.50	61.59	334.43	11.79
3.	Bihar	..	..	..	..
4.	Gujarat	54.00	..	145.41	7.85
5.	Haryana	..	..	..	..
6.	Himachal Pradesh	..	..	..	..
7.	Jammu & Kashmir	..	..	..	..
8.	Karnataka	..	..	..	..
9.	Kerala	..	..	..	..
10.	Madhya Pradesh	..	..	..	..
11.	Maharashtra	..	..	..	..
12.	Manipur	..	..	..	..
13.	Meghalaya	..	..	..	..
14.	Nagaland	..	..	..	..
15.	Orissa	..	..	..	..
16.	Punjab	..	..	..	..
17.	Rajasthan	10.00	..	..	..
18.	Tamil Nadu	..	..	..	..
19.	Tripura	..	..	..	..
20.	Uttar Pradesh	12.50	..	1.35	(-)-90.47
21.	West Bengal	..	..	..	..
22.	D.V.C.	..	..	..	..
23.	Central Govt. Projects	..	..	..	..
	UNION TERRITORIES				
(a)	Andaman & Nicobar Islands	..	..	..	..
(b)	Arunachal Pradesh	..	..	..	..
(c)	Chandigarh	..	..	..	..
(d)	Dadra & Nagar Haveli	..	..	..	..
(e)	Delhi	..	..	..	..
(f)	Goa, Daman & Diu	..	..	..	..
(g)	Lakshadweep	..	..	..	..
(h)	Mizoram	..	..	..	..
(i)	Pondicherry	..	..	..	..
	TOTAL (ALL INDIA)	208.00	25.68	482.76	7.45

TABLE No. 2.1.6 (Contd.)

Sl. No.	State/Union Territories	Nuclear			
		Installed capacity MW	% increase over Previous Year	Gross generation m. kWh	% increase over Previous Year
1	2	19	20	21	22
1.	Andhra Pradesh	..	..	..	..
2.	Assam	..	..	..	..
3.	Bihar	..	..	..	..
4.	Gujarat	..	..	..	..
5.	Haryana	..	..	..	..
6.	Himachal Pradesh	..	..	..	..
7.	Jammu & Kashmir	..	..	..	..
8.	Karnataka	..	..	..	..
9.	Kerala	..	..	..	..
10.	Madhya Pradesh	..	..	..	..
11.	Maharashtra	..	..	..	..
12.	Manipur	..	..	..	..
13.	Meghalaya	..	..	..	..
14.	Nagaland	..	..	..	..
15.	Orissa	..	..	..	..
16.	Punjab	..	..	..	..
17.	Rajasthan	..	..	..	..
18.	Tamil Nadu	..	..	..	..
19.	Tripura	..	..	..	..
20.	Uttar Pradesh	..	..	..	..
21.	West Bengal	..	..	..	..
22.	D.V.C.	..	..	..	..
23.	Central Govt. Projects	640.00	..	2,626.51	19.06
	UNION TERRITORIES				
(a)	Andaman & Nicobar Islands	..	..	..	..
(b)	Arunachal Pradesh	..	..	..	..
(c)	Chandigarh	..	..	..	..
(d)	Dadra & Nagar Haveli	..	..	..	..
(e)	Delhi	..	..	..	..
(f)	Goa, Daman & Diu	..	..	..	..
(g)	Lakshadweep	..	..	..	..
(h)	Mizoram	..	..	..	..
(i)	Pondicherry	..	..	..	..
	TOTAL (ALL INDIA)	640.00	..	2,626.51	19.06

TABLE NO. 2.1.6 (Contd.)

Sl. No.	State/Union Territories	TOTAL			
		Installed Capacity MW	% increase over Previous Year	Gross generation m. kWh	% increase μ over Previous Year
1	2	23	24	25	26
1.	Andhra Pradesh	990.43	11.23	3,790.69	8.64
2.	Assam	166.50	(A)	449.36	(A)
3.	Bihar	604.39	0.04	2,134.98	(-) 0.86
4.	Gujarat	1,361.44	16.08	5,587.61	1.03
5.	Haryana	616.96	10.77	2,564.87	39.45
6.	Himachal Pradesh	52.48	(-) 0.29	182.24	7.60
7.	Jammu & Kashmir	101.98	8.55	304.50	0.45
8.	Karnataka	1,055.70	9.22	5,388.64	14.58
9.	Kerala	754.60	20.81	2,783.28	4.67
10.	Madhya Pradesh	895.42	15.38	4,140.48	14.24
11.	Maharashtra	2,480.37	19.80	10,787.10	(-) 0.08
12.	Manipur	10.07	72.43	14.95	14.47
13.	Meghalaya	68.02	(A)	180.75	(A)
14.	Nagaland	2.02	..	0.28	(-) 6.67
15.	Orissa	863.12	7.46	3,234.93	38.76
16.	Punjab	999.32	12.75	3,841.21	42.79
17.	Rajasthan	580.66	(-) 0.01	2,432.88	13.97
18.	Tamil Nadu	1,764.00	6.65	5,722.12	12.72
19.	Tripura	4.88	..	5.00	(-) 9.91
20.	Uttar Pradesh	2,086.99	13.33	8,019.79	29.27
21.	West Bengal	1,399.16	9.41	4,685.23	4.30
22.	D.V.C.	1,301.50	..	5,006.77	12.12
23.	Central Govt. Projects	1,646.00	..	6,465.06	17.26
	UNION TERRITORIES				
(a)	Andaman & Nicobar Islands	4.45	14.10	6.51	28.91
(b)	Arunachal Pradesh	4.56	118.18	6.19	379.84
(c)	Chandigarh	2.48	..	0.06	(-) 45.45
(d)	Dadar & Nagar Haveli	..	..	..	..
(e)	Delhi	297.00	..	1,493.13	5.03
(f)	Goa, Daman & Diu	..	..	..	..
(g)	Lakshadweep	0.90	..	0.50	13.64
(h)	Mizoram	1.66	(A)	1.81	(A)
(i)	Pondicherry	..	..	..	..
	TOTAL (ALL INDIA)	20,117.06	9.83	79,230.92	12.88

NOTE : (A)—Percentage increase over previous year is not calculated due to non-availability of separate data for the State/Union Territories.

TABLE NO. 2.1.7

Installed capacity & generation—Statewise & Sectorwise@

Sl. No.	Name of State	Public		Sector	
		State	Electricity	Boards	
		No. of undertakings	Installed capacity MW	Energy generated gross (m. kWh)	Energy generated Net (m. kWh)
1	2	3	4	5	6
1.	Andhra Pradesh	1	852.50	3,086.86	2,785.65
2.	Assam	1	166.50	449.36	435.77
3.	Bihar	1	589.39	2,116.74	1,836.56
4.	Gujarat	1	1,122.48	4,202.37	3,888.81
5.	Haryana	1	616.96	2,564.87	2,499.27
6.	Himachal Pradesh	1	52.48	182.24	181.45
7.	Jammu & Kashmir	1	101.98	304.50	298.37
8.	Karnataka	1	206.20	763.80	758.35
9.	Kerala	1	754.60	2,783.28	2,761.09
10.	Madhya Pradesh	1	895.42	4,140.48	3,831.92
11.	Maharashtra	1	1,863.80	7,404.96	7,045.96
12.	Manipur	..	..	..	..
13.	Meghalaya	1	66.51	176.08	175.47
14.	Nagaland	..	..	..	..
15.	Orissa	1	528.70	1,566.38	1,489.98
16.	Punjab	1	999.32	3,841.21	3,792.13
17.	Rajasthan	1	580.66	2,432.88	2,365.61
18.	Tamil Nadu	1	1,764.00	5,722.12	5,517.60
19.	Traipura	..	..	..	..
20.	Uttar Pradesh	1	2,086.99	8,012.47	7,469.51
21.	West Bengal	1	664.69	1,831.27	1,654.92
22.	D.V.C.	..	..	..	..
23.	Central Govt. Projects	..	..	..	..
	UNION TERRITORIES	..	..	..	..
(a)	Andaman & Nicobar Islands	..	..	..	..
(b)	Arunachal Pradesh	..	..	..	..
(c)	Chandigarh	..	..	..	..
(d)	Mizoram	..	..	..	..
(e)	Dadra & Nagar Haveli	..	..	..	..
(f)	Delhi	..	..	..	..
(g)	Goa, Daman & Diu	..	..	..	..
(h)	Lakshadweep (E)	..	..	..	..
(i)	Pondicherry	..	..	..	..
	TOTAL	18	13,913.18	51,581.87	48,786.42

TABLE No. 2.1.7 (Contd.)

Sl. No.	Name of State	Public Sector			
		Electricity Department/Govt. Undertaking/Corporations			
		No. of undertakings	Installed plant capacity (MW)	Energy generated (gross) (m. kWh)	Energy generated (net) (m. kWh)
1	2	7	8	9	10
1.	Andhra Pradesh	2	137.93	703.83	701.90
2.	Assam	..	..	..	..
3.	Bihar	1	15.00	8.08	7.45
4.	Gujarat	..	..	..	..
5.	Haryana	..	..	..	..
6.	Himachal Pradesh	..	..	..	..
7.	Jammu & Kashmir	..	..	..	..
8.	Karnataka	1	849.50	4,624.84	4,615.44
9.	Kerala	..	..	..	..
10.	Madhya Pradesh	..	..	..	..
11.	Maharashtra	..	..	..	..
12.	Manipur	1	10.07	14.95	14.63
13.	Meghalaya	..	..	..	..
14.	Nagaland	1	2.02	0.28	0.25
15.	Orissa	1	334.42	1,668.55	1,659.38
16.	Punjab	..	..	..	..
17.	Rajasthan	..	..	..	..
18.	Tamil Nadu	..	..	..	..
19.	Tripura	1	4.88	5.00	4.85
20.	Uttar Pradesh	..	..	..	..
21.	West Bengal	1	285.00	972.64	862.18
22.	D.V.C.	1	1,301.50	5,006.77	4,518.86
23.	Central Govt. Projects	6	1,646.00	6,465.06	5,810.10
	UNION TERRITORIES				
(a)	Andaman & Nicobar Islands	1	4.45	6.51	6.16
(b)	Arunachal Pradesh	1	4.56	6.19	6.11
(c)	Chandigarh	1	2.48	0.06	0.05
(d)	Mizoram	1	1.66	1.81	1.77
(e)	Dadra & Nagar Haveli	1	..	..	..
(f)	Delhi	..	..	..	..
(g)	Goa, Daman & Diu	1	..	..	..
(h)	Lakshadweep (E)	1	0.90	0.50	0.48
(i)	Pondicherry	1	..	..	..
	TOTAL	24	4,600.37	19,485.07	18,209.61

TABLE No. 2.1.7 (Contd.)

Sl. No.	Name of State/Union Territories	Municipalities			
		No. of undertakings	Installed plant capacity MW	Energy generated gross (m. kWh)	Energy generated net (m. kWh)
1	2	11	12	13	14
1.	Andhra Pradesh	..	..	..	..
2.	Assam	..	..	..	..
3.	Bihar	..	..	..	..
4.	Gujarat	9	1.10	0.02	0.01
5.	Haryana	..	..	..	..
6.	Himachal Pradesh	..	..	..	..
7.	Jammu & Kashmir	..	..	..	..
8.	Karnataka	..	..	..	..
9.	Kerala	1	..	..	..
10.	Madhya Pradesh	..	..	..	..
11.	Maharashtra	5	..	..	..
12.	Manipur	..	..	..	..
13.	Meghalaya	..	..	..	..
14.	Nagaland	..	..	..	..
15.	Orissa	..	..	..	..
16.	Punjab	1	..	..	..
17.	Rajasthan	5	..	..	..
18.	Tamil Nadu	..	..	..	..
19.	Tripura	..	..	..	..
20.	Uttar Pradesh	2	..	7.32	7.19
21.	West Bengal	1	3.09	4.15	4.15
22.	D.V.C.	..	..	..	..
23.	Central Govt. Projects	..	..	..	..
	UNION TERRITORIES				
(a)	Andaman & Nicobar Islands	..	..	..	..
(b)	Arunachal Pradesh	..	..	..	..
(c)	Chandigarh	..	..	..	..
(d)	Mizoram	..	..	..	..
(e)	Dadra & Nagar Haveli	..	..	..	..
(f)	Delhi	2	297.00	1,493.13	1,356.69
(g)	Goa, Daman & Diu	..	..	..	..
(h)	Lakshadweep (E)	..	..	..	..
(i)	Pondicherry	..	..	..	..
	TOTAL (ALL INDIA)	26	301.19	1504.62	1368.04

TABLE No. 2.1.7 (Contd.)

Sl. No.	Name of States/Union Territories	Private Sector			
		Companies			
		No. of undertakings	Installed plant capacity MW	Energy generated gross m. kWh	Energy generated Net m. kWh
1	2	15	16	17	18
1.	Andhra Pradesh	3	..	..	..
2.	Assam	..	..	..	..
3.	Bihar	11	..	10.16	9.03
4.	Gujarat	11	237.86	1,385.22	1,299.91
5.	Haryana	..	..	..	..
6.	Himachal Pradesh	..	..	..	..
7.	Jammu & Kashmir	..	..	..	..
8.	Karnataka	1	..	..	..
9.	Kerala	3	..	..	..
10.	Madhya Pradesh	..	..	..	..
11.	Maharashtra	23	616.57	3,382.14	3,244.14
12.	Manipur	..	..	..	..
13.	Meghalaya	1	1.51	4.67	4.64
14.	Nagaland	..	..	..	..
15.	Orissa	..	..	..	..
16.	Punjab	1	..	..	..
17.	Rajasthan	..	..	..	..
18.	Tamil Nadu	..	..	..	..
19.	Tripura	..	..	..	..
20.	Uttar Pradesh	1	..	..	..
21.	West Bengal	12	446.38	1,877.17	1,753.32
22.	D.V.C.	..	..	..	..
23.	Central Govt. Projects	..	..	..	..
	UNION TERRITORIES				
(a)	Andaman & Nicobar Islands	..	..	..	..
(b)	Arunachal Pradesh	..	..	..	..
(c)	Chandigarh	..	..	..	..
(d)	Mizoram	..	..	..	..
(e)	Dadra & Nagar Haveli	..	..	..	..
(f)	Delhi	..	..	..	..
(g)	Goa, Daman & Diu	..	..	..	..
(h)	Lakshadweep (E)	..	..	..	..
(i)	Pondicherry	..	..	..	..
	TOTAL (ALL INDIA)	56	1,302.32	6,659.36	6,311.04

TABLE No. 2.1.7 (Contd.)

Sl. No.	Name of States/Union Territories	Total			
		No. of undertakings	Installed capacity (MW)	Energy generated gross (m. kWh)	Energy generated net (m. kWh)
1	2	19	20	21	22
1.	Andhra Pradesh				
2.	Assam	6	990.43	3,790.69	3,487.55
3.	Bihar	1	166.50	449.36	435.77
4.	Gujarat	2	604.39	2,134.98	1,853.04
5.	Haryana	21	1,361.44	5,587.61	5,188.73
6.	Himachal Pradesh	1	616.96	2,564.87	2,499.27
7.	Jammu & Kashmir	1	52.48	182.24	181.45
8.	Karnataka	1	101.98	304.50	298.37
9.	Kerala	3	1,055.70	5,388.64	5,373.79
10.	Madhya Pradesh	5	754.60	2,783.28	2,761.09
11.	Maharashtra	1	895.42	4,140.48	3,831.92
12.	Manipur	29	2,480.37	10,787.10	10,290.10
13.	Meghalaya	1	10.07	14.95	14.63
14.	Nagaland	2	68.02	180.75	180.11
15.	Orissa	1	2.02	0.28	0.25
16.	Punjab	2	863.12	3,234.93	3,149.36
17.	Rajasthan	3	999.32	3,841.21	3,792.13
18.	Tamil Nadu	1	580.66	2,432.88	2,363.61
19.	Tripura	6	1,764.00	5,722.12	5,517.60
20.	Uttar Pradesh	1	4.88	5.00	4.85
21.	West Bengal	4	2,086.99	8,019.79	7,476.70
22.	D.V.C.	15	1,399.16	4,685.23	4,274.57
23.	Central Govt. Projects	1	1,301.50	5,006.77	4,518.86
		6	1,646.00	6,465.06	5,810.10
	UNION TERRITORIES				
(a)	Andaman & Nicobar Islands				
(b)	Arunachal Pradesh	1	4.45	6.51	6.16
(c)	Chandigarh	1	4.56	6.19	6.11
(d)	Mizoram	1	2.48	0.06	0.05
(e)	Dadra & Nagar Haveli	1	1.66	1.81	1.77
(f)	Delhi	1			
(g)	Goa, Daman & Diu	2	297.00	1,493.13	1,356.69
(h)	Lakshadweep (E)	1			
(i)	Pondicherry	1	0.90	0.50	0.48
		1			
	TOTAL (ALL INDIA)	124	20,117.06	79,230.92	74,675.11

NOTE :— The installed plant capacity & generation of jointly owned projects have been shown divided between the partner States as per their theoretical shares.

E—Estimated.

TECHNICAL STATISTICS

SECTION--2

TABLE No. 2.1.8
Installed Capacity & Generation Gross & Net & Maximum Demand Statewise & Prime-Moverwise.

Sl. No.	State/Power Corporation	Installed capacity (MW)	HYDRO		Auxiliary consumption as % of gross generation.	
			Maximum demand aggregate (MW)	Generation (m.kWh.) Gross Net		
1	2	3	4	5	6	7
1.	Andhra Pradesh	367.93	279.40	1,061.78	1,059.17	0.25
2.	Assam	15.00	5.50	8.08	7.45	7.80
3.	Bihar	300.00	240.00	829.96	786.73	5.21
4.	Gujarat	408.47	397.79	1,889.23	1,886.11	0.17
5.	Haryana	49.97	34.50	182.16	181.37	0.43
6.	Himachal Pradesh	72.72	64.60	270.18	267.48	1.00
7.	Jammu & Kashmir	1,055.70	1,012.80	5,388.64	5,373.79	0.28
8.	Karnataka	751.50	683.40	2,783.28	2,761.09	0.80
9.	Kerala	193.00	193.00	855.55	854.52	0.12
10.	Madhya Pradesh	1175.30	1,060.74	4,753.11	4,728.81	0.51
11.	Maharashtra	0.60	0.60	1.28	1.27	0.78
12.	Manipur	66.71	60.52	179.99	179.41	0.32
13.	Meghalaya	604.42	520.00	2,518.57	2,505.66	0.51
14.	Nagaland	717.70	687.68	3,402.51	3,396.37	0.18
15.	Orissa	376.33	371.53	1,703.45	1,701.02	0.14
16.	Punjab	1,224.00	1,251.20	4,405.23	4,393.40	0.27
17.	Rajasthan	942.28	8,80.75	2,662.43	2,653.34	0.34
18.	Tamil Nadu	36.51	26.17	85.03	83.79	1.46
19.	Tripura	104.00	108.00	320.63	318.14	0.78
20.	Uttar Pradesh	..	..	..	..	..
21.	West Bengal	..	..	..	..	..
22.	D.V.C.	..	..	..	..	..
23.	Central Govt. Projects	..	..	..	..	..
UNION TERRITORIES						
(a)	A&N Islands	..	..	..	..	..
(b)	Arunachal Pradesh	1.46	1.46	0.68	0.67	1.47
(c)	Chandigarh	..	..	..	..	..
(d)	Mizoram	..	..	..	..	..
(e)	D&N Haveli	..	..	..	..	..
(f)	Delhi	..	..	..	..	..
(g)	Goa, Daman & Diu	..	..	..	..	..
(h)	Lakshadweep	..	..	..	..	..
(i)	Pondicherry	..	..	..	..	..
TOTAL (ALL INDIA)		8,463.60	7,879.64	33,301.77	33,139.59	0.49

TABLE NO. 2.1.8 (contd).

Installed capacity (MW)	Maximum demand aggregate (MW)	STEAM		Auxiliary consumption %	Sl. No.
		Generation (m. k Wh)			
		Gross	Net		
8	9	10	11	12	1
602.50	553.00	2,727.34	2,426.82	11.02	1
35.00	30.00	109.93	104.58	4.87	2
572.77	378.01	2,125.70	1,844.49	13.23	3
998.00	811.60	4,611.48	4,258.55	7.65	4
204.30	148.53	675.56	613.08	9.25	5
..	..	..	..	..	6
22.50	20.00	31.80	28.37	10.79	7
..	..	..	..	..	8
..	..	..	..	..	9
702.00	544.30	3,284.81	2,977.28	9.36	10
1,305.00	1,097.64	6,033.85	5,561.15	7.83	11
..	..	..	..	..	12
..	..	..	..	..	13
..	..	..	..	..	14
258.25	182.00	716.30	643.64	10.14	15
225.00	225.00	432.83	390.07	9.88	16
163.00	131.01	724.06	657.48	9.20	17
540.00	367.51	1,316.89	1,124.20	14.63	18
..	..	..	..	..	19
1,126.00	1,109.91	5,355.69	4,821.89	9.97	20
1,343.42	982.85	4,592.98	4,183.74	8.91	21
1,197.50	912.00	4,686.14	4,200.72	10.36	22
1,006.00	908.00	3838.55	3,399.22	11.45	23
..	..	..	..	..	U.T.'s
1.65	0.72	3.32	3.08	7.23	a
..	..	..	..	..	b
..	..	..	..	..	c
..	..	..	..	..	d
..	..	..	..	..	e
276.20	255.17	1492.82	1356.39	9.14	f
..	..	..	..	..	g
..	..	..	..	..	h
..	..	..	..	..	i
10579.09	8657.25	42760.05	38594.75	..	9.74(Total All India)

Table No. 2.1.8 (Contd.)

Sl. No.	State/Power Corporation	DIESEL		Generation (m.kWh)		Auxiliary consumption %
		Installed capacity (MW)	Maximum demand (aggregate)	Gross	Net	
1	2	13	14	15	16	17
1.	Andhra Pradesh	..	..	..	..	..
2.	Assam	20.00	1.50	5.00	4.70	6.00
3.	Bihar	16.62	6.63	1.20	1.10	8.33
4.	Gujarat	9.44	5.35	0.76	0.64	15.79
5.	Haryana	4.19	1.09	0.08	0.08	Neg.
6.	Himachal Pradesh	2.51	0.60	0.08	0.08	Neg.
7.	Jammu & Kashmir	6.76	3.45	2.52	2.52	Neg.
8.	Karnataka	..	..	..	..	..
9.	Kerala	3.10	..	..	..	..
10.	Madhya Pradesh	0.42	0.35	0.12	0.12	Neg.
11.	Maharashtra	0.07	0.15	0.14	0.14	Neg.
12.	Manipur	9.47	5.50	13.67	13.36	2.27
13.	Meghalaya	1.31	0.50	0.76	0.70	7.89
14.	Nagaland	2.02	1.80	0.28	0.25	10.71
15.	Orissa	0.45	0.05	0.06	0.06	Neg.
16.	Punjab	56.62	18.40	5.87	5.69	3.07
17.	Rajasthan	31.33	3.66	5.37	5.11	4.84
18.	Tamil Nadu	..	..	..	..	..
19.	Tripura	4.88	2.23	5.00	4.85	3.00
20.	Uttar Pradesh	6.21	1.00	0.32	0.22	31.25
21.	West Bengal	19.23	10.87	7.22	7.04	2.49
22.	D.V.C.	..	..	..	..	..
23.	Central Govt. Projects	..	..	..	..	..
<i>U.T.'s</i>						
a.	A&N Islands	2.80	1.44	3.19	3.08	3.45
b.	Arunachal Pradesh	3.10	2.50	5.51	5.44	1.27
c.	Chandigarh	2.48	2.00	0.06	0.05	16.67
d.	Mizoram	1.66	1.40	1.81	1.77	2.21
e.	D&N Haveli	..	..	..	..	..
f.	Delhi	20.80	7.80	0.31	0.30	3.23
g.	Goa, Daman & Diu	..	..	..	..	..
h.	Lakshadweep	0.90	0.30	0.50	0.48	4.00
i.	Pondicherry	..	..	..	..	..
TOTAL (ALL INDIA)		226.37	78.57	59.83	57.78	3.43

Table No. 2·1·8 (Contd.)

Installed capacity (MW)	Maximum demand aggregate (MW)	GAS		Auxiliary consumption %	Sl. No.
		Generation (m. kWh)			
18	19	20	21	22	1
20·00	10·00	1·57	1·56	0·64	1
111·50	57·30	334·43	326·49	2·37	2
..	3
54·00	27·00	145·41	142·81	1·79	4
..	5
..	6
..	7
..	8
..	9
..	10
..	11
..	12
..	13
..	14
..	15
..	16
10·00	17
..	18
..	19
12·50	10·00	1·35	1·25	7·41	20
..	21
..	22
..	23
..	<i>U.T.'s</i>
..	<i>a</i>
..	<i>b</i>
..	<i>c</i>
..	<i>d</i>
..	<i>e</i>
..	<i>f</i>
..	<i>g</i>
..	<i>h</i>
..	<i>i</i>
208·00	104·30	482·76	472·11	2·21	TOTAL(A.I.)

TABLE No. 2.1.8 (contd.)

Sl. No.	State/Power Corporation	NUCLEAR		Generation (m. kWh)		Auxiliary consumption %
		Installed capacity (MW)	Maximum demand aggregate (MW)	Gross	Net	
1	2	23	24	25	26	27
1.	Andhra Pradesh	..	..	..	..	..
2.	Assam	..	..	..	..	..
3.	Bihar	..	..	..	..	..
4.	Gujarat	..	..	..	..	..
5.	Haryana	..	..	..	..	..
6.	Himachal Pradesh	..	..	..	..	..
7.	Jammu & Kashmir	..	..	..	..	..
8.	Karnataka	..	..	..	..	..
9.	Kerala	..	..	..	..	..
10.	Madhya Pradesh	..	..	..	..	..
11.	Maharashtra	..	..	..	..	..
12.	Manipur	..	..	..	..	..
13.	Meghalaya	..	..	..	..	..
14.	Nagaland	..	..	..	..	..
15.	Orissa	..	..	..	..	..
16.	Punjab	..	..	..	..	..
17.	Rajasthan	..	..	..	..	..
18.	Tamil Nadu	..	..	..	..	..
19.	Tripura	..	..	..	..	..
20.	Uttar Pradesh	..	..	..	..	..
21.	West Bengal	..	..	..	..	..
22.	D.V.C.	..	..	..	..	..
23.	Central Govt. Projects	640.00	585.00	2,626.51	2,410.88	8.21
	<i>U.T.'s</i>					
a.	A&N Islands	..	..	..	..	..
b.	Arunachal Pradesh	..	..	..	..	..
c.	Chandigarh	..	..	..	..	..
d.	Mizoram	..	..	..	..	..
e.	D&N Haveli	..	..	..	..	..
f.	Delhi	..	..	..	..	..
g.	Goa, Daman & Diu	..	..	..	..	..
h.	Lakshadweep	..	..	..	..	..
i.	Pondicherry	..	..	..	..	..
	TOTAL (ALL INDIA)	640.00	585.00	2,626.51	2,410.88	8.21

TABLE NO. 2.1.8 (contd.)

Installed capacity (MW)	Maximum demand aggregate (MW)	TOTAL		Auxiliary consumption %	Sl. No.
		Generation (m. kWh.)			
		Gross	Net		
28	29	30	31	32	1
990.43	842.40	3,790.69	3,487.55	8.00	1
166.50	88.80	449.36	435.77	3.02	2
604.39	390.14	2,134.98	1,853.04	13.21	3
1,361.44	1,083.95	5,587.61	5,188.73	7.14	4
616.96	547.41	2,564.87	2,499.27	2.56	5
52.48	35.10	182.24	181.45	0.43	6
101.98	88.05	304.50	298.37	2.01	7
1,055.70	1,012.80	5,388.64	5,373.79	0.28	8
754.60	683.40	2,783.28	2,761.09	0.80	9
895.42	737.65	4,140.48	3,831.92	7.45	10
2,480.37	2,158.53	10,787.10	10,290.10	4.61	11
10.07	6.10	14.95	14.63	2.14	12
68.02	61.02	180.75	180.11	0.35	13
2.02	1.80	0.28	0.25	10.71	14
863.12	702.05	3,234.93	3,149.36	2.65	15
999.32	931.08	3,841.21	3,792.13	1.28	16
580.66	506.20	2,432.88	2,363.61	2.85	17
1,764.00	1,618.71	5,722.12	5,517.60	3.57	18
4.88	2.23	5.00	4.85	3.00	19
2,086.99	2,001.66	8,019.79	7,476.70	6.77	20
1,399.16	1,019.89	4,685.23	4,274.57	8.76	21
1,301.50	1,020.00	5,006.77	4,518.86	9.75	22
1,646.00	1,493.00	6,465.06	5,810.10	10.13	23
					<i>U.T.'s</i>
4.45	2.16	6.51	6.16	5.38	<i>a</i>
4.56	3.96	6.19	6.11	1.29	<i>b</i>
2.48	2.00	0.06	0.05	16.67	<i>c</i>
1.66	1.40	1.81	1.77	2.21	<i>d</i>
297.00	262.97	1,493.13	1,356.69	9.14	<i>e</i>
0.90	0.30	0.50	0.48	4.00	<i>f</i>
..	..	..	..	..	<i>g</i>
..	..	..	..	..	<i>h</i>
..	..	..	..	..	<i>i</i>
20,117.06	17,304.76	79,230.92	74,675.11	5.75	TOTAL

NOTE :—The installed capacity, maximum demand and generation at the jointly owned projects has been shown divided between the partner States as per their theoretical share.

E—Estimated.

TABLE No. 2.1.9
Installed Capacity & Generation Hydro, Statewise, Ownershipwise@

Sl. No.	State/Power Corporation	PUBLIC SECTOR			
		State Elec. Boards		Electy. Deptt./ Govt. Undertakings/Corporations	
		Installed plant capacity (MW)	Energy generated (m. kWh)	Installed plant capacity (MW)	Energy generated (m.Kwh)
1	2	3	4	5	6
1	Andhra Pradesh	230.00	357.95	137.93	703.83
2	Assam	..	..	..	..
3	Bihar	..	..	15.00	8.08
4	Gujarat	300.00	829.96	..	..
5	Haryana	408.47	1,889.23	..	..
6	Himachal Pradesh	49.97	182.16	..	..
7	Jammu & Kashmir	72.72	270.18	..	..
8	Karnataka	206.20	763.80	849.50	4,624.84
9	Kerala	751.50	2,783.28	..	..
10	Madhya Pradesh	193.00	855.55	..	..
11	Maharashtra	896.30	3,391.11	..	..
12	Manipur	..	..	0.60	1.28
13	Meghalaya	65.20	175.32	..	..
14	Nagaland	..	..	..	..
15	Orissa	270.00	850.02	334.42	1,668.55
16	Punjab	717.70	3,402.51	..	..
17	Rajasthan	376.33	1,703.45	..	..
18	Tamil Nadu	1,224.00	4,405.23	..	..
19	Tripura	..	..	..	..
20	Uttar Pradesh	942.28	2,655.43	..	..
21	West Bengal	34.55	80.88	..	..
22	D.V.C.	..	..	104.00	320.63
23	Central Govt. Projects	..	..	..	..
UNION TERRITORIES					
a	A & N Islands	..	..	..	..
b	Arunachal Pradesh	..	..	1.46	0.68
c	Chandigarh	..	..	..	..
d	Mizoram	..	..	..	..
e	D & N Haveli	..	..	..	..
f	Delhi	..	..	..	..
g	Goa, Daman & Diu	..	..	..	..
h	Lakshadweep	..	..	..	..
i	Pondicherry	..	..	..	..
TOTAL (ALL INDIA)		6,738.22	24,596.06	1,442.91	7,327.89

@—The installed capacity & generation of jointly owned projects have been shown divided between the partner States as per their theoretical share.

TABLE No. 2.1.9 (Contd.)

Public Sector		PRIVATE SECTOR		Total		Sl. No.
Municipalities :		Companies				
Installed plant capacity (MW)	Energy generated (m.kWh)	Installed plant capacity (MW)	Energy generated (m.kWh)	Installed plant capacity (MW)	Energy generated (m.kWh)	
7	8	9	10	11	12	1
..	367.93	1,061.78	1
..	2
..	15.00	8.08	3
..	300.00	829.96	4
..	408.47	1,889.23	5
..	49.97	182.16	6
..	72.72	270.18	7
..	1,055.70	5,388.64	8
..	751.50	2,783.28	9
..	193.00	855.55	10
..	..	279.00	1,362.00	1,175.30	4,753.11	11
..	0.60	1.28	12
..	..	1.51	4.67	66.71	179.99	13
..	14
..	604.42	2,518.57	15
..	717.70	3,402.51	16
..	376.33	1,703.45	17
..	1,224.00	4,405.23	18
..	19
*	7.00	..	..	942.28	2,662.43	20
1.96	4.15	..	..	36.51	85.03	21
..	104.00	320.63	22
..	23
..	<i>U.T.'s</i>
..	1.46	0.68	<i>a</i>
..	<i>b</i>
..	<i>c</i>
..	<i>d</i>
..	<i>e</i>
..	<i>f</i>
..	<i>g</i>
..	<i>h</i>
..	<i>i</i>
1.96	11.15	280.51	1,366.67	8,463.60	33,301.77	TOTAL

*Included under State Electricity Board.

TABLE No. 2.1.10
Installed Capacity & Generation Steam—Statwise, Ownershipwise

Sl. No.	State/U.T.	PUBLIC SECTOR			
		State Elec. Board		Elec. Depts./Govt. Undertakings/Corporation	
		Installed plant capacity (MW)	Energy generated (m.kWh.)	Installed plant capacity (MW)	Energy generated (m.kWh)
1	2	3	4	5	6
1	Andhra Pradesh	602.50	2,727.34	..	..
2	Assam	35.00	109.93	..	..
3	Bihar	572.77	2,115.54	..	..
4	Gujarat	765.50	3,226.61	..	..
5	Haryana	204.30	675.56	..	..
6	Himachal Pradesh	..	..	..	..
7	Jammu & Kashmir	22.50	31.80	..	..
8	Karnataka	..	..	..	..
9	Kerala	..	..	..	..
10	Madhya Pradesh	702.00	3,284.81	..	..
11	Maharashtra	967.50	4,013.85	..	..
12	Manipur	..	..	..	..
13	Meghalaya	..	..	..	..
14	Nagaland	..	..	..	..
15	Orissa	258.25	716.30	..	..
16	Punjab	225.00	432.83	..	..
17	Rajasthan	163.00	724.06	..	..
18	Tamil Nadu	540.00	1,316.89	..	..
19	Tripura	..	..	..	..
20	Uttar Pradesh	126.00	5,355.69	..	..
21	West Bengal	612.04	1,743.17	285.00	972.64
22	D.V.C.	..	..	1,197.50	4,686.14
23	Central Govt. Projects	..	..	1,006.00	3,838.55
UNION TERRITORIES					
a	A&N Islands	..	..	1.65	3.32
b	Arunachal Pradesh	..	..	..	..
c	Chandigarh	..	..	..	..
d	Mizoram	..	..	..	..
e	D&N Haveli	..	..	..	..
f	Delhi	..	..	..	..
g	Goa, Daman & Diu	..	..	..	..
h	Lakshadweep	..	..	..	..
i	Pondicherry	..	..	..	..
TOTAL (ALL INDIA)		6,796.36	26,474.38	2,490.15	9,500.65

TABLE No. 2.1.10 (Contd.)

Public Sector		Private Sector		Total		S. No.
Municipalities		Companies		Installed plant capacity @ (MW)	Energy generated, @ (m.kWh.)	
Installed plant capacity (MW)	Energy generated (m.kWh.)	Installed plant capacity (MW)	Energy generated (m.kWh)			
7	8	9	10	11	12	1
..	602.50	2,727.34	1
..	35.00	109.93	2
..	..	*	10.16*	572.77	2,125.70	3
..	..	232.50	1,384.87	998.00	4,611.48	4
..	204.30	675.56	5
..	6
..	22.50	31.80	7
..	8
..	9
..	702.00	3,284.81	10
..	..	337.50	2,020.00	1,305.00	6,033.85	11
..	12
..	13
..	14
..	258.25	716.30	15
..	225.00	432.83	16
..	163.00	724.06	17
..	540.00	1,316.89	18
..	19
..	1,126.00	5,355.69	20
..	..	446.38	1,877.17	1,343.42	4,592.98	21
..	1,197.50	4,686.14	22
..	1,006.00	3,838.55	23
..	U.T.'s
..	1.65	3.32	a
..	b
..	c
..	d
..	e
276.20	1,492.82	..	..	276.20	1,492.82	f
..	g
..	h
..	i
276.20	1,492.82	1,016.38	5,292.20	10,579.09	42,760.05	TOTAL

Note :— *Generation is upto the date of taken over by the State Electy. Board.

@—The installed capacity & generation of jointly owned projects has been shown divided between the partner States as per their theoretical share.

TABLE NO. 2.1.11
Installed capacity & Generation—Gas & Diesel Statewise, Ownershipwise

Sl. No.	State/Power Corpn./U.T.s.	PUBLIC		SECTOR	
		State Elec. Board		Elec. Deptt./Govt. Undertakings, Corpn.	
		Installed Plant capacity (MW)	Energy generated (m.kWh.)	Installed plant capacity (MW)	Energy generated (m.kWh.)
1	2	3	4	5	6
1	Andhra Pradesh	20.00 ¹	1.57		
2	Assam	131.50 ²	339.43		
3	Bihar	16.62	1.20		
4	Gujarat	56.98 ³	145.80		
5	Haryana	4.19	0.08		
6	Himachal Pradesh	2.51	0.08		
7	Jammu & Kashmir	6.76	2.52		
8	Karnataka				
9	Kerala	3.10			
10	Madhya Pradesh	0.42	0.12		
11	Maharashtra				
12	Manipur			0.47	3.67
13	Meghalaya	1.31	0.76		
14	Nagaland			2.02	0.28
15	Orissa	0.45	0.06		
16	Punjab	56.62	5.87		
17	Rajasthan	41.33 ⁴	5.37		
18	Tamil Nadu				
19	Tripura			4.88	5.00
20	Uttar Pradesh	18.71 ⁵	1.35		
21	West Bengal	18.10	7.22		
22	D.V.C.				
23	Central Govt. Projects				
UNION TERRITORIES					
a	A&N Islands			2.80	3.19
b	Arunachal Pradesh			3.10	5.51
c	Chandigarh			2.48	0.06
d	Mizoram			1.66	1.81
e	D & N Haveli				
f	Delhi				
g	Goa, Daman & Diu				
h	Lakshadweep			0.90	0.50
i	Pondicherry				
TOTAL (ALL INDIA)		378.60*	511.43*	27.31	30.02

NOTE— Includes 208.00 MW of Gas turbine plant & 482.76 m.kWh. generation therefrom.

TABLE No. 2.1.11 (Contd.)

Public Sector		Private Sector		Total		Sl. No.
Municipalities plant capacity (MW)	Energy generated (m.kWh.)	Companies		Installed plant capacity (MW)	Energy generated (m.kWh.)	
		Installed plant capacity (MW)	Energy generated (m.kWh.)			
7	8	9	10	11	12	1
..	20.00	1.57	1
..	131.50	339.43	2
..	16.62	1.20	3
1.10	0.02	5.36	0.35	63.44	146.17	4
..	4.19	0.08	5
..	2.51	0.08	6
..	6.76	2.52	7
..	8
..	3.10	..	9
..	0.42	0.12	10
..	..	0.07	0.14	0.07	0.14	11
..	9.47	13.67	12
..	1.31	0.76	13
..	2.02	0.28	14
..	0.45	0.06	15
..	56.62	5.87	16
..	41.33	5.37	17
..	18
..	0.32	..	..	4.88	5.00	19
..	18.71	1.67	20
1.13	19.23	7.22	21
..	22
..	23
..	U.T.'s
..	2.80	3.19	a
..	3.10	5.51	b
..	2.48	0.06	c
..	1.66	1.81	d
..	e
20.80	0.31	..	..	20.80	0.31	f
..	g
..	0.90	0.50	h
..	i
23.03	0.65	5.43	0.49	434.37	542.59	TOTAL

NOTE:— 1—The figure pertains to Gas plant.

2—Includes 111.50 MW of Gas turbine & 334.43 m.kWh. energy generated therefrom.

3—Includes 54.00MW of Gas turbine & 145.41 m.kWh. energy generated therefrom.

4—Includes 10.00MW of Gas turbine & Nil energy generated therefrom.

5—Includes 12.50 MW of Gas turbine & 1.35 m.kWh energy generated therefrom.

TABLE NO. 2.1.12
Share of participating States in Jointly owned power stations

Sl. No.	Name of the power Stations	Installed plant capacity (M.W.)	Energy generated (m.kWh.)		Name of the participating States	Share of the participating States		Energy sent out* state-wise (m.kwh)
			Gross	Net		% share	Installed capacity (MW)	
1	2	3	4	5	6	7	8	9
1	Machkund (Hydro)	114.75	630.00	628.16	Andhra Pradesh Orissa	70 30	80.33 34.42	370.82 257.34
2	Tunghbhadra Dam & Hampi (Hydro)	72.00	328.29	327.50	Karnataka Andhra Pradesh	20 80	14.40 57.60	67.88 259.62
3	Chambal Projects (Hydro)							
	(a) Gandhi Sagar	115.00	572.54	571.67	Madhya Pradesh Rajasthan	50 50	57.50 57.50	M.P.— 2072.53 Rajasthan 1277.82
	(b) Rana Partap Sagar	172.00	687.83	687.00	Madhya Pradesh Rajasthan	50 50	86.00 86.00	
	(c) Jawahar Sagar	99.00	450.73	450.37	Madhya Pradesh Rajasthan	50 50	49.50 49.50	
4	Satpura (Thermal)	312.50	1,806.36	1,641.31	Madhya Pradesh Rajasthan	60 40	187.50 125.00	
5	Bhakra Nangal (Hydro)	1,204.50	5,570.98	5,561.77	Punjab Haryana Rajasthan Chandigarh Himachal Pradesh (including BSL) (old & New) Nangal Fertilizers Jammu & Kashmir D.E.S.U. I.B. Bhakra Uttar Pradesh Transmission losses	84.78 × 60% 84.78 × 40% 15.22%	612.70 408.47 183.33	1,623.27 1,308.33 584.76 136.79 250.95 1,311.19 73.10 48.20 9.82 .. 215.36
6	Indraprastha Extn. (Thermal) (Units 2, 3 & 4)	187.50	1,056.23	974.39	Delhi Haryana	66.67 33.33	125.00 62.50	656.94 317.45

*Including losses.

TABLE NO. 2.1.13

Installed capacity, energy generated, energy sent out by Central Government Projects/D.V.C.

Sl. No.	Name of Power station	Installed plant capacity (MW)	Energy generated		Off take by the States (including losses) i.e. at P.H. Busbar	
			(m.kWh) Gross	Net	Name of the States	m.kWh
1	2	3	4	5	6	7
1	Tarapore (Nuclear)	420.00	2,093.51	1,941.68	Gujarat Maharashtra	972.29 969.39
2	Chola (Steam)	96.00	218.33	196.62	Central Rlys. (Maharashtra)	196.62
3	Pong/Beas Talwara (Steam)	10.00	8.75	6.76	Beas Project (Unit II Punjab)	6.76
4	R.A.P.P. (Nuclear)	220.00	533.00	469.20	Rajasthan	469.20
5	Neyveli (Lignite)	600.00	2,510.74	2,229.99	Tamil Nadu	1,986.53@@
6	Badarpur (Steam)	300.00	1,100.73	965.85	Haryana Punjab U.P. Delhi H.P. Chandigarh J & Kashmir Rajasthan	119.69 17.77 341.95 334.20 15.53 21.23 8.03 107.45
7	D.V.C. *	1,301.50	5,006.77	4,518.86 @	Bihar W. Bengal	2,608.45** 2,107.18***

*—D.V.C. is owned by three partners viz. Central Govt., Bihar Govt. and West Bengal Govt.

@@—243.46 m.kWh (difference between energy sent out and net generation) has been consumed by Neyveli Lignite Corpr. within works.

@—Net generation does not tally with total of energy sent out by DVC since energy sent out includes purchase by DVC.

**—Includes 1076.85 m.kWh. direct sale by DVC to ultimate consumers in Bihar area.

***—Includes 670.21 m.kWh. direct sale by DVC to ultimate consumers in West Bengal area.

TABLE NO. 2.1.14
FUEL CONSUMPTION—STATEWISE

Sl. No.	State/UT	STEAM POWER STATIONS			
		Coal (tonnes)	Furnace oil (KL)	Natural & other gasous fuel Cu. meters	Heat input (K. Cal. + 109)
1	2	3	4	5	6
1	Andhra Pradesh	19,40,890	52,879(A)	..	8,503.48
2	Assam	..	34,962	..	349.62
3	Bihar	13,36,858	12,28,828(B)	..	7,607.29
4	Gujarat	10,21,798	7,59,788(C)	143.334	15,360.10
5	Haryana	1,94,081	4,199(D)	..	1,107.53
6	Himachal Pradesh	..	..	..	..
7	Jammu & Kashmir	37,140	..	..	230.27
8	Karnataka	..	..	..	..
9	Kerala	..	..	..	..
10	Madhya Pradesh	30,05,793	20031	..	13,592.64
11	Maharashtra	29,16,650	4,59,721(F)	..	18,373.24
12	Manipur	..	..	..	..
13	Meghalaya	..	..	..	..
14	Nagaland	..	..	..	..
15	Orissa	4,93,391	1,252(F)	..	2,248.75
16	Punjab	2,27,456	12,596(G)	..	1,116.08
17	Rajasthan	4,691	..	..	27.88
18	Tamil Nadu	9,29,711	10,023(H)	..	4,376.82
19	Tripura	42,39,103	88,077(J)	..	21,428.47
20	Uttar Pradesh	..	..	..	..
21	West Bengal	30,57,756	46,032(K)	..	17,654.26
22	D.V.C.	28,55,084	32,540	..	14,317.14
23	Central Govt. Projects	32,45,089	1,66,628	..	12,251.59
UNION TERRITORIES					
a	A & N Islands	16,228E	550	..	52.18
b	Arunachal Pradesh	..	..	..	..
c	Chandigarh	..	..	..	..
d	D & N Haveli	..	..	..	..
e	Delhi	11,75,067	34,167	..	6,671.70
f	Goa, Daman & Diu	..	..	..	..
g	Lakshadweep	..	..	..	..
h	Pondicherry	..	..	..	..
i	Mizoram	..	..	..	..
TOTAL (ALL INDIA)		2,66,96,786	18,46,273	143.334	1,45,269.04

Note :— A—Includes 4193 K.L. diesel oil used in steam power stations.
 B—Includes 84913 L.S.H.S. & 10587 KL diesel oil used in steam power stations.
 C—Includes 113 KL diesel oil used in steam power stations.
 D—Includes 1807 KL diesel oil used in steam power stations.
 E—Includes 267 KL diesel oil and 442900 Mt L.S.H.S. & H.H.S. used in steam power stations.
 F—Includes 1252 KL diesel oil used in steam power stations.
 G—Includes 2207 KL diesel oil used in steam power stations.
 H—Includes 479 KL diesel oil used in steam power stations.
 J—Includes 15431 KL diesel oil used in steam power stations.
 K—Includes 5406 KL diesel oil used in steam power stations.

TABLE NO. 2. 1. 14—contd.

Gross generated (m.kWh)	Average heat input in (K. Cal./kWh) generated	Gas Turbine & Diesel Power Station			Sl. No.
		Oil consumption (KL)	Generation (m.kWh)	Average oil consumption per unit generated. (Lit/kWh)	
(7)	(8)	(9)	(10)	(11)	(1)
2727.34	3,118	835 ¹	1.57	0.53	1
109.93	3,180	2483	339.43 ²	0.50	2
2,125.70	3,579	470	1.20	0.39	3
4,611.48	3,331	301	146.17 ³	0.40	4
323.48	3,424	29	0.08	0.36	5
31.80	7,241	29	0.08	0.36	6
..	..	605	2.52	0.24	7
..	..	..	..	..	8
..	..	..	..	..	9
4,007.35	3,392	144	0.12	1.20	10
6,033.85	3,045	49	0.14	0.35	11
..	..	4,101	13.67	0.30	12
..	..	693	0.76	0.91	13
..	..	165	0.28	0.59	14
716.30	3,139	31	0.06	0.52	15
132.83	2,579	1,800	5.87	0.31	16
1.52	18,342	2,269	5.37	0.42	17
1,316.89	3,324	..	..	..	18
..	..	2,360	5.00	0.47	19
5,355.69	4,001	547 ⁴	1.67 ⁵	0.33	20
4,592.98	3,844	2,624	7.22	0.36	21
4,586.14	3,055	..	..	..	22
3,838.55	3,192	..	..	..	23
..	..	..	..	..	U. T.'s
3.32	15,717	1,235	3.19	0.39	a
..	..	1,929	5.51	0.35	b
..	..	19	0.06	0.32	c
1,844.90	3,616	98	0.31	0.32	d
..	..	..	..	..	e
..	..	260	0.50	0.52	f
..	..	..	..	..	g
..	..	900	1.81	0.50	h
..	..	..	..	..	i
42,760.05	3,397	23,976	542.59*	0.38	TOTAL

NOTE :—

@@—Includes 2388000 MT lignite used in Neyveli Lignite Power Station.

£—Wood fuel.

1—All diesel oil consumed by gas turbine.

2—Includes 334.43 m. kWh generated by gas turbine.

3—Includes 145.41 m. kWh generated by gas turbine.

4—Includes 418 KL diesel oil consumed by gas turbine.

5—Includes 1.35 m. kWh generated by gas turbine.

*—Includes 482.76 m. kWh generated by gas turbine.

TABLE No. 2.1.15
Classification of Undertakings Capacitywise

Range of installed capacity (MW)	No. of undertakings	Aggregate installed capacity of the group (MW)	% to total installed capacity	Energy generated by the group (m. kWh)	% to Tot generation
1	2	3	4	5	6
Upto 1·000	4	1·46	0·01	0·64	Neg.
1·001—5·000	10	30·62	0·15	36·36	0·05
5·001—10·000	2	18·38	0·09	34·21	0·04
10·001—25·000	4	58·07	0·29	164·82	0·21
25·001—50·000 . . . . .	..	..	..	..	..
50·000—100·000	4	286·99	1·43	904·94	1·14
Above 100·000	29	19,721·54	98·03	78,089·95	98·56
TOTAL	53	20,117·06	100·00	79,230·92	100·0

TABLE No. 2.1.16
Classification of Undertakings Generationwise

Range of generation (m. kWh)	No. of undertakings	Total energy generated by the group (m. kWh)	% age of total	Installed capacity of the group (MW)	% age to total
1	2	3	4	5	6
Under 1·000	8	1·35	Neg.	11·93	0·06
1·001 to 10·000	8	52·48	0·07	45·15	0·22
10·001 to 2·000	1	25·11	0·03	10·07	0·05
25·001 to 50·000	1	25·46	0·03	8·38	0·04
50·001 to 100·000	2	131·63	0·17	33·00	0·16
100·001 to 250·000	3	576·65	0·73	214·99	1·07
250·001 to 500·000	3	1082·15	1·37	340·48	1·69
500·001 to 1,000·000	4	2,899·44	3·66	825·95	4·11
Above 1,000·000	23	74,436·65	93·94	18,627·11	92·60
TOTAL	53	79,230·92	100·00	20,117·06	100·0

TABLE No. 2.1.17
Classification of Hydro-stations Capacitywise

Range of installed plant capacity (MW)	No. of Generating stations	Installed plant capacity group total (MW)	Capacity percentage of total	Energy generated by the group (m. kWh)	Average plant load factor %
1	2	3	4	5	6
Upto 1.000	25	8.38	0.10	9.47	12.90
1.001 to 10.000	20	80.12	0.95	314.27	44.78
10.001 to 50.000	36	1128.95	13.34	4596.45	46.48
50.001 to 100.000	19	1342.50	15.86	4,862.87	41.35
Over 100.000	21	5,903.65	69.75	23,518.71	45.48
TOTAL	121	8,463.60	100.00	33,301.77	44.92

TABLE No. 2.1.18
Classification of Steam-Stations Capacitywise

Range of Installed Plant Capacity	No. of generating stations	Installed Plant capacity		Generation (m. kWh)	Average overall thermal efficiency %	Average Plant Load Factor %
		Group Total	Percentage of total			
1	2	3	4	5	6	7
Upto 1.000 MW	2	1.02	0.01			
1.001 to 10.000 MW	22	126.37	1.19	251.91	11.91	22.76
10.001 to 50.000 MW	26	540.20	5.11	1,812.17	15.52	38.29
50.001 to 100.000 MW	14	1,065.00	10.07	5,338.67	21.81	57.22
Above 100.000 MW	31	8,846.50	83.62	35,357.30	27.06	45.63
TOTAL	95	10,579.09	100.00	42,760.05	25.31	46.14

TABLE No. 2.1.19
Classification of Gas turbine stations capacitywise

Range of installed Plant capacity (MW)	No. of Generating Stations	Installed Plant capacity		Energy Generated by the Group (m.kWh)	Average Plant Load Factor %	Remarks
		Group Total (MW)	Percentage of total			
1	2	3	4	5	6	7
Upto 10.000	1	10.00	4.81			
10.001 to 50.000	2	32.50	15.62	2.92	1.03	
50.001 to 100.000	1	54.00	25.96	145.41	30.74	(Natural Gas Turbine).
Above 100.000	1	111.50	53.61	334.43	34.24	
TOTAL	5	208.00	100.00	482.76	26.49	

TABLE NO. 2.1.20
Classification of Steam stations efficiencywise

Overall Thermal efficiency	No. of generating stations	Aggregate installed capacity (MW)	Energy generated by the group (m. kWh)
1	2	3	4
Under 10%	19*	110.71	106.67
Above 10% & upto 15%	23	599.28	1,729.21
Above 15% & upto 20%	11	810.00	3,320.17
Above 20% & upto 25%	8	792.00	4,290.06
Above 25% & upto 30%	24	5,298.10	21,677.13
Above 30%	10	2,969.00	11,636.81
TOTAL	95	10,579.09	42,760.05

*—Includes 8 power stations having total aggregate capacity of 23.52 M. W. but having nil generations.

TABLE NO. 2.1.21
Classification of Sets Prime-Moverwise, Capacitywise

Range of Installed Capacity (M.W.)	Hydro			Steam			Gas			Nuclear		
	No.	Installed Capacity (MW)	% to Total	No.	Installed Capacity (MW)	% to Total	No.	Installed Capacity (MW)	% to Total	No.	Installed Capacity (MW)	% to Total
1	2	3	4	5	6	7	8	9	10	11	12	13
Under 1.000	89	27.40	0.32	18	13.67	0.13	..	..	..	..	..	..
1.001—5.000	49	161.10	1.90	94	326.72	3.09	..	..	..	..	..	..
5.001—10.000	57	471.80	5.57	31	244.35	2.31	3	30.00	14.42	..	..	..
10.001—20.000	72	1,042.15	12.32	37	577.25	5.46	2	25.00	12.02	..	..	..
20.001—30.000	30	718.25	8.49	29	870.00	8.22	6	153.00	73.56	..	..	..
30.001—50.000	44	1,835.00	21.68	28	1,350.60	12.77	..	..	..	..	..	..
50.001—1000.00	47	3,477.90	41.09	57	4,076.50	38.53	..	..	..	..	..	..
Above 100.000	6	730.00	8.63	25	3,120.00	29.49	..	..	..	3	640.00	100.00
TOTAL	394	8,463.60	100.00	319	10,579.09	100.00	11	208.00	100.00	3	640.00	100.00

TABLE No. 2.1-22
Classification of sets voltageswise

Sl. No.	No. of phase	Voltage of generation	Type of plant	No. of sets	Aggregate capacity (MW)
1	2	3	4	5	6
ALTERNATING					
CURRENT					
1.	3	33 KV		H ..	..
2.	3	10.5 to 13.8KV		S 10	330.00
				H 256	8,102.30
				S 210	9,649.70
			Gas	11	208.00
			A	3	640.00
3.	3	5 to 6.6 KV	H	42	267.80
			S	54	492.50
4.	3	2 to 3.9 KV	H	37	77.81
			S	38	104.22
5.	3	400 to 460 V	H	59	15.69
			S	4	2.40
DIRECT CURRENT					
7	3 Wire	V 400—500	H	..	..
			S	3	0.27
TOTAL					
			H	394	8 463.60
			S	319	10,579.09
			G	11	208.00
			A	3	640.00

Legend :

H—Hydro
S—Steam
G—Gas
A—Atomic

SECTION 2-2
INSTALLED CAPACITY AND GENERATION BY SELECTED INDUSTRIES

TABLE No. 2.2.1
Statewise Installed Generating Plant Capacity of Selected Industries in K. W. during the
year 1975-76

Sl. No.	Name of State/U. Ts.	Aluminium (P)	Aluminium (S)	Automobile	Cement (P)	Cement (S)
1	2	3	4	5	6	7
1.	Andhra Pradesh . . .	..	..	..	2,256	..
2.	Assam . . . . .	..	..	..	..	..
3.	Bihar . . . . .	..	..	..	32000	..
4.	Gujarat . . . . .	..	..	..	16,239	..
5.	Haryana . . . . .	..	..	992	1,200	1,078
6.	Karnataka	350	..	2,176	10,220	..
7.	Kerala . . . . .	..	3,810	..	..	55
8.	Madhya Pradesh . . . . .	..	..	..	17,655	..
9.	Maharashtra . . . . .	..	..	1,368	..	248
10.	Orissa . . . . .	..	210	..	120	790
11.	Punjab . . . . .	..	..	..	..	..
12.	Rajasthan . . . . .	..	..	..	30000	..
13.	Tamil Nadu . . . . .	..	..	..	825	704
14.	Uttar Pradesh	125000	..	..	567	..
15.	West Bengal	18450	294	1320	..	578
16.	Jammu & Kashmir . . . . .	..	..	..	..	..
	UNION TERRITORIES					
	(a) Delhi . . . . .	..	..	..	..	..
	(b) Others . . . . .	..	..	..	..	..
	TOTAL	143800	4314	5856	111082	3453

TABLE No. 2.2.1—(Contd.)

Chemicals	Collieries	Engineering (Elect.)	Fertilizer	Food Products	Heavy Engg.	I&S (P)	Sl. No.
8	9	10	11	12	13	14	
285	35,200	440	228	2,632	248	..	1.
453	1,363	..	1,750	238	..	..	2.
..	13,000	1,260	80,000	..	750	2,55,000	3.
43956	..	324	2,190	..	..	..	4.
464	..	972	..	120	..	..	5.
900	..	3,151	..	..	..	1,760	6.
1,338	..	..	1,7150	92	1,500	..	7.
..	4,600	3,100	..	..	..	36,000	8.
26,392	..	5039	500	3,955	5,952	..	9.
..	..	..	..	..	..	1,40,150	10.
644	..	..	545	867	..	..	11.
500	..	325	35,160	..	727	..	12.
5,408	..	1,064	1,502	416	2,149	..	13.
14,802	..	1,4018	..	471	845	..	14.
2,658	..	2,698	2,250	3,469	655	80,000	15.
..	..	..	..	..	..	..	16.
12,500	..	..	..	..	..	..	(a)
..	..	..	..	..	..	..	(b)
1,10,300	54,163	3,2391	1,41,275	12,260	12,826	5,12,910	TOTAL

TABLE NO. 2.2.1—(Contd.)

Sl. No.	Name of State/U.Ts.	I&S (\$)	Jute	Light Engg.	Mineral Oil & Petroleum	Mining & Quarrying	Misc
1	2	15	16	17	18	19	20
1	Andhra Pradesh	..	1,723	..	..	..	291
2	Assam	..	..	..	11,306	..	2,025
3	Bihar	600	2,500	..	24,000	150	875
4	Gujarat	190	..	440	24,000	200	..
5	Haryana	4,411	..	3,040	..	..	3,660
6	Karnataka	..	..	..	..	..	1,134
7	Kerala	..	..	128	..	..	540
8	Madhya Pradesh	..	..	..	..	..	280
9	Maharashtra	2,401	..	4,243	..	..	3,418
10	Orissa	..	..	..	..	..	..
11	Punjab	..	..	354	..	..	..
12	Rajasthan	..	..	2,335	..	..	..
13	Tamil Nadu	..	..	2,850	22,400	..	1,640
14	Uttar Pradesh	1,071	750	5,036	..	..	2,607
15	West Bengal	..	41,890	320	10,625	..	10,460
16	Jammu & Kashmir	..	..	266	..	..	..
UNION TERRITORIES							
	(a) Delhi	..	..	..	..	..	..
	(b) Others	..	..	..	..	1215	630
TOTAL		8,673	46,863	19,012	92,331	1,565	27,560

TABLE NO. 2.2.1—(Contd.)

Non-Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total	S. No.
21	22	23	24	25	26	27	1
..	36,480	2,970	..	34,202	7,726	124,681	1.
..	3,300	..	..	..	..	20,435	2.
6,350	..	..	..	18,033	..	434,518	3.
..	3,000	..	..	10,961	27,752	1,29,252	4.
..	9,750	..	1,140	4,558	13,123	44,508	5.
6,768	10,700	..	..	24,235	5,387	68,281	6.
..	180	..	..	4,805	11,596	39,694	7.
435	16,000	..	..	5,594	32,030	1,15,694	8.
..	8,068	280	963	86,595	55,906	2,05,328	9.
410	14,200	..	..	448	2,000	1,58,328	10.
9,290	..	..	..	5,984	6,892	15,286	11.
..	..	..	..	845	11,538	90,720	12.
..	5,000	..	1,311	28,881	46,456	1,20,606	13.
..	3,200	..	688	72,296	26,048	2,67,399	14.
..	28,850	..	1,160	950	3,686	2,10,313	15.
..	..	..	..	..	..	266	16.
..	..	..	..	..	7,000	19,500	Union Ts. (a)
..	..	..	..	2,443	1,797	6,085	(b)
23,253	1,38,728	3,250	5,262	3,00,830	2,58,937	20,70894	TOTAL

TABLE NO. 2.2.2
*Statewise Electricity Generated (Gross) in Million kWh in selected Industries during
the year 1975-76*

Sl. No.	Name of State/U. Ts	Aluminium (Primary)	Aluminium (Secondary)	Automobile
1	2	3	4	5
1	Andhra Pradesh	..	..	..
2	Assam	..	..	..
3	Bihar	..	..	..
4	Gujarat	..	..	..
5	Haryana	..	..	0.389
6	Jammu & Kashmir	..	..	..
7	Karnataka	..	..	1.080
8	Kerala	..	5.694	..
9	Madhya Pradesh	..	..	..
10	Maharashtra	..	..	2.348
11	Orissa	..	0.001	..
12	Punjab	..	..	..
13	Rajasthan	..	..	..
14	Tamil Nadu	..	..	..
15	Uttar Pradesh	932.911	..	..
16	West Bengal	..	0.017	..
17	Meghalaya	..	..	..
	UNION TERRITORIES :			
	(a) Delhi	..	..	..
	(b) Others	..	..	..
	TOTAL	932.911	5.712	3.817

TABLE NO. 2.2.2—(Contd.)

Cement (Primary)	Cement (Secondary)	Chemical	Collieries	Electrical Engineering	Fertilizer	Sl. No.
6	7	8	9	10	11	1
2.150	..	0.010	134.376	0.141	0.284	1.
..	..	..	0.028	..	0.182	2.
134.877	..	..	43.722	0.082	371.356	3.
68.595	..	130.001	..	0.003	0.005	4.
..	0.190	0.187	..	0.423	..	5.
..	..	..	..	..	..	6.
26.693	..	1.954	..	1.300	..	7.
..	0.001	0.033	..	..	75.106	8.
87.005	..	..	11.052	6.956	..	9.
..	0.245	36.947	..	6.085	0.001	10.
..	0.056	..	..	..	..	11.
..	..	..	..	..	..	12.
55.014	..	..	..	0.018	207.015	13.
1.139	0.726	15.389	..	0.361	0.416	14.
..	..	42.420	..	60.472	..	15.
..	0.108	1.802	..	0.820	3.244	16.
..	..	..	..	..	..	17.
..	..	95.866	..	..	..	<i>U.Ts.</i> (a)
..	..	..	..	..	..	(b)
375.473	1.326	324.609	819.178	76.661	657.609	TOTAL

TABLE NO. 2.2.2—(Contd.)

Sl. No.	Name of States/U. Ts	Food Product	Heavy Engineering	Iron & Steel (Primary)	Iron & Steel (Secondary)
1	2	12	13	14	15
1	Andhra Pradesh	1·649	0·042	..	..
2	Assam	0·075	..	..	..
3	Bihar . . . . .	..	..	890·498	..
4	Gujarat . . . . .	..	..	..	0·128
5	Haryana	0·002	..	..	0·349
6	Jammu & Kashmir . . . .	..	..	..	..
7	Karnataka . . . . .	..	0·501	0·006	..
8	Kerala	0·010	..	..	..
9	Madhya Pradesh . . . . .	..	..	213·529	..
10	Maharashtra	2·124	10·138	..	3·224
11	Orissa . . . . .	..	..	536·620	..
12	Punjab	0·683	..	..	..
13	Rajasthan . . . . .	..	0·626	..	..
14	Tamil Nadu	0·183	0·782	..	..
15	Uttar Pradesh	0·124	0·057	..	0·226
16	West Bengal	2·277	0·001	212·749	..
17	Meghalaya . . . . .	..	..	..	..
	UNION TERRITORIES				
	(a) Delhi . . . . .	..	..	..	..
	(b) Others . . . . .	..	..	..	..
	TOTAL	7·127	12·147	1853·402	3·927

TABLE NO. 2.2.2—(Contd.)

Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous	Non-Ferrous	Sl. No.
16	17	18	19	20	21	21
0.774	..	..	..	0.307	..	1.
..	..	47.669	..	0.823	..	2.
6.476	..	108.116	0.036	0.244	18.588	3.
..	0.010	164.601	0.045	..	..	4.
..	1.288	..	..	0.716	..	5.
..	0.003	..	..	..	..	6.
..	..	..	..	0.176	0.023	7.
..	0.001	..	..	0.034	..	8.
..	..	..	..	0.007	0.064	9.
..	4.134	..	..	1.962	..	10.
..	..	..	..	..	0.003	11.
..	0.153	..	..	..	..	12.
..	0.094	..	..	..	0.905	13.
..	1.707	112.998	..	1.361	..	14.
0.010	0.117	..	..	3.808	..	15.
62.589	0.077	35.966	..	2.922	..	16.
..	..	..	..	..	..	17.
..	..	..	..	..	..	<i>Union Ts.</i>
..	..	..	0.121	0.056	..	(a)
..	..	..	..	..	..	(b)
69.843	7.584	469.350	0.202	12.416	19.583	TOTAL

TABLE No. 2.2.2—(Contd.)

Sl N.	Name of States/U. Ts	Paper	Plastics	Rubber	Sugar	Textile	Total
1	2	22	23	24	25	26	27
1.	Andhra Pradesh	126·441	5·044	..	59·111	16·414	346·743
2.	Assam	1·902	..	..	..	..	50·679
3.	Bihar . . . . .	..	..	..	11·550	..	1585·539
4.	Gujarat	17·394	..	..	12·797	69·275	462·854
5.	Haryana	63·943	..	..	8·987	5·045	81·519
6.	Jammu & Kashmir. . . . .	..	..	..	..	..	0·003
7.	Karnataka	38·102	..	..	36·919	12·296	119·050
8.	Kerala	0·012	..	..	5·294	39·030	125·215
9.	Madhya Pradesh	94·075	..	..	9·058	121·590	543·336
10.	Maharashtra	6·741	0·885	0·344	176·945	145·129	397·252
11.	Orissa	74·844	..	..	0·409	13·535	625·468
12.	Punjab . . . . .	..	..	..	12·092	2·939	15·867
13.	Rajasthan . . . . .	..	..	..	0·881	2·329	266·882
14.	Tamil Nadu	12·443	..	0·366	52·081	79·431	279·373
15.	Uttar Pradesh	14·600	..	..	115·468	18·673	1188·886
16.	West Bengal	94·530	..	0·079	0·893	2·725	420·799
17.	Meghalaya . . . . .	..	..	..	..	..	..
	UNION TERRITORIES						
	(a) Delhi . . . . .	..	..	..	..	45·371	141·237
	(b) Others . . . . .	..	..	..	5·130	1·103	6·410
	TOTAL	545·027	5·929	0·789	507·615	574·885	6,657·122

TABLE NO. 2.2.3
Distribution of Energy Generation in Industrial Establishments according to the Range of Installed Plant Capacity

Sl. No.	Range of Installed Capacity (kW)	No. of Industrial establishment	Aggregate Installed capacity	Percentage to total	Energy generated by the group (m. kWh)	Percentage to total energy generated
1	2	3	4	5	6	7
1.	1—1000	454	192·069	9·28	157·583	2·37
2.	1001—10000	249	715·345	34·54	1509·075	22·67
3.	10001—25000	28	409·680	19·78	1603·618	24·09
4.	25001 & above	9	753·800	36·40	3386·846	50·87
	TOTAL	740	2070·894	100·00	6657·122	100·00

TABLE No. 2.2.4
Zonewise Installed plant capacity and energy generated by the Indian Railways during the year 1975-76.

Sl. No.	Name of Railways	Installed Capacity (K.W.)			Maximum Demand (KVA)	Energy Generated (m. kwh)			Energy used in Auxiliaries
		Steam	Diesel	Total		Steam	Diesel	Total	
1	2	3	4	5	6	7	8	9	10
1.	Central Railway	2,290	3,305	5,596	900	—	0·116	0·116	—
2.	Eastern Railway	6,300	—	6,300	2,700	11·176	—	11·176	1·041
3.	Northern Railway	3,100	7,296	10,396	5,678	4·531	1·234	5·765	0·458
4.	North Eastern Railway	3,000	2,740	5,740	5,685	0·012	0·368	0·380	—
5.	North East Frontier Railway	—	9,837	9,837	6,937	—	7·044	7·044	—
6.	Southern Railway	—	316	316	92	—	0·019	0·019	—
7.	South Central Railway	—	2,854	2,854	5,488	—	0·861	0·861	0·008
8.	South Eastern Railway	7,160	—	7,160	2,125	4·510	—	4·510	—
9.	Western Railway	7,800	4,629	12,429	4,200	7·188	1·120	8·308	0·706
	TOTAL	29,650	30,977	60,627	33,805	27·417	10·762	38·179	2·213

NOTE:—This does not include Chola power station having capacity of 96 MW in Central Railway.

TABLE NO. 2·2·5

Statewise installed plant capacity and energy generated by the Indian Railways during the year 1975-76

Sl. No.	Name of State/U.T.	Installed Plant Capacity (KW)			Maximum Demand (KVA)	Energy Generated (m. kwh)			Energy consumed in Aux. (m. kwh)
		Steam	Diesel	Total		Steam	Diesel	Total	
1	2	3	4	5	6	7	8	9	10
1.	Andhra Pradesh	—	1,032	1,032	2,089	—	0·151	0·151	0·002
2.	Assam	—	5,763	5,763	4,396	—	3·815	3·815	—
3.	Bihar	6,300	1,570	7,870	4,630	11·176	0·636	11·812	1·041
4.	Gujarat	3,300	1,928	5,228	1,722	6·106	0·166	6·272	0·490
5.	Haryana	—	886	886	384	—	0·097	0·097	0·002
6.	Jammu & Kashmir	—	—	—	—	—	—	—	—
7.	Karnataka	—	1,362	1,362	1,753	—	0·443	0·443	0·004
8.	Kerala	—	71	71	55	—	0·005	0·005	—
9.	Madhya Pradesh	—	1,305	1,305	405	—	0·077	0·077	0·003
10.	Maharashtra	2,290	1,241	3,531	1,464	—	0·273	0·273	0·003
11.	Nagaland	—	100	100	45	—	0·009	0·009	—
12.	Orissa	—	—	—	—	—	—	—	—
13.	Punjab	—	1,388	1,388	1,065	—	0·193	0·193	0·004
14.	Rajasthan	4,500	5,084	9,584	4,398	1·083	1·633	2·716	0·209
15.	Tamil Nadu	—	274	274	210	—	0·008	0·008	—
16.	Tripura	—	10	10	8	—	0·002	0·002	—
17.	Uttar Pradesh	6,100	4,933	11,033	6,397	4·542	0·365	4·907	0·455
18.	West Bengal	7,160	3,533	10,693	3,859	4·510	2·864	7·374	—
19.	UNION TERRITORIES	—	—	—	—	—	—	—	—
	(a) Delhi	—	497	497	25	—	0·025	0·025	Neg.
	(b) Others	—	—	—	—	—	—	—	—
	TOTAL	29,650	30,977	60,627	32,905	27·417	10·762	38·179	2·213

TECHNICALS STATISTICS
SECTION—3
TRANSMISSION AND DISTRIBUTION LINES AND TRANSFORMERS AS ON
31-3-1976 UTILITIES ONLY

TRANSMISSION AND DISTRIBUTION LINES

A comprehensive network of transmission and distribution lines forms the core of an efficient electricity system. Energy generated in various generating stations is made available to the consumers through an extensive system of transmission and distribution network. Transmission of bulk power is done at extra high voltage (i.e. above 33 kV) to keep the transmission losses to the minimum. The highest transmission voltage in service continued to be 230 kV which operates in Tamil Nadu. Other standard voltages in vogue were 220 kV, 132 kV, 110 kV and 66 kV. The standard voltages for distribution were 33 kV, 22 kV, 11 kV and 400/230V. The voltage at which power was supplied to the consumers varied from 230 Volts, (in case of domestic or commercial consumers) to 220 kV (for very large industrial consumers) depending upon the quantum of consumption of energy.

As on 31-3-1976 the country had a network of 1718942 circuit kms. of transmission and distribution lines as compared to 1621848 circuit kms. for the previous year registering an overall increase of 5.99%. Tamil Nadu State had the largest network with 279015 circuit kms. of transmission and distribution lines. The other States having more than 100000 kms. of lines were Maharashtra, Andhra Pradesh, Karnataka, Madhya Pradesh & Uttar Pradesh. Three States viz. Karnataka, Maharashtra and Tamil Nadu had more than 100000 km. of medium voltage lines. As regards the 11 kV lines U.P. State had the largest network with more than 92000 km. The other States which had extensive 11 kV systems were Karnataka, Andhra Pradesh and Maharashtra. The following table gives the length in different voltages with increase over the previous year:—

Line voltage	Length of lines (circuit kms.)		% Increase over the previous year
	1974-75	1975-76	
1	2	3	4
230/220 kV	18,054	20,651	14.38
132/110 kV	46,755	48,136	2.95
78/66 kV	24,731	24,976	0.99
44/33/22 kV	127,069	130,369	2.60
11/6.6 kV	510,038	536,516	5.19
3.3/2.2 kV	2,483	2,496	0.52
Upto 500 volts	892,718	955,798	7.07
TOTAL	1,621,848	1,718,942	5.99

From the above table it can be seen that there was a 14.38% increase in length of 220/230 kV lines and 7.07% in the distribution lines over the previous year.

The densities of transmission lines of 66 kV and above and distribution lines of 500 volts and below were 0.029 and 0.27 kms. per sq. km. respectively.

Under ground cables are normally used in congested parts of large cities. The total length of U.G. system during the year was 11809 kms. as compared to 11065 kms. during the previous year.

TRANSFORMERS:—

There were 1180 stepup transformers with an aggregate capacity of 26031.15 MVA corresponding to 1.29 kVA per kW of the installed capacity, 8282 stepdown transformers with a total capacity of 56427.14 MVA corresponding to 2.80 kVA per kW of installed capacity. The distribution transformers existing in the country were 367547 with an aggregate capacity of 27724.28 MVA corresponding to 1.38 kVA per kW of installed capacity.

Maharashtra State had the highest transformation capacity of 16157.23 MVA in the country.

TABLE No. 3·1·1

Statewise length of Transmission lines and Distribution Lines of utilities as on 31-3-1976 (Circuit kms.)

Sl. No.	State/Power Corporation	Distribution lines upto 500 V.	3·3/2·2 kV		6·6/5 V		15/11 kV		22/20 kV	
			O.H.	U.G.	O.H.	U.G.	O.H.	U.G.	O.H.	U.G.
1	2	3	4	5	6	7	8	9	10	11
1.	Andhra Pradesh	72,469	—	—	—	—	46,274	—	—	—
2.	Assam	3,389	—	—	—	—	5,374	—	—	—
3.	Bihar	42,486	@	@	@	@	32,448@	—	—	—
4.	Gujarat	46,725	123	147	5	1	32,303	855	6,584	—
5.	Haryana	48,731	—	—	—	—	31,034	—	—	—
6.	Himachal Pradesh 'E'	9,030	—	—	—	—	4,074	398	1,535	—
7.	Jammu & Kashmir 'E'	6,895	—	—	—	—	3,850	—	—	—
8.	Karnataka	117,571	1,424	52	—	—	51,990	272	—	—
9.	Kerala	29,852	151	—	3	—	10,203	31	160 'R'	—
10.	Madhya Pradesh	61,107	69	—	—	—	35,590	—	—	—
11.	Maharashtra	107,304	22	11	70	941	47,834	902	8,521	492
12.	Manipur 'E'	805	—	—	—	—	500	—	—	—
13.	Meghalaya	1,744	40	2	—	—	685	—	—	—
14.	Nagaland	718	—	—	—	—	579	—	—	—
15.	Orissa	12,406	—	—	—	—	14,722	84	—	—
16.	Punjab*	41,210	—	—	—	—	24,461	42	—	—
17.	Rajasthan	36,878	39	—	63	—	24,824	—	—	—
18.	Tamil Nadu	207,438	—	—	27	53	39,870	679	17,472	—
19.	Tripura	280	—	—	—	—	517	—	—	—
20.	Uttar Pradesh 'E'	76,490	173	136	135	427	92,202	1,340	—	—
21.	West Bengal	18,435	39	63	390	1,913	23,135	309	—	56
22.	D.V.C.	—	—	—	—	—	—	—	—	—
UNION TERRITORIES										
(a)	A & N Islands	185	—	—	—	—	94	—	—	—
(b)	Arunachal Pradesh 'E'	199	—	—	—	—	34	—	—	—
(c)	Chandigarh	652	—	—	—	—	334	—	—	—
(d)	D & N Haveli 'E'	56	—	—	—	—	74	—	—	—
(e)	Delhi	8,984	—	—	39	155	1,579	1,534	—	—
(f)	Goa, Daman & Diu	1,716	—	—	—	—	1,070	—	—	—
(g)	Lakshadweep 'E'	81	5	—	—	—	—	—	—	—
(h)	Pondicherry	1,962	—	—	—	—	109	—	347	—
(i)	Mizoram 'B'	—	—	—	—	—	—	—	—	—
TOTAL (ALL INDIA)		955,798	2,085	411	817	3,490	525,763	6,446	34,619	548

TABLE NO. 3·1·1 (Contd.)

Sl. No.	State/Power Corporation	33 kV		44/37·5kV	78/66kV	110/90 kV	132kV	220kV	230 kV	Total circuit kms.
		O.H.	U.G.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	
1	2	12	13	14	15	16	17	18	19	20
1.	Andhra Pradesh	7,544	—	—	2,888	—	3,760	1,514	—	134,449
2.	Assam	2,865	—	—	401	—	546	93	—	12,668
3.	Bihar	8,492	—	—	—	—	2,666	683	—	86,775
4.	Gujarat	3,584	—	—	4,471	—	2,829	1,536	—	99,163
5.	Haryana	2,602	—	—	813	—	935	112	—	84,227
6.	Himachal Pradesh 'E'	873	—	—	87	—	17	—	—	16,014
7.	Jammu & Kashmir	605	—	—	264	—	370	—	—	12,069
8.	Karnataka	2,776	—	—	2,880	3,969	—	2,698	—	183,632
9.	Kerala	—	—	—	1,728	1,352	—	454	—	43,934
10.	Madhya Pradesh	14,299	—	—	362	—	4,453	1,783	—	117,663
11.	Maharashtra	7,362	—	—	2,461	2,590	2,970	1,494	—	182,974
12.	Manipur 'E'	200	—	—	—	—	—	—	—	1,505
13.	Meghalaya	583	—	—	—	—	271	—	—	3,325
14.	Nagaland	689	—	—	20	—	—	—	—	2,006
15.	Orissa	5,164	—	—	341	—	1,450	1,848	—	36,015
16.	Punjab	2,378	—	—	1,189	—	1,861	2,422	—	73,563
17.	Rajasthan	9,561	—	—	414	—	2,825	1,082	—	75,686
18.	Tamil Nadu	2,791	80	—	3,248	5,678	—	—	1,679	279,015
19.	Tripura	235	—	—	97	—	148	—	—	1,277
20.	Uttar Pradesh 'E'	14,124	80	2,906	2,790	—	4,851	2,399	—	198,053
21.	West Bengal	3,440	494	—	495	—	1,843	700	—	51,312
22.	D.V.C.	487	—	—	—	—	2,660	—	—	3,147
UNION TERRITORIES										
	(a) A & N Islands	—	—	—	—	—	—	—	—	279
	(b) Arunachal Pradesh 'E'	112	—	—	27	—	—	—	—	372
	(c) Chandigarh	19	—	—	—	—	—	—	—	1,005
	(d) D. & N. Haveli 'E'	—	—	—	—	—	—	—	—	130
	(e) Delhi	277	260	—	—	—	—	154	—	12,982
	(f) Goa, Daman & Diu	320	—	—	—	68	—	—	—	3,174
	(g) Lakshadweep 'E'	—	—	—	—	—	—	—	—	86
	(h) Pondicherry	—	—	—	—	24	—	—	—	2,442
	(i) Mizoram 'B'	—	—	—	—	—	—	—	—	N.A.
TOTAL (ALL INDIA)		91,382	914	2,906	24,976	13,681	34,455	18,972	1,679	1,718,942

NOTE:—

*Includes transmission lines controlled by B.M.B.

@2·2/3·3 kV and 6·6/5 kV length of line has been included in 15/11 kV category.

E—Data estimated in respect of distribution lines and the rest has been repeated.

B—Data for Mizoram is not available.

(R)—Data repeated.

TABLE NO. 3·1·2

Statewise length of Transmission and distribution lines added during 1975-76 circuit kilometers (net Additions)

Sl. No.	State/Power Corporation	Distribution lines upto 500 V.	3·3/2·2 kV		6·6/5 kV		15/11 KV		22/20 kV	
			O.H.	U.G.	O.H.	U.G.	O.H.	U.G.	O.H.	U.G.
1	2	3	4	5	6	7	8	9	10	11
1.	Andhra Pradesh	2,991	—	—	—	—	2,100	—	—	—
2.	Assam	(—)1,567	(—)4	—	(—)40	(—)2	(—)66	—	—	—
3.	Bihar	1,984	(—)32	(—)7	(—)55	(—)5	3,211	(—)47	—	—
4.	Gujarat	3,377	2	—	(—)1	1	1,696	590	1,010	—
5.	Haryana	1,740	—	—	—	—	1,151	—	—	—
6.	Himachal Pradesh	454	—	—	—	—	300	—	—	—
7.	Jammu & Kashmir	350	—	—	—	—	400	—	—	—
8.	Karnataka	4,835	37	—	—	—	1,812	6	—	—
9.	Kerala	2,435	116	—	—	—	288	9	—	—
10.	Madhya Pradesh	6,290	(—)52	(—)43	(—)28	—	3,311	(—)40	—	—
11.	Maharashtra	14,879	(—)9	9	4	7	(—)731	45	182	—
12.	Manipur	70	—	—	—	—	—	—	—	—
13.	Meghalaya	1,744	40	2	—	—	685	—	—	—
14.	Nagaland	(—)38	—	—	—	—	106	—	—	—
15.	Orissa	954	(—)30	—	—	—	872	12	—	—
16.	Punjab	2,606	—	—	—	—	1,831	—	—	—
17.	Rajasthan	3,033	—	—	—	—	2,312	(—)89	—	—
18.	Tamil Nadu	7,795	—	—	24	—	841	10	1,052	—
19.	Tripura	10	—	—	—	—	17	—	—	—
20.	Uttar Pradesh	6,323	—	(—)2	—	—	3,000	—	—	—
21.	West Bengal	1,945	(—)6	—	11	42	2,485	23	—	6
22.	D.V.C.	—	—	—	—	—	—	—	—	—
UNION TERRITORIES :										
(a)	A. & N. Islands	(—)3	—	—	(—)43	—	94	—	—	—
(b)	Arunachal Pradesh	18	—	—	—	—	2	—	—	—
(c)	Chandigarh	151	—	—	—	—	32	—	—	—
(d)	D. & N. Haveli	—	—	—	—	—	—	—	—	—
(e)	Delhi	465	—	—	—	—	9	197	—	—
(f)	Goa Daman & Diu	171	—	—	—	—	81	—	—	—
(g)	Lakshadweep	2	—	—	—	—	—	—	—	—
(h)	Mizoram	—	—	—	—	—	—	—	—	—
(i)	Pondicherry	66	(—)8	—	—	—	8	—	12	—
TOTAL (ALL INDIA)		63,080	54	41(—)	(—)128	43	25,847	716	2,256	6

N.B.—In some cases, the sum of the last years' figures and the lengths added during the year may not tally with the figures given in Table No. 3·1·1 because of improper reporting.

(A) Reduction is because of Bifurcation of Assam.

(B) Net addition in Bihar during the year was 901 kms but the negative figure is because of wrong reporting in the previous year.

(C) Net addition was 78 kms but the negative figure is because of wrong reporting in the previous year.

TABLE NO. 3·1·2—(contd.)

Sl. No.	State/Power Corporation	33kV		44/37·5 kV	78/66 kV	110/90 kV	130 kV	220 kV	230 kV	Total
		U.G.	O.H.	O.H.	O.H.	O.H.	O.H.	O.H.	O. H.	
1	2	12	13	14	15	16	17	18	19	20
1.	Andhra Pradesh	484	—	—	(—)60	—	32	124	—	5,671
2.	Assam	(—)342(A)	—	—	(—)1	—	(—)135	—	—	(—)2,157
3.	Bihar	(—)1,949@	—	—	—	—	231	—	—	3,331
4.	Gujarat	(—)45	—	—	246	—	159	104	—	7,139
5.	Haryana	13	—	—	—	—	1	112	—	3,017
6.	Himachal Pradesh	—	—	—	—	—	—	—	—	754
7.	Jammu & Kashmir	—	—	—	—	—	—	—	—	750
8.	Karnataka	47	—	—	74	350	—	317	—	7,478
9.	Kerala	—	—	—	17	2	—	138	—	3,005
10.	Madhya Pradesh	1,039	—	(—)6	40	—	(—)48	312	—	10,775
11.	Maharashtra	1,180	—	—	16	9	—	(—)1	—	15,600
12.	Manipur	—	—	—	—	—	—	—	—	70
13.	Meghalaya	583	—	—	—	—	271	—	—	3,325
14.	Nagaland	135	—	—	—	—	—	—	—	203
15.	Orissa	(—)268	—	—	1	—	(—)131	642	—	2,052
16.	Punjab	(—)667*	—	—	—	—	67	150	—	3,987
17.	Rajasthan	430	—	—	(—)1	—	333	163	—	6,181
18.	Tamil Nadu	91	—	—	13	46	—	—	—	9,872
19.	Tripura	—	—	—	97	—	—	—	—	124
20.	Uttar Pradesh	—	—	—	—	—	—	—	—	9,323
21.	West Bengal	264	—	—	(—)129	—	102	434	—	5,165
22.	D.V.C.	—	—	—	—	—	—	—	—	—
UNION TERRITORIES										
	(a) A. & N. Islands	—	—	—	—	—	—	—	—	48
	(b) Arunachal Pradesh	—	—	—	—	—	—	—	—	20
	(c) Chandigarh	—	—	—	—	—	—	—	—	183
	(d) D. & N. Haveli	—	—	—	—	—	—	—	—	—
	(e) Delhi	29	20	—	—	—	—	102	—	822
	(f) Goa Daman & Diu	—	—	—	(—)68	68	—	—	—	252
	(g) Lakshadweep	—	—	—	—	—	—	—	—	2
	(h) Mizoram	—	—	—	—	—	—	—	—	—
	(i) Pondicherry	—	—	—	—	24	—	—	—	102
TOTAL (ALL-INDIA).		1,024	20	(—)6	245	499	882	2,597	—	97,094

TABLE No. 3-1-3

Number of Transformers and Aggregate Capacity

(As on 31-3-1976)

Sl. No.	State/U.Ts	STEP-UP TRANSFORMERS	
		No.	Aggregate capacity (kVA)
1	2	3	4
1.	Andhra Pradesh	55	1,414,730
2.	Assam	32	252,307
3.	Bihar	43	836,875
4.	Gujarat	60	1,584,370
5.	Haryana	8	186,000
6.	Himachal Pradesh	33	68,620
7.	Jammu & Kashmir (E)	53	221,840
8.	Karnataka	75	1,216,800
9.	Kerala	48	922,160
10.	Madhya Pradesh	50	976,636
11.	Maharashtra (E)	138	4,118,875
12.	Manipur (E)	15	8,650
13.	Meghalaya	10	79,650
14.	Nagaland (E)	4	1,250
15.	Orissa	36	1,169,900
16.	Punjab	52	3,282,500
17.	Rajasthan	45	612,887
18.	Tamil Nadu	111	3,202,000
19.	Tripura	9	3,700
20.	Uttar Pradesh (E)	125	2,117,360
21.	West Bengal	118	1,114,720
22.	D.V.C.	19	1,670,000
UNION TERRITORIES			
a.	A. & N. Islands	10	5,890
b.	Arunachal Pradesh (E)	9	1,825
c.	Chandigarh	3	1,550
d.	D. & N. Haveli (E)	—	—
e.	Delhi	18	960,000
f.	Goa, Daman & Diu	—	—
g.	Lakshadweep (E)	1	50
h.	Pondicherry	—	—
i.	Mizoram	—	—
		DATA	NOT AVAILABLE
TOTAL		1,180	26,031,145

TABLE No. 3·1·3. (Contd.)

Step-down Transformers		Distribution Transformers		Sl. No.	State/U.T.s.
No.	Aggregate capacity (kVA)	No.	Aggregate capacity (kVA)		
5	6	7	8	1	2
727	4,039,510	24,927	1,733,273	1.	Andhra Pradesh
194	431,852	2,751	374,233	2.	Assam
450	2,169,910	16,483	1,130,924	3.	Bihar
493	5,306,250	27,537	2,327,602	4.	Gujarat
273	1,484,200	22,969	1,695,900	5.	Haryana
93	145,020	2,182	132,683	6.	Himachal Pradesh
56	220,350	2,071	245,970	7.	Jammu & Kashmir (E)
368	3,332,070	28,765	1,838,386	8.	Karnataka
153	1,351,750	9,188	649,075	9.	Kerala
634	2,701,420	17,224	1,370,032	10.	Madhya Pradesh
940	8,173,062	32,034	3,865,296	11.	Maharashtra (E)
—	—	152	9,880	12.	Manipur (E)
25	64,500	266	27,709	13.	Meghalaya
19	13,500	204	18,799	14.	Nagaland (E)
219	1,160,900	7,328	643,370	15.	Orissa
322	4,736,770	21,051	1,600,054	16.	Punjab
623	2,025,710	13,603	1,173,654	17.	Rajasthan
683	5,098,860	36,568	3,245,600	18.	Tamil Nadu
4	5,000	205	16,795	19.	Tripura
1,336	7,648,340	86,081	3,746,510	20.	Uttar Pradesh (E)
491	3,483,260	12,083	868,640	21.	West Bengal
68	1,725,830	—	—	22.	D.V.C.
—	—	—	—		UNION TERRITORIES
—	—	37	3,375	a.	A & N. Islands
15	2,580	24	2,200	b.	Arunachal Pradesh (E)
4	24,000	313	84,030	c.	Chandigarh
—	—	22	1,450	d.	D. & N. Havel (E)
75	960,500	2,342	822,077	e.	Delhi
17	122,000	654	48,418	f.	Goa, Daman & Diu
—	—	2	50	g.	Lakshadweep (E)
—	—	481	48,300	h.	Pondicherry
—	—	—	—	i.	Mizoram
DATA	NOT	AVAILABLE			
8,282	56,427,144	367,547	2,77,24,285		TOTAL

N.B.—In case of some States, the figures are reduced due to wrong reporting in previous year.

E—Partially estimated.

TABLE No. 3.1.4

E.H.T. Transformers Commissioned During the year 1975-76 (Utilities)

Sl. No.	State/Power Corporation	Voltage ratio	Unit Capacity	No.	Aggregate capacity (MVA)
		(kV)	(MVA)		
1	2	3	4	5	6
1.	ANDHRA PRADESH				
	Andhra Pradesh State Electricity Board	132/33-11	15.00	3	45.00
		132/11	7.50	1	7.50
		132/66-33	7.50	1	7.50
		11/220	125.00	1	125.00
2.	GUJARAT				
	Gujarat Electricity Board	220/132/11	100.00	1	100.00
		220/	115.00	2	230.00
		220/132	35.00	2	70.00
		220/132	50.00	2	100.00
		132/66	40.00	2	80.00
		132/66	20.00	1	20.00
		66/22	10.00	2	20.00
		66/11	15.00	3	45.00
		66/11	10.00	16	160.00
		66/11	5.00	1	5.00
	The Ahmedabad Electricity Co. Ltd.	132/66	50.00	1	50.00
		66/11	12.50	3	37.50
3.	HARYANA				
	Haryana State Electricity Board	66/33/11	8.00	1	8.00
		132/33/11	16.00	1	16.00
		132/33/11	12.50	1	12.50
		132/33	20.00	1	20.00
		132/33	8.00	2	16.00
		132/33	12.50	1	12.50
		11/220	75.00	1	75.00
4.	KARNATAKA				
	Earnataka State Kectricity Board	11/220	99.00	1	99.00
		110/33/11	10.00	2	20.00
		66/13.2/11	5.00	3	15.00
		66/11	10.00	3	30.00
		66/11	5.00	1	5.00
5.	KERALA				
	Kerala State Electricity Board	110/66	40.00	1	40.00
		66/11	8.00	6	48.00
6.	MADHYA PRADESH				
	Madhya Pradesh State Electricity Board	13.8/230	130.00	1	130.00
		230/6.6	20.00	1	20.00
		132/33	20.00	9	180.00
		132/33	12.5	7	87.50
7.	MAHARASHTRA				
	Maharashtra State Electricity Board	13.8/220	150.00	1	150.00
		11/220	30.00	9	270.00
8.	ORISSA				
	Irrigation & Power Deptt. Balimela Generation Division	11/220	70.00	1	70.00

TABLE NO. 3.1.4 (Contd.)

1	2	3	4	5	6
9.	PUNJAB				
	Punjab State Electricity Board	11/132 220/132 132/33/11 132/66/33 66/11	125.00 100.00 20.00 50.00 20.00	1 1 2 1 1	125.00 100.00 40.00 50.00 20.00
10.	TAMIL NADU				
	Tamil Nadu State Electricity Board	11/230 110/33 110/33 110/22/11 110/22/11 110/66 110/66	42.00 25.00 10.00 25.00 10.00 12.00 25.00	3 2 3 1 2 1 1	126.00 50.00 30.00 25.00 20.00 12.00 25.00
11.	WEST BENGAL				
	West Bengal State Electricity Board	13.8/220 132/66 132/33 132/25	130.00 10.00 12.50 12.50	1 2 3 1	130.00 20.00 37.50 12.50
	Calcutta Electricity Supply Corpn.	132/33 33/6	50.00 16.00	1 1	50.00 16.00
12.	DELHI				
	Delhi Electricity Supply Undertaking	220/66/33/11	50.00	2	100.00

TECHNICAL STATISTICS
SECTION 4
UTILISATION
SUB-SECTION--41--UTILITIES
SUB-SECTION--42--SELECTED INDUSTRIES

4. Utilisation:—

4.1 Sectorwise utilisation:—

Out of 79230.92 million kWh generated during the year 4555.81 million kWh was consumed by the station auxiliaries (representing 5.7%). The net energy availability from the plants of the utilities was 74675.11 million kWh and this was augmented by a purchase of 115.77 million kWh from captive power plants and an import of 5.94 million kWh from Nepal. Thus the total energy available for supply was 74796.82 million kWh as compared to 66199.18 million kWh during the previous year. The transmission and distribution losses and energy unaccounted for other reasons such as theft of energy, defective metering etc. summed upto 14526.52 million kWh or 19.42% of total energy available. Thus there was a significant reduction in the percentage losses as compared to the previous year's figure of 20.48%. This reduction may be attributed to system improvements and other administrative methods adopted by State Electricity Boards. There was reduction in the % losses in all the States except Haryana, Kerala, Maharashtra, Nagaland, Orissa, Uttar Pradesh, and Delhi as compared to the previous year. Table 4.1.11 shows the system losses for the various States and Union Territories.

In spite of higher generation power restrictions were prevailing in some pockets of the country. In the application of the power cuts the general approach was to exempt or impose minimum cuts on the agricultural sector and other essential services such as hospitals, All India Radio etc. The total energy sold to ultimate consumers by the utilities within the country during the year was 60245.81 million kWh showing an increase of 14.47% over the previous year. Besides this 24.49 million kWh were exported to Nepal and Bhutan and this was more than double of previous year's figures.

Bulk of the energy sold, as in previous years, was by the State Electricity Boards and their share was 72.47% and the balance 27.53% was sold by private licensees, municipalities, Government departments and corporations etc. The details of energy sales by various agencies are shown below:—

Sl. No.	Ownership	Energy sold to ultimate consumers (million kwh)	% to total	Increase over previous year
1	2	3	4	5
1.	State Electricity Boards	43,656.14	72.47	17.94
2.	Govt. depts. & undertaking including D.V.C.	4,180.49	6.93	36.05
3.	Municipalities (including DESU)	3,024.10	5.02	1.57
4.	Private licensees	9,385.17	15.58	(-)-1.88
	TOTAL	60,245.81	100.00	14.47

Details of sales to different classes of consumers by these agencies are available in table 4.1.3.

4.2. Pattern of energy utilisation:—

During the year, 1.02 million additional consumers were provided with the electricity bringing the total number to 21.81 million as on 31-3-1976 showing an increase of 4.91% over the previous year. The number of consumers added this year was, however, less than the number for the previous year which was 1.37 million. The total connected load rose to 42572.42 MW registering an increase of 8.37% over the last year. The consumption of energy is reported in seven categories viz. domestic, commercial, industrial, public lighting, traction, agricultural, public water works sewage pumping and the consumption that is not covered by these included in the miscellaneous category. The following table gives the trend and pattern of sales under each category:—

Category	Consumers* (thousands)	Connected* load (MW)	Energy sold million kWh	% to total sales	% increase over previous year
1	2	3	4	5	6
Domestic	14,883	8,932	5,821.35	9.66	12.54
Commercial	3,234	3,398	3,506.76	5.82	13.80
Industrial	800	17,164	37,568.12	62.36	14.92
Public lighting	118	272	577.64	0.96	(-)-0.36
Railways (Traction)	0.043	626	1,855.32	3.08	21.17
Agricultural	2,742	11,153	8,721.06	14.48	12.35
Public water works & sewage pumping	22	529	1,327.45	2.20	8.18
Miscellaneous	13	498	868.11	1.44	48.05
TOTAL	21,812	42,572	60,245.81	100.00	14.47

*Figures may not tally due to rounding off.

The above table reveals that the industrial sector continued to be the major purchasers of electricity with 62.36% of the total energy consumed showing an increase of 14.92% over the previous year. The agriculture comes next with 14.48% and the % increase over the previous year is 12.35%. The reduction in consumption of the Public lighting category was due to 38 million kWh decrease in the consumption of Union Territory of Delhi.

The details of statewise energy consumption by different types of consumers are given in table 4.1.4 and the details of consumers under various categories and connected load are given in table 4.1.14.

4.3 Rural Electrification:—

For the economic upliftment of the rural sector availability of electricity is one of the important requisites and it is the policy of the State Govt. & central government to extend electricity rapidly to the rural areas. The number of villages electrified during the year came to 12,273, bringing the total number of villages electrified to 185,806 which is 32.26% of the 575,936 registered villages in the country. All but 4 towns have been enjoying the benefits of electricity. In the States and the Union Territories of Haryana, Pondicherry, Delhi and Chandigarh 100% village electrification has been achieved and the States of Tamil Nadu & Kerala are very near the target of 100% electrification with 98.56% and 94.79% respectively. However, States of Assam, Bihar, Madhya Pradesh, Manipur, Meghalaya, Nagaland, Orissa, Rajasthan, Sikkim, Tripura, Uttar Pradesh, West Bengal and Union Territories of A & N Islands, Arunachal Pradesh and Mizoram were still below the all India average of 32.26%. Though the percentage of electrified villages was 32.26%, the rural population benefitted by the availability of electricity was 54.40%. Fourteen States and Union Territories were above the all India average of 54.40%. Tables 4.1.16 and 4.1.17 give the details of the number of towns and villages electrified and rural population benefitted as on 31-3-76.

4.4 Irrigation pumpsets:—

During the period under report 172,243 irrigation pumpsets were energised bringing the total number of pumpsets energised as on 31-3-76 in the country to 278,587. The average capacity of the pumpset was 5.43 HP and the average annual consumption was 31,30.46 kWh. Table no. 4.1.18 gives the Statewise details of the pumpsets energised as on 31.3.1976.

4.5 Industries:—

Industrial sector continued to be the largest consumer of electricity. The purchase by this sector rose to 37,568.12 million kWh, as compared to 32,690.28 million kWh during the last year. In addition, their own captive plants provided 6,657.12 million kWh out of which 115.77 million kWh were sold to public utilities. There were 14,804 high voltage consumers and their purchase represented 86.07% of total energy received from the utility sector. The remaining 13.93% was consumed by small industries at medium and low voltage (below 500 Volts). Consumption data is also collected individually from selected industries such as Aluminium, Cement, Chemicals, Fertilizers, Iron & Steel, Non-ferrous, Paper and Textiles etc. The details of consumption by these industries which absorbed more than 1,000 million kWh consumption are given in the following table:—

Sl. No.	Category	No. of plants covered	Consumption 1975-76	Consumption 1974-75	% increase over previous year
1	2	3	4	5	6
1.	Aluminium (P)	8	3,648.72	2,917.47	25.06
2.	Cement (P)	39	1,550.57	1,509.08	2.75
3.	Chemicals	88	2,337.66	2,028.33	15.25
4.	Fertilizers	21	4,473.10	3,047.62	46.77
5.	Iron & Steel (P)	9	4,119.89	3,825.47	7.70
6.	Non-ferrous	23	1,086.49	954.72	13.80
7.	Paper	34	1,272.33	1,188.39	7.06
8.	Textiles	377	4,780.14	4,393.01	8.81

NOTE :— P—Primary.

N.B.—In certain cases data, from all the factories could not be collected.

From the above table it is observed that the maximum consumption was by the textile industry followed by fertilizers. The consumption in the fertilizer industries was 46.77% more than the previous year's consumption. Details of statewise concentration of various industries and consumption thereof are given in tables 4.2.2 and 4.2.3. Maharashtra State has the maximum consumption in the industrial sector followed by Bihar.

4.6 Consumption by Railways:—

Energy used for railway traction was 1855.32 million kWh as compared to 1531.17 million kWh during the previous year registering an increase of 21.17%. Besides purchasing electricity from utilities, Railways have their own captive plants with an aggregate capacity of 60.63 MW which produced 38.18 million kWh. However, the Chola Steam Station which is under control of Central railways with an installed capacity of 96MW has been included under the utilities as it was operating in parallel with the Tata-Koyna grid.

4.7 Per capita consumption:—

Enhanced energy availability and lower percentage of system losses resulted in more sales to ultimate consumers and consequently higher per capita consumption. The per capita consumption including self-generation rose from 98.99 kWh to 109.95 kWh showing an increase of 11.07% over the previous year. The Union Territory of Chandigarh had the highest per capita consumption of 427 kWh followed by Delhi with 318 kWh. Among the States Punjab had the highest per capita consumption of 231.51 kWh followed by Gujarat which had the per capita of 179.93 kWh. Besides above, the States/Union Territories of Haryana, Karnataka, Maharashtra, Tamil Nadu, West Bengal and Pondicherry had per capita consumptions higher than the All India average.

The per capita industrial consumption was 72.19 kWh (including 9.62 from non-utilities) and that of agricultural pumping 14.52 kWh. The per capita domestic consumption was 9.70 kWh. The details of per capita consumption in different States and for different types of consumers are given in table no. 4.1.9.

The utilisation of energy per sq. km. was 18365 kWh as compared to 16043 kWh per sq. km. during the year 1974-75. The average installed capacity per sq. km. of area was 6.1 kW, the corresponding figure for the previous year being 5.58 kW.

TABLE No. 4·1·1

Electricity Generated, purchased sold and energy losses—all India Utilities 1975-76

Sl. No.	Item	Energy (Million kwh)	Percentage of item 6
1	2	3	4
1.	Energy generated (gross) (Utilities)	79,230·92	105·93
2.	Energy used by power station auxiliaries	4,555·81	6·09
3.	Energy generated (Net)-(1)-(2)	74,675·11	99·84
4.	Energy purchased from non-utilities	115·77	0·15
5.	Energy imported from other countries (Nepal & Gandak Project)	5·94	0·01
6.	Energy available for supply-(3)+(4)+(5)	74,796·82	100·00
7.	Energy sold to Ultimate consumers	60,245·81	80·55
8.	Energy sold to the other countries (Nepal) & (Bhutan)	24·49	0·03
9.	Energy lost in transformation transmission and distribution and un-accounted for (6)-[(7)+(8)]	14,526·52	19·42

TABLE No. 4·1·2
Energy sales—1975-76 (Categorywise)

Sl. No.	Category	Energy sold in 1975-76 (m. kWh)	Percentage to total sales	Energy sold in 1974-75 (m. kWh)	Percentage increase over year 1974-75
1	2	3	4	5	6
1.	Domestic	5,821·35	9·66	5,172·79	12·54
2.	Commercial	3,506·76	5·82	3,081·57	13·80
3.	Industrial Power	37,568·12	62·36	32,690·28	14·92
4.	Public Lighting	577·64	0·96	579·71	(—)0·36
5.	Railways/Tramways	1,855·32	3·08	1,531·17	21·17
6.	Agriculture	8,721·06	14·48	7,762·73	12·35
7.	Public Water Works & Sewage				
8.	Pumping	1,327·45	2·20	1,227·04	8·18
9.	Miscellaneous	868·11	1·44	586·35	48·05
	TOTAL	60,245·81	100·00	52,631·64	14·4

TABLE NO. 4.1.3

Sectorwise sale to ultimate consumers during the year

Sl. No.	State /U.T.	Total energy sold to ultimate consumers within the State/U.T. (m. kWh)	Public Sector Total energy sold to ultimate consumers by State Electricity Boards.	
			(m. kWh)	(% of Col. 3)
1	2	3	4	5
1.	Andhra Pradesh	2,796.49	2,772.84	99.15
2.	Assam	436.39	4,36.39	100.00
3.	Bihar	3,764.64	2,572.74	68.34
4.	Gujarat	5,012.06	3,229.33	64.43
5.	Haryana	1,601.72	1,601.72	100.00
6.	Himachal Pradesh	220.52	220.52	100.00
7.	Jammu & Kashmir	290.91	290.91	100.00
8.	Karnataka	4,414.28	4,405.05	99.79
9.	Kerala	1,996.98	1,949.65	97.63
10.	Madhya Pradesh	3,386.06	3,386.06	100.00
11.	Maharashtra	9,490.46	4,014.71	42.30
12.	Manipur	11.11	—	—
13.	Meghalaya	36.41	22.67	62.26
14.	Nagaland	14.80	—	—
15.	Orissa	2,095.42	2,095.42	100.00
16.	Punjab	3,379.78	1,954.57	57.83
17.	Rajasthan	1,821.29	1,817.35	99.78
18.	Tamil Nadu	6,204.66	5,847.03	94.24
19.	Tripura	14.11	—	—
20.	Uttar Pradesh	5,924.93	5,649.33	95.35
21.	West Bengal	5,503.24	1,389.85	25.26
UNION TERRITORIES				
	(a) A. & N. Islands	5.58	—	—
	(b) Arunachal Pradesh	3.93	—	—
	(c) Chandigarh	119.94	—	—
	(d) D. & N. Haveli (E)	2.04	—	—
	(e) Delhi	1,447.29	—	—
	(f) Goa, Daman & Diu	140.99	—	—
	(g) Lakshadweep (E)	0.43	—	—
	(h) Mizoram	1.73	—	—
	(i) Pondicherry	107.62	—	—
TOTAL (ALL-INDIA)		60,245.81	43,656.14	72.47

NOTE—(E) Estimated.

TABLE No. 4.1.3—(contd.)

Total energy sold to ultimate consumers by municipalities		PUBLIC SECTOR Total energy sold to ultimate consumer by Govt. Deptts./ Govt. undertakings/ Central Govt. Projects/power Corpn.		PRIVATE SECTOR Total energy sold to ultimate consumers Pvt. Licensees/ rural Co-ops.		Sl. No.	State/U.T.
m. kWh	% of col. 3	m. kWh	% of col. 3	m. kWh	% of col.3		
6	7	8	9	10	11	1	2
—	—	—	—	23.65	0.85	1.	Andhra Pradesh
—	—	—	—	—	—	2.	Assam
—	—	1,076.85	28.60	115.05	3.06	3.	Bihar(H)
137.42	2.74	—	—	1,645.31	32.83	4.	Gujarat
—	—	—	—	—	—	5.	Haryana
—	—	—	—	—	—	6.	Himachal Pradesh
—	—	—	—	—	—	7.	Jammu & Kashmir(D)
—	—	—	—	9.23	0.21	8.	Karnataka
12.70	0.64	—	—	34.63	1.73	9.	Kerala
—	—	—	—	—	—	10.	Madhya Pradesh
1,091.74	11.50	196.62	2.07	4,187.39	44.13	11.	Maharashtra
—	—	11.11	100.00	—	—	12.	Manipur
—	—	14.80	100.00	13.74	37.74	13.	Meghalaya
—	—	—	—	—	—	14.	Nagaland
—	—	—	—	—	—	15.	Orissa
95.31	2.82	1,325.03	39.21	4.87	0.14	16.	Punjab
—	—	—	—	3.94	0.22	17.	Rajasthan
114.17	1.84	243.46	3.92	—	—	18.	Tamil Nadu
—	—	14.11	100.00	—	—	19.	Tripura
117.12	1.98	—	—	158.48	2.67	20.	Uttar Pradesh
8.26	0.14	916.25	16.65	3,188.88	57.95	21.	West Bengal (H)
UNION TERRITORIES							
—	—	5.58	100.00	—	—		(a) A & N Islands
—	—	3.93	100.00	—	—		(b) Arunachal Pradesh
—	—	119.94	100.00	—	—		(c) Chandigarh
—	—	2.04	100.00	—	—E		(d) D. & N. Haveli(E)
1,447.29	100.00	—	—	—	—		(e) Delhi
—	—	140.99	100.00	—	—		(f) Goa, Daman & Diu
—	—	0.43	100.00	—	—E		(g) Lakshadweep(E)
—	—	1.73	100.00	—	—		(h) Mizoram
—	—	107.62	100.00	—	—		(i) Pondicherry
TOTAL 3024.01	5.02	4,180.49	6.93	9,385.17	15.58		TOTAL (All India)

TABLE NO. 4.1.4

Statewise energy sales to ultimate consumers (Million KWH)

Sl. No.	State/U.T.	Total sold to ultimate consumers	Domestic	Commercial	Industrial power low & medium volt.
1	2	3	4	5	6
1.	Andhra Pradesh	2,796.49	265.07	298.78	221.78
2.	Assam	436.39	44.63	20.90	22.50
3.	Bihar (H)	3,764.64	129.73	113.79	221.79
4.	Gujarat	5,012.06	415.31	171.19	529.43
5.	Haryana	1,601.72	117.96	82.35	202.02
6.	Himachal Pradesh	220.52	42.44	27.27	24.30
7.	Jammu & Kashmir(D)	290.91	103.25	29.30	100.45
8.	Karnataka	4,414.28	402.48	114.73	356.45
9.	Kerala	1,996.98	211.03	113.69	201.46
					(C)
10.	Madhya Pradesh	3,386.06	198.97	161.19	232.60
11.	Maharashtra	9,490.46	1,049.47	745.26	919.41
12.	Manipur	11.11	8.95	@@	1.55
13.	Meghalaya	36.41	7.48	5.27	5.74
14.	Nagaland	14.80	11.60	@@	1.03
15.	Orissa	2,095.42	61.83	56.17	56.16
16.	Punjab	3,379.78	250.18	155.51	350.69
17.	Rajasthan	1,821.29	119.87	93.73	206.90
18.	Tamil Nadu	6,204.66	501.14	452.92	441.26
19.	Tripura	14.11	8.20	1.58	2.69
20.	Uttar Pradesh	5,924.93	579.88	100.57	572.56
21.	West Bengal (H)	5,503.24	758.44	397.01	360.27
	UNION TERRITORIES				
	(a) A. & N. Islands	5.58	1.48	1.81	1.04
	(b) Arunachal Pradesh	3.93	3.00	0.09	0.44
	(c) Chandigarh	119.94	32.46	22.56	56.32
	(d) D. & N. Haveli (E)	2.04	0.40	0.29	0.19
	(e) Delhi	1,447.29	468.54	327.59	129.91
	(f) Goa Daman & Diu	140.99	16.63	(F)	7.80
	(g) Lakshadweep (E)	0.43	0.29	0.11	0.02
	(h) Mizoram	1.73	1.14	0.12	0.24
	(i) Pondicherry	107.62	9.50	4.94	6.86
	TOTAL (ALL INDIA)	60,245.81	5,821.35	3,506.76	5,233.86

* Sales under 'agricultural category' also includes consumption by the agricultural process industries, apart from that consumed by agricultural pumpsets, separate breakup of which has not been supplied by Bihar State Electricity Board Authorities.

TABLE No. 4.1.4.—(Contd.)

Industrial Power High Voltage	Public Lighting	Traction	Agricultural	Public water Works & Sewage Pumping	Miscellaneous	Sl. No.	State/U.T.
7	8	9	10	11	12	1	2
1,315.26	30.39	—	616.73	36.66	11.82(AA)	1.	Andhra Pradesh
196.46	2.23	—	5.00	10.21	134.46(A)	2.	Assam
2,376.69	5.99	398.83	454.16*	51.96	11.70	3.	Bihar (H)
2,818.37	51.76	—	868.96	135.89	21.15	4.	Gujarat
575.89	6.02	—	594.58	17.27	5.63	5.	Haryana
23.39	1.67	—	2.62	6.11	92.72(B)	6.	Himachal Pradesh
—	6.28	—	22.33	29.30	—	7.	Jammu & Kashmir(D)
2,973.50	59.88	—	312.38	168.95	25.91	8.	Karnataka
1,295.93	36.60	—	120.46	17.78	0.03	9.	Kerala
2,427.37	27.30	84.65	170.48	83.50	—	10.	Madhya Pradesh
5,015.23	101.43	657.60	802.66	196.02	3.38	11.	Maharashtra
—	0.45	—	—	0.16	—	12.	Manipur
10.42	0.56	—	—	0.83	6.11	13.	Meghalaya
0.27	1.00	—	—	0.70	0.20	14.	Nagaland
1,788.34	7.92	70.99	9.02	26.36	18.63	15.	Orissa
1,697.67	9.49	—	897.20 (EE)	6.73	12.31(J)	16.	Punjab
885.58	14.58	—	353.90	91.59	55.14	17.	Rajasthan
2,900.09	88.80	44.84	1,694.00	51.57	30.04	18.	TamilNadu
—	0.25	—	0.52	0.32	0.55	19.	Tripura
2,218.18	37.08	221.49	1,702.16	110.32	382.69	20.	Uttar Pradesh
3,322.86	42.08	376.92	51.65	148.95	45.06	21.	West Bengal (H)
—	1.15	—	—	0.08	0.02		(a) A & N Islands
—	0.36	—	—	0.04	—		(b) Arunachal Pradesh
2.80	2.20	—	1.61	1.49	0.50		(c) Chandigarh
0.72	0.16	—	0.19	0.09	—		(d) D & N Haveli (E)
361.78	38.35	—	5.40	110.07	5.65		(e) Delhi
80.59	1.82	—	1.02	20.68	4.41		(f) Goa, Daman & Diu
—	0.01	—	—	—	—		(g) Lakshadweep
—	0.07	—	—	0.16	—		(h) Mizoram
46.87	1.76	—	34.03	3.66	—		(i) Pondicherry
32,334.26	577.64	1,855.32	8,721.06	1,327.45	868.11		TOTAL

NOTE:—

(AA) —Includes Depts., colonies consumptions of 6.50 million kwh.

(A)—Includes Tea Gardens consumption of 76.86 million kwh, rest is consumed by A.I.R., Airport, Defence and Universities etc.

(B)—Includes supply to projects i.e. B. S.L., Giribata etc.

(C)—Includes 11.12 million kwh of Kanan Devan Hills.

(D)—Categorywise sales estimated.

(E)—Estimated.

(EE)—Includes public water works category consumption of Punjab State Electricity Board.

(F)—Includes 24.90 million kwh. consumption of M.E.S.

(G)—1311.19 M.U. consumption by Nangal Fertilizer Factory has been included in the Punjab State.

(H)—D.V.C.'s sale to ultimate consumers in Bihar & West Bengal area has been included in consumption of Bihar & West Bengal State respectively.

(I)—Consumption under Traction category of Gujarat Electricity Board has been included in Industrial Power (High Voltage) category.

(J)—Included sale of 9.82 million kwh to Irrigation Board.

TABLE NO. 4.1.5
Energy Sales by State Electricity Board

(Million kwh)

	State	Total sold to ultimate consumers	Domestic	Commercial	Industrial power Low & Medium Voltage.
1	2	3	4	5	6
1.	Andhra Pradesh	2,772.84	264.07	298.43	220.18
2.	Assam	436.39	44.63	20.90	22.50
3.	Bihar (G)	2,572.74	119.73	103.76	214.79
4.	Gujarat	3,229.33	222.01	41.03	308.08
5.	Haryana	1,601.72	117.96	82.35	202.02
6.	Himachal Pradesh	220.52	42.44	27.27	24.30
7.	Jammu & Kashmir(D)	290.91	103.25	29.30	100.45
8.	Karnataka	4,405.05	400.85	114.20	353.73
9.	Kerala	1,949.65	200.85	104.48	189.41(C)
10.	Madhya Pradesh	3,386.06	198.97	161.19	232.60
11.	Maharashtra	4,014.71	321.89	289.82	339.35
12.	Meghalaya	22.67	2.07	0.34	2.83
13.	Orissa	2,095.42	61.83	56.17	56.16
14.	Punjab	1,954.57	220.56	129.72	317.81
15.	Rajasthan	1,817.35	119.67	92.28	206.65
16.	Tamil Nadu	5,847.03	469.61	419.08	416.08
17.	Uttar Pradesh	5,649.33	498.87	63.12	494.59
18.	West Bengal (G)	1,389.85	86.59	90.50	108.23
	TOTAL (ALL INDIA)	43,656.14	3,495.85	2,123.94	3,809.76

(AA) Includes 6.50 million kwh consumption in Deptts. colonies.

(A) Includes Tea Gardens consumption of 76.86 mkwh & rest is consumed by A.I.R., Airport, Defence & Universities.

(C) Includes 11.12 million kwh consumption of Kannan Devan Hills Tea Gardens.

(D) Categorywise sales estimated.

(E) Includes Public Water Works.

(F) Does not include consumption by Nangal Fertilizer Factory.

(G) D.V.C.'s sales to ultimate consumers in Bihar and West Bengal Area is included.

(H) Includes Figures of Railway Traction as they are not separately Available.

TABLE NO. 4.1.5 (Contd.)

Industrial High Voltage	Public Lighting	Traction	Agriculture	Public Water Works	Miscellaneous	Sl. No.
7	8	9	10	11	12	1
1,315.26	30.13	—	596.29	36.66	11.82(AA)	1.
196.46	2.23	—	5.00	10.21	134.46(A)	2.
1,363.85	5.39	260.69	454.13*	50.40	—	3.
1,732.15(H)	32.48	—	838.16	55.42	—	4.
575.89	6.02	—	594.58	17.27	5.63	5.
23.39	1.67	—	2.62	6.11	92.72(B)	6.
—	6.28	—	22.33	29.30	—	7.
2,973.35	59.58	—	308.54	168.95	25.85	8.
1,282.76	34.25	—	120.32	17.58	—	9.
2,427.37	27.30	84.65	170.48	83.50	—	10.
1,986.43	48.80	108.50	763.08	156.84	—	11.
10.42	0.07	—	—	0.83	6.11	12.
1,788.34	7.92	70.99	9.02	26.36	18.63	13.
384.50(F)	7.49	—	892.00(E)	—	2.49	14.
884.78	14.34	—	353.24	91.25	55.14	15.
2,643.17	85.32	44.84	1,690.98	50.91	27.04	16.
2,195.94	21.26	221.49	1,689.19	83.87	381.00	17.
711.95	7.12	278.05	51.57	10.85	44.99	18.
22,496.01	397.65	1,069.21	8,561.53	896.31	805.88	TOTAL

*Sales under 'agricultural category' also includes consumption by the agricultural process industries, apart from that consumed by agricultural pumpsets, separate breakup of which has not been supplied by Bihar State Electricity Board Authorities.

TABLE NO. 4.1.6
Energy Sales by Private Sector
(million kwh)

Sl. No.	State	Total sold to ultimate Consumers	Domestic	Commercial	Industrial Low & Medium Volt
1	2	3	4	5	6
1.	Andhra Pradesh	23.65	1.00	0.35	1.60
2.	Assam	—	—	—	—
3.	Bihar(E)	115.05	10.00	10.00	7.00
4.	Gujarat(E)	1,645.31	153.43	124.61	203.60
5.	Haryana	—	—	—	—
6.	Himachal Pradesh	—	—	—	—
7.	Jammu & Kashmir	—	—	—	—
8.	Karnataka	9.23	1.63	0.53	2.72
9.	Kerala	34.63	6.79	5.27	8.96
10.	Madhya Pradesh	—	—	—	—
11.	Maharashtra (E)	4,187.39	359.03	113.67	383.38
12.	Manipur	—	—	—	—
13.	Meghalaya	13.74	5.41	4.93	2.91
14.	Nagaland	—	—	—	—
15.	Orissa	—	—	—	—
16.	Punjab	4.87	1.76	1.02	1.72
17.	Rajasthan	3.94	0.20	1.45	0.25
18.	Tamil Nadu	—	—	—	—
19.	Tripura	—	—	—	—
20.	Uttar Pradesh	158.48	38.54	16.24	53.19
21.	West Bengal	3,188.88	663.26	303.56	249.26
	TOTAL (ALL INDIA)	9,385.17	1,241.05	581.63	914.59

NOTE:—(E)—Estimated for a few Licensees.

N.B.—There is no private licensee in any of Union Territories.

TABLE No. 4.1.6—Contd.

Industrial Power High Voltage	Public Lighting	Traction	Agriculture	Public Water Works & Sewage Pumping	Misc.	No.
7	8	9	10	11	12	1
—	0.26	—	20.44	—	—	1
—	—	—	—	—	—	2.
84.00	0.60	—	0.03	1.56	1.86	3.
1032.34	15.86	—	23.02	72.31	20.14	4.
—	—	—	—	—	—	5.
—	—	—	—	—	—	6.
—	—	—	—	—	—	7.
0.15	0.30	—	3.84	—	0.06	8.
12.23	1.15	—	—	0.20	0.03	9.
—	—	—	—	—	—	10.
2888.88	29.66	359.10	38.85	13.06	1.76	11.
—	—	—	—	—	—	12.
—	0.49	—	—	—	—	13.
—	—	—	—	—	—	14.
—	—	—	—	—	—	15.
—	0.17	—	0.10	0.10	—	16.
0.80	0.24	—	0.66	0.34	—	17.
—	—	—	—	—	—	18.
—	—	—	—	—	—	19.
21.24	11.24	—	10.73	6.73	0.57	20.
1,782.20	33.93	26.69	0.08	129.83	0.07	21.
5821.84	93.90	385.79	97.75	224.13	24.49	Total

TABLE No. 4.1.7

Energy sales to ultimate consumers by organisations other than board and private licensees (sales by Central Govt., State Govt. and Municipal electric departments)

(million kwh)

Sl. No.	State	Total sold to ultimate-consumer	Domestic	Commercial	Industrial Power & Medium Volt.
1	2	3	4	5	6
A. Municipalities					
1.	Gujarat	137.42	39.87	5.55	17.75
2.	Maharashtra	1,091.74	368.55	336.77	196.68
3.	Punjab	95.31	26.70	21.91	31.16
4.	Tamil Nadu	114.17	31.53	33.84	25.18
5.	Uttar Pradesh	117.12	42.47	21.21	24.78
6.	West Bengal	8.26	4.89	1.57	1.12
7.	DESU & NDMC	1,447.29	468.54	327.59	129.91
8.	Kerala	12.70	3.39	3.94	3.09
B. Corpn. and Govt. Deptt.					
1.	D.V.C. in Bihar	1,076.86	—	0.03	—
2.	D.V.C. in W.B.	670.21	—	0.03	—
3.	B.M.B. in Punjab	1,321.01	—	—	—
C. States					
1.	Manipur	11.11	8.95	(A)	1.55
2.	Maharashtra (Chola)	196.62	—	5.00	—
3.	Nagaland	14.80	11.60	(A)	1.03
4.	Orissa (Balimela)	—	—	—	—
5.	Tamil Nadu (Neyveli)	243.46	—	—	—
6.	Tripura	14.11	8.20	1.58	2.69
7.	West Bengal (D.P.L.)	246.04	3.70	1.35	1.66
8.	Punjab (Pong)	4.02	1.16	2.86	—
D. Union Territories					
1.	A & NIslands	5.58	1.48	1.81	1.04
2.	Arunachal Pradesh	3.93	3.00	0.09	0.44
2.	Chandigarh	119.94	32.46	22.56	56.32
4.	D.N. Haveli (E)	2.04	0.40	0.29	0.19
5.	Goa, Daman & Diu	140.99	16.63	8.04	7.80
6.	Lakshadweep(E)	0.43	0.29	0.11	0.02
7.	Mizoram	1.73	1.14	0.12	0.24
8.	Pondicherry	107.62	9.50	4.94	6.86
TOTAL		7,204.50	5084.45	801.19	509.51

NOTE:—

(A) Includes Energy supplies to F. C. I. Sindri and Bokaro Steel Plant through inter-connected system.

(B) Sale to Nangal Fertilizer Factory.

(C) Sale to Irrigation Board.

(E) Estimated.

TABLE No. 4·1·7—Contd.

Industrial Power High Voltage	Public Lighting	Traction	Agricultural	Public Water Works & Sewage Pumping	Misc.	Sl. No.
7	8	9	10	11	12	1
53·88	3·42	—	7·78	8·16	1·01	1.
139·92	22·97	—	0·73	26·12	—	2.
1·98	1·83	—	5·10	6·63	—	3.
13·46	3·48	—	3·02	0·66	3·00	4.
1·00	4·58	—	2·24	19·72	1·12	5.
—	0·46	—	—	0·22	—	6.
361·78	38·35	—	5·40	110·07	5·65	7.
0·94	1·20	—	9·14	—	—	8.
928·84(A)	—	138·14	—	—	9·84	1.
598·00	—	72·18	—	—	—	2.
1,311·19(B)	—	—	—	—	9·82(C)	3.
—	0·45	—	—	0·16	—	1.
—	—	190·00	—	—	1·62	2.
0·27	1·00	—	—	0·70	0·20	3.
—	—	—	—	—	—	4.
243·46	—	—	—	—	—	5.
—	0·25	—	0·52	0·32	0·55	6.
230·71	0·57	—	—	8·05	—	7.
—	—	—	—	—	—	8.
—	1·15	—	—	0·08	0·02	1.
—	0·36	—	—	0·04	—	2.
2·80	2·20	—	1·61	1·49	0·50	3.
0·72	0·16	—	0·19	0·09	—	4.
80·59	1·82	—	1·02	20·68	4·41	5.
—	0·01	—	—	—	—	6.
—	0·07	—	—	0·16	—	7.
46·87	1·76	—	34·03	3·66	—	8.
4,016·41	86·09	400·32	61·78	207·01	37·74	TOTAL

TABLE NO. 4.1.8

Regionwise Electricity consumption (million kwh) during the year 1971-72 to 1975-76 (utilities only)

Year	Total sold to ultimate consumers	Domestic	Commercial	Industrial Low & medium voltage	Industrial High voltage
1	2	3	4	5	6
Northern Region					
1971-72	10,348.48	1,113.06	656.91	1,478.31	4,650.13
1972-73	11,141.26	1,196.83	718.05	1,448.03	4,826.33
1973-74	11,489.46	1,321.90	721.77	1,317.47	4,876.31
1974-75	11,690.41	1,424.01	779.74	1,572.81	4,198.27
1975-76	14,806.38	1,714.58	838.88	1,643.15	5,765.29
Western Region					
1971-72	14,138.94	1,207.40	874.59	1,361.55	8,545.64
1972-73	15,156.90	1,254.95	841.35	1,464.08	9,026.74
1973-74	15,520.40	1,323.52	854.66	1,440.24	9,457.66
1974-75	17,066.23	1,534.71	947.21	1,553.25	9,936.04
1975-76	18,031.61	1,680.78	1,085.97	1,689.43	10,342.28
Routhern Region					
1971-72	12,885.47	950.46	903.86	1,060.03	7,360.76
1972-73	12,776.36	976.40	683.70	1,009.56	7,131.77
1973-74	13,503.95	1,068.30	890.98	1,054.95	7,260.16
1974-75	13,805.79	1,218.06	857.05	1,095.35	7,100.21
1975-76	15,520.46	1,389.51	985.17	1,227.83	8,531.65
Eastern Region					
1971-72	9,334.08	779.55	434.51	498.96	6,470.31
1972-73	9,604.71	813.93	455.87	523.86	6,573.95
1973-74	9,312.34	864.32	435.59	770.45	6,112.52
1974-75	9,609.67	924.80	463.81	585.79	6,450.04
1975-76	11,368.88	951.48	568.78	639.26	7,487.89
North Eastern Region					
1971-72	356.23	56.99	72.91	53.71	157.78
1972-73	408.84	66.90	83.22	100.39	139.50
1973-74	420.23	66.51	84.52	57.66	133.98
1974-75	459.54	71.21	33.76	62.34	136.18
1975-76	518.48	85.00	27.96	34.19	207.15
All India					
1971-72	47,063.20	4,107.46	2,942.78	4,452.56	27,184.62
1972-73	49,088.07	4,309.01	2,782.19	4,545.92	27,698.29
1973-74	50,246.38	4,644.55	2,987.52	4,640.77	27,840.63
1974-75	52,631.64	5,172.79	3,081.57	4,869.54	27,820.74
1975-76	60,245.81	5,821.35	3,506.76	5,233.86	32,334.26

TABLE NO. 4.1.8--(Contd.)

Public lighting	Traction	Agricultural	Public Water works & Sewage pumping	Miscellaneous	Year
7	8	9	10	11	1
					<i>Northern Region</i>
77-44	130-29	1,800-30	294-45	147-59	1971-72
100-30	172-14	2,197-10	310-40	172-08	1972-73
121-12	166-85	2,384-94	323-35	255-75	1973-74
139-42	184-08	2,833-76	342-08	216-24	1974-75
115-67	221-49	3,579-80	372-88	554-64	1975-76
					<i>Western Region</i>
142-16	719-63	919-83	352-83	15-31	1971-72
155-88	732-96	1,239-29	333-96	107-69	1972-73
158-09	563-14	1,241-84	355-28	125-97	1973-74
165-46	553-64	1,839-04	396-59	140-29	1974-75
182-47	742-25	1,843-31	436-18	28-94	1975-76
					<i>Southern Region</i>
219-22	0-07	2,203-72	154-92	32-43	1971-72
207-50	136-12	2,361-23	230-53	39-55	1972-73
216-27	77-66	2,569-37	222-24	144-02	1973-74
213-52	38-92	2,960-38	276-76	45-54	1974-75
217-44	44-84	2,777-60	278-62	67-80	1975-76
					<i>Eastern Region</i>
46-19	782-70	81-24	201-10	39-52	1971-72
49-99	789-35	118-75	210-63	68-38	1972-73
50-87	723-11	111-81	208-91	34-76	1973-74
54-71	732-49	124-28	204-58	69-17	1974-75
57-14	846-74	514-83	227-35	75-41	1975-76
					<i>North Eastern Region</i>
5-80	—	0-53	5-34	3-17	1971-72
6-54	—	1-73	8-62	1-94	1972-73
6-48	—	2-25	7-18	61-65	1973-74
6-60	22-04	5-27	7-03	115-11	1974-75
4-92	—	5-52	12-42	141-32	1975-76
					<i>All India</i>
490-81	1,632-69	5,005-62	1,008-64	238-02	1971-72
520-21	1,830-57	5,918-10	1,094-14	389-64	1972-73
552-83	1,530-76	6,310-21	1,116-96	622-15	1973-74
579-71	1,531-17	77,62-73	1,227-04	586-35	1974-75
577-64	1,855-32	8,721-06	1,327-45	868-11	1975-76

TABLE No. 4.1.9

Annual per capita consumption of Electricity—(in kilo watt hours)—1975-76

Sl. No.	State/U.T.s.	Population (million) mid financial year based on 1971 census (as on Sep. 1975)	Utilities		
			Domestic	Commercial	Industrial including public water works traction & miscellaneous
1	2	3	4	5	6
1.	Andhra Pradesh	47·233	5·61	6·33	33·56
2.	Assam	17·011	2·62	1·23	21·38
3.	Bihar(A)	61·009	2·13	1·87	50·17
4.	Gujarat	29·756	13·96	5·75	117·79
5.	Haryana	10·986	10·73	7·46	72·94
6.	Himachal Pradesh	3·599	11·79	7·58	40·71
7.	Jammu & Kashmir	5·046	20·46	5·81	25·71
8.	Karnataka	31·968	12·59	3·59	110·29
9.	Kerala	23·528	8·97	4·83	64·40
10.	Madhaya Pradesh	46·371	4·29	3·48	60·98
11.	Maharashtra	55·425	18·93	13·45	122·54
12.	Manipur	1·174	7·62	(A)	1·46
13.	Meghalaya	1·078	6·94	4·89	21·43
14.	Nagaland	0·550	21·09	(A)	4·00
15.	Orissa	24·027	2·57	2·34	81·59
16.	Punjab (B)	14·662	17·06	10·61	141·00
17.	Rajasthan	28·508	4·20	3·29	43·48
18.	Tamil Nadu	44·766	11·19	10·12	77·47
19.	Tripura	1·707	4·80	0·93	2·09
20.	Uttar Pradesh	95·153	6·09	1·07	36·83
21.	West Bengal (A)	49·113	15·44	8·08	86·62
UNION TERRITORIES					
	(a) A & N Islands	0·127	11·65	14·25	8·98
	(b) Arunachal Pradesh	0·488	6·15	0·18	0·98
	(c) Chandigarh	0·280	115·93	80·57	216·64
	(d) D. & N. Haveli	0·081	4·94	3·58	12·34
	(e) Delhi	4·945	94·75	66·25	122·83
	(f) Goa, Daman & Diu	0·940	17·69	8·55	120·72
	(g) Lakshadweep	0·035	19·71	3·14	0·57
	(h) Mizoram	0·362	3·15	0·33	1·11
	(i) Pondicherry	0·516	18·41	9·57	111·23
TOTAL (ALL INDIA)		600·444*	9·70	5·84	69·31

TABLE No. 4.1.9—Contd.

UTILITIES			kWh from self-generation of non-utilities	Total (9+10)	Sl. No.
Public lighting	Agricultural pumping	Total			
7	8	9	10	11	1
0.64	13.06	59.20	6.58	65.78	1.
0.13	0.29	25.65	2.81	28.46	2.
0.10	7.44	61.71	22.40	84.11	3.
1.74	29.20	168.44	11.49	179.93	4.
0.55	54.12	145.80	7.07	152.87	5.
0.46	0.73	61.27	—	61.27	6.
1.24	4.43	57.65	—	57.65	7.
1.87	9.77	138.11	3.38	141.49	8.
1.56	5.12	84.88	4.79	89.67	9.
0.59	3.68	73.02	9.96	82.98	10.
1.83	14.48	171.23	6.57	177.80	11.
0.38	—	9.46	—	9.46	12.
0.52	—	33.78	—	33.78	13.
1.82	—	26.91	—	26.91	14.
0.33	0.38	87.21	22.18	109.39	15.
0.65	61.19	230.51	1.00	231.51	16.
0.51	12.41	63.89	8.79	72.68	17.
1.98	37.84	138.60	5.46	144.06	18.
0.15	0.30	8.27	—	8.27	19.
0.39	17.89	62.27	11.08	73.35	20.
0.86	1.05	112.05	7.29	119.34	21.
					<i>Union Territories</i>
9.06	—	43.94	—	43.94	(a)
0.74	—	8.05	—	8.05	(b)
7.86	5.75	426.75	0.02	426.77	(c)
1.98	22.35	25.19	—	25.19	(d)
7.76	1.09	292.68	25.43	318.11	(e)
1.94	1.09	149.99	0.24	150.23	(f)
0.29	—	23.71	—	23.71	(g)
0.19	—	4.78	—	4.78	(h)
3.41	65.95	208.57	10.95	219.52	(i)
0.96	14.52	100.33	9.62	109.95	TOTAL

NOTE:—A—Consumption out of D. V. C's sale to Bihar and West Bengal area included.

B—N.F.F.'s consumption included for calculation of per capital consumption.

*—Total population may not tally due to rounding off.

TABLE NO. 4·1·10

Statement showing interstate transfer of power regionwise (1975-76)

Sl. No.	Name of Supplier	Name of Purchaser	Units transferred (million kwh)
1	2	3	4
A. Northern Region			
1.	Bhakra Management Board	Haryana State Electricity Board	1,308·33
2.	Do.	H. P. Elec. Board	250·95
3.	Do.	Punjab State Electy. Bd.	3,017·38
4.	Do.	Rajasthan State Electy. Bd.	584·76
5.	Do.	Uttar Pradesh Electy. Bd.	—
6.	Do.	D.E. Supply Undertaking	48·20
7.	Do.	Chandigarh	136·79
8.	Haryana State Electy. Bd.	H.P. Electy. Board	0·04
9.	Do.	Rajasthan State Electy. Bd.	5·51
10.	H.P. Electy. Board	Punjab State Electy. Board	142·64
11.	D.E. Supply Undertaking	U.P. State Electy. Board	16·79
12.	Rajasthan S. Electy. Board	U.P. State Electricity Board	4·94
13.	Punjab State Electricity Board	H. P. State Electricity Board	3·85
14.	Punjab State Electricity Board	J. & K. State Electricity Board	73·10
15.	Do.	Haryana State Electricity Board	58·28
16.	Punjab State Electricity Board	Rajasthan State Electricity Board	9·33
17.	U.P. State Electricity Board	Rajasthan State Electricity Board	1·84
18.	Rajasthan State Electricity Board	Haryana State Electricity Board	0·37
19.	Do.	Delhi	1·80
20.	Chandigarh	Punjab State Electricity Board	2·68
B. Western Region			
21.	Gujarat Electricity Board	Dadra & Nagar Haveli	3·14
22.	Do.	Goa, Daman & Diu	4·59
23.	Do.	Maharashtra State Electricity Board	67·83
24.	Maharashtra State Electricity Board	M. P. State Electricity Board	28·46
25.	Do.	Govt. of Goa, Daman & Diu	3·98
C. Southern Region			
26.	Tamil Nadu State Electricity Board	Karnataka Electricity Board	218·19
27.	Do.	Kerala State Electricity Board	2·48
28.	Do.	Govt. of Pondicherry	122·27
29.	Do.	A.P. State Electricity Board	98·55
30.	Karnataka State Electricity Board	Do.	46·64
31.	Karnataka State Electricity Board	Tamil Nadu State Electricity Board	67·51
32.	A. P. State Electricity Board	Do.	32·50
33.	Do.	Karnataka State Electricity Board	67·01
34.	Kerala State Electricity Board	Tamil Nadu S. Electricity Board	302·52
D. Eastern Region			
35.	Bihar State Electricity Board	Damodar Valley Corporation	104·13
36.	Do.	West Bengal S. Electricity Board	28·16
37.	West Bengal S. Electricity (Bandel)@	Damodar Valley Corporation	92·17
38.	Do.	Bihar State Electricity Board	0·97
39.	Durgapur Project Ltd.@	Damodar Valley Corporation	81·84
40.	Fertilizers Corporation of India (Sindri)@	Do.	0·01
41.	Bokaro Steel Plant@	Do.	0·46
42.	Damodar Valley Corporation@	Durgapur Projects Ltd.	81·22
43.	Do.	Bihar State Electricity Board	225·20
44.	Do.	West Bengal S. Electricity Board	333·39
45.	Do.	Bihar State Electricity Board	918·05
46.	Do.	Sijua Jharla Co. (Bihar)	256·68(A)
47.	Do.	Dishergarh Co. (W.B.)	953·77
48.	Do.	Calcutta Electric Supply Co. (W.B.)	—
49.	Bihar State Electricity Board	Dishergarh (Bihar)	46·76(B)
50.	Orissa State Electricity Board	Orissa State Electricity Board	18·36
		Bihar State Electricity Board	363·43

1	2	3	4
		<i>E. North Eastern Region</i>	
51.	Assam State Electricity Board	Govt. of Nagaland	19.70
52.	Do.	Tripura	12.07
53.	Do.	Arunachal Pradesh	0.06
54.	Meghalaya State Electricity Board	Assam State Electricity Board	125.54
55.	Nagaland	Manipur	0.11
		<i>F. Inter Regional Transfer of Power</i>	
	<i>Western Region</i>	<i>Northern Region</i>	
56.	M.P. State Electricity Board	Rajasthan State Electricity Board	1.94
	<i>Southern Region</i>	<i>Western Region</i>	
57.	Karnataka State Electricity Board	Goa, Daman & Diu	168.62
58.	Do.	Maharashtra State Electricity Board	53.68
	<i>Southern Region</i>	<i>Eastern Region</i>	
59.	A.P. State Electricity Board	Orissa State Electricity Board	3.04
	<i>Northern Region</i>	<i>Eastern Region</i>	
60.	U.P. State Electricity Board	Bihar State Electricity Board	184.0
	<i>Eastern Region</i>	<i>Northern Region</i>	
61.	Bihar State Electricity Board	U.P. State Electricity Board	93.74
62.	Orissa State Electricity Board	M.P. State Electricity Board	1.53
		<i>Southern Region</i>	
63.	Orissa State Electricity Board	A.P. State Electricity Board	332.22
	<i>Western Region</i>	<i>Southern Region</i>	
64.	Maharashtra State Electricity Board	Karnataka State Electricity Board	76.53
	<i>Northern Region</i>	<i>Western Region</i>	
65.	U.P. State Electricity Board	M.P. State Electricity Board	77.36
		<i>Outside the Country</i>	
66.	Bihar State Electricity Board	Nepal	16.43
67.	U.P. State Electricity Board	Nepal	7.47
68.	Assam State Electricity Board	Bhutan	0.50
69.	Gandak & Nepal	Bihar	5.94
70.	West Bengal State Electricity Board	Bhutan	09

NOTE:—D.V.C. treated as a separate entity for the purpose of this table.

@Through inter-connected system.

A—This includes 62.28 million kwh of energy sold upto the date of take over of the licensee.

B—This includes 13.96 million kwh of energy sold upto the date of take over of the licensee.

TABLE No.
Statewise energy-generation (Net) Transfer,

Sl. No.	State /U.T.	Net Generation in own power houses (Other than jointly owned projects & Central Govt. Projects).	Energy received from		
			Jointly owned Central Govt. Projects (except B.M.B. & D.V.C.)	Self generating Industries	From other States (Including B. M.B. & D.V.C.)
1	2	3	4	5	6
1.	Andhra Pradesh	2,785.65	630.44	—	477.41
2.	Assam	435.77	—	—	125.54
3.	Bihar	1,853.04	—	2.59	3,077.92(A)
4.	Gujarat	5,188.73	972.29	79.17	—
5.	Haryana	288.36	437.14	—	1,366.98
6.	Himachal Pradesh	181.45	15.53	—	254.84
7.	Jammu & Kashmir	298.37	8.03	—	73.10
8.	Karnataka	5,308.48	67.88	—	361.73
9.	Kerala	2,761.09	—	—	2.48
10.	Madhya Pradesh	1,992.61	2,072.53	—	107.35
11.	Maharashtra	10,290.10	1,166.01	—	121.51
12.	Manipur	14.63	—	—	0.11
13.	Meghalaya	180.11	—	—	—
14.	Nagaland	0.25	—	—	19.70
15.	Orissa	2,960.91	257.34	4.41	21.40
16.	Punjab	962.97	24.53	—	3,162.70
17.	Rajasthan	6.07	1,854.47	—	603.38
18.	Tamil Nadu	5,517.60	2,229.99	8.14	402.53
19.	Tripura	4.85	—	—	12.07
20.	Uttar Pradesh	7,476.70	341.95	12.29	115.47
21.	West Bengal	4,274.57	—	8.70	2,066.75
22.	D.V.C.	4,518.86	—	0.47	196.30
23.	B.M.B.	5,561.77	—	—	—
UNION TERRITORIES					
	(a) A. & N. Islands	6.16	—	—	—
	(b) Arunchal Pradesh	6.11	—	—	0.06
	(c) Chandigarh	0.05	21.23	—	6.79
	(d) D. & N. Haveli	—	—	—	133.14
	(e) Delhi	707.10	991.14	—	50.00
	(f) Goa, Daman & Diu	—	—	—	177.19
	(g) Lakshadweep	0.48	—	—	—
	(h) Pondicherry	—	—	—	122.27
	(i) Mizoram [.	1.77	—	—	—
Total (All India)		63,584.61	11,090.50	115.77	13,058.72(A)

4-1-11

Utilisation & losses—1975-76 All Units in M. Kwh.

Energy Available in the State (3+ 4+5+6)	Energy sent out to/sold to			Transformation, Transmission, Distribution losses & energy unaccounted for		Sl. No.
	Other States	Ultimate con- sumers within State	Total (8+9)	(7-10)	% of Col. 7	
				11	12	
7	8	9	10	11	12	1
3,893.50	102.55	2,796.49	2,899.04	994.46	25.54	1.
561.31	32.33**	436.39	468.72	92.59	16.50	2.
4,933.55	260.82(B)	3,764.64@	4,025.46	908.09	18.41	3.
6,240.19	75.56	5,012.06	5,087.62	1,152.57	18.47	4.
2,092.48	5.55	1,601.72	1,607.27	485.21	23.19	5.
451.82	142.64	220.52	363.16	88.66	19.62	6.
379.50	—	290.91	290.91	88.59	23.34	7.
57,38.09	336.45	4,414.28	4,750.73	987.36	17.21	8.
2,763.57	302.52	1,996.98	2,299.50	464.07	16.79	9.
4,172.49	1.94	3,386.06	3,388.00	784.49	18.80	10.
11,577.62	108.97	9,490.46	9,599.43	1,978.19	17.09	11.
14.74	..	11.11	11.11	3.63	24.63	12.
180.11	125.54	36.41	161.95	18.16	10.08	13.
19.95	0.11	14.80	14.91	5.04	25.26	14.
3,244.06	697.18	2,095.42	2,792.60	451.46	13.92	15.
4,150.20	144.56	3,379.78	3,524.34	625.86	15.08	16.
2,463.92	7.11	1,821.29	1,828.40	635.52	25.79	17.
8,158.26	441.49	6,204.66	6,646.15	1,512.11	18.53	18.
16.92	..	14.11	14.11	2.81	16.61	19.
7,946.41	270.71(C)	5,924.93	6,195.64	1,750.77	22.03	20.
6,350.02	93.23*	5,503.24@	5,596.47	753.55	11.87	21.
4,715.63	4,562.13@@	..	4,562.13	153.50	3.26	22.
5,561.77	5,346.41	..	5,346.41	215.36	3.87	23.
6.16	..	5.58	5.58	0.58	9.42	(a)
6.17	..	3.93	3.93	2.24	36.30	(b)
158.07	2.68	119.94	122.62	35.45	22.43	(c)
3.14	..	2.04	2.04	1.10	35.03	(d)
1,748.24	16.79	1,447.29	1,464.08	284.16	16.25	(e)
177.19	..	140.99	140.99	36.20	20.43	(f)
0.48	..	0.43	0.43	0.05	10.42	(g)
122.27	..	107.62	107.62	14.65	11.98	(h)
1.77	..	1.73	1.73	0.04	2.26	(i)
87,849.60	13,077.27\$	60,245.81	73,323.08	14,526.52	19.42	

@—Sales to ultimate consumers by D. V. C. in West Bengal & Bihar have been included in West Bengal & Bihar respectively.

@@—Includes sales to ultimate consumers by D. V. C. in West Bengal & Bihar.

\$ —Includes 24.49 million kWh energy sold to outside the country,

(A) —Includes 0.13 million kWh purchased from Gandak & 5.81 million kWh. from Nepal.

(B) —Includes 16.43 million kWh of energy sold to Nepal.

(C) —Includes 7.47 million kWh of energy sold to Nepal.

*—Includes 0.09 million kWh of energy sold to Bhutan.

**—Includes 0.50 million kWh of energy sold to Bhutan.

TABLE No. 4-1-12

Energy Generation (Net), Transfer, utilisation and losses by the State electricity Boards, D.V.C. & D.E.S.U.—1975-76.

(All Units in Million kWh)

Sl. No.	Electricity Board/D.V.C./D.E.S.U.	Net Generation in own Power Houses (other than Jointly owned Central Govt. Projects)	Energy received from		
			Utilities within State /jointly owned Central Govt. Projects except DVC & BMB)	Other Boards/ Electric Undertakings (including DVC & BMB)	Self Generating Industries.
1	2	3	4	5	6
1.	Andhra Pradesh	2,785.65	583.54	477.41	—
2.	Assam	435.77	—	125.54	—
3.	Bihar	1,836.56	7.45	1,925.03(E)	2.59
4.	Gujarat	3,888.81	978.21	—	79.17
5.	Haryana	288.36	437.14	1,366.98	—
6.	Himachal Pradesh	181.45	15.53	254.84	—
7.	Jammu & Kashmir	298.37	8.03	73.10	—
8.	Karnataka	758.35	4,535.20	361.73	—
9.	Kerala	2,761.09	—	2.48	—
10.	Madhya Pradesh	1,992.61	2,072.53	107.35	—
11.	Maharashtra	7,045.96	1,365.47	121.51	—
12.	Meghalaya	175.47	—	—	—
13.	Orissa	1,489.98	1,354.84	21.40	4.41
14.	Punjab	962.97	20.51	1,841.69	—
15.	Rajasthan	6.07	1,854.47	603.38	—
16.	Tamil Nadu	5,517.60	1,986.57	402.53	8.14
17.	Uttar Pradesh	7,469.51	341.95	115.47	12.29
18.	West Bengal	1,654.92	611.13	361.55	8.70
	(a) D.V.C.	4,518.86	81.84	114.46	0.47
	(b) B.M.B.	5,561.77	—	—	—
	(c) D.E.S.U.	707.10	991.14	50.00	—

Energy available for supply (including sales outside the state (3+4+5+6))	Energy sold			Total sold (8+9+10)	Transformation, Transmission & Distribution losses & energy unaccounted for	
	Licenses within State	Other Boards/ Electric Undertakings/D.V.C.	Ultimate consumers		M. kwh (7-11)	% of Col. 7
7	8	9	10	11	12	13
3,846.60	27.81	102.55	2,772.84	2,903.20	943.40	24.53
561.31	—	32.33(A)	436.39	468.72	92.59	16.50
3,771.63	35.18	260.82(B)	2,572.74	2,868.74	902.89	23.94
4,946.19	676.13	75.56	3,229.33	3,981.02	965.17	19.51
2,092.48	—	5.55	1,601.72	1,607.27	485.21	23.19
451.82	—	142.64	220.52	363.16	88.66	19.62
379.50	—	—	290.91	290.91	88.59	23.34
5,655.28	13.70	336.45	4,405.05	4,755.20	900.08	15.92
2,763.57	65.63	302.52	1,949.65	2,317.80	445.77	16.13
4,172.49	—	1.94	3,386.06	3,388.00	784.49	18.80
8,532.94	2,915.65	108.97	4,014.71	7,039.33	1,493.61	17.50
175.47	11.42	125.54	22.67	159.63	15.84	9.03
2,870.63	—	364.96	2,095.42	2,460.38	410.25	14.29
2,825.17	127.59	144.56	1,954.57	2,226.72	598.45	21.18
2,463.92	5.33	7.11	1,817.35	1,829.79	634.13	25.74
7,914.84	134.57	441.49	5,847.03	6,423.09	1,491.75	18.85
7,939.22	297.03	270.71(C)	5,649.33	6,217.07	1,722.15	21.69
2,636.30	926.87	11.39(D)	1,389.85	2,328.11	308.19	11.69
4,715.63	1,338.43	1,476.64	1,747.06	4,562.13	153.50	3.26
5,561.77	—	5,346.41	—	5,346.41	215.36	3.87
1,748.24	304.92	16.79	1,182.25	1,503.96	244.28	13.97

Note:—

(A)—Includes 0.50 m. kwh sales to Bhutan

(B)—Includes 16.43 m. kwh sales to Nepal

(C)—Includes 7.47 m. kwh sales to Nepal

(D)—Includes 0.09 m. kwh sales to Bhutan

(E)—Includes 5.81 m. kwh purchased from Nepal and 0.13 m. kwh from Gandak project.

TABLE No. 4.1.13

Statewise Installed Plant Capacity@ (As on 31-3-76) and energy consumption (1975-76) for (Utilities only) per Square Kilometre and per Thousand Population.

Sl. No.	Name of the State/UT	Population (mid financial year) (millions)	Area in 1000 sq. kilometres	Installed plant capacity (MW)	Installed capacity per 1000 of population.
1	2	3	4	5	6
1.	Andhra Pradesh	47.233	276.81	990.43	20.97
2.	Assam	17.011	78.52	166.50	9.79
3.	Bihar	61.009	173.88	1555.89	25.50
4.	Gujarat	29.756	195.98	1361.44	45.75
5.	Haryana	10.986	44.22	616.96	56.16
6.	Himachal Pradesh	3.599	55.66	52.48	14.75
7.	Jammu & Kashmir	5.046	222.24	101.98	20.21
8.	Karnataka	31.968	191.77	1055.70	33.02
9.	Kerala	23.528	38.86	754.60	32.07
10.	Madhya Pradesh	46.371	442.82	895.42	19.31
11.	Maharashtra	55.425	307.76	2996.37	54.06
12.	Manipur	1.174	22.36	10.07	8.58
13.	Meghalaya	1.078	22.49	68.02	63.10
14.	Nagaland	0.550	16.53	2.02	3.67
15.	Orissa	24.027	155.78	863.12	35.92
16.	Punjab	14.662	50.36	1009.32	68.84
17.	Rajasthan	28.508	342.21	800.66	28.09
18.	Tamil Nadu	44.766	130.07	2364.00	52.81
19.	Tripura	1.707	10.48	4.88	2.86
20.	Uttar Pradesh	95.153	294.41	2086.99	21.93
21.	West Bengal	49.113	87.85	1749.16	35.62
UNION TERRITORIES					
(a)	A & N Islands	0.127	8.29	4.45	35.04
(b)	Arunachal Pradesh	0.488	83.58	4.56	9.34
(c)	Chandigarh	0.280	0.11	2.48	8.86
(b)	D & N Haveli	0.081	0.49	..	..
(e)	Delhi	4.945	1.48	597.00	120.73
(f)	Goa, Daman & Diu	0.940	3.81	..	..
(g)	Lakshadweep	0.035	0.03	0.90	25.71
(h)	Mizoram	0.362	21.09	1.66	4.59
(i)	Pondicherry	0.516	0.48	..	..
TOTAL (ALL INDIA)		600.444	3280.48	(A) 20117.06	33.50

TABLE No. 4.1.13 (contd.)

Installed capacity per sq. kilometer	Total Energy consumption (m. k. Wh)	Energy consumed per thousand of population (kWh)	Energy consumed per sq. kilometer	Sl. No.
7	8	9	10	1
3.58	2,796.49	59,206	10,103	1
2.12	436.39	25,653	5,558	2
8.95	3,764.64**	61,706	21,651	3
6.95	5,012.06	1,68,439	25,574	4
13.95	1,601.72	145,796	36,222	5
0.94	220.52	61,272	3,962	6
0.46	290.91	57,652	1,309	7
5.51	4,414.28	13,808	23,019	8
19.42	1,996.98	84,877	51,389	9
2.02	3,386.06	73,021	7,647	10
9.74	9,490.46	171,231	30,837	11
0.45	11.11	9,463	497	12
3.02	36.41	33,776	1,619	13
0.12	14.80	26,909	895	14
5.54	2,095.42	87,211	13,451	15
20.04	3,379.78	230,513	67,112	16
2.34	1,821.29	63,887	5,322	17
18.17	6,204.66	138,602	47,702	18
0.47	14.11	8,266	1,346	19
7.09	5,924.93	62,267	20,125	20
19.91	5,503.24**	112,053	62,644	21
				U. Ts.
0.54	5.58	43,937	673	a
0.05	3.93	8,053	47	b
22.55	119.94	428,357	1,090,364	c
..	2.04	25,185	4,163	d
403.38	1,447.29	292,677	977,898	e
..	140.99	149,989	37,005	f
30.00	0.43	12,286	14,333	g
0.08	1.73	4,779	82	h
..	107.62	208,566	224,208	i
6.13	60,245.81	100,335	18,365	TOTAL

Note:—@—The capacity of jointly owned projects has been shown distributed in the ratio of respective partner States.

*—Source for area figures is statistical Abstract India 1972 published by C.S.O.

A—Totals may not tally due to rounding off.

**—includes consumption by ultimate consumers of DVC in Bihar and West Bengal respectively.

TABLE NO. 4.1.14

Statewise classification of consumers and connected Load of utilities as on 31-3-1976

Sl. No.	State/U.Ts.	Domestic		Commercial		Industrial (LV & MV)		Industrial (high voltage)	
		Consumers (nos.)	Connected load (kW)	Consumers (nos.)	Connected load (kW)	Consumers (nos.)	Connected load (kW)	Consumers (nos.)	Connected load (kW)
1	2	3	4	5	6	7	8	9	10
1.	Andhra Pradesh	954,134	479,992	274,125	318,396	33,664	384,171	909	607,357
2.	Assam	82,849	55,100	20,868	30,700	2,637	48,931	176	83,487
3.	Bihar	361,354	1,74,296	165,261	116,114	39,835	387,528	920	544,819
4.	Gujarat	1,734,822	897,012	85,232*	122,857*	81,836	651,637	1,020	749,853
5.	Haryana	514,251	154,823	108,748	57,829	26,392	303,023	558	311,623
6.	Himacha ¹ Pradesh	263,097	112,600	39,493	36,272	3,641	53,767	@	@
7.	Jammu & Kashmir (E)	191,024	46,183	30,852	34,729	5,747	39,421	@	@
8.	Karnataka	1,205,557	562,331	163,390	106,223	52,263	326,595	815	745,507
9.	Kerala	660,466	415,797	212,893	137,502	28,396	290,316	392	366,247
10.	Madhya Pradesh	574,307	342,333	238,685	202,672	37,563	340,573	588	527,445
11.	Maharashtra	2,242,703	1,995,606	495,460	730,363	102,394	1,304,622	4,261	2,154,123
12.	Manipur (E)	11,146	3,108	£	£	306	2,793	@	@
13.	Meghalaya	16,257	7,761	3,655	4,043	172	5,994	1	3,551
14.	Nagaland	18,162	13,100	1,218	6,950	241	2,451	@	@
15.	Orissa	190,680	111,802	72,923	68,250	8,207	85,693	164	308,313
16.	Punjab	966,177	435,147	223,315	164,212	42,204	432,138	550	233,583
17.	Rajasthan	496,551	290,856	163,500	113,871	28,886	293,498	231	362,543
18.	Tamil Nadu	1,628,052	888,619	434,486	445,136	114,221	641,593	1,038	913,513
19.	Tripura	10,601	5,300	2,351	1,176	491	5,620	..	..
20.	Uttar Pradesh	1,258,439	606,042	107,138	115,449	86,888	817,886	1,486	862,048
21.	West Bengal (A)	677,484	686,618	238,168	442,148	59,111	339,134	1,629	894,648
22.	D.V.C. . . . .	..	..	2	20	..	..	14	366,893
<i>Union Territories</i>									
(a)	A & N Islands	7,963	2,986	909	647	196	1,791	..	..
(b)	Arunachal Pradesh	4,000	3,059	117	102	3	1,200	..	..
(c)	Chandigarh	48,275	72,738	6,662	32,199	790	28,729	3	4,643
(d)	D & N Haveli (E)	279	265	..	..	79	1,012	3	460
(e)	Delhi	675,200	502,245	122,105	98,081	25,529	164,909	152	57,777
(f)	Goa, Daman & Diu	59,194	42,613	12,478	11,617	1,745	41,218	83	32,069
(g)	Lakshadweep	2,187	1,366	476	356	34	216	..	..
(h)	Mizoram	DATA	NOT	AVAILABLE	..	DATA	NOT	AVAILABLE	..
(i)	Pondicherry	27,617	22,135	9,308	£	1,342	20,145	28	17,360
TOTAL		14,882,828	8,931,833	3,233,818	3,397,914	784,813	7,016,604	15,021	10,147,871

TABLE No. 4-I-14 (Contd.)

Sl. No.	State/U.Ts.	Public lighting		Traction		Agricultural		Public Water Works & Sewage Pumping		Miscellaneous		Total	
		Consumers (nos.)	Connected load (kW)	Consumers (nos.)	Connected load (kW)	Consumer (nos.)	Connected load (kW)	Consumers (nos.)	Connected load (kW)	Consumers (nos.)	Connected load (kW)	Consumers (nos.)	Connected load (kW)
1	2	11	12	13	14	15	16	17	18	19	20	21	22
1.	Andhra Pradesh . . .	14126	24750	..	..	293,208	1,206,842	700	16,061	967	5,022	1,571,833	3,042,591
2.	Assam	360	3,500	..	..	932	17,252	33	3,907	754	65,100	108,609	307,977
3.	Bihar	6,536	5,037	5	139,960	118,742	323,477	671	19,782	—	—	693,324	1,711,013
4.	Gujarat	17,007	22,794	5	50,000	125,048	795,538	3,993	64,027	498	9,913	2,049,461	3,363,631
5.	Haryana	437	2451	..	..	141,885	683,410	800	11,706	—	—	793,071	1,524,874
6.	Himachal Pradesh . . .	147	764	..	..	1,311	12,576	@	@	27	59,620	307,716	275,599
7.	Jammu & Kashmir (E)	393	2920	..	..	650	23,053	260	19,621	—	—	228,926	165,927
8.	Karnataka	7,620	22,702	..	..	225,159	733,758	1,500	64,358	—	—	1,656,304	2,561,474
9.	Kerala	5,024	14,265	..	..	41,429	161,485	405	10,583	—	—	949,005	1,396,195
10.	Madhya Pradesh	4,510	18,060	5	36,125	176,130	409,768	1,094	27,809	—	—	1,032,882	1,904,785
11.	Maharashtra	11,983	47,963	4	46,300	395,710	1,516,387	2,699	76,782	27	592	3,255,241	7,872,738
12.	Manipur (E)	42(B)	70	..	..	—	—	4	80	—	—	11,498	6,051
13.	Meghalaya	28	3,435	..	..	3	88	11	365	8	4,680	20,135	29,917
14.	Nagaland	115(B)	378	..	..	1	3	21	415	—	—	19,758	23,297
15.	Orissa	1,863	8,840	4	22,900	3,423	26,787	502	11,740	77	17,587	277,843	661,912
16.	Punjab	485	3,630	..	..	146,692	621,272	88	6,409	—	—	1,379,511	1,896,391
17.	Rajasthan	1,650	6,207	..	..	93,574	481,026	2,099	41,200	1,440	39,486	787,931	1,628,687
18.	Tamil Nadu	36,220(B)	47,004	3	34,600	726,050	2,632,874	6,202	43,479	9,023	194,960	2,955,295	58,41,778
19.	Tripura	17	500	..	..	99	1,108	11	180	80	500	13,650	14,384
20.	Uttar Pradesh	4,661	12,758	3	97,750	232,823	13,86,556	881	29,978	86	27,306	1,692,405	3,955,773
21.	West Bengal (A)	2,958	12,063	12	109,807	10,892	87,077	288	34,300	145	654	990,687	2,606,449
22.	D. V. C. (a) . . . . .	..	..	2	88,118	—	—	—	—	—	—	18	455,031
<i>U. T.s.</i>													
(a)	A & N. Islands	37(B)	78	..	..	1	4	15	169	—	—	9,121	5,675
(b)	Arunachal Pradesh	33	180	..	..	—	—	2	22	—	—	4,155	4,563
(c)	Chandigarh	86	823	..	..	347	1,643	130	3,789	11	23	56,304	1,44,587
(d)	D & N Haveli	5	46	..	..	68	253	24	35	—	—	458	2,071
(e)	Delhi	697	9,109	..	..	208	2,911	29	35,269	238	70,931	824,158	941,232
(f)	Goa, Daman & Diu	229	559	..	..	874	3,618	40	5,817	19	1,955	74,662	139,466
(g)	Lakshadweep	24	132	..	..	—	—	—	—	—	—	2,721	2,070
(h)	Mizoram	DATA	NOT AV-	AVAILABLE	..	DATA	NOT AV-	AVAILABLE	..	DATA	NOT	AVAIL-	ABLE
(i)	Pondicherry	291	642	..	..	6,739	24,764	2	1,232	—	—	45,327	86,278
TOTAL		117,584	271,660	43	625,560	2,741,998	11,153,530	22,504	529,115	13,400	498,329	21,812,009	42,572,416

Note:— (E)—Data estimated.

(*)—Nos. of consumers and connected load for the Board has been included in domestic category.

@—Included in industrial (LV & MV) category.

£—Included in domestic category.

(A)—No. of consumers and connected load under commercial category of Calcutta Electric Supply Corpn. which were included in domestic category during 1974-75 have been segregated this year.

(B)—Data reported appears to be that of number of street lights however no. of consumers indicated in this table have been estimated on the basis of reported connected load.

TABLE NO. 4.1.15

Towns Electrified in various Population Groups (1971 Census) as on 31-3-1976

Sl. No.	States/Union Territories	Total No.	Nos. electrified in various population groups					Total No. electrified as on 31-3-76.	Electrified during 1975-76	
			Below 5000	5000 to 9999	10000 to 19999	20000 to 49999	50000 to 99999			Over 1 lac.
1	2	3	4	5	6	7	8	9	10	11
1.	Andhra Pradesh	224	8	45	79	61	18	13	224	..
2.	Assam	72	8	23	26	9	5	1	72	..
3.	Bihar	202	12	47	72	51	11	9	202	..
4.	Gujarat	216	4	71	73	42	18	7	215	..
5.	Haryana	65	5	20	15	14	9	2	65	..
6.	Himachal Pradesh	36	23	6	5	1	1	—	36	..
7.	Jammu & Kashmir	45	20	17	3	3	—	2	45	..
8.	Karnataka	245	26	51	105	42	11	10	245	..
9.	Kerala	88	2	9	25	40	7	5	88	..
10.	Madhya Pradesh	250	12	96	74	43	14	11	250	..
11.	Maharashtra	289	13	70	98	65	25	17	288	..
12.	Manipur	8	3	4	—	—	—	1	8	..
13.	Meghalaya	6	1	1	3	..	1	—	6	..
14.	Nagaland	3	—	—	2	1	..	—	3	..
15.	Orissa	81	2	30	23	20	2	4	81	..
16.	Punjab	108	11	30	33	22	8	4	108	..
17.	Rajasthan	157	4	41	67	31	7	7	157	..
18.	Sikkim	7	6	—	1	—	—	—	7	..
19.	Tamil Nadu	439	101	97	118	79	27	17	439	..
20.	Tripura	6	—	1	4	—	—	1	6	..
21.	Uttar Pradesh	325	17	94	100	71	21	22	325	..
22.	West Bengal	223	8	59	59	49	31	15	221	..
TOTAL (STATES)		3,095	286	812	935	644	216	148	3,091	..
<i>Union Territories</i>										
1.	A. & N. Islands	1	..	..	..	1	..	..	1	..
2.	Arunachal Pradesh	4	3	1	..	..	..	..	4	..
3.	Chandigarh	2	..	..	1	..	..	1	2	..
4.	D & N Haveli	..	..	..	..	..	..	..	..	..
5.	Delhi	3	..	..	..	..	1	2	3	..
6.	Goa, Daman & Diu	13	4	4	1	3	1	..	13	..
7.	Lakshadweep	..	..	..	..	..	..	..	..	..
8.	Mizoram	2	..	1	..	1	..	..	2	..
9.	Pondicherry	6	..	2	..	3	1	..	6	..
TOTAL (U. Ts.)		31	7	8	2	8	3	3	31	..
TOTAL (ALL INDIA)		3,126	293	820	987	652	219	151	3,122	..

TABLE NO. 4·1·16

Villages Electrified in Various population Groups and Rural Population by Villages Electrification (1971 Census) as on 31-3-1976

Sl. No.	State/U.Ts.	Total No. of villages	Villages electrified in various population groups						Total No. electrified as on 31-3-76	Villages electrified during 1975-76	% electrified	Total rural population (lakhs)	Rural population covered by village electrification
			Below 500	500—999	1000—1999	2000—4999	5000—9999	10000 & above.					
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Andhra Pradesh (+)	27,221	1,092	1,897	3,763	3,855	671	80	11,358	928	41·73	351·00	68·4
2.	Assam (+)	21,995	749	485	353	171	11	..	1,769	410	8·04	133·36	14·4(d)
3.	Bihar (+)	67,566	5,915	4,169	3,640	2,305	482	54	16,565(*)	1,786	24·52	507w19	41·7(c)
4.	Gujarat	18,275	579	1,721	2,200	1,571	228	17	6,307	281	34·52	192·01	56·7
5.	Haryana	6,731	2,018	1,909	1,673	975	148	8	6,731	..	100·00	82·64	100·0
6.	Himachal Pradesh (+)	16,916	5,888	602	192	38	1	..	6,721	445	39·73	32·19	54·7
7.	Jammu & Kashmir (+)	6,503	1,076	644	385	88	3	..	2,196	538	33·77	37·58	28·9
8.	Karnataka (+)	26,826	4,882	4,189	3,213	1,677	239	9	14,209	479	52·97	221·77	69·7
9.	Kerala	1,268	4	2	13	115	280	788	1,202	20	94·79	178·81	96·7
10.	Madhya Pradesh	70,883	4,742	3,705	2,381	921	71	2	11,822	518	16·88	348·69	32·0
11.	Maharashtra	35,778	4,844	5,801	5,306	2,796	487	75	19,309	666	53·97	347·01	72·6
12.	Manipur (+)	1,949	56	55	67	51	2	..	231(a)	14(b)	11·85	9·31	36·8(e)
13.	Meghalaya	4,583	179	50	26	6	..	..	261	76	5·69	8·65	12·3
14.	Nagaland (+)	960	76	42	40	16	1	..	175	19	18·23	4·65	34·9
15.	Orissa (+)	46,992	5,379	3,419	2,214	477	16	2	11,507	1,379	24·49	200·99	43·0
16.	Punjab	12,188	3,782	3,047	2,145	871	79	2	9,926	2,209	81·44	103·35	84·5
17.	Rajasthan (+)	33,305	3,001	1,923	1,400	647	72	10	7,053	727	21·18	212·22	36·8
18.	Sikkim	215	4	1	1	..	..	..	6	1	2·79	1·90	2·1
19.	Tamil Nadu	15,735	2,799	3,394	4,534	3,890	752	140	15,509	36	98·56	287·34	99·2
20.	Tripura (+)	4,727	61	52	30	26	1	..	170	59	3·60	13·94	5·2
21.	Uttar Pradesh (+)	112,561	14,472	9,137	5,718	2,318	199	18	31,862	1,064	28·31	759·53	39·7
22.	West Bengal (+)	38,074	2,571	2,607	2,601	1,740	269	37	9,825	568	25·81	333·45	42·0
	TOTAL (STATES)	571,251	64,169	48,842	41,895	24,554	4,012	1,242	184,714	12,223	32·33	4,367·59	54·3

UNION TERRITORIES

TABLE No. 4·1·16 (contd.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	A & N. Islands	390	36	11	15	1	..	..	63	8	16·15	0·89	44·9
2.	Arunachal Pradesh (+)	2,973	34	18	4	2	..	..	58	..	1·95	4·50	
3.	Chandigarh	26	8	10	7	..	1	..	26	..	100·00	0·24	11·6**
4.	D. & N Haveli	72	5	4	12	4	..	..	25	3	34·72	0·74	100·0
5.	Delhi	243	43	53	79	60	6	2	243	..	100·00	4·19	51·4
6.	Goa, Daman & Diu	409	80	70	80	76	23	2	331	38	80·93	6·31	100·0
7.	Lakshadweep	10	..	..	1	6	2	..	9	..	90·00	0·318	95·6
8.	Mizoram +	229	1	..	..	2	1	..	4	1	1·75	2·95	99·7
9.	Pondicherry	333	162	85	57	26	3	..	333	..	100·00	2·73	6·4
	TOTAL (U. Ts.)	4,685	369	251	255	177	36	4	1,092	50	23·31	22·87	100·00
	TOTAL (ALL INDIA)	575,936	64,538	49,093	42,150	24,731	4,048	1,246	185,806	12,273	32·26	4,390·46	54·4

(+)—Populationwise breakup estimated.

(*)—Figure provisional.

(a)—As on 29-2-1976.

(b)—4/75 to 7/76.

(c) —As on 31-3-1975.

(d)—As on 31-1-1976.

(e)—As on 29-2-1976.

(**)—As per 1961 Census.

TABLE NO. 4.1.17

Statewise Pumpsets Bnergised as on 31-3-76

Sl. No.	State/U.Ts.	No. of Pumpsets As at the end of March '76	Consumption		Connected Load (M.W.)	Average Capacity per pumpset (K.W.)	(Average Consumption per pumpset KWH)	Consumption of Connected Load (KWH/KW)	Sl. No.
			Quantum Energised (m. Kwh)	% to total consumption in the States.					
1	2	3	4	5	6	7	8	9	10
1.	Andhra Pradesh	294.017	616.73	22.11	1,206.84	4.10	2,097.60	511.03	1.
2.	Assam	1012	5.00	1.15	17.25	17.05	4,940.71	289.86	2.
3.	Bihar	118.055	454.16*	12.06	323.48	2.74	3,847.02	1,403.98	3.
4.	Gujarat	121.854	868.96	17.34	795.54	6.53	7,131.16	1,092.29	4.
5.	Haryana	141885	594.58	37.12	683.41	4.82	4,190.58	870.02@	5.
6.	Himachal Pradesh	1320	2.62	1.19	12.58	9.53	1,984.85	208.27	6.
7.	Jammu & Kashmir	744	22.33	7.68	22.05	30.98	30,013.44	968.76@	7.
8.	Karnataka	224910	312.38	7.08	733.76	3.26	1,388.91	425.73	8.
9.	Kerala	47525	120.46	6.03	161.48	3.40	2,534.67	745.93	9.
10.	Madhya Pradesh	146739	170.48	5.03	409.77	2.79	1,161.79	416.04	10.
11.	Maharashtra	412068	802.66	8.46	1,516.39	3.68	1,947.88	529.32	11.
12.	Manipur	Nil.	..	..	Neg.	..	..	..	12.
13.	Meghalaya	5	..	..	0.09	0.18	..	..	13.
14.	Nagaland	1	..	..	Neg.	..	..	..	14.
15.	Orissa	4524	9.02	0.43	26.79	5.92	1,993.81	336.69	15.
16.	Punjab	146475	897.20*	26.55	621.27	4.24	6,125.28	1,444.14	16.
17.	Rajasthan	93826	353.90	19.43	481.03	5.13	3,771.88	735.71	17.
18.	Tamil Nadu	742746	1694.00	27.30	2,632.87	3.54	2,280.73	643.40	18.
19.	Tripura	99	0.52	3.69	1.11	11.21	5,252.53	468.47	19.
20.	Uttar Pradesh	260,738	1702.16	28.73	1,386.56	5.32	6,528.24	1,243.76	20.
21.	West Bengal	10701	51.65	0.94	87.08	8.14	4,826.65	593.13	21.
UNION TERRITORIES									
(a)	A. & N. Islands	1	..	..	Neg.	..	..	..	(a)
(b)	Arunacha Pradesh	Nil.	..	..	..	..	..	..	(b)
(c)	Chandigarh	486	1.61	1.34	1.64	3.37	3,312.76	981.71	(c)
(d)	Dadra & N. Haveli	129	0.19	9.31	0.25	1.94	1,472.87	760.00	(d)
(e)	Delhi	8,400	5.40	0.38	2.91	0.03	642.86	1,855.67	(e)
(f)	Goa, Daman & Diu	874	1.02	0.72	3.62	4.14	1,167.05	281.77	(f)
(g)	Lakshadweep	Nil.	..	..	..	..	..	..	(g)
(h)	Mizoram	Nil	..	..	..	..	..	..	(h)
(i)	Pondicherry	6,739	34.03	..	..	..	..	..	(i)
				31.62	24.76	3.67	5,049.71	1,374.39	
ALL INDIA		2785873	8721.06*	14.48	11,153.53	4.00	3,130.46	781.91	ALL INDIA

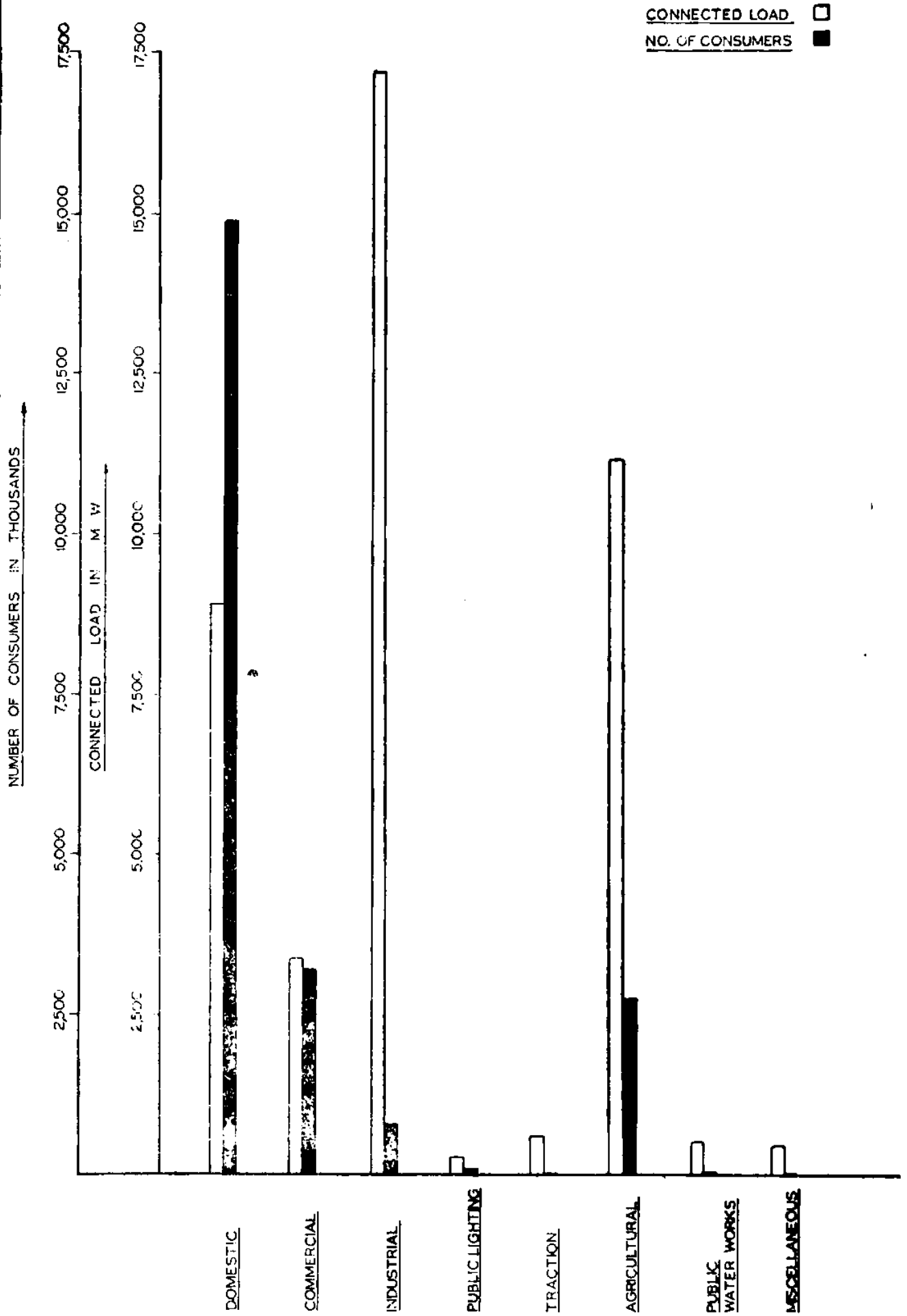
*Sales under 'agricultural category' also includes consumption by the agricultural process industries, apart from that consumed by agricultural pumpsets, separate breakup of which has not been supplied by Bihar State Electricity Board Authorities.

Note:—**Includes consumption by public water works pumping sets.

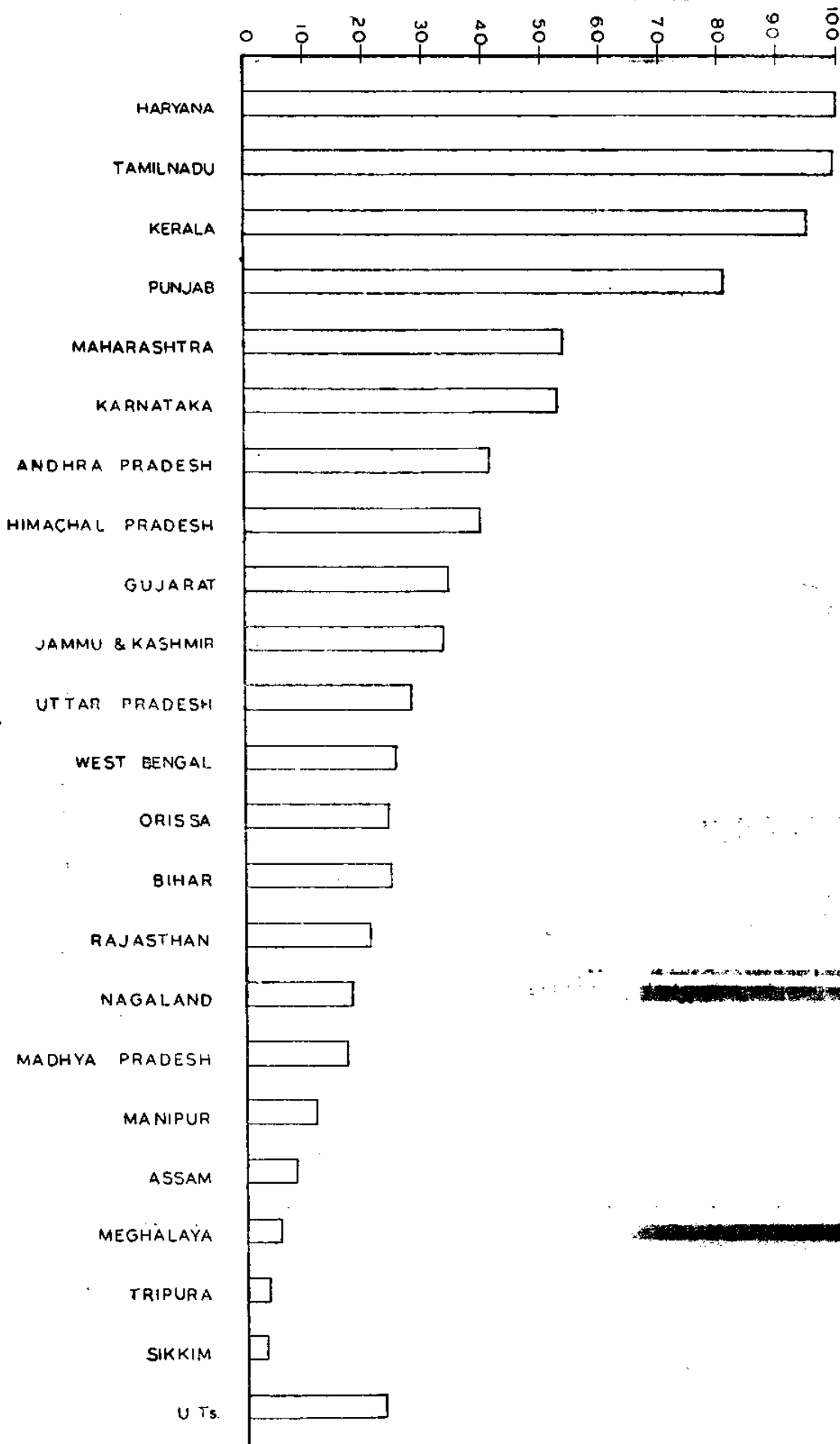
@—Consumption of connected load kWh/kW is high due to the public water works pumpsets included in category.

CATEGORY WISE CONSUMERS & CONNECTED

LOAD AS ON 31.3.1976



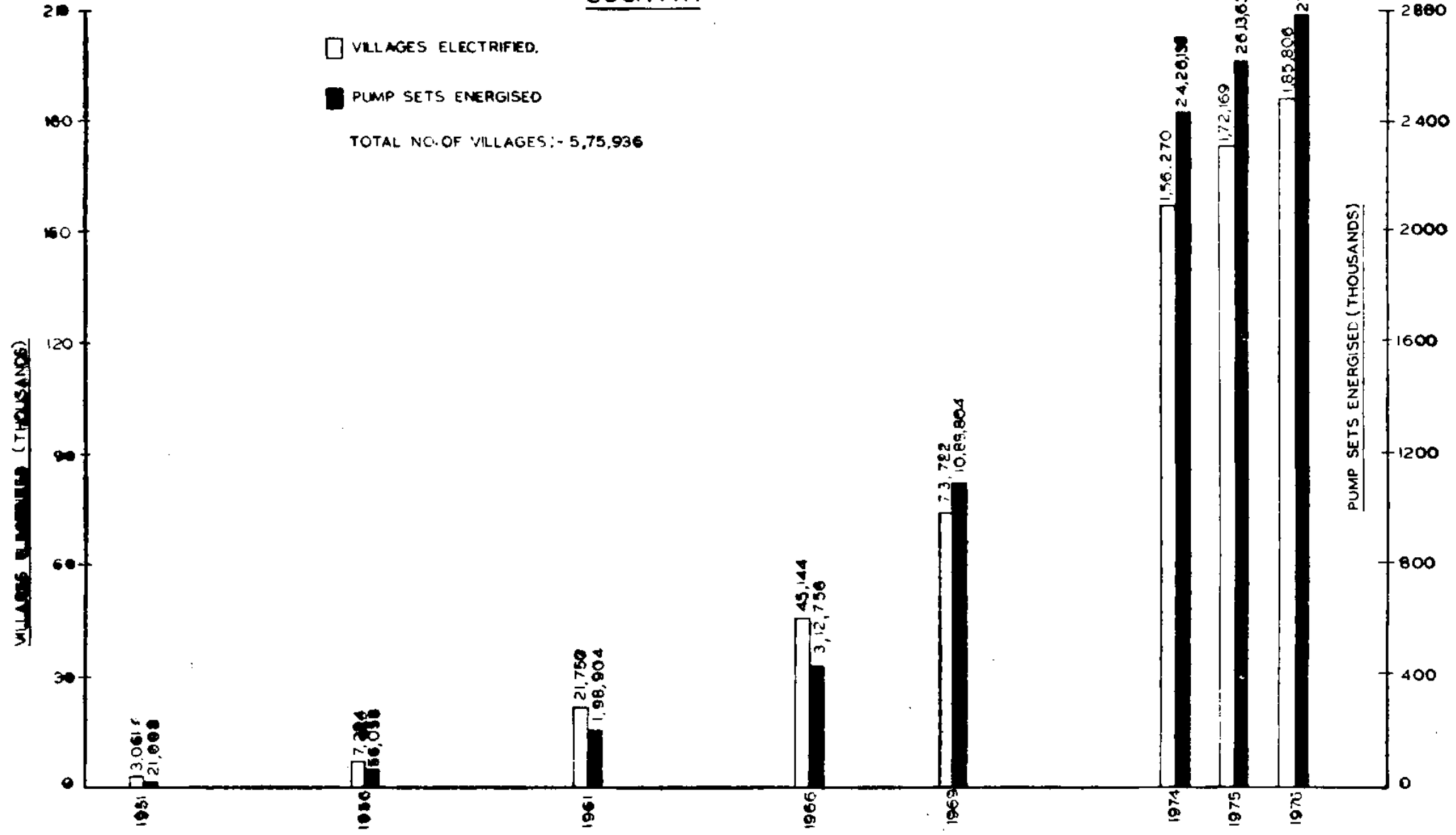
PERCENTAGE ELECTRIFIED TO TOTAL



PERCENTAGE OF VILLAGES ELECTRIFIED IN THE COUNTRY

AS ON 31-3-1976

PROGRESS OF VILLAGES ELECTRIFIED & PUMPSETS ENERGISED IN THE
COUNTRY



SECTION—42
UTILISATION OF ENERGY
IN SELECTED
INDUSTRIES

TABLE NO. 4·2·1

Electricity Production and Consumption in selected Industries for the year 1975-76

Sl. No.	Name of Industry	No. of Factories Covered	Installed capacity (K. W.)				Installed Capacity (K. W.) Total	Maximum Demand (KVA)		Energy Generated (Million kWh)		
			Steam	Diesel	Hydro	Gas		Generation	Purchase	Steam	Diesel	Hydro
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Aluminium (P)	7	143,450	350	..	..	143,800	124,000	465,288	932·911	..	..
2	Aluminium (S)	7	3,250	1,064	..	..	4,314	3,474	10,867	5·664	0·048	..
3	Automobiles	7	..	5,856	..	..	5,856	2,895	34,984	..	3·817	..
4	Cement (P)	39	106,580	4,502	..	..	111,082	72,343	236,914	372·477	2,996	..
5	Cement (S)	20	..	3,453	..	..	3,453	1,393	39,469	..	1,326	..
6	Chemical	88	69,940	30,360	..	10,000	110,300	63,453	394,296	284·792	27·339	..
7	Collieries	90	53,175	988	..	..	54,163	34,610	144,224	189·150	0·028	..
8	Electrical Engg.	61	15,096	17,295	..	..	32,391	20,132	120,155	65·219	11·442	..
9	Fertilizers	21	136,300	4,975	..	..	141,275	111,478	599,033	656·898	0·711	..
10	Food Products	35	3,000	9,260	..	..	12,260	6,539	29,733	0·896	6,231	..
11	Heavy Engg.	27	..	12,826	..	..	12,826	4,192	176,847	..	12·147	..
12	Iron & Steel (P)	9	511,800	1,110	..	..	512,910	359,550	415,027	1,853·396	0·006	..
13	Iron & Steel (S)	38	..	8,673	..	..	8,673	2,808	293,518	..	3·927	..
14	Jute	73	27,965	18,898	..	..	46,863	21,919	140,037	61·327	8·516	..
15	Light Engineering	48	..	19,012	..	..	19,012	7,817	121,520	..	7·584	..
16	Mineral Oil & Petroleum	13	86,900	3,641	..	1,790	92,331	82,975	66,941	437·683	13·764	..
17	Mining & Quarrying	10	..	1,565	..	..	1,565	901	15,495	..	0·202	..
18	Miscellaneous	62	5,677	21,883	..	..	27,560	17,241	143,665	4·213	8·203	..
19	Non-Ferrous	23	6,000	17,253	..	..	23,253	14,903	226,919	18·588	0·995	..
20	Paper	34	137,480	1,248	..	..	138,728	91,260	202,789	544·110	0·917	..
21	Plastic	3	3,970	280	..	..	3,250	1,935	1,660	5·044	0·885	..
22	Rubber & Rubber Products	9	..	5,262	..	..	5,262	2,000	43,307	..	0·789	..
23	Sugar	163	279,706	21,124	..	..	300,830	201,505	53,014	498·856	8·759	..
24	Textiles	377	127,004	129,321	2,612	..	258,937	184,706	932,155	453·915	112·046	8·924
	TOTAL	1,264	1,716,293	340,199	2,612	11,790	2,070,894	1,434,029	4,907,857	6,385·139	232·678	8·924

TABLE No. 4·2·1 (Contd.)

Sl. No.	Name of Industry	Energy Generated (Million KWH)		Energy Purchase (Million KWH)	Energy used in the Industry	Energy Sold to (million kwh)	
		Gas	Total			Utility	Non-Utility
		14	15			18	19
1.	Aluminium (P)	..	932·911	2,797·481	3,648·723	..	..
2.	Aluminium (S)	..	5·712	40·680	45·826	..	..
3.	Automobiles	..	3·817	104·206	107·881	..	..
4.	Cement (P)	..	375·473	1,211·107	1,550·566	..	..
5.	Cement (S)	..	1·326	202·659	203·950	..	..
6.	Chemical	12·478	324·609	2,056·193	2,337·659	..	..
7.	Collieries	..	189·178	543·168	709·433	..	1·268
8.	Electrical Engg.	..	76·661	346·447	397·597	12·290	..
9.	Fertilizers	..	657·609	3,874·478	4,473·099	0·007	..
10.	Food Products	..	7·127	60·589	67·250	..	..
11.	Heavy Engineering	..	12·147	488·672	500·269	..	..
12.	Iron & Steel (P)	..	1,853·402	2,596·277	4,119·886	4·875	17·137
13.	Iron & Steel (S)	..	3·927	674·504	678·139	..	..
14.	Jute	..	69·843	700·541	763·170	..	2·384
15.	Light Engineering	..	7·584	311·391	318·514	..	..
16.	Mineral Oil & Petroleum	17·903	469·250	262·251	590·656	98·599	..
17.	Mining & Quarrying	..	0·202	56·153	56·348	..	..
18.	Miscellaneous	..	12·416	499·292	511·035	..	0·010
19.	Non-Ferrous	..	19·583	1,070·786	1,086·494	..	0·030
20.	Paper	..	545·027	804·579	1,272·327	..	29·455
21.	Plastic	..	5·929	4·780	10·084	..	..
22.	Rubber & Rubber Products	..	0·789	189·318	190·066	..	..
23.	Sugar	..	507·615	92·766	549·705	..	2·072
24.	Textiles	..	574·885	4,254·984	4,780·137	..	..
TOTAL :		30·381	6,657·122	23,243·302	28,968·814	115·771	52·356

TABLE NO. 4-2-2

Statewise self-generation Production and Consumption in Selected Industries for the year 1975-76

Sl. No.	State/UT.	Total no. of factories covered.	Installed generating plant capacity as on 31-3-1976 (KW)				Aggregate maximum demand (KVA)	
			Steam	Diesel	hydr o	Total	Generation in own power Station.	Purchase from public utility undertaking
1.	Andhra Pradesh	66	113,000	11,681	..	124,681	78,077	201,504
2.	Assam	15	11,925	6,720	1,790(G)	20,435	13,698	35,846
3.	Bihar	92	427,942	6,576	..	434,518	287,784	434,093
4.	Gujarat	131	109,272	19,980	..	129,252	83,194	363,249
5.	Haryana	37	21,008	23,500	..	44,508	27,473	67,797
6.	Himachal Pradesh . . . . .	..	..	..	..	..	..	..
7.	Jammu & Kashmir	1	..	266	..	266	220	851
8.	Karnataka	53	44,495	21,174	2,612 (H)	68,281	44,484	288,769
9.	Kerala	43	36,550	3,144	..	39,694	31,012	187,196
10.	Madhya Pradesh	62	112,373	3,321	..	115,694	92,598	322,665
11.	Maharashtra	242	114,560	80,768	10,000 (G)	205,328	140,816	926,236
12.	Manipur . . . . .	..	..	..	..	..	..	..
13.	Meghalaya	1	..	..	..	..	..	2,351
14.	Nagaland . . . . .	..	..	..	..	..	..	..
15.	Orissa	26	156,648	1,680	..	158,328	..	..
16.	Punjab	22	5,900	9,386	..	15,286	139,830	270,379
17.	Rajasthan	38	68,046	22,674	..	90,720	8,675	208,943
18.	Sikkim . . . . .	..	..	..	..	..	63,986	163,946
19.	Tamil Nadu	116	71,120	49,486	..	120,600	92,267	381,277
20.	Tripura . . . . .	..	..	..	..	..	..	..
21.	Uttar Pradesh	114	231,106	36,293	..	267,99	205,668	85,358
22.	West Bengal	181	169,955	40,358	..	210,33	100,843	33,665
	UNION TERRITORIES							
	(a) Delhi	8	19,500	..	..	19,500	..	..
	(b) Rest	16	2,893	3,192	..	6,085	..	..
	TOTAL (ALL INDIA)	1,264	1,716,293	340,199	11,790 (G) 2,612 (H)	2,070,894	1,434,029	4,907,857

H—Hydro
G—Gas

TABLE No. 4-2-2 (Contd.)

Sl. No.	State/UT.	Energy generated in own Power Stations (m. kWh)				Auxiliary consumption (m kWh)	Million (KWh)		Energy sold to (m. kWh).	
		Gross generation					Purchased from public utility undertakings	Used in the industry	Public utility undertakings	Non-utility undertakings
		Steam	Diesel	Gas/hydro	Total					
1	2	10	11	12	13	14	15	16	17	18
1.	Andhra Pradesh	335.257	11,486	..	346.743	35.766	872.934	1153.188	..	30.723
2.	Assam	18.151	14.625	17.903(G)	50.679	2.831	552.252	600.090	..	0.010
3.	Bihar	1,584.912	0.627	..	1,585.539	216.120	1,899.056	3,256.841	3.061	8.573
4.	Gujarat	449.718	13.136	..	462.854	41.743	1,924.167	2,266.106	79.172	..
5.	Haryana	75.549	5.970	..	81.519	3.877	252.502	330.144	..	..
6.	Himachal Pradesh	..	..	..	..	..	..	..	..	..
7.	Jammu & Kashmir	..	0.003	..	0.003	..	0.666	0.669	..	..
8.	Karnataka	103.546	6.580	8.924(H)	119.050	10.866	2,101.683	2,209.867	..	..
9.	Kerala	125.088	0.127	..	..	12.612	1,022.337	1,134.940	..	..
10.	Madhya Pradesh	542.701	0.635	..	125.215	81.327	1,755.072	2,217.081	..	..
11.	Maharashtra	287.075	97.699	12.478(G)	543.336	33.358	3,415.765	3,777.587	..	2.072
12.	Manipur	..	..	..	397.252	..	..	..	..	..
13.	Meghalaya	..	..	..	..	..	10.421	10.421	..	..
14.	Nagaland	..	..	..	..	..	..	..	..	..
15.	Orissa	625.408	0.060	..	625.468	88.205	1,347.230	1,880.082	4.411	..
16.	Punjab	12.092	3.775	..	15.867	1.232	1,487.155	1,501.790	..	..
17.	Rajasthan	263.271	..	..	266.882	16.274	799.962	1,050.570	..	..
18.	Sikkim	..	3.611	..	..	..	..	..	..	..
19.	Tamil Nadu	240.151	39.232	..	279.383	26.803	1,742.773	1,987.213	8.140	..
20.	Tirpura	..	..	..	..	..	..	..	..	..
21.	Uttar Pradesh	1,170.796	18.009	..	1,188.886	122.369	1,859.286	2,913.513	12.290	..
22.	West Bengal	404.036	16.763	..	420.799	54.012	2,062.307	2,409.419	8.697	10.978
UNION TERRITORIES										
	(a) Delhi	141.237	..	..	141.237	15.499	46.310	172.048	..	..
	(b) Rest	6.151	0.259	..	6.410	0.589	19.424	97.245	..	..
TOTAL (ALL INDIA)		6,385.139	232.678	8.924(H) 30.381(G)	6,657.122	763.483	23,243.302	28,968.814	115.771	52.356

G—Gas

H—Hydro.

TABLE No. 4-2-3

Energy consumed in selected Industries in Million kwh during the year 1975-76

Sl. No.	Name of State/U.T	Aluminium (P)	Aluminium (S)	Automobile	Cement (P)	Cement (S)	Chemical	Collieries	Elect. Engineering	Fertilizers	Food-Products	Heavy Engg.	Iron & Steel)
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1.	Andhra Pradesh .	..	..	..	164.524	..	74.829	128.311	25.058	125.029	10.538	.627	—
2.	Assam .	..	..	..	..	11.279	0.849	3.990	—	511.865	0.651	—	—
3.	Bihar .	..	..	..	256.077	1.818	24.698	360.197	12.904	364.333	—	21	1488.117
4.	Gujarat .	..	..	..	215.310	2.346	354.722	—	8.739	389.615	—	—	—
5.	Haryana .	..	..	6.692	58.584	2.656	2.289	—	6.791	—	1.407	—	—
6.	Jammu & Kashmir	..	..	..	..	..	—	—	—	—	—	—	—
7.	Karnataka .	843.899	..	19.104	143.337	..	7.463	—	79.096	—	—	44.042	585.329
8.	Kerala .	363.259	9.923	..	6.044	0.870	193.983	—	4.100	328.229	0.345	—	—
9.	Madhya Pradesh .	410.000	..	..	164.913	159.739	—	61.826	60.394	—	6.796	—	687.984
10.	Maharashtra	..	..	30.192	..	1.443	587.258	2.960	52.391	261.873	20.034	43.504	—
11.	Orissa .	399.902	3.384	..	5.334	10.942	70.538	34.708	—	—	—	0.290	827.347
12.	Punjab .	..	..	..	..	..	2.349	—	—	1,302.552	5.499	—	—
13.	Rajasthan .	..	..	..	171.339	..	170.898	—	3.992	289.313	—	—	—
14.	Tamil Nadu .	360.773	..	..	261.551	4.278	354.998	—	20.003	279.734	2.922	18.49	—
15.	Uttar Pradesh .	1,270.890	..	..	93.132	..	271.037	—	95.537	543.789	16.038	10.341	—
16.	West Bengal .	..	32.519	51.893	..	8.579	133.238	117.441	28.592	77.767	3.020	53.637	531.109
17.	Meghalaya .	..	..	..	10.421	..	—	—	—	—	—	—	—
	<i>Union Territories</i>												
	(a) Delhi .	..	..	..	..	..	88.510	—	—	—	—	—	—
	(b) Rest .	..	..	..	..	..	—	—	—	—	—	—	—
	TOTAL	3,648.723	45.826	107.881	1,550.566	203.950	2,337.659	709.433	397.597	4,473.099	67.250	500.26	4119.886

'KNP'

TABLE No. 4.2.3—Contd.

Sl. No.	Name of State /U.T.	Iron & Steel (S)	Jute	Light Engg.	Mineral Oil and Petroleum	Mining & Quarrying	Misc.	Non-Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total
1	2	15	16	17	18	19	20	21	22	23	24	25	26	27
1.	Andhra Pradesh	0·901	20·901	—	18·330	—	3·328	215·455	181·618	8·141	—	69·265	83·333	1153·188
2.	Assam	—	—	—	61·130	—	6·564	—	3·762	—	—	—	—	600·090
3.	Bihar	195·477	14·973	21·434	96·289	0·280	2·443	97·584	2·912	—	—	16·984	—	3256·841
4.	Gujarat	10·908	—	4·038	74·702	0·043	—	—	51·796	—	—	13·852	1140·035	2266·106
5.	Haryana	16·299	—	13·378	—	—	15·472	—	95·221	—	35·184	10·108	66·063	330·144
6.	Jammu & Kashmir	—	—	0·669	—	—	—	—	—	—	—	—	—	0·669
7.	Karnataka	—	—	21·508	—	2·019	4·909	135·750	120·428	—	—	44·855	158·128	2209·867
8.	Kerala	—	—	9·721	—	—	45·520	—	25·078	—	12·342	6·081	129·445	1134·940
19.	Madhya Pradesh	—	76·556	—	—	—	60·248	3·746	220·658	—	—	8·646	295·575	2217·081
10.	Maharashtra	238·603	—	94·408	215·801	—	160·053	91·816	143·919	1·943	47·264	172·634	1611·491	3777·587
10.	Orissa	—	—	—	—	15·692	—	333·796	150·340	—	—	1·270	26·539	1880·082
12.	Punjab	—	—	9·324	—	—	—	—	—	—	—	13·847	168·219	1501·790
13.	Rajasthan	1·349	—	42·947	—	—	—	208·347	—	—	—	2·875	154·952	1050·570
14.	Tamil Nadu	3·359	—	14·647	98·678	—	8·917	—	46·713	—	7·846	53·811	450·034	1987·213
15.	Uttar Pradesh	27·984	11·591	49·471	—	—	73·806	—	50·939	—	26·042	129·005	243·911	2913·513
16.	West Bengal	178·142	639·149	36·969	25·726	—	123·248	—	178·943	—	61·388	1·322	126·737	2409·419
17.	Meghalaya	—	—	—	—	—	—	—	—	—	—	—	—	10·421
<i>Union Territories</i>														
	(a) Delhi	5·117	—	—	—	—	1·313	—	—	—	—	—	77·108	172·048
	(b) Rest	—	—	—	—	38·314	5·214	—	—	—	—	5·150	48·567	97·245
	TOTAL	678·139	763·170	318·514	590·656	56·348	511·035	1086·494	1,272·327	10·084	190·066	549·705	4,780·137	28,968·814

TECHNICAL STATISTICS
SECTION-5
ACQUISITION OF LICENSEES AND ELECTRICAL ACCIDENTS

5.1 Acquisition of Licensees

The number of licensees acquired by the State Electricity Boards have been indicated in Table No. 5.1.1. Out of the thirty six licensees taken over during the year 26 were private licensees and 10 were municipalities. The maximum number of licensees taken over during the year was 23 by Uttar Pradesh State Electricity Board followed by Bihar State Electricity Board which has acquired 8 licensees.

5.2 Accidents

The total number of reported accidents during the year was 4378 out of which 1570 were human fatal accidents as compared to 1430 human fatal accidents reported last year. There were 811 fatal accidents to animals this year as compared to 493 reported last year. The number of non-fatal human accidents reported this year was 1997 as compared to 1540 to last year.

TABLE NO. 5.1.1.

Acquisition of Electricity Supply Undertakings—1975-76.

Sl. No.	Name of the undertaking	Prior ownership	Date & year of acquisition	By whom acquired.
1	2	3	4	5
A. Generation & Distributing				
1.	Mount Abu Electric supply Co. Lt d. Udaipur	Company	23-4-75	Rajasthan State Elec. Bd.
2.	Abu Road Electric & industries Co. Ltd.	Company	23-4-75	Rajasthan S. E. B.
B. Generating, Purchasing & Distributing				
1.	Muzaffarpur	Company	17-7-75	Bihar S.E.B.
2.	Darbhanga—Laheri Sarai	Do.	17-7-75	Do.
3.	Sijua jherriah.	Do.	17-7-75	Do.
4.	Maharana Bhopal E. S. Co. Udaipur	Do.	23-4-75	Rajasthan S. E. B.
5.	Bareilly	Do	1-8-75	U. P. S.E.B.
6.	Jaunpur	Do	1-12-75	Do
7.	Mussorie	Municipality	1-1-76	Do
8.	Nainital	Do	1-1-76	Do
C. Purchasing and Distributing				
1.	Ranchi	Company	17-7-75	Bihar S. E. B.
2.	Bhagalpur	Do	Do	Do
3.	Chaibasa	Do	Do	Do
4.	Jugsalai	Do	Do	Do
5.	Chirkunda	Do	Do	Do
6.	Vallabh Vidya-Nagar	Do	15-10-75	Gujarat S. E. B.
7.	Nabadweep	Do	10-11-75	W. B. State E. Bd.
8.	Mathura	Do	29-7-75	U. P. S. E. B.
9.	Rohtak & Hissar Distt.	Do	12-8-75	Do
10.	Mirzapura	Do	1-9-75	Do
11.	Aligarh	Do	1-12-75	Do
12.	Badaun	Do	Do	Do
13.	Pilibhit	Do	Do	Do
14.	Faizabad	Do	Do	Do
15.	Etawah	Do	Do	Do
16.	Shahjahanpur	Do	Do	Do
17.	Sadabad	Do	Do	Do
18.	Farrukhabad	Do	Do	Do
19.	Almora	Municipality	1-1-76	Do
20.	Haldwani-Kathgodam	Do	Do	Do
21.	Hardwar	Do	Do	Do
22.	Khurza	Do	Do	Do
23.	Meerut	Do	Do	Do
24.	Muzaffarnagar	Do	Do	Do
25.	Roorkee	Do	Do	Do
26.	Unnao	Do	Do	Do

New Electricity supply undertakings started operating during the year 1975-76

Name of undertaking	Ownership	Date of license granted	State
1. The Rayachoty Rural Electric supply Co-op. Society Ltd.	Co.	30-7-75	Andhra Pradesh
2. The Anakapalli Rural Electric Co-op. Society Ltd.	Co.	22-9-75	Andhra Pradesh

TABLE NO. 5.1.2.

Classification of Licensees undertaking into (1) Generating (2) Generating and Purchasing (3) Purchasing and Distributing Statewise

Sl. No.	State/Union Territories	Generating and distributing	Number of Companies		Total
			Generating Purchasing and distributing	Purchasing and distributing	
1	2	3	4	5	6
1.	Andhra Pradesh	..	..	3	3
2.	Assam	..	..	..	..
3.	Bihar	..	..	..	..
4.	Gujarat	..	5	6	11
5.	Haryana	..	..	..	..
6.	Himachal Pradesh	..	..	..	..
7.	Jammu & Kashmir	..	..	..	..
8.	Karnataka	..	..	1	1
9.	Kerala	..	..	3	3
10.	Madhya Pradesh	..	..	..	..
11.	Maharashtra	..	2	21	23
12.	Manipur	..	..	..	..
13.	Meghalaya	..	1	..	1
14.	Nagaland	..	..	..	..
15.	Orissa	..	..	..	..
16.	Punjab	..	..	1	1
17.	Rajasthan	..	..	..	..
18.	Tamil Nadu	..	..	..	..
19.	Tripura	..	..	..	..
20.	Uttar Pradesh	..	..	1	1
21.	West Bengal	..	3	9	12
	<i>Union Territories</i>				
	(a) Delhi	..	..	..	..
	(b) Andaman & Nicobar Islands	..	..	..	..
	(c) Arunachal Pradesh	..	..	..	..
	(d) Chandigarh	..	..	..	..
	(e) D & N Haveli	..	..	..	..
	(f) Goa, Daman & Diu	..	..	..	..
	(g) Lakshadweep	..	..	..	..
	(h) Mizoram	..	..	..	..
	(i) Pondicherry	..	..	..	..
	TOTAL	..	11	45	56

TABLE NO. 5.1.3

Distribution of Municipal Undertakings

Sl. No.	State/U. T.	Number of municipalities			Total
		Generating and distributing	Generating, purchasing and distributing	Purchasing and distributing	
1	2	3	4	5	6
1.	Andhra Pradesh	..	..	..	..
2.	Assam	..	..	..	..
3.	Bihar	..	..	..	..
4.	Gujarat	..	1	8	9
5.	Haryana	..	..	..	..
6.	Himachal Pradesh	..	..	..	..
7.	J & Kashmir	..	..	..	..
8.	Karnataka	..	..	..	..
9.	Kerala	..	..	1	1
10.	Madhya Pradesh	..	..	..	..
11.	Maharashtra	..	..	5	5
12.	Manipur	..	..	..	..
13.	Meghalaya	..	..	..	..
14.	Nagaland	..	..	..	..
15.	Orissa	..	..	..	..
16.	Punjab	..	..	1	1
17.	Rajasthan	..	..	..	..
18.	Tamil Nadu	..	..	5	5
19.	Tripura	..	..	..	..
20.	Uttar Pradesh	..	..	2	2
21.	West Bengal	..	1	..	1
	<i>Union Territories</i>				
	(a) Delhi	..	1	17	2
	(b) A & N Islands	..	..	..	..
	(c) Arunachal Pradesh	..	..	..	..
	(d) Chandigarh	..	..	..	..
	(e) D & N Haveli	..	..	..	..
	(f) Lakshadweep	..	..	..	..
	(g) Goa, Daman & Diu	..	..	..	..
	(h) Mizoram	..	..	..	..
	(i) Pondicherry	..	..	..	..
	TOTAL	..	3	23	26

TABLE No. 5.1.3.

Electrical Accidents During—1975-76

Sl. No.	State/U. Ts	Power Houses & Sub-Stations				Transmission Lines			
		Electric supply Undertaking		Industrial Undertaking		Electric supply Undertaking		Industrial undertaking	
		Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal
1	2	3	4	5	6	7	8	9	10
1.	Andhra Pradesh	2	—	—	—	5	3	—	—
2.	Assam	2*	2	1	—	7+3*	13	—	—
3.	Bihar	4	13	—	—	1	—	—	—
4.	Gujarat	—	13	2	9	37+61*	61	5+7*	—
5.	Haryana	—	—	—	—	—	—	—	—
6.	Himachal Pradesh	DATA	NOT	AVAIL	ABLE	—	—	—	—
7.	Jammu & Kashmir	DATA	NOT	AVAIL	ABLE	—	—	—	—
8.	Karnataka	—	2	4	—	4+1*	1	—	—
9.	Kerala	—	3	—	1	2	2	—	—
10.	Madhya Pradesh	—	—	1	11	—	—	28+7*	27
11.	Maharashtra	DATA	NOT	AVAIL	ABLE	—	—	—	—
12.	Manipur	DATA	NOT	AVAIL	ABLE	—	—	—	—
13.	Meghalaya	DATA	NOT	AVAIL	ABLE	—	—	—	—
14.	Nagaland	—	—	—	—	—	—	—	—
15.	Orissa	DATA	NOT	AVAIL	ABLE	—	—	—	—
16.	Punjab	8	18	2	—	2	7	—	—
17.	Rajasthan	8	21	3	—	17+3*	23	—	—
18.	Tamil Nadu	—	3	—	—	26	30	—	—
19.	Tripura	DATA	NOT	AVAIL	ABLE	—	—	—	—
20.	Uttar Pradesh	13+1*	48	—	—	87+14*	59	—	—
21.	West Bengal	DATA	NOT	AVAIL	ABLE	—	—	—	—
22.	Mines	—	—	—	—	—	—	—	—
23.	Central Govt. Institutions	4	11	—	—	6	4	—	—
24.	Railways	—	—	1	—	—	—	—	—
<i>Union Territories</i>									
	(a) A. & N. Islands	—	—	—	—	1	—	—	—
	(b) Arunachal Pradesh	DATA	NOT	AVAIL	ABLE	—	—	—	—
	(c) Chandigarh	—	—	—	—	—	—	—	—
	(d) D. & N. Haveli	—	—	—	—	—	—	—	—
	(e) Delhi	2	1	—	—	—	—	—	—
	(f) Goa, Daman & Diu.	—	3	—	—	4	3	—	—
	(g) Lakshadweep	DATA	NOT	AVAIL	ABLE	—	—	—	—
	(h) Pondicherry	—	—	—	—	—	1	—	—
	(i) Mizoram	DATA	NOT	AVAIL	ABLE	—	—	—	—
Total (All-India).		41+3*	138	14	21	201+82*	207	33+14*	27

TABLE No. 5.1.4 (Contd.)

Distribution Lines				Total		Sl. No.
Electric Supply undertaking		Industrial undertaking		Fatal	Non-fatal	
Fatal	Non-fatal	Fatal	Non-fatal			
11	12	13	14	15	16	1
136+29*	73	—	—	143+29*	76	1.
5+8*	9	1	—	14+13*	24	2.
18	28	—	—	23	41	3.
50+67*	107	3	—	97+135*	190	4.
42+153*	132	3	2	45+153*	134	5.
	DATA	NOT	AVAIL	ABLE		6.
	DATA	NOT	AVAIL	ABLE		7.
86+37*	85	1	2	95+38*	90	8.
93+29*	153	4+1*	16	99+30*	175	9.
—	—	104+54*	58	133+61*	96	10.
	DATA	NOT	AVAIL	ABLE	240+75*	11.
	DATA	NOT	AVAIL	ABLE		12.
	DATA	NOT	AVAIL	ABLE		13.
18	11	—	—	—	—	14.
51+14*	71	2+93*	—	32+93*	36	16.
215+81*	261	1	6	80+17	121	17.
	DATA	NOT	AVAIL	ABLE	241+81	18.
94+50*	112	48+16*	46	242+81	294	19.
	DATA	NOT	AVAIL	ABLE		20.
1	—	12	8	12	8	21.
23	4	4	12	13	19	22.
	21			28	33	23.
						24.
						Union Territories
3	—	—	—	4	—	(a)
1*	1	—	—	1*	1	(b)
3+4*	7	—	—	—	—	(c)
12	8	—	1	5+4*	9	(d)
	DATA	NOT	AVAIL	ABLE	16	(e)
8	5	—	—	8	14	(f)
	DATA	NOT	AVAIL	ABLE		(g)
						(h)
						(i)
858+473*	1088	183+164*	151	1570+811*	1997	TOTAL:

NOTE:— *—Animal Accidents.
The data in this table is indicated to the extent it is reported.

**TECHNICAL--STATISTICS SECTION-6
PROGRESS OF ELECTRICITY SUPPLY--UTILITIES**

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Section-6

PROGRESS OF ELECTRICITY SUPPLY INDUSTRY

This section includes tables indicating the growth in the various aspects of power supply industry for the country as a whole. The tables cover the growth rate in installed capacity prime-moverwise, pattern of generation and kWh generated in a year per kW of installed capacity, the trend in the consumption patterns of different classes of consumers, increase in per capita consumption in the various States at the end of plan periods and the increase in the length of transmission and distribution lines and capacity of transformers.

The total installed capacity, which was 1835 MW at the beginning of the First Plan (1951), has increased nearly 11 times to 20,117 MW. The hydro, thermal and gas turbine & diesel sets capacity was however increased by 14.7, 10.5 and 2.9 times respectively. The nuclear power came into picture only in 1970 and it has increased from 420 MW to 640 MW in five years.

The gross energy generation, which was 5858 m. kWh in 1951 rose up to 79,231 m. kWh. The growth rate in the hydro has been somewhat lower than the thermal because of increased additions in capacities on the thermal side during the last few years. The hydro generation increased since 1951 by 11.6 times as compared to 13.8 times in the thermal side.

The kWh/installed kW of hydro generation depends mainly on the inflows during the years. Nevertheless the kWh/kW for hydro stations are likely to go down because the hydro power stations of recent construction are designed for peaking purposes. The output has been varying from 4972 kWh/kW in 1951 to 3401 kWh/kW in 1967-68. There is, however, an improvement in the utilisation from steam stations. The average kWh/kW was around 2532 in 1951 and has come upto 4042 kWh/kW in 1975-76. The highest utilisation was in 1972-73 i.e. 4206 kWh/kW. The increase in the utilisation can be attributed to the fact that modern thermal stations are being used as basic stations.

From a study of table 6.1.4 it can be seen that the proportion of energy consumed for domestic purposes has been steadily going down. The share of domestic consumption in 1951 was 12.4% as compared to 9.66% for the current year. Similarly the share of the commercial sector is also coming down though to a lesser extent i.e. from 6.9% to 5.82%. The percentage of consumption in the industrial sector which was 63.7% in 1951 had increased to 73.5% in 1963-64 since then it has been steadily going down and during the current year it was 62.36%. The share of utilization of electricity for traction purposes has come down substantially from 6.9% to 3.08%. The greatest increase is, however, in the agricultural sector. The share of the agriculture was only 4.3% in 1951 and this has steeply risen to 14.48% for the current year.

There has been a steady increase in the per capita consumption. The per capita consumption which was 17.8 kWh in 1951 has gone up to 109.95 kWh during the year 1975-76.

A new table (6.1.7) which has been introduced this time indicates the growth rate in transformer capacities and transmission and distribution lines. Whereas the step-down transformer capacity has increased during the Plan periods by 41 times the distribution capacity has increased by 33 times. The length of E.H.V. lines (33 kV and above) which was 11,831 kms. has increased to 188,965 kms. and the high voltage lines from 17,440 kms. to 574,179 kms. The growth rate in the high voltage lines below 33 kV and above 500 volts has been much more because of intensive rural electrification programme.

TABLE NO. 6.1.1

Progress of Electricity Supply all India—(Utilities only) Installed Plant Capacity & Aggregate Maximum Demand

Year	Total MW	Installed Plant Capacity					
		Hydro		Steam		Gas Turbine & Diesel	
		MW	% of Col. 2	MW	% of Col. 2	MW	% of Col. 2
1	2	3	4	5	6	7	8
1939	1069.72	442.17	41.33	540.76	50.55	86.79	8.12
1947	1,363.27	508.13	37.27	757.46	55.56	97.68	7.17
1948	1,410.97	515.56	36.54	788.39	55.87	107.02	7.59
1949	1,537.19	559.08	36.37	852.64	55.47	125.47	8.16
1950	1,712.52	559.29	32.66	1,004.43	58.65	148.80	8.69
1951	1,835.43	575.18	31.34	1,097.57	59.80	162.68	8.86
1952	2,061.76	715.18	34.69	1,176.32	57.05	170.26	8.26
1953	2,305.19	731.18	31.72	1,393.72	60.46	180.29	7.82
1954	2,494.00	793.35	31.81	1,491.04	59.79	209.61	8.40
1955	2,694.82	939.48	34.86	1,546.81	57.40	208.53	7.74
1956	2,886.14	1,061.44	36.78	1,596.41	55.31	228.29	7.91
1957-58	3,223.11	1,213.92	37.66	1,763.26	54.71	245.93	7.63
1958-59	3,511.59	1,361.75	38.78	1,879.55	53.52	270.29	7.70
1959-60	3,873.17	1,530.15	39.51	2,047.01	52.85	296.01	7.64
1960-61	4,653.05	1,916.66	41.19	2,436.25	52.36	300.14	6.45
1961-62	5,218.82	2,419.10	46.35	2,471.02	47.35	328.70	6.30
1962-63	5,801.19	2,936.35	50.62	2,537.69	43.74	327.15	5.64
1963-64	6,575.94	3,167.02	48.16	3,007.63	45.74	401.29	6.10
1964-65	7,396.67	3,388.73	45.82	3,604.58	48.73	403.36	5.45
1965-66	9,027.02	4,123.75	45.68	4,417.11	48.93	486.16	5.39
1966-67	10,092.17	4,757.22	47.14	4,886.91	48.42	448.04	4.44
1967-68	11,883.16	5,486.92	46.17	5,975.41	50.29	420.83	3.54
1968-69	12,957.27	5,906.91	45.59	6,640.34	51.25	410.02	3.16
1969-70	14,102.45	6,134.77	43.50	7,196.39	51.03	351.29	2.49
1970-71	14,708.95	6,383.23	43.40	7,508.18	51.04	397.54	2.70
1971-72	15,254.37	6,611.61	43.34	7,818.38	51.26	404.38	2.65
1972-73	16,281.71	6,785.41	41.67	8,467.98	52.01	408.32	2.51
1973-74	16,663.56	6,965.30	41.79	8,651.76	51.93	406.50	2.44
1974-75	18,316.68	7,529.24	41.11	9,752.54	53.24	394.90	2.16
1975-76	20,117.06	8,463.60	42.07	10,579.09	52.59	434.37	2.16

TABLE No. 6.1.1—(Contd.)

Nuclear		Aggregate of maximum demand at generating stations M.W.	Year
M.W.	% of Col. 2.		
9	10	11	1
..	..	575.80	1939
..	..	882.85	1947
..	..	965.78	1948
..	..	1,008.00	1949
..	..	1,098.31	1950
..	..	1,205.19	1951
..	..	1,310.65	1952
..	..	1,416.35	1953
..	..	1,625.12	1954
..	..	1,894.67	1955
..	..	1,989.77	1956-57
..	..	2,288.21	1957-58
..	..	2,542.26	1958-59
..	..	2,931.36	1959-60
..	..	3,545.93	1960-61
..	..	3,917.21	1961-62
..	..	4,635.05	1962-63
..	..	5,548.50	1963-64
..	..	6,257.20	1964-65
..	..	7,306.13	1965-66
..	..	8,291.57	1966-67
..	..	9,702.79	1967-68
..	..	10,871.06	1968-69
420.00	2.98	11,946.18	1969-70
420.00	2.86	12,532.90	1970-71
420.00	2.75	13,333.09	1971-72
620.00	3.81	13,865.76	1972-73
640.00	3.84	14,478.71	1973-74
640.00	3.49	15,576.65	1974-75
640.00	3.18	17,304.76	1975-76

TABLE No. 6.1.2.

Progress of Electricity Supply all India (Utilities only) Energy Generated Gross

Year	Total	Energy Generated (Gross)			
		Hydro		Steam	
		million kwh	% of Col. 2	millions kwh	% of Col. 2.
1	2	3	4	5	6
1939	2,442.42	N.A.	..	N.A.	..
1947	4,073.32	2,194.54	53.87	1,733.98	42.58
1948	4,575.47	2,373.29	51.86	2,047.01	44.75
1949	4,909.29	2,489.87	50.72	2,243.67	45.70
1950	5,106.70	2,519.77	49.34	2,387.06	46.75
1951	5,858.40	2,859.70	48.81	2,779.42	47.44
1952	6,120.35	2,799.13	45.73	3,102.42	50.69
1953	6,697.19	2,913.86	43.51	3,572.79	53.35
1954	7,521.78	3,236.52	43.03	4,057.92	53.95
1955	8,592.45	3,742.24	43.55	4,618.86	53.76
1956-57	9,662.13	4,294.88	44.45	5,133.90	53.13
1957-58	11,369.14	5,072.24	44.61	6,042.45	53.15
1958-59	12,993.89	5,848.10	45.01	6,847.65	52.70
1959-60	15,032.95	7,027.42	46.75	7,678.43	51.08
1960-61	16,937.01	7,836.58	46.27	8,732.41	51.56
1961-62	19,669.95	9,814.38	49.90	9,475.88	48.17
1962-63	22,364.97	11,804.54	52.78	10,176.86	45.50
1963-64	26,817.57	13,956.70	52.04	12,506.13	46.64
1964-65	29,563.08	14,798.85	50.06	14,389.89	48.67
1965-66	32,990.12	15,224.97	46.15	17,372.18	52.66
1966-67	36,375.59	16,734.10	46.00	19,295.44	53.05
1967-68	41,194.64	18,658.06	45.29	22,232.75	53.97
1968-69	47,433.65	20,722.67	43.69	26,393.72	55.64
1969-70	51,988.72	23,046.05	44.33	27,296.87	52.51
1970-71	55,827.64	25,248.24	45.23	27,796.45	49.79
1971-72	60,925.63	28,024.22	46.00	31,237.28	51.27
1972-73	64,546.00	27,195.95	42.13	35,614.12	55.18
1973-74	66,689.03	28,971.84	43.45	34,853.08	52.26
1974-75	70,190.53	27,875.18	39.71	39,538.72	56.33
1975-76	79,230.92	33,301.77	42.03	42,760.05	53.97

TABLE No. 6.1.2 (Contd)

Energy Generated (Gross)				YEAR
GAS & Diesel		Nuclear		
million kwh	% of Col. 2	million kwh	% of Col. 2	
7	8	9	10	1
N.A.	..	..	..	1939
144.80	3.55	..	..	1947
155.17	3.39	..	..	1948
175.75	3.58	..	..	1949
199.73	3.91	..	..	1950
219.64	3.75	..	..	1951
218.80	3.58	..	..	1952
210.54	3.14	..	..	1953
227.34	3.02	..	..	1954
231.35	2.69	..	..	1955
233.36	2.42	..	..	1956-57
254.45	2.24	..	..	1957-58
298.14	2.29	..	..	1958-59
327.10	2.17	..	..	1959-60
368.02	2.17	..	..	1960-61
379.69	1.93	..	..	1961-62
383.57	1.72	..	..	1962-63
354.74	1.32	..	..	1963-64
374.34	1.27	..	..	1964-65
392.79	1.19	..	..	1965-66
346.05	0.95	..	..	1966-67
303.83	0.74	..	..	1967-68
317.26	0.67	..	..	1968-69
306.80	0.59	1,339.00	2.57	1969-70
365.57	0.65	2,417.38	4.33	1970-71
474.81	0.78	1,189.32	1.95	1971-72
603.19	0.93	1,132.74	1.76	1972-73
467.75	0.70	2,396.36	3.59	1973-74
570.54	0.81	2,206.09	3.14	1974-75
542.59	0.68	2,626.51	3.32	1975-76

TABLE No. 6.1.3.

Progress of kwh/kw Prime-Moverwise (Utilities only)

Year	Kwh. Generated/Kw. of installed capacity				
	Hydro	Steam	Gas & Diesel	Nuclear	Total
1	2	3	4	5	6
1939	N.A.	N.A.			2,283
1947	4,319	2,289	1,482		2,988
1948	4,603	2,596	1,450		3,243
1949	4,454	2,631	1,401		3,194
1950	4,505	2,377	1,342		2,982
1951	4,972	2,532	1,350		3,192
1952	3,914	2,637	1,285		2,969
1953	3,985	2,564	1,168		2,905
1954	4,079	2,722	1,085		3,016
1955	3,983	2,986	1,109		3,189
1956-57	4,046	3,216	1,022		3,348
1957-58	4,178	3,427	1,035		3,527
1958-59	4,295	3,643	1,103		3,700
1959-60	4,593	3,751	1,105		3,881
1960-61	4,089	3,584	1,226		3,640
1961-62	4,057	3,835	1,155		3,869
1962-63	4,020	4,010	1,172		3,855
1963-64	4,407	4,158	884		4,078
1964-65	4,367	3,992	928		4,011
1965-66	3,692	3,933	808		3,655
1966-67	3,518	3,948	772		3,604
1967-68	3,401	3,721	722		3,467
1968-69	3,508	3,975	774		3,661
1969-70	3,757	3,793	873	3,188	3,687
1970-71	3,955	3,702	920	5,756	3,795
1971-72	4,239	3,995	1,174	2,832	3,994
1972-73	4,008	4,206	1,477	1,827	3,964
1973-74	4,161	4,028	1,151	3,744	4,002
1974-75	3,702	4,045	1,445	3,447	3,832
1975-76	3,935	4,042	1,249	4,104	3,938

TABLE No. 6.1.4

Progress of Electric Supply Industry (Utilities Only) Energy consumption & per capita consumption

Year	Total Energy sold mskwh	Percentage of Col. at 2						Per capita Consumption kwh	
		Domestic	Commercial	Industrial Power	Traction	Agriculture	Others	Utilities	Total including non-utility
	2	3	4	5	6	7	8	9	10
1939	2034.64	12.7A	—	66.2	10.6	3.2	7.3	N.A.	N.A.
1947	3358.79	17.9A	—	63.6	8.3	3.7	6.5	N.A.	N.A.
1948	3721.46	11.0	6.3	65.4	7.9	3.3	6.1	N.A.	N.A.
1949	4004.72	11.8	6.9	64.1	7.5	3.8	5.9	N.A.	N.A.
1950	4156.66	12.6	7.5	62.6	7.4	3.9	6.0	10.1	14.6
1951	4793.34	12.4	6.9	63.7	6.9	4.3	5.8	13.3	17.8
1952	5005.68	12.6	6.7	64.0	6.5	4.3	5.9	13.4	17.9
1953	5597.08	12.3	7.1	64.6	6.4	3.8	5.8	14.6	20.9
1954	6250.50	12.1	7.1	65.2	6.1	3.7	5.8	16.0	20.9
1955	7111.01	12.0	7.2	66.0	5.7	3.6	5.5	17.9	23.0
1956-57	7959.34	11.7	6.8	66.9	5.1	4.0	5.5	20.7	26.4
1957-58	9345.22	11.6	6.5	66.0	4.5	6.0	5.4	22.3	27.9
1958-59	10718.61	11.5	6.3	67.5	4.1	5.5	5.1	25.2	30.7
1959-60	12406.94	11.1	6.2	68.2	3.6	6.1	4.8	28.9	34.8
1960-61	13840.37	10.7	6.1	69.4	3.3	6.0	4.5	31.9	38.2
1961-62	16448.29	10.3	5.7	70.2	3.6	6.0	4.2	36.8	43.6
1962-63	18679.02	10.3	5.6	70.2	3.9	5.9	4.1	41.0	48.5
1963-64	21793.98	9.7	5.5	73.5	2.2	5.4	3.7	45.9	54.4
1964-75	24219.27	9.2	5.9	71.8	3.7	5.8	3.6	49.8	57.5
1965-66	26734.94	8.8	6.2	70.6	4.0	7.1	3.3	53.7	61.4
1966-67	29127.64	9.0	6.2	70.0	4.1	7.2	3.5	58.1	66.2
1967-68	32736.87	8.9	5.3*	69.8	4.0	7.9	4.1	63.6	71.6
1968-69	37352.35	8.5	5.7	69.3	3.3	9.3	3.9	70.8	77.9
1969-70	41061.70	8.6	5.7	69.1	3.5	9.2	3.9	76.0	83.5
1970-71	43724.16	8.8	5.9	67.6	3.2	10.2	4.3	80.9	89.8
1971-72	47063.20	8.7	6.3	67.2	3.5	10.6	3.7	84.4	93.8
1972-73	49088.06	8.8	5.7	65.7	3.7	12.0	4.1	86.9	96.38
1973-74	50245.38	9.2	6.0	64.6	3.0	12.6	4.6	87.15	97.48
1974-75	52631.64	9.8	5.9	62.1	2.9	14.7	4.6	89.44	98.99
1975-76	60245.81	9.66	5.82	62.36	3.08	14.48	4.60	100.33	109.95

A—Including commercial.

*—From the year 1967-68 onwards consumption of Misc. category has been shown under Col. 8.

TABLE No. 6.1.5
Annual per capita Consumption—Statewise Progress

Sl. No.	Name of the State	31-12-51	1-12-56	31-3-61
1	2	3	4	5
1.	Andhra Pradesh	N.A.	5.55	19.20
2.	Assam	N.A.	0.91	3.60
3.	Bihar	N.A.	8.28	41.50
4.	Gujarat	—	—	52.01
5.	Haryana	—	—	—
6.	Himachal Pradesh	—	—	N.A.
7.	Jammu & Kashmir	N.A.	N.A.	14.25
8.	Karnataka	N.A.	63.72	44.20
9.	Kerala	N.A.	N.A.	28.75
10.	Madhya Pradesh	—	—	19.59
11.	Maharashtra	N.A.	N.	52.00
12.	Manipur	N.A.	N.A.	N.A.
13.	Meghalaya	@	@	@
14.	Nagaland	—	—	—
15.	Orissa	N.A.	0.98	42.80
16.	Punjab	N.A.	18.20	32.90
17.	Rajasthan	N.A.	3.33	11.50
18.	Tamil Nadu	N.A.	21.03	50.50
19.	Tripura	N.A.	N.A.	N.A.
20.	Uttar Pradesh	N.A.	8.72	15.10
21.	West Bengal	N.A.	66.40	83.90
<i>Union Territories</i>				
(a)	A & N Islands	N.A.	N.A.	N.A.
(b)	Arunachal Pradesh	N.A.	N.A.	N.A.
(c)	Chandigarh	N.A.	N.A.	N.A.
(d)	D. & N. Haveli	N.A.	N.A.	N.A.
(e)	Delhi	68.48	122.91	186.80
(f)	Goa, Daman & Diu	N.A.	N.A.	N.A.
(g)	Lakshadweep	N.A.	N.A.	N.A.
(h)	Pondicherry	N.A.	N.A.	N.A.
(i)	Mizoram	@	@	@
Total (All-India)		17.80	26.40	38.20

TABLE No. 6.1.5—contd.

31-3-66	31-3-69	31-3-74	31-3-75	31-3-76	Sl. No.
6	7	8	9	10	1
30.90	43.06	60.58	62.00	65.78	1.
7.80	14.90	25.60	26.59	28.46	2.
57.70	60.96	71.03	70.81	84.11	3.
85.30	116.11	153.60	177.30	179.93	4.
—	75.22	140.78	124.88	152.87	5.
9.36	16.02	56.96	58.79	61.27	6.
N.A.	33.18	42.96	52.73	57.65	7.
55.10	69.82	120.95	122.35	141.89	8.
41.80	67.58	84.75	83.12	89.67	9.
37.79	48.68	68.42	70.51	82.98	10.
85.30	137.07	169.60	177.18	177.80	11.
4.26	3.20	7.90	7.73	9.46	12.
@	@	@	@	33.78	13.
2.10	8.05	34.91	27.22	26.91	14.
79.40	88.51	92.85	91.30	109.39	15.
101.60	164.97	196.51	155.22	231.59	16.
21.40	32.79	61.13	64.98	62.68	17.
88.70	115.00	133.25	133.14	142.06	18.
2.67	4.59	6.07	5.99	8.27	19.
29.90	49.04	57.85	60.88	73.35	20.
114.30	118.27	115.85	113.87	119.34	21.
21.88	26.43	28.68	27.78	43.94	(a)
N.A.	N.A.	5.21	3.40	8.05	(b)
N.A.	254.30	328.88	363.80	426.77	(c)
N.A.	8.57	14.94	14.75	25.19	(d)
205.50	241.49	315.79	321.74	318.11	(e)
12.94	80.67	132.62	131.11	150.23	(f)
1.23	5.33	8.82	11.88	23.71	(g)
134.92	163.49	187.32	225.07	219.52	(h)
@	@	@	@	4.78	(i)
61.30	77.88	97.48	98.99	109.95	Total

NOTE :— N.A.—Not available

%—Including Meghalaya & Mizoram upto the period 31-3-75.

@—Per capita consumption for previous years included in Assam.

TABLE NO. 6-1-6
Index Number of Public Electricity Supply Utilities
All India

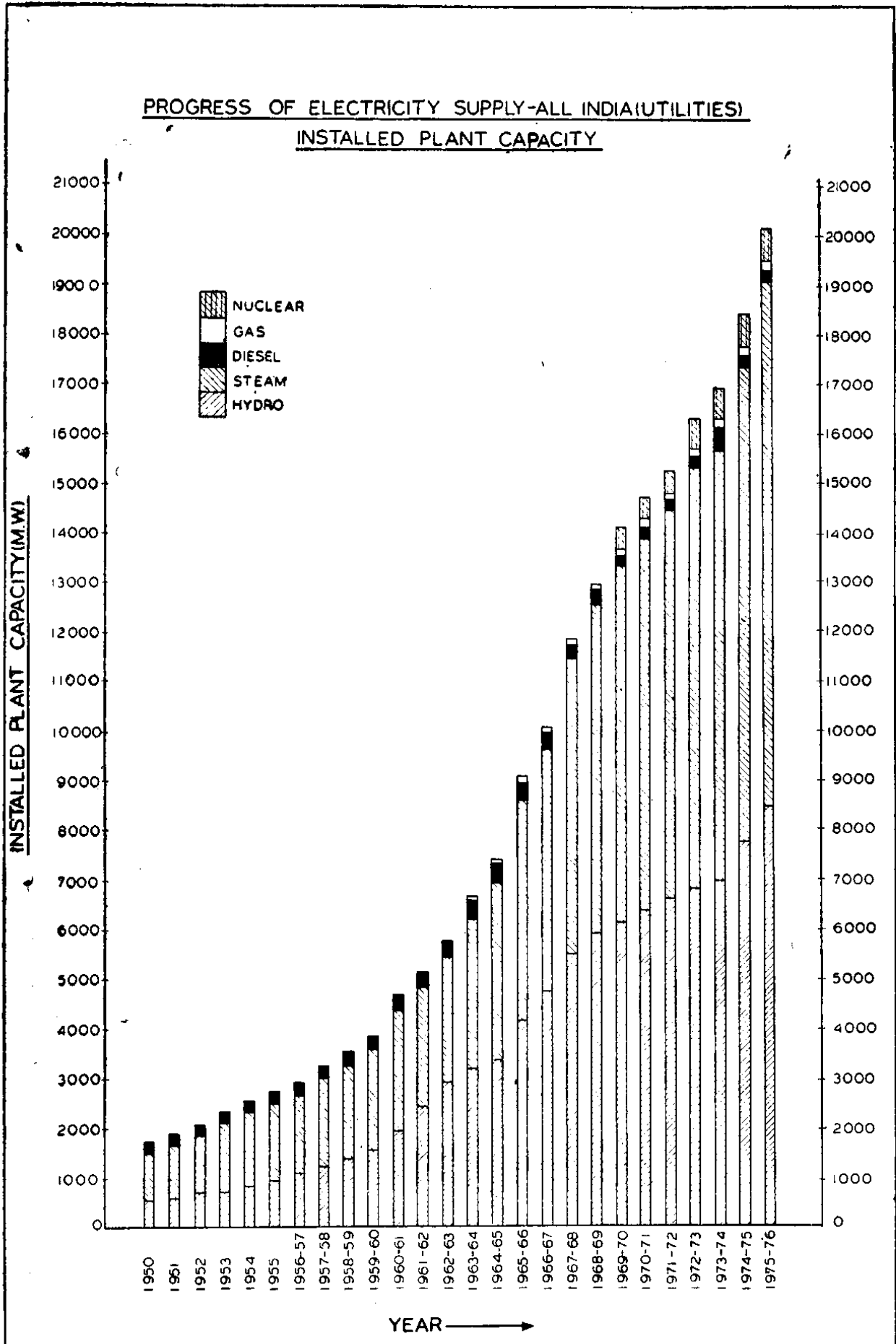
Sl. No.	31-12-50	31-12-56	31-3-61	31-3-66	31-3-69	31-3-74	31-3-75	31-3-76
1	2	3	4	5	6	7	8	9
Installed plant Capacity at the end of								
(a) Hydro	100	160.0	342.7	757.8	1056.1	1245.33	1346.16	1513.22
(b) Steam (Including Nuclear)	100	154.0	242.6	439.8	661.1	925.08	1034.67	1116.96
(c) Gas Turbine & Diesel	100	140.0	201.7	326.7	275.6	273.21	265.41	291.94
(d) All Types	100	157.4	271.8	527.2	756.6	972.97	1069.49	1174.61
1.	1951	1956	1960-61	1965-66	1968-69	1973-74	1974-75	1975-76
Energy Generated :								
(a) Hydro	100	150.1	274.0	532.4	724.6	1013.13	974.78	1164.54
(b) Steam (including Nuclear)	100	184.1	314.2	625.1	947.2	1291.17	1446.99	1573.22
(c) Gas Turbine & Diesel	100	106.2	167.5	178.6	144.5	212.98	259.78	247.05
(d) All Types	100	164.9	289.1	563.1	809.7	1138.37	1198.14	1352.46
(e) (i) Coal Consumption*	100	166.4	257.4	414.6	557.2	924.59	1094.78	1212.40
(ii) Diesel Oil Consumption in Gas Turbine and Diesel Power Stations	100	104.3	153.1	233.1	80.6	55.19	54.73	28.12
Aggregate Maximum Demand	100	165.1	294.2	606.2	902.0	1201.12	1292.20	1435.56
Energy Sales								
Domestic Light & Small Power	100	157.2	251.2	396.4	536.0	781.80	870.72	979.89
Commercial Light & Small Power	100	165.4	256.9	500.0	713.7	905.25	933.75	1062.59
Industrial Power	100	174.0	317.0	617.1	846.4	1061.86	1068.00	1228.15
Public Lighting	100	173.2	285.8	413.6	550.4	817.79	857.55	854.49
Railways/Tramways	100	122.9	137.7	324.4	378.2	464.44	464.56	562.91
Agricultural	100	155.7	410.2	931.7	1706.7	3107.71	3823.06	4295.03
Public Water Works & Sewage pumping	100	150.9	207.6	297.5	398.4	531.58	583.97	631.76
All Categories	100	166.1	208.9	557.8	779.2	1048.25	1098.01	1256.86

*Excludes wood and lignite.

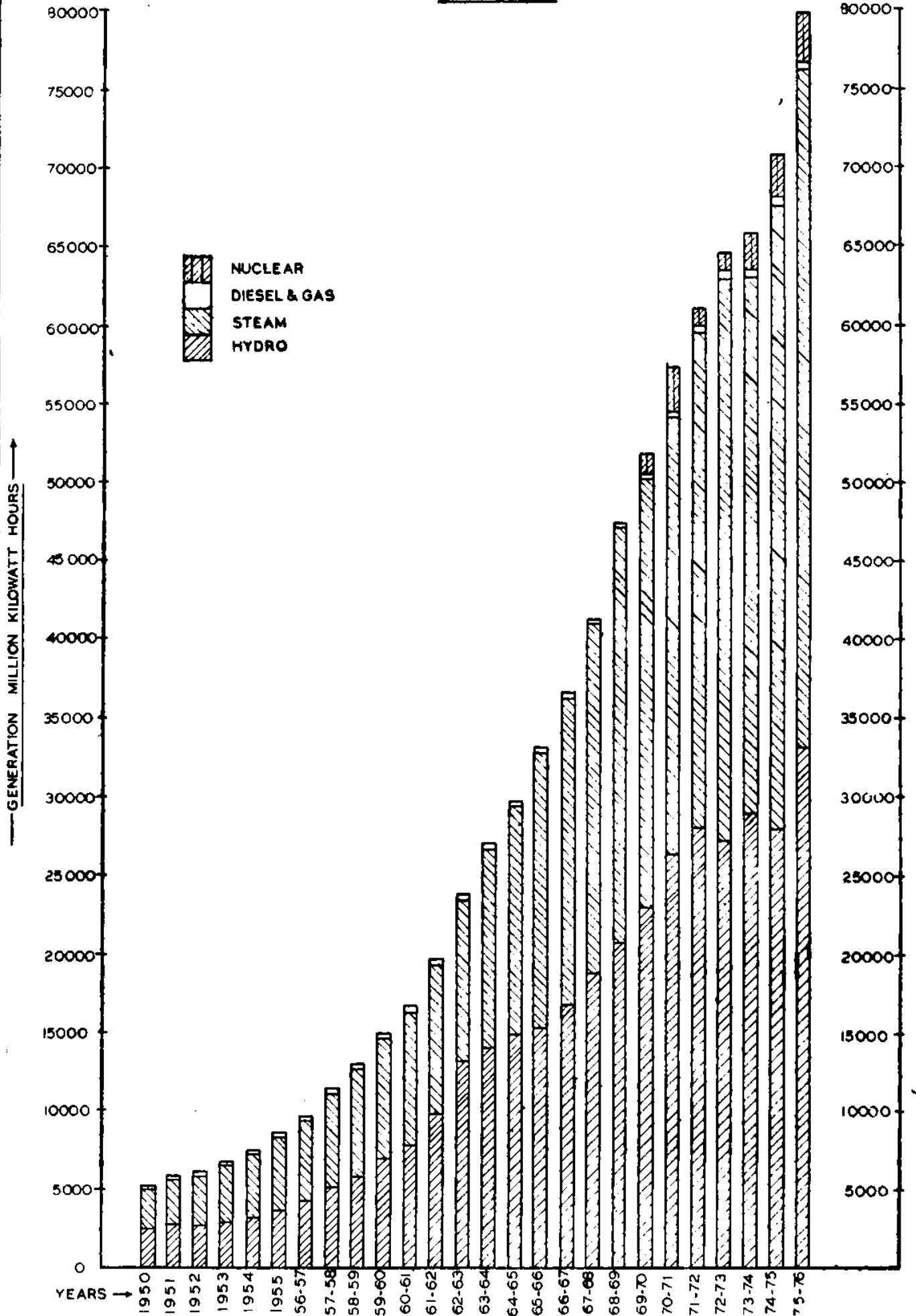
Base : (a) For installed capacity 31-12-50 (nearest available for beginning of First Plan)
(b) For generation and sales : 1951 (calendar year)

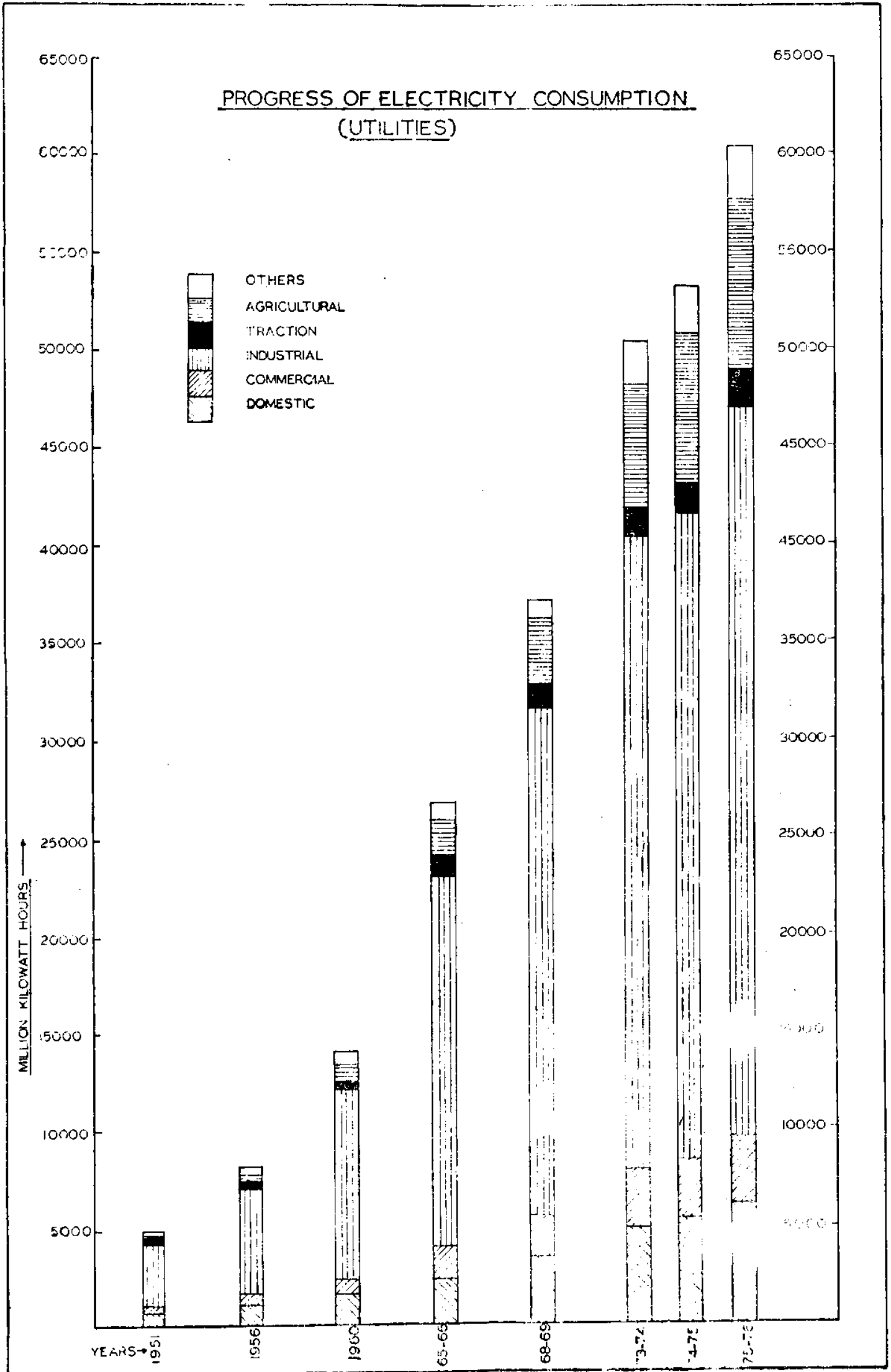
TABLE NO. 6-1-7
Progress of Transmission & Distribution Lines and Transformers

Year	Transformers Capacity (MVA)			Transmission & Distribution Lines (Circuit Kilometres)		
	Step up	Step down	Distribution	E.H. V. Lines (33 kV and above)	H.V. Lines (below 33 KV and above 500 V)	Distribution Lines (upto-500 V)
1	2	3	4	5	6	7
31-12-50	972.81	1366.76	834.37	11,831	17,440	N.A.
31-12-55	1681.92	2729.03	1654.15	22,720	43,701	N.A.
31-3-61	4644.33	7400.38	3726.93	46,181	1,11,706	N.A.
31-3-66	9514.00	16269.15	7010.40	86,681	2,04,365	2,50,658
31-3-69	14749.44	27999.00	12021.62	1,23,257	2,93,663	4,19,387
31-3-70	14695.86	31583.60	14228.56	1,33,641	3,41,541	5,00,877
31-3-71	16256.24	34726.70	17048.84	1,49,448	3,91,492	5,76,323
31-3-72	16962.96	40242.54	19479.37	1,58,968	4,35,491	7,09,710
31-3-73	19822.83	45195.67	25281.34	1,62,882	4,83,866	7,71,616
31-3-74	20792.40	45491.21	22734.61	1,66,259	5,24,318	8,55,520
31-3-75	23164.31	52570.28	25883.68	1,83,704	5,45,426	8,92,718
31-3-76	26031.15	56427.14	27724.29	1,88,965	5,74,179	9,55,798

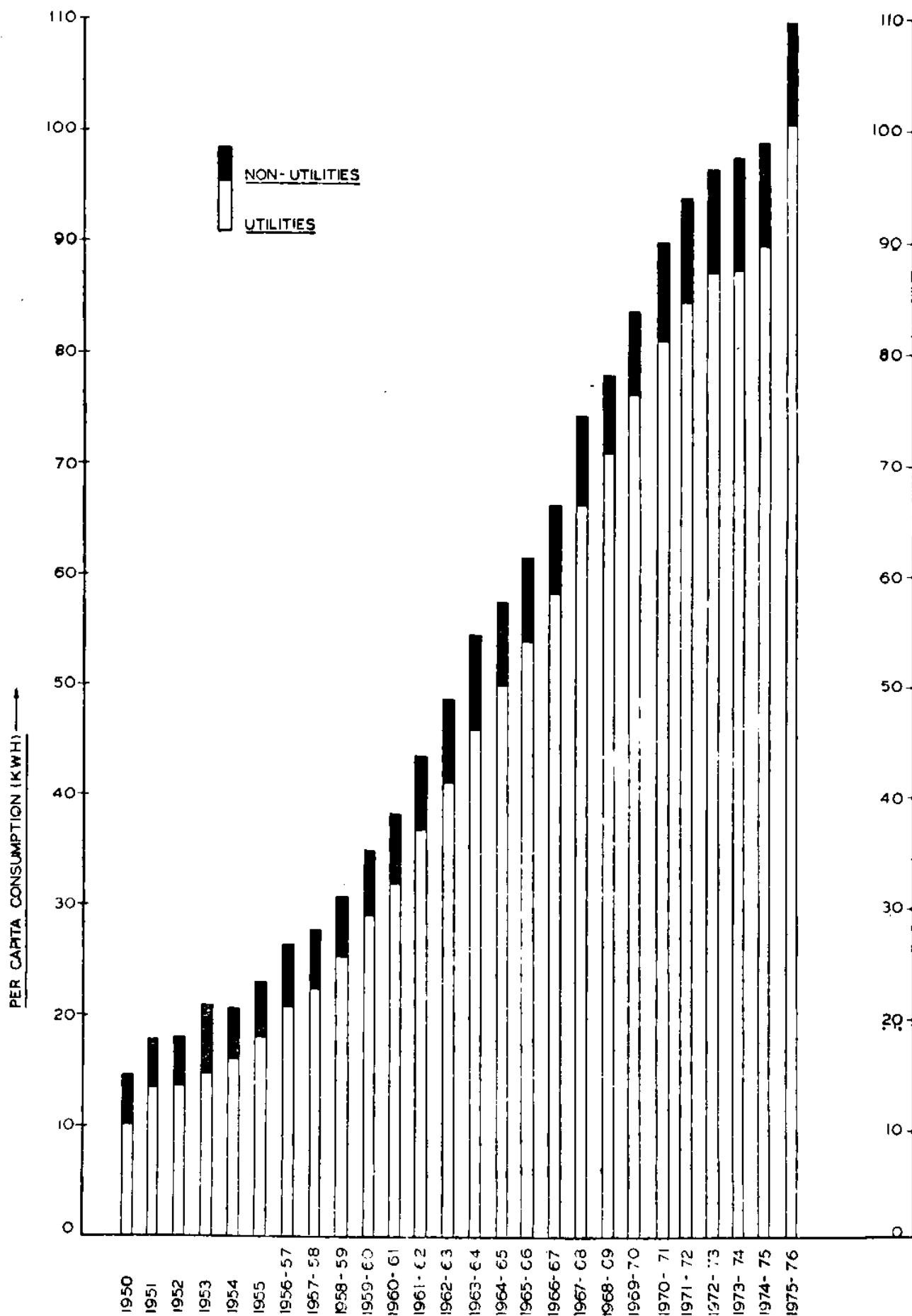


**PROGRESS OF POWER GENERATION IN THE COUNTRY
(UTILITIES)**

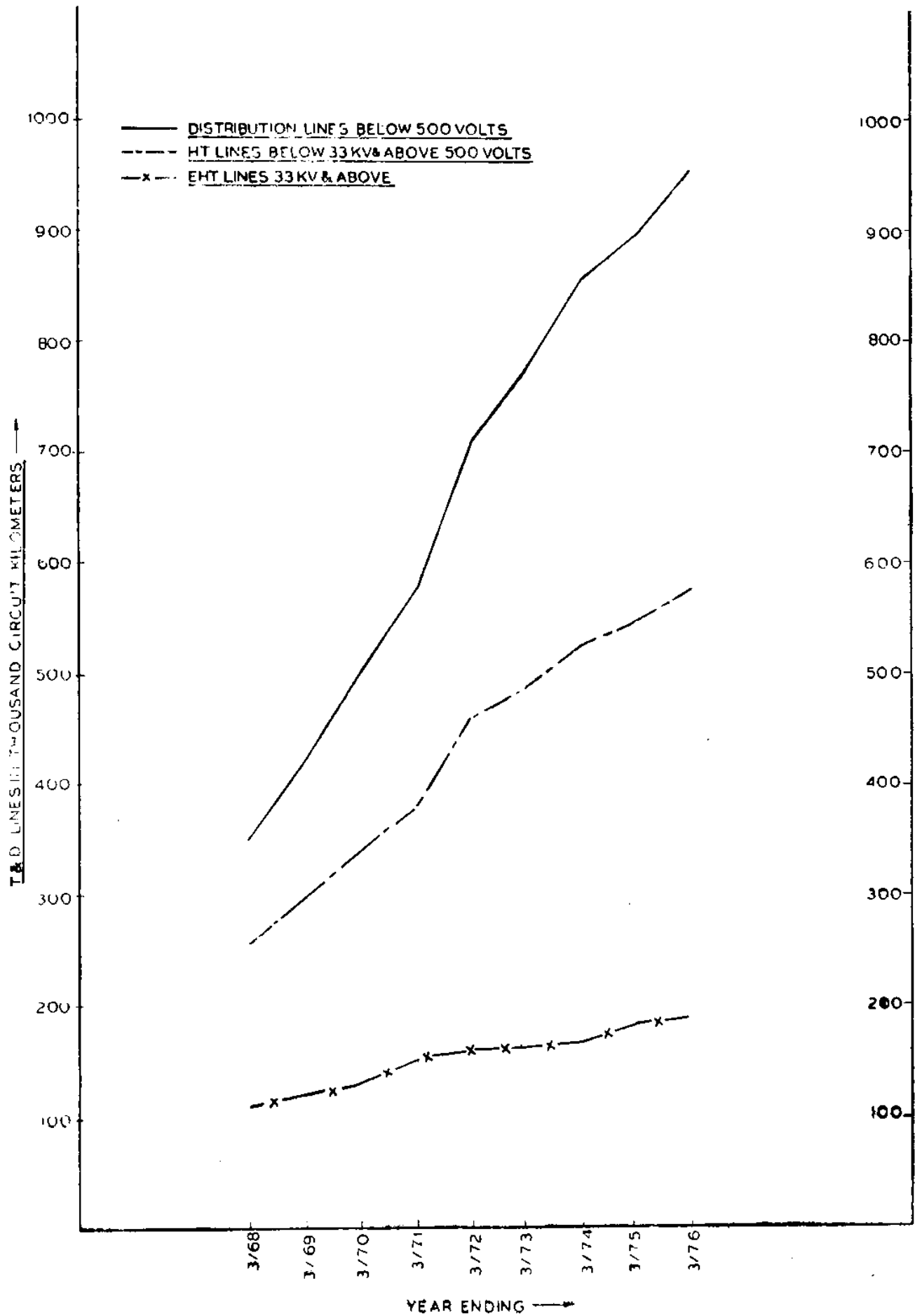




PROGRESS OF PERCAPITA CONSUMPTION OF ELECTRICITY



TRANSMISSION & DISTRIBUTION LINES (CIRCUIT KILOMETERS)
IN INDIA



FINANCIAL STATISTICS

SECTION—7

**GLANCE OF THE INDUSTRY, CAPITAL ACCOUNT,
REVENUE ACCOUNT, NET REVENUE AND APPROPRIATION
ACCOUNT, BALANCE SHEET
ETC.**

Financial Working of Utilities

The SEBs are required to compile and render their accounts in the forms prescribed by the State Governments in consultation with C&AG. The Licensees are required to prepare their accounts in the standard proforma prescribed in the Indian Electricity Rules, 1956. The accounts from the SEBs, Corporations, municipalities and private licensees are collected and compiled to prepare consolidated set of accounts for the electricity supply industry as a whole. In spite of close follow-up a few undertakings did not render their audited accounts and in such cases the figures for the previous year have been repeated. The impact of such assumptions is, however, insignificant as these assumption have been made only in the case of some small private undertakings. The financial details of RAPS and Koyna power house which belongs to Maharashtra Govt., Ballimela and Machkund power houses which belong to Orissa and Andhra Pradesh are also not included.

The financial details are covered in 11 tables which include consolidated balance sheet, revenue accounts and net appropriations accounts etc.

The value of the gross assets in use at the end of the year stood at Rs. 50853.9 million as compared to Rs. 45486.8 million for the previous year, recording an increase of 11.8%. The break up of these assets between the public and private sectors is given below:—

	1973-74	1974-75	%Increase
1. Government, Boards and Corporations.	40825.8	46036.5	12.8
2. Municipalities	1537.8	1639.9	6.6
3. Private Companies	3123.2	3177.5	1.7
Total :	45486.8	50853.9	11.8

It can be seen from the above that the capital additions in the public sector are very much higher than in the private sector.

The accounts of the undertakings permit the classification of the assets into four broad categories viz. generation, transmission, distribution and general. The share of the generating assets was the highest being 40.6% followed by distribution which has a share of 38.4%. The value of the assets in these four categories and the percentage increase over the previous year are given below:—

	1973-74	1974-75	%Increase
Generation	18154.7	20623.9	13.6
Transmission	7507.9	8267.1	10.1
Distribution	17593.0	19514.4	10.9
General	2231.2	2448.5	9.7
Total :	45486.8	50853.9	11.8

The average cost/KW installed works out to Rs. 2841 as compared to Rs. 2873 during the previous year.

Under the existing provisions of the Electricity (Supply) Act, 1948, the SEBs do not have share capital of their own and their capital requirements are met through borrowings from the State Governments, financial institutions and from the public through bonds and debentures. The private undertakings and other public sector undertakings, however, have their own share capital.

The private companies have equity and preference share capital of Rs. 529.4 million, and their borrowings stood at Rs. 614.5 million. The corresponding figures for the previous year were Rs. 530.8 million and Rs. 600.8 million. The reason for the reduction in the share capital is that several private licensees/undertakings were acquired during the year.

Most of the revenues of the electricity supply undertakings are realised by the sale of electricity. The gross revenues of the utilities increased by nearly 30% during the year 1974-75. The increase in revenues from the industrial sector is very significant and this is on account of higher revision in tariffs and increase in sales. The details of revenue from sales to different categories of consumers are given below:—

Sale of electricity	1973-74	1974-75	% total revenue in 1974-75
	(Rupees in Million)		
(i) Domestic and residential	1247.5	1507.8	11.3
(ii) Commercial	759.8	1035.1	7.8
(iii) Industrial	3833.8	5122.7	38.5
(iv) Public Water Works & Sewage Pumping	131.7	162.8	1.2
(v) Traction	184.5	240.1	1.8
(vi) Public Lighting	136.0	157.0	1.2
(vii) Irrigation	1006.1	1457.6	10.9
(viii) Other revenue (inclusive of interest on securities)	2765.7	3638.3	27.3
Total	10065.1	13321.4	100.0

While the revenue increased the operating expenses also increased significantly during the year. The total operating expenses excluding interest charges rose to Rs. 110443 million from Rs. 81941 million for the previous year. The Sector-wise details of operating revenue, operating expenses including interest charges are given below:—

A. REVENUE	1973-74	%	1974-75	%
		(Rupees in Million)		
1. Government Depts./State Electy. Boards/Power Corporations.	7615.5	75.66	10242.1	76.89
2. Municipalities	628.5	6.25	755.5	5.67
3. Companies.	1821.1	18.09	2323.8	17.44
Total :	10065.1	100.00	13321.4	100.00

B. OPERATING EXPENSES

	1973-74	1974-75
	(Rupees in Million)	
1. Government Depts./State Electy. Boards/Power Corps.		
(i) Expenses (O&M)	4928.2	6931.1
(ii) Depreciation	1147.6	1343.2
(iii) Interest charges Paid	1776.4	1729.0
Total :	7852.2	10003.3
2. Municipalities		
(i) Expenses (O&M)	481.4	671.5
(ii) Depreciation	37.7	48.5
(iii) Interest Charges paid	57.3	66.5
Total :	576.4	786.5
3. Companies		
(i) Expenses (O&M)	1512.0	1963.1
(ii) Depreciation	87.2	86.9
(iii) Interest Charges paid	64.8	69.6
Total :	1664.0	2119.6
Grand Total (1+2+3)	10092.6	12909.4

The total energy sold as per the accounts rendered came to 52650 million units which is at variance with the Statistical figures. The average revenue per kwh by sale of electricity including miscellaneous revenue for the year 1974-75 was 20.44 paise as compared to 14.55 paise for the previous year registering an increase of 40.5%.

The tentative financial results of the electricity supply industry for the year 1975-76 are summarized below:—

	State Elec. Boards/Depts./ power corpn.	Municipalities	Private companies	Total
	(Rs. in million)			
1. Total capital fixed assets in use.	51112.9	1768.4	3255.4	56136.7
2. Gross Operating revenue	12548.1	853.5	2736.7	16138.3
3. Total operating expenses including depreciations & interest charges paid	12048.0	917.7	2480.8	15446.5
Surplus/Deficit	(+) 500.1	(-) 64.2	(+) 255.9	(+) 691.8

It can be seen from the above that there has been 10.4% increase in the assets in use and 21.1% in the operating revenue and 16.0% in the operating expenses including depreciation and interest charges over the previous year.

TABLE NO. 7.1.1
Balance Sheet at a Glance as on 31st March 1975 in respect of Electricity Supply Industry in India
(Figures Rs. in Millions)

Figures for pre- vious year	Particulars	State Electricity Boards/ Power Depts. Power Corpn.	Munici- palities	Companies (Private Sector)	Total Electricity supply Industry	Net Funds flow during the year
1	2	3	4	5	6	7
PART 'A' WHAT THE INDUSTRY OWES						
(Liabilities)						
50,396	1. Loans	56,638	1,409	615	58,662	8,266
531	2. Share Capital	—	—	529	529	(—)2
12,393	3. Reserves & Surplus	11,712	877	1,836	14,425	2,032
9,404	(i) Depreciation	9,293	555	1,174	11,022	1,618
108	(ii) Capital	144	19	25	188	80
2,031	(iii) Non-Statutory	1,838	88	370	2,296	265
849	(iv) Others	437	215	261	913	64
1	(v) Accumulated Surpluses	—	—	6	6	5
(—) 4	(a) Last year	—	—	2	2	
5	(b) This year	—	—	4	4	
1,195	4. Consumers Contributions	1,127	79	217	1,423	228
12,299	5. Current Liabilities & Provisions	12,541	849	1,109	14,499	2,200
76,814	Grand Total	82,018	3,214	4,306	89,538	12,724
PART 'B' WHAT THE INDUSTRY HAS						
(ASSETS)						
45,487	1. FIXED ASSETS (Total i to vi)	46,036	1,640	3,178	50,854	5,367
18,154	(i) Generation	19,063	369	1,192	20,624	2,470
7,508	(ii) Transmission	7,892	43	332	8,267	759
17,593	(iii) Distribution	17,186	836	1,492	19,514	1,921
1,752	(iv) General	1,720	84	134	1,938	186
211	(v) Intangible	175	—	28	203	(—) 8
269	(vi) Special	—	308	—	308	39
34	(vii) Written down cost of obsolete assets	30	—	6	36	2
15,926	2. WORKS-IN-PROGRESS	18,135	475	146	18,756	2,830
13,794	3. CURRENT ASSETS (Total i to iv)	16,064	979	976	18,019	4,225
2,434	(i) Inventories (Stores)	2,947	202	225	3,374	940
9,219	(ii) Debtors & Receivable	11,521	472	588	12,581	3,362
2,277	(a) for Elect. Supply	2,633	220	368	3,221	944
6,942	(b) Others	8,888	252	220	9,361	2,418
904	(iii) Investments	521	212	87	820	(—) 84
1,237	(iv) Cash & Bank Balance	1,075	93	76	1,245	7
1,573	4. ACCUMULATED LOSSES	1,753	120	—	1,873	300
1,071	(i) Last year Balance	1,578	15	—	1,593	
502	(ii) This year	175	105	—	280	
76,814	GRAND TOTAL	82,018	3,214	4,306	89,538	12,724

TABLE No. 7.1.2.
Revenue & Expenditure Position at a Glance for the year 1974-75 in respect of Electricity Supply Industry in India

Figures for previous year	Particulars	(Figures Rs. in Million)					Increase/decrease over previous year
		State Elect. Boards/ Power Deptts./ Power Corpn.	Municipalities	Companies (Private Sector)	Total Electricity Supply Industry		
1	2	3	4	5	6	7	

PART 'A' WHAT THE INDUSTRY EARNED DURING THE YEAR

(Revenue)

9,136	1. FROM SALE OF ELECTRICITY	9,325	641	2,260	12,226	3090
893	2. OTHER SOURCES	917	81	64	1,062	169
10,029	GRAND TOTAL	10,242	722	2,324	13,288	3,259

PART 'B' HOW THE INDUSTRY SPENT DURING THE YEAR

(Operating Expenditure including Depreciation.)

2,381	1. Generation	2,864	149	692	3,705	1,324
1,728	(a) Fuel & Consumables	2,171	131	558	2,860	1,728
653	(b) Salaries & Maintenance	693	18	134	845	653
2,014	2. Power Purchased	1,362	302	937	2,601	587
172	3. Transmission	204	1	15	220	48
1,316	4. Distribution	1,393	128	172	1,693	377
1,038	5. General Establishment & Management Expenses	1,108	91	148	1,347	309
1,273	6. Depreciation	1,343	49	86	1,478	205
1,835	7. Gross Surplus	1,968	2	274	2,244	409
10,029	Grand Total	10,242	722	2,324	13,288	3,259

PART 'C' HOW THE INDUSTRY APPROPRIATED THE GROSS SURPLUS

1,899	1. Interest of Loans	1,729	67	70	1,866	(-)33
1,808	(i) Long term loans	1,660	64	42	1,766	(-)42
24	(ii) Consumer Security Deposit	22	3	5	30	(-)6
67	(iii) Short term loans	47	—	23	70	3
51	2. Miscellaneous	20	24	2	46	(-)5
61	3. Taxes on Income/profits	—	—	91	91	30
298	4. Reserves	394	16	57	467	169
23	5. Dividends	—	—	50	50	27
(-)497	6. Surplus/Deficit	(-)175	(-)105	4	(-)276	221
1,835	Grand Total	1,968	2	274	2,244	409

TABLE No. 7.1.3

State-wise Original Value of Fixed Assets in use in the Public & Private Sectors as on 31-3-75.

(Figures in Rs. lakhs)

Sl. No.	State, Central Govt. Power Corporation and Union Territories.	Public Sector				Private Sector		Total	
		Government, Boards and Corporations.		Municipalities		Companies		Total	
		1973-74	1974-75	1973-74	1974-75	1973-74	1974-75	1973-74	1974-75
1	2	3	4	5	6	7	8	9	10
1.	Andhra Pradesh	28,123	34,324	..	..	180	215	28,303	34,539
2.	Assam	7,437	7,866	..	..	91	99	7,528	7,965
3.	Bihar	26,383	27,992	..	..	483	495	26,866	28,487
4.	Gujarat	23,951	25,829	363	378	4,971	5,386	29,285	31,593
5.	Haryana	15,213	16,178	..	..	..	..	15,213	16,178
6.	Himachal Pradesh	2,865	2,875	..	..	..	..	2,865	2,875
7.	Jammu & Kashmir	..	..	..	..	..	..	..	..
8.	Karnataka	14,333	16,489	..	..	276	121	14,609	16,610
9.	Kerala	15,229	16,075	48	53	73	75	15,350	16,203
10.	Madhya Pradesh	23,659	25,824	..	..	288	..	23,947	25,824

TABLE NO. 7.1.3 (Contd.)

1	2	3	4	5	6	7	8	9	10
11.	Maharashtra	39388	45833	6260	6911	12243	12699	57891	65443
12.	Meghalaya@ . . . .	..	..	..	..	..	..	..	..
13.	Nagaland . . . . .	..	338	..	..	..	..	..	338
14.	Orissa	13,081	15,651	..	..	..	..	13,081	15,651
15.	Punjab	21,042	25,096	216	215	13	18	21,271	25,329
16.	Rajasthan	20,511	22,611	..	..	134	149	20,645	22,760
17.	Tamil Nadu	49,182	52,912	247	259	..	..	49,429	53,171
18.	Uttar Pradesh	57,844	60,701	292	293	3,044*	2,688	61,180	63,682
19.	West Bengal	9,021	9,291	39	39	9,436	9,836	18,496	19,160
20.	Power Corporation & Central Govt.‡	39,410	52,597	..	..	..	..	39,410	52,597

§(Badarpur, DVC, Durgapur Projects Ltd., Neyveli Lignite Corporation, Mysore Power Corporation, & Tarapur)

Union Territories

(a)	Delhi . . . . .	..	..	7,913	8,251	..	..	7,913	8,251
(b)	Rest	1,586	1,883	..	..	..	..	1,586	1,883
Total		4,08,258	4,60,365	15,378	16,399	31,232	31,775	4,54,868	50,8539

*Includes Renusagar (Non Utility Company)

@Came into existence in January, 1975

& upto 20th January, 1975.

‡After 20th January 1975 came under Meghalaya.

TABLE NO. 7.1.4
Public Electricity Supply Industry—Consolidated Annual Accounts for the Year ending 31st March
1975.

CAPITAL ACCOUNT

(figures in Rs. lakhs)

4 Particulars		Govt. Depts./Boards/Power Corps.	Muni-cipalities	Com-panies	Total	1973-74	Particulars	Govt. Depts./Boards/Power Corps.	Muni-cipalities	Companies	Total
1	2	3	4	5	6	7	8	9	10	11	12
1. To Generation Assets							1. By Capital Raised				
(a) Steam Power Stations—							(a) Invested by States				
	(i) Land	871	5	117	993	G-4,85,516	(i) Govt. Undertakings				4,15,902
	(ii) Buildings	10,800	83	1,048	11,931		Govt. Loan	4,15,902	..	..	37,770
	(iii) Boilers, Turbine Generators, etc.	83,270	3,352	8,036	94,658		LIC loan	37,770	..	..	21,638
	(iv) Others equipments.	12,234	..	420	12,654	M-12,434	REC loan	21,638	..	..	15,822
G-89,240							Approved	15,822	..	..	75,251
M-3,440							Institutions.	75,251	..	..
C-9,637							Bonds				
	Group Total :	10,71,75	3,440	9,621	1,20,236		(ii) Municipal Undertakings		14,089	..	14,089
1,02,317						4,97,950	Group Total	5,66,383	14,089	..	5,80,472
	(b) Oil Power Stations						(b) Invested by Private Company Sector				
	(i) Land	144	..	1	145		(i) Ordinary Share Capital			4,316	4,316
	(ii) Building	712	10	10	732	0-4,373	(ii) Preference Share Capital			978	978
	(iii) Engines Generators, etc.	2,849	176	65	3,090	P-935	(iii) De-bentures			3,840	3,840
G-3,827	(iv) Other Equipment	125	..	..	125	D-3,353	(iv) Other Secured Loan Capital			2,305	2,305
M-188											
C-77											
4,092	Group Total	3,830	186	76	4,092	SL-2,655 G-655 M-101 C-235	2. By Capital Reserve	1,438	196	246	1,880
	(c) Hydro Power Stations.						3. By Consumer Contribution for service lines				
	(i) Land	1,205	1	73	1,280						
	(ii) Buildings	7,513	2	139	7,654	1081					
G-72,907	(iii) Hydraulic Power Plant	45,407	23	540	45,970	G-9,071					
M-67	(iv) Civil Works	18,978	41	1,467	20,486	M-714					
C-2,164						C-2,166					
75,138	Group Total	73,104	67	2,219	75,390	11,951		11,264	790	2,171	14,225
	(d) Nuclear Power Stations										
	(i) Land	23	..	..	23						
	(ii) Buildings	116	..	..	116						

	(iii) Plant & Machinery	6,300	..	..	6,300				
	(iv) Civil/Misc. Works.	82	..	..	82				
	Group Total	6,521	..	..	6,521				
1,81,547	Sub-Total (Generation Assets)	1,90,630	3,693	11,916	2,06,239				
75,079	(2) To Transmission Assets	78,925	428	3,318	82,671				
	(3) To Distribution Assets:								
	(i) Cables and Main	99,588	3,012	5,724	1,08,324				
	(ii) Sub-stations Transformers	35,068	2,059	3,799	40,926				
	(iii) Service Lines	21,331	1,911	3,494	26,736				
	(iv) Public Lighting	2,464	376	71	3,211				
	(v) Meters, Testing Instruments etc.	13,412	1,006	29	15,947				
G-1,53,728 M 7,806 C-14,396	Group Total:	1,71,863	8,364	14,917	1,95,144				
1,75,930	(4) To General Assets								
	(i) Land, Buildings and Structures, etc.	6,828	512	494	7,834				
	(ii) Office Furniture and Misc. Equipment.	3,270	125	532	3,927				
	(iii) Workshop Plant and equipment tools and implements	2,678	116	50	2,844				
	(iv) Transportation and Communication	4,425	85	267	4,777				
G-15,450 M-789 C-1278	Group Total	17,201	838	1,343	19,832				
17517	(5) To Intangible Assets.	1,746	1	281	2,028				
G-1,581 M-1 C-525	(6) To Special Items								
2,107	Buses in the case of Bombay)	..	3,075	..	3,075				
M-2,688	Total Carried Over to General Balance Sheet	4,60,365	16,399	31,775	50,8539	G-4,95,242 M-13,339 C-13,717	5,79,085	15,075	13,856
G-4,03,258 M-15,378 C-31,232									6,08,016
4,54,868					5,22,298				

G—Government's
M—Municipalities
C—Companies
O—Ordinary Share Capital

SL—Secured Loans
P—Preference Share Capital
D—Debentures
LIC—Life Insurance Corporation
REC—Rural Electrification Corporation
Approved :—Banks, Finance Corporations, etc.
Institutions

TABLE NO. 7.1.5
Revenue Account—1974-75

(Figures in Rs. lakhs)

1973-74	Particulars	Govt. Depts./Boards/Power Corps.	Municipalities	Companies.	Total	1973-74	Particulars	Govt. Depts./Boards/Power Corps.	Municipalities	Companies.	Total
1	2	3	4	5	6	7	8	9	10	11	12
G-12,303 M- 646 C- 3,502	To operating Expenses 1. Generation					G-8,587 M-1,592 C-2,296	By Operating Revenue 1. Sales of Electricity				
16451 G-249 M- 25 C- 14	a(i) Coal	20,307	1295	5,495	27,097	12,475	(i) Domestic & Residential	10,566	1,853	2,659	15,078
288	(ii) Oil	337	3	13	353	G-5,113 M-1,428 C-1,057	(ii) Commercial	7,434	1,645	1,272	10,351
G-476 M- 14 C- 53	(iii) Uranium	334	..	..	334	7,598	(iii) Industrial	36,152	1,968	13,107	51,227
543	(iv) Consumable Store	731	8	74	813	G-26,675 M- 1,549 C-10,114	(iv) Public Lighting	1,245	141	184	1,570
G-2,681 M- 99 C- 450	(b) Salaries and Wages	3,942	142	521	4,605	1360	(v) Public Water Works and Sewage Pumping	1,017	248	363	1,628
3230	(c) Repairs & Maintenance	2,988	39	815	3,842	G-1072 M- 118 C- 170	(vi) Agricultural	14,392	23	161	14,576
G-2,665 M- 22 C- 614	(d) Purchase of Energy	13,616	3,025	9,372	26,013	1317					
3301						G-804 M-212 C- 301					
G- 10,212 M- 2,388 C- 7,543						9,920 M- 17 C- 124					
20,143						10,061					
20,143											
G- 850 M- 7 C- 92	2. Transmission					G- 1,450 M- 1 C- 394					
949						1845					

G-737	(a) Salaries and wages	1,182	7	106	1,295	G-14,728	(vii) Traction	1,878	1	522	2,401
M-35						M-532	(viii) Supplies in Bulk to Distributing Licensees.	20,573	529	4,330	25,432
C-35	(b) Repairs and Maintenance	862	..	43	905	C-3,108					
772						18,368		1,442	115	188	1,745
G-5,202	3. Distribution					G-1103	2 Meter and Other Rentals				
M-542	(a) Salaries and Wages	6,744	727	583	8,054	M-102					
C-580						C-159					
6,324						1,364					
G-3,213						G-624					
M-168	(b) Repairs and Maintenance	4,313	166	485	4,964	M-6	3. Service connection Fees	512	4	12	528
C-405						C-10					
3,786						640					
G-366	(c) Public Lighting (Attendance repairs and renewals)	431	68	142	641						
M-61											
C-126											
553											
	4. Consumer Servicing (Billing Accounting, etc.)										
G-598						G-55	4. Public lighting Maintenance.				
M-23	(a) Salaries & wages	903	25	70	998	M-124		65	249	26	340
C-52						C-20					
673						199					
G-1,216											
M-214						G-5,613	5. Miscellaneous				
C-391						M-575					
1,821	(b) Other Expenses	1,537	297	436	2,270	C-395	Receipts	6,590	738	356	7,684
	5. General Establishment Charges					6,583					
G-4,351											
M-174	(a) Salaries & Wages	5,906	264	369	6,539						
C-327											
4,852											
G-4,163	(b) Other expenses (including Provident Fund etc.)	5,178	565	1,079	6,822						
M-362											
C-903											
5,428											
C-9	6. Management Expenses										
	(a) Directors fee and expenses.	..	..	10	10						
	(b) Managing Agents Ordinary Remuneration and										158

TABLE No. 7.1.5—(Contd.)

1	2	3	4	5	6	7	8	9	10	11	12
C—24	Office Allowance	..	..	18	18						
	7. Administration										
	Members Remu-										
	neration and										
	other expenses										
	(L.A.)	..	84	..	84						
M—69											
G—11,476											
M—377											
C—872											
12725	8. Depreciation	13,432	485	869	14,786						
G—60,758											
M—5,191											
C—15,992											
81,941	Total Operating	82,743	7,200	20,500	1,10,443						
G—14,986	Expenses										
M—1,065	To Balance Carried	19,281	314	2,680	22,275						
C—2,156	Over to N.R.										
	& A. Account										
18,207											
G—75,744						G—75,744					
M—6,256						M—6,256					
C—18,148						C—18,148					
1,00,148	Total	1,02,024	7,514	23,180	1,32,718	1,00,148		1,02,024	7,514	23,180	132718

TABLE No. 7.1.6
Net Revenue and Appropriation Account—1974-75

(Figures in Rs. lakhs)

3-74	Particulars	Govt. Deptts./ Boards Power Corpns.	Muni- cipalities	Com- panies.	Total	1973-74	Particulars	Govt. Deptts./ Boards/ Power Corpns	Muni- cipalities	Com- panies	Total
1	2	3	4	5	6	7	8	9	10	11	12
	(Applicable to local authority licensee only)	To Appropriation									
						G— 14,986 M— 1,065 C— 2,156	Revenue By balance brought forward from Revenue Accounts.	19,281	314	2,680	22,275
M—	99 (a) Interest on Loan Capital	—	107	..	107	18,207 G—411 M— 29 C— 63	By interest on securities and investment	397	41	58	496
						503					
M—	23 (b) Instalment of redemption of loan capital	..	23	..	23		By deficit on incidental business (Buses & Omnibuses of Bombay Municipality)				
M—	244 (c) General Rates	..	243	..	243		By balance of profit brought forward from previous year			17	17
C—	611 To taxes on income and profits	..	..	912	912	M—(—) 351	By Balance carried over to General Balance Sheet	17,532	1,202	..	18,734
G—	107 To instalment of write down in respect of Intangible Assets	..	..	..	..			..	(—)332	..	(—)32
M—	161	200	..	20	220			..	..	..	..
M—	268 To contribution towards Contingencies Reserve	..	..	..	..	M— 105 G— 15,610 M— 124		..	..	..	..
C—	81	..	19	97	116	15,734		..	..	..	..
G—	107 To Development Reserve	..	..	32	1,613			..	..	..	..
M—	440	1,581	..	..	..			..	..	..	..
C—	72	..	..	..	..			..	..	..	..
	512 To appropriations to tariff and Dividends control Reserve	..	..	4	4			..	..	..	..
G—	7	..	..	..	..			..	..	..	..
M—	29 To appropriations to Consumers Rebate Reserve	..	31	2	33			..	..	..	..
C—	6	..	..	..	..			..	..	..	..
	35 To Special appropriation permitted by States Governments	..	..	214	214			..	..	..	..
C—	21	..	..	..	..			..	..	..	..
G—	1,869	..	..	..	..			..	..	..	..
M—	77	..	..	..	..			..	..	..	..

TABLE No.7.1.6 (Contd.)

1		2	3	4	5	6	7	8	9	10	11	12
C—	330	To Other Appropriation.										
	2,276		2,353	97	223	2,673						
		To appropriation towards interest paid and accrued and Dividends paid and payable										
C—	261	(a) Interest on debentures	..	..	294	294						
G—	17,151	(b) Interest on other Secured Loans	16,598	529	122	17,249						
M—	444											
C—	122											
	17,717											
G—	177	(c) Interest on consumers Security Deposit	225	29	46	300						
M—	21											
C—	42											
	240											
G—	436	(d) Interest on unsecured loans advances, deposits, bank over draft, etc.	467	..	234	701						
M—	9											
C—	223											
	668											
C—	64	(e) Dividend on Preference Share Capital	..	..	70	70						
		(f) Dividends on Ordinary Share Capital	..	..	425	425						
C—	164	To Balance of Last brought forward.	15,786	147	..	15,933						
G—	10827											
C—	42											
	10,869											
C—	12	To Balance carried over to General Balance Sheet.	..	..	60	60						
G—	31,007						G—31,007					
M—	972						M— 972					
C—	2,219						C— 2,219					
	34,198	Total	37,210	1,225	2,755	41,190	34,198	37,210	1,225	2,755	41,190	

TABLE NO. 7.1.7
General Balance Sheet as on 31st March, 1975

(Figures in Rs. lakhs)

1973-74	Particulars	Govt. Deptts./ Boards/ Power Corpns.	Municipalities	Companies	Total	1973-74	Particulars	Govt. Deptts./ Boards/ Power Corpns.	Municipalities	Companies	Total
1	2	3	4	5	6	7	8	9	10	11	12
5,22,298	LIABILITIES Fixed Capital raised and appropriated as per the Capital Account.	5,79,085	15,075	13,856	6,08,016	4,54,868	ASSETS Capitals	4,60,365	16,399	31,775	5,08,539
3,859	Capital Redemption Sinking Fund and other Reserves.	1,645	1,644	301	3,590	94,039	Expenditure on works as per the Capital Account Less Accumulated provision for depreciation	92,926	5,549	11,745	1,10,220
20,314	RESERVES AND SURPLUS : Non Statutory Reserve	18,384	881	3,700	22,965	3,60,829 338	Net Block: Balance of written down cost of obsolete and inadequate assets	3,67,439 302	10,850 3	20,030 54	3,98,319 359
70	Special appropriation (as permitted by State Govt.)	..	..	70	70	1,59,260	Current Assets: Capital	1,81,344	4,752	1,462	1,87,588
1,126	Contingencies Reserve Fund	72	211	725	1,008		Works in Progress, Stores and Material in hand				
389	Tariffs and Dividends Control Reserve	147	2	211	360	501	(a) Fuel, Coal and/or oil at cost.	3,471	51	232	3,754
407	Consumers Rebate Reserve	1	288	145	434						
2,640	Development Reserve	2,503	8	1,156	3,667	23,842	(b) General Stores at a Below Cost	25,996	1,976	2,017	29,989
12	Balance of Net Revenue and Appropriation Account	..	..	60	60	22,772	Sundry Debtors for Electricity Supplied.	26,331	2,198	3,684	32,213
						41,433	Other Debtors.	36,644	1,337	1,163	39,144
						24,432	Accounts Receivable	49,177	1,090	242	50,509

TABLE NO. 7.1.5— (Contd.)

1	2	3	4	5	6	7	8	9	10	11	12
32,789	<i>Current Liabilities and Provisions :</i> Creditors on open account.	32,656	928	3,825	37,409		Investment in Statutory Securities at cost				
16,030	Consumers Security Deposit.	15,583	1,557	1,459	18,599	653	(a) Contingencies Reserve Fund	..	5	650	655
49,700	Accounts Payable	58,290	5,947	3,782	68,019	8,387	Investment Market value on closing date.				7,541
917	Balance due on construction of Plant and Machinery	1,257	..	52	1,309		(b) Other Investment (Market value on closing ate.)	5,205	2,114		
23,550	Temporary accommodations Bank overdrafts and other finances	17,628	51	1,975	19,654	427	<i>Special Deposits :</i>	..	..	750	750
						2,936	(a) In respect of taxation				
						3,784	(b) Other	2,702	92	44	2,838
						6,676	<i>Balance at Bank :</i>				
						1,909	(a) Deposit Account	2,748	570	185	3,503
						188	(b) Current Account and at Call	6,276	325	520	7,121
						15,734	(c) Cash in hands	1,729	27	59	1,815
							<i>Debit Balance :</i>				
							Deferred payment	355	..	3	358
							Debit	17,532	1,202	..	18,734
							Balance of Net Revenue and Appropriation				
6,74,101	Total	7,27,251	26,592	31,317	7,85,160	6,74,101	Accounts Total	7,27,215	26,592	31,317	7,85,160

TABLE NO. 7.1.8
Average Price of Electricity—1974-75

Sl. No.	Category of Sale	Kwh sold (Million)	Revenue realised in Rupees (Lakhs)	Revenue realised per Kwh sold (Paise).
1	2	3	4	5
1.	Domestic Lights, Heating and Small Power.	5,589	15,078	26.98
2.	Commercial Lights, Heating and Small Power	2,903	10,351	35.66
3.	Industrial Low, Medium and high Voltage	33,273	51,227	15.40
4.	Public Lighting	586	1,570	26.79
5.	Traction	1,486	2,401	16.16
6.	Agricultural	7,714	14,576	18.90
7.	Public Water Works and Sewage Pumping	1,099	1,628	14.81
	Total	52,650	96,831	18.39
8.	Miscellaneous		10,793	
9.	All Purposes	52,650	1,07,624	20.44

TABLE NO. 7.1.9
Some Important Financial Features for the Years 1972-73 to 1974-75

Sl. No.	Particulars	Units	1973	1974	1975
1	2	3	4	5	6
1.	Installed Plant Capacity	Kw	15,571,765	15,832,715	17,899,485
2.	Average cost per KW installed :	Rs.	2,696	2,873	2,841
	Generation		1,110	1,147	1,152
	Transmission		457	474	462
	Distribution		1,000	1,111	1,090
	Miscellaneous		129	141	137
3.	Number of Consumers	No.	17,710,396	19,131,215	20,509,255
4.	Average Capital Outlay per consumer	Rs.	2,370	2,378	2,479
5.	Maximum Demand	KW	13,452,430	13,829,180	15,244,810
6.	Average Capital Outlay on Transmission, Distribution, Miscellaneous per KW of Maximum demand	Rs.	1,818	1,957	1,963

Note :—The installed Plant Capacity, Maximum Demand and the number of consumers have been shown only in respect of those undertakings whose financial Data have been compiled.

TABLE NO. 7.1.10
Consolidated Capital Outlay by Ownership for the Years 1970-71 to 1974-75

Particulars	1971		1972		1973		1974		1975	
	(Out-lay (Rs. Lakhs)	Per-centage of total	Out-lay (Rs. Lakhs)	Per-centage of total	Out-lay (Rs. Lakhs)	Per-centage of total	Out-lay (Rs. Lakhs)	Per-centage of total	Out-lay (Rs. Lakhs)	Per-centage of total
Public Sector	2,85,720	90	3,26,808	91	3,87,608	92	4,23,636	93	4,76,764	94
Private Sector	29,698	10	31,002	9	32,134	8	31,232	7	31,775	6
Total	3,15,418	100	3,57,810	100	4,19,742	100	4,54,868	100	5,08,539	100

TABLE NO. 7.1.11
Consolidated Capital Outlay of Electricity Supply Undertaking for the Years 1970-71 to 1974-75

Particulars	Units	1971	1972	1973	1974	1975
1	2	3	4	5	6	7
On-Electrical Works	Rs. Lakhs	3,13,291	3,55,734	4,17,390	4,52,180	5,05,464
Non-Electrical Works like Buses and omnibus	Rs. Lakhs.	2,127	2,076	2,352	2,688	3,075
Total		3,15,418	3,57,810	4,19,742	4,54,868	5,08,539

SECTION-8
ELECTRICITY TARIFF
AVERAGE RATES AND DUTIES OF ELECTRICITY
IN INDIA AS ON
31-3-1976

ELECTRICITY TARIFFS

8.1 GENERAL

Table No. 8 shows the average rates of electricity for 1975-76 with duty/tax applicable in different State Electricity Boards/Public Electricity Departments/major licensees of the country for some typical categories of consumers. During the period from April, 1975 to March, 1976 (1975-76) several changes in electricity tariffs were made effective in the country. The State Electricity Board of Andhra Pradesh, Assam, Bihar, Gujarat, Himachal Pradesh, Karnataka, Punjab, Tamil Nadu and West Bengal increased their tariff with effect from 20-10-1975, 1-2-1976, 15-7-1975, 1-1-1976, 1-12-1975, 1-3-1976, 30-9-1975, 30-8-1975 and 24-12-1975 respectively. Tariff were also increased by Dadra and Nagar Haveli, Delhi, Nagaland, Pondicherry and Tripura with effect from 1st February, 1976, 1st April, 1975, 1st January, 1976, 24th January, 1975 and 1st March, 1976 respectively. The major licensees viz Ahmedabad, B.E.S.T., Bombay Suburban, Tatas, Calcutta Electric Supply Corporation increased their tariff with effect, from 1st May, 1975, 16th October, 1975, 18th October, 1975, 16th October, 1975 and 1st April, 1975 respectively.

8.2 AVERAGE RATES :

The minimum and maximum rates, inclusive of Duty and Fuel surcharges as applicable for the following categories in different States Electricity Boards are as given below:—

Sl. No.	Category	Minimum		Maximum	
		Average Rate per kWh in Paise	State Electricity Board	Average Rate per kWh in Paise	State Electricity Board
(1)	(2)	(3)	(4)	(5)	(6)
1.	Domestic lights and fans (30 kWh per month)	27.75	Jammu and Kashmir	48.00	Assam and West Bengal
2.	Commercial lights and fans (200kWh per month)	31.50	Himachal Pradesh	75.00	Andhra Pradesh
3.	Agricultural 10 H.P. 15% L.F. (817kWh P.M.)	9.00	Himachal Pradesh	38.00	West Bengal
4.	Small Industry 10kW 20% L.F. (146 kWh P.M.)	8.82	Kashmir	32.33	West Bengal
5.	Large Industry 1000kW 50% L.F. (365.000kWh P.M.)	4.36	Kashmir	31.57	Bihar

TABLE No. 8.1
Domestic Lights and Fans (30 kWh/month)
(Average Rate in P/kWh)

Sl. No.	Supplier	Tariff in force from	Rate	Duty/Tax	Total
1	2	3	4	5	6
A. State Electricity Boards					
1.	Andhra Pradesh	20-10-1975	40.00	..	40.00
2.	Assam	1-2-1976	45.00	3.00	48.00
3.	Bihar	15-7-1975	40.00	7.00	47.00
4.	Gujarat	1-1-1976	30.10	10.00	40.10
5.	Haryana	1-9-1974	24.50	10.25	34.75
6.	Himachal Pradesh	1-12-1975	32.00	1.00	33.00
7.	Jammu & Kashmir	1-4-1968	25.00	2.75	27.75
8.	Karnataka	1-3-1976	38.33	4.50	42.83
9.	Kerala	1-7-1974	38.33	2.50	40.83
10.	Madyya Pradesh	1-8-1974	28.67	6.50	35.17
11.	Maharashtra	1-7-1974	31.00	5.00	36.00
12.	Orissa	1-1-1975	28.00	4.65	32.65
13.	Punjab	30-9-1975	27.50	10.25	37.75
14.	Rajasthan	1-7-1974	38.00	5.00	43.00
15.	Tamil Nadu	9-10-1974	35.00	..	35.00
16.	Uttar Pradesh :				
	(a) Lucknow, Allahabad, Kanpur and Agra City	12-10-1974	30.00	6.00	36.00
	(b) Others	12-10-1974	40.00	2.00	42.00
17.	West Bengal	24-12-1975	45.00	3.00	48.00
18.	Meghalaya	1-1-1975	40.00	3.00	43.00
B. Union Territories/State Government/Electricity Departments					
1.	Andaman & Nicobar Islands	1-6-1974	55.00	..	55.00
2.	Arunachal Pradesh	N.A.	37.00	..	37.00
3.	Chandigarh	2-5-1967	21.88	10.25	32.13
4.	Dadra & Nagar Haveli :				
	1st Alternative	1-2-1976	44.00	..	44.00
	2nd Alternative	1-2-1976	66.66	..	66.66\$
5.	Delhi	1-4-1975	18.00	2.00	20.00**
6.	Goa, Daman & Diu	1-1-1975	30.00	..	30.00
7.	Lakshadweep	13-9-1962	60.00	..	60.00
8.	Manipur	15-1-1975	45.00	..	45.00
9.	Nagaland	1-1-1976	50.00	..	50.00
10.	Pondicherry	1-8-1974	33.00	..	33.00
11.	Tripura	1-3-1976	50.00	..	50.00
12.	Sikkim	1-4-1970	30.75	..	30.75
C. Important Places served by Licensees					
1.	Ahmedabad	1-5-1975	25.00	10.00	35.00
2.	Bombay				
	(a) B. E. S. T.	16-10-1975	13.00*	6.00	19.00
	(b) Bombay Suburban	18-10-1975	14.50*	6.00	20.50
	(c) Tatas	No	Low	Tension	Tariffs
3.	Calcutta	1-12-1975	14.00*	3.00	17.00
D. 1. Damodar Valley Corporation					
	(a) Bihar area	No Low	Tension	Tariffs	
	(b) West Bengal area	No Low	Tension	Tariffs	
	2 Durgapur Projects Ltd.	1-1-1975	40.00	3.00	43.00

\$ Minimum charge/month is Rs. 20.00

** A surcharge of 5% is levied for D. C. supply.

Excluding Fuel Surcharge. Fuel Surcharge see table 8.6.

TABLE No. 8-2
Commercial Lights and Fans (200 KWh/Month)

[(Average Rate in P/KWh)]					
Sl. No.	Supplier	Tariff in force from	Rate	Duty/Tax	Total
(1)	2	3	4	5	6
A. State Electricity Board					
1.	Andhra Pradesh	20-10-1975	75.00		75.00
2.	Assam	1-2-1976	53.00	3.00	56.00
3.	Bihar	15-7-1975	50.00	7.00	57.00
4.	Gujarat	1-1-1976	32.98	10.00	42.98
5.	Haryana	1-9-1974	46.00	12.95	58.95
6.	Himachal Pradesh	1-12-1975	30.50	1.00	31.50
7.	Jammu & Kashmir	1-4-1968	35.00	4.83	39.83
8.	Karnataka	1-3-1976	57.50	4.50	62.00
9.	Kerala	1-1-1970	38.00	3.80	41.80
10.	Madhya Pradesh	1-8-1974	37.00	10.50	47.50
11.	Maharashtra	1-7-1974	35.00	15.00	50.00
12.	Meghalaya	1-1-1975	45.00	3.00	48.00
13.	Orissa	1-1-1975	28.50	4.73	33.23
14.	Punjab	30-9-1975	46.00	12.40	58.40
15.	Rajasthan	1-7-1974	50.00		50.00
16.	Tamil Nadu@	20-1-1975	67.50		67.50
17.	Uttar Pradesh@@	12-10-1974	50.00	2.00	52.00
18.	West Bengal	24-12-1975	55.00	3.00	58.00
B. Union Territories/State Government¹/Electricity Department					
1.	Andaman & Nicobar Islands	1-6-1974	48.75		48.75
2.	Arunachal Pradesh	N.A.	37.00		37.00
3.	Chandigarh	2-5-1967	13.44	12.40	25.84
4.	Dadra and Nagar Haveli				
	1st Alternative	1-2-1976	36.25		36.25
	2nd Alternative	1-2-1976	35.00		35.00
5.	Delhi	1-4-1975	26.00	2.00	28.00
6.	Goa, Daman & Diu	1-1-1975	40.00		40.00
7.	Lakshadweep	13-9-1962	60.00		60.00
8.	Manipur				
9.	Nagaland	1-4-1968	45.00		45.00
10.	Pondicherry	24-1-1975	56.25		56.25
11.	Tripura	1-3-1976	52.00		52.00
12.	Sikkim	1-4-1970	27.50		27.50
C. Important Places served by Licensees					
1.	Ahmedabad	1-5-1975	38.60	10.00	48.60
2.	Bombay				
	(a) B. E. S. T.	16-10-1975	38.00*	20.00	58.00
	(b) Bombay Suburban	18-10-1975	40.00*	20.00	60.00
3.	Calcutta	1-12-1975	28.50*	3.00	31.50
4.	Tatas	No	Low	Tension	Tariffs.
D1. Damodar Valley Corporation					
	(a) Bihar area	No	Low	Tension	Tariffs.
	(b) West Bengal area	No	Low	Tension	Tariffs.
	(2) Durgapur Projects Ltd.	1-1-1975	40.00	3.00	43.00

@ An additional levy of 2P/kWh will be charged from the consumers of the metropolitan area of Madras City.

@@ Contracted/connected load shall exceed 2 KW otherwise domestic lights and fans rates will be applicable.

*—A surcharge of 5% is levied for D. C. Supply.

*Excluding fuel surcharge Fuel surcharge see table 8-6.

TABLE No. 8.3

Agricultural 10 H.P. 15% L. F. (817 KWh/Month)

(Average Rate in P/KWh)

Sl. No.	Supplier	Tariff in force from	Rate	Duty/Tax	Total
1	2	3	4	5	6
A. State Electricity Boards					
1.	Andhra Pradesh	20-10-1975	19.67	..	19.67
2.	Assam	1-2-1975	17.00	..	17.00
3.	Bihar	15-7-1975	13.48	2.00	15.48
4.	Gujarat	1-1-1976	21.03	1.20	22.23
5.	Haryana	1-9-1974	20.84	..	20.84
6.	Himachal Pradesh	1-12-1975	9.00	1.00	10.00
7.	Jammu & Kashmir	1-4-1966	10.00	1.50	11.50
8.	Karnataka	20-5-1974	16.22	1.00	17.22
9.	Kerala	1-1-1970	9.00	0.90	9.90
10.	Madhya Pradesh	1-8-1974	16.00	..	16.00
11.	Maharashtra	1-7-1974	20.00*	..	20.00
12.	Meghalaya	1-1-1978	14.00	..	14.00
13.	Orissa	1-1-1975	15.00*	2.50	17.50
14.	Punjab	30-9-1975	20.86	..	20.86
15.	Rajasthan	1-7-1974	21.00	..	21.00
16.	Tamil Nadu	30-8-1975	16.00	..	16.00
17.	Uttar Pradesh	1-11-1974	18.36	..	18.36
18.	West Bengal	24-12-1975	32.00	6.00	38.00
B. Union Territories/State Government/Electricity Departments					
1.	Andaman & Nicobar Islands	—	—	—	—
2.	Arunachal Pradesh	—	—	—	—
3.	Chandigarh	1-7-1968	9.79	—	9.79
4.	Dadra & Nagar Haveli	1-2-1976	21.68	—	21.68
5.	Delhi	1-4-1975	15.00	1.00	16.00
6.	Goa, Daman and Diu	1-1-1975	14.00	—	14.00
7.	Lakshadweep . . . . .	..	—	—	—
8.	Manipur . . . . .	..	—	—	—
9.	Nagaland	1-1-1976	12.00	—	12.00
10.	Pondicherry	1-11-1975	15.00	—	15.00
11.	Tripura	1-3-1976	22.00	—	22.00
12.	Sikkim	1-4-70	22.50	—	22.50
C. Important Places served by Licensees					
1.	Ahmedabad	1-5-1975	17.10	1.20	18.30
2.	Bombay :	—	—	—	—
	(a) B. E. S. T.	—	—	—	—
	(b) Bombay Suburban	—	—	—	—
	(c) Tatas	No	Low	Tension	Tariffs
3.	Calcutta	—	—	—	—
D1. Damodar Valley Corporation					
	(a) Bihar area	No	Low	Tension	Tariffs
	(b) West Bengal area	No	Low	Tension	Tariffs
	(2) Durgapur Projects Ltd.	1-1-1975	25.00	6.00	31.00

*Excluding fuel surcharge.

Fuel surcharge see table 8.6

TABLE No. 3.4

Small Industry 10 KW. 20% L. F. (1460 KWh/Month)

Sl. No.	Supplier	Tariff in force from	Rate	(Average Rate in P/KWh.)	
				Duty/Tax	Total
1	2	3	4	5	6
A. State Electricity Board					
1.	Andhra Pradesh	20-10-1975	32.00**	—	32.00
2.	Assam	1-2-1976	21.00	1.00	22.00
3.	Bihar	15-7-1975	21.84*	2.00	23.84
4.	Gujarat	1-1-1976	22.67	1.60	24.27
5.	Haryana	1-9-1974	19.20	2.88	22.08
6.	Himachal Pradesh	1-12-1975	16.35	2.00	18.35
7.	Jammu and Kashmir				
	(a) Jammu	1-4-1968	9.67	1.45	11.12
	(b) Kashmir	1-4-1968	7.67	1.15	8.82
8.	Karnataka	1-3-1976	18.04	4.50	22.54
9.	Kerala	1-1-1970	15.00	1.50	16.50
10.	Madhya Pradesh	1-8-1974	19.00	1.50	20.50
11.	Maharashtra	1-7-1974	20.00*	1.00	21.00
12.	Orissa	1-1-1975	18.00*	3.27	21.27
13.	Punjab	30-9-1975	18.50	3.70	22.20
14.	Rajasthan	1-7-1974	21.00	1.00	22.00
15.	Tamil Nadu@@	20-1-1975	30.00	—	30.00
16.	Uttar Pradesh	12-10-1974	23.00	1.00	24.00
17.	West Bengal	24-12-1975	32.00	0.33	32.33
18.	Meghalaya	1-1-1975	17.00	1.00	18.00
B. Union Territories/State Government Electricity Departments					
1.	Andaman and Nicobar Islands	1-6-1974	40.00	—	40.00
2.	Arunachal Pradesh	—	—	—	—
3.	Chandigarh	2-5-1967	10.67	2.13	12.80
4.	Dadra & Nagar Haveli	1-2-1976	29.68	—	29.68
5.	Delhi	1-4-1975	22.00	1.00	23.00\$
6.	Goa, Daman and Diu	1-1-1975	14.00	—	14.00
7.	Lakshadweep	13-9-1962	40.00	—	40.00
8.	Manipur	1-7-1964	25.00	—	25.00
9.	Nagaland	1-1-1976	28.00	—	28.00
10.	Pondicherry	24-1-1975	22.50	—	22.50
11.	Tripura	1-3-1976	22.00	—	22.00
12.	Sikkim	1-4-1970	22.50	—	22.50
C. Important Places served by Licensees					
1.	Ahmedabad	1-5-1975	20.36*	1.60	21.96
2.	Bombay				
	(a) B. E. S. T.	16-10-1975	30.00*	1.00	31.00
	(b) Bombay Suburban	18-10-1975	27.06*	1.00	28.06
	(c) Tatas	No	Low	Tension	Tariffs
3.	Calcutta	1-12-1975	21.00*	0.33	21.33
D1. Damodar Valley Corporation					
	(a) Bihar area	No	Low	Tension	Tariffs
	(b) West Bengal area	No	Low	Tension	Tariffs
	(2) Durgapur Projects Ltd.	1-1-1975	25.00	0.33	25.33

*Excluding fuel surcharge Fuel surcharge see Table 8-6

@ @ An additional levy of 2 P/KWh will be charged from the consumers of the metropolitan area of Madras City.

**Rate is 35 P/KWh for Rice, Oil, flour, Gunning, decorticating, Dal and gram mills, stone crushers, Mills, poultry farming and such other industries specified time to time by the Board.

\$—A surcharge of 10% is levied for D. C. Supply.

TABLE No. 8.5
Large Industry 1000 KW, 50% L. F. (365,000 kWh/Month)

(Average Rate in P/KWh)
(AT 11KV)

Sl. No.	Supplier	Tariff in force from	Rate	Duty/Tax	Total
1	2	3	4	5	6
A. State Electricity Board					
1.	Andhra Pradesh	20-10-1975	25.77	—	25.77
2.	Assam	1-2-1976	18.70*	0.08	18.78
3.	Bihar	15-7-1975	21.91*	2.00	23.91
4.	Gujarat	1-1-1976	17.45*	1.60	19.05
5.	Haryana	1-9-1974	12.27	3.68	15.95
6.	Himachal Pradesh	1-12-1975	14.06	2.00	16.06
7.	Jammu and Kashmir				
	(a) Jammu	1-4-1968	5.29	0.79	6.08
	(b) Kashmir	1-4-1968	3.79	0.57	4.36
8.	Karnataka	1-3-1976	10.60	2.25	12.85
9.	Kerala	1-1-1970	9.54	2.86	12.40
10.	Madhya Pradesh	1-8-1974	13.16*	1.50	14.66
11.	Maharashtra	1-7-1974	12.86*	1.00	13.86
12.	Meghalaya	1-1-1975	16.05	0.08	16.13
13.	Orissa	1-1-1975	14.50*	4.82	19.32
14.	Punjab	30-9-1975	15.51	3.88	19.39
15.	Rajasthan	1-7-1974	18.00*	1.00	19.00
16.	Tamil Nadu@	20-1-1975	25.25	2.77	28.02
17.	Uttar Pradesh	12-10-1974	15.96*	1.00	16.96
18.	West Bengal	24-12-1975	21.67*	1.50	23.17
B. Union Territories/State Government/Electricity Departments					
1.	Andaman and Nicobar Islands	No	High	Tension	Tariffs
2.	Arunchal Pradesh	No	High	Tension	Tariffs
3.	Chandigarh	2-5-1967	6.59	1.65	8.24
4.	Dadra and Nagar Haveli	1-2-1976	21.23*		21.33
5.	Delhi	1-4-1975	21.37*	1.00	22.37
6.	Goa, Daman and Diu	1-1-1975	13.51		13.51
7.	Lakshadweep	No	High	Tension	Tariffs
8.	Nagaland	1-1-1976	20.49		20.49
9.	Pondicherry	24-1-1975	18.23		18.23
10.	Manipur	No	High	Tension	Tariffs
11.	Tripura	No	High	Tension	Tariffs
12.	Sikkim	No	High	Tension	Tariffs
C. Important Places served by Licensees					
1.	Ahmedabad	1-5-1975	15.81*	1.60	17.41
2.	Bombay :				
	(a) B. E. S. T.	16-10-1975	16.83*	1.00	17.83
	(b) Bombay Suburban	18-10-1975	18.04*	1.00	19.04
	(c) Tatas	16-10-1975	16.69*	1.00	17.69
3.	Calcutta	1-4-1975	15.38*	1.50	16.88
D. 1. Damodar Valley Corporation					
	(a) Bihar area	1-12-1974	15.90*	1.00	16.90
	(b) West Bengal area	1-12-1974	15.90*	1.50	17.40
	2. Durgapur Projects Ltd.	1-12-1974	15.90*	1.50	17.40

*Excluding fuel surcharge. Fuel surcharge see table 8.6

@ An additional levy of 2P/KWh will be charged from the consumers of the metropolitan area of Madras City.

TABLE No. 8-6

Rate of fuel surcharge in P/KWh levied on LT/HT consumers by State Electricity Boards/

Licensees/Union Territories

Sl. No.	Name of Board/Licensees/Union Territories	Rate in P/KWh March, 1976	Remarks
1	2	3	4
1.	Assam	8.00	—
2.	Bihar	7.661	—
3.	Gujarat	5.5	(Provisional)
4.	Madhya Pradesh	5.7	Provisional from December, 1975
5.	Maharashtra	4.67	—
6.	Orissa	0.65	From 1-1-1975
7.	Rajasthan	0.40	Provisional from 1-4-1974
8.	Uttar Pradesh	6.839	—
9.	West Bengal	4.649	—
10.	Dadra and Nagar Haveli	5.5	—
11.	Delhi (D.E.S.U.)	2.38	For (1974-75)
12.	Ahmedabad E. S. Company	0.491	—
	LT	9.8233	—
	HT	9.21	—
13.	B. E. S. T.	8.91	—
14.	Bombay Suburban	8.424	—
	LT	5.36	—
	HT	7.30	Provisional from January, 1976
15.	C. E. S. C.	5.42	Established from October, to March, 1976
16.	D. V. C.	—	—
17.	Tata Hydro Electric Agencies	N.A.	—
18.	Durgapur Projects Ltd.	N. A.	—

N.A.—Not available.

**TECHNICAL STATISTICS
SECTION—9
PROGRESS OF ELECTRICITY SUPPLY-UTILITIES
STATEWISE**

Section—9

In the previous sections, the growth of various aspects of the electricity supply industry has been depicted in several tables but all of them are on all India basis. Wherever Statewise details have been given, these relate only to the States during the year under consideration.

Therefore, it has been considered appropriate to include a set of progress tables for each State, indicating therein the level of developments over the years in respect of production, consumption, number of consumers, rural electrification and other salient features. It is hoped that these tables will be of use for those who are interested in the power development in any State and in comparing the relative growth in different States.

TABLE No. 9.1.1

Progress of electricity supply—Andhra Pradesh

Year	12/51	12/56	3/61	3/66	3/69	3/74	3/75	(9)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Installed capacity (MW)								
Hydro		66.000	166.150	152.92	272.93	267.93	267.93	367.93
Steam	46.000	46.000	83.500	113.50	326.00	382.50	602.50	602.50
Diesel	13.164	19.876	20.188	12.13	6.14			
Gas Turbine				20.00	20.00	20.00	20.00	20.00
TOTAL	59.164	131.876	269.838	298.55	625.07	670.43	890.43	990.43
Energy generation (Gross) (million kWh)								
Hydro		169.364	748.743	764.61	1127.61	1093.98	780.00	1061.78
Steam	89.612	60.177	145.836	510.38	1217.75	2192.06	2708.03	2727.34
Gas turbine				38.41	0.36	4.04	1.12	1.57
Diesel	14.328	9.661	5.450	6.77	0.12			
TOTAL	103.940	239.202	900.029	1320.17	2345.84	3290.08	3489.15	3790.69
Purchase from nonutilities	N.A.†	N.A.		2.21			0.78	
Used by power station auxiliaries			23.237	43.77	105.36	177.65	244.28	303.14
Sale (within the State)								
Domestic light & Small power	20.946	32.67	0.82	85.75	125.84	211.02	238.94	265.07
Commercial light & small power	18.657	38.81	30.32	172.90	193.81	243.34	251.79	298.78
Industrial power	44.297	88.64	393.33	574.37	903.86	1336.82	1307.67	1537.04
Public lighting	5.873	0.03	14.87	20.35	26.53	29.07	28.70	30.39
Railways/Tramways								
Agricultural	4.905	10.46	54.83	172.66	337.16	587.89	674.21	616.73
Public Water Works & Sewage Pumping	3.493	6.41	7.40	22.31	48.35	52.00	54.10	36.66
Miscellaneous					2.80	12.50	13.60	11.82(A)
TOTAL:	98.171	177.02	501.57	1048.34	1638.35	2472.64	2569.01	2796.49
Total No. of consumers	N.A.	N.A.	2,78,943	5,24,778	8,28,186	14,33,745	15,00,114	15,71,833
Total No. of villages electrified	119	517	2433	4,099	5,533	10,262	10262@	11,358
Total length of transmission lines (11 kV & above) Circuit Kilometres	N.A.	N.A.	18,162	27,551	36,041	58,268	59,300	61,980
Total length of distribution lines (below 11 kV) Circuit Kms.	N.A.	N.A.	700	23,525	33,892	67,238	69,478	72,469
No. of pumpsets	N.A.	N.A.	17,968	57,225	1,23,167	2,61,989	2,84,614	2,94,017
Transmission & distribution losses (%) for the year	N.A.	N.A.	N.A.	24.71	26.52	25.42	26.15	25.54

Note:— Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly owned projects according to the share of participating states instead of the previous practice of taking the total values against the State having major share.

(A) Including consumption of 6.50 million kwh to Departments and Colonies.

@@As per 1971 census.

TABLE No. 9.1.2

Progress of Electricity Supply—Assam

Year ending	12/51@	12/56@	3/61@	3/66@	3/69@	3/74@	3/75@	3/76
1	2	3	4	5	6	7	8	9
Installed capacity (MW)								
Hydro	0.55	0.55	9.27	45.94	48.71	66.71	66.71	..
Steam	0.20	0.62	..	..	..	35.00	35.00	35.00
Diesel	2.59	4.11	10.16	32.10	27.99	26.24	26.24	20.00
Gas turbine	..	..	..	81.50	81.50	69.00	69.00	111.50
TOTAL	3.34	5.28	19.43	159.54	158.20	196.95	196.95	166.50
Energy generation (million kWh (Gross))								
Hydro	2.130	2.90	20.88	56.39	108.32	198.49	222.39	..
Steam	0.001	..	..	..	..	45.08	35.56	109.93
Diesel	4.469	8.37	15.34	26.65	18.85	12.66	12.56	5.00
Gas turbine	2.130	..	..	14.86	121.87	267.29	299.15	334.43
TOTAL	8.730	11.27	36.22	97.90	249.04	523.52	569.66	449.36
Used by power station auxiliaries	..	..	1.27	4.92	6.17	12.84	12.27	13.59
Energy purchased from non-utilities	..	..	..	..	..	..	..	..
Sales (Within the State)								
Domestic Light & Small Power	2.08	3.33	9.90	23.59	29.36	43.55	50.80	44.63
Commercial Light & small Power	2.06	3.69	4.21	19.33	49.92	78.43	28.83	20.90
Industrial power	0.77	1.38	11.83	23.59	99.19	184.92	192.47	218.96
Public lighting	0.61	0.74	2.70	3.65	3.89	4.48	4.74	2.23
Railways/ Tramways	..	..	..	..	..	..	22.04	..
Agricultural	..	..	..	0.11	0.40	2.00	5.00	5.00
Public Water Works & Sewage pumping	0.07	0.14	0.46	0.76	4.06	6.50	5.99	10.21
Miscellaneous	..	..	..	..	3.51	60.37 'A'	114.39 'A'	134.46 'A'
TOTAL:	5.59	9.28	29.10	71.03	190.33	380.25	424.26	436.39
Total No. of consumers	7,428	9,971	18,834	41,032	48,582	1,04,772	1,19,606	10,86,09
Total No. of villages electrified	..	..	13	66	331	1,146@@	15@@	1,769
Total length of transmission lines (kV & above)	..	..	123	2,247	2,557	9,198	9,823	9,279
Circuit Kilometres Total length of distribution lines (below 11 kV)	12	23	35	1,521	1,354	4,549	5,002	3,389
No. of pumpsets	Nil	Nil	Nil	Nil	55	705	867	1,012
Transmission & distribution losses (%) for the year	N.A.	N.A.	N.A.	23.61	20.54	19.43	18.81	16.50

'A'—Including Tea Gardens consumption of 76.86 M. U. & consumption by A.I.R., Airport, Defence, Univeristy etc.

@@As per 1971 census.

@—Includes Meghalaya.

TABLE NO. 9.1.3.

Progress of Electricity Supply—Bihar

Year Ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
Installed Capacity @ (MW)								
Hydro		4.00	44.00	44.00		15.00	15.00	15.00
Steam	39.51	185.05	288.52	608.77	222.77	572.77	572.77	572.77
Diesel	7.49	15.40	18.57	19.52	16.41	16.52	16.36	16.62
TOTAL	47.00	204.45	350.89	672.29	239.18	604.29	604.13	604.39
Energy Generation (M. KWH)@								
Hydro		2.15	143.66	124.51		4.59	6.31	8.08
Steam	118.87	580.12	1,408.55	3,079.56	609.29	1,980.11	2,144.64	2,125.70
Diesel	13.16	20.96	44.62	22.80	18.04	5.62	2.45	1.20
TOTAL	132.03	603.23	1,596.83	3,226.87	627.33	1,990.32	2,153.50	2,134.98
Purchased from non-utilities Used by power station auxiliaries@								
	N.A.	N.A.	28.79	—	4.01	47.02	7.72	2.59
	N.A.	N.A.	98.62	300.68	77.39	229.28	253.77	281.94
Sales (within the State)*								
Domestic Light & Small Power	14.82	27.14		61.09	78.92	110.55	113.52	129.73
Commercial Light & Small Power	6.06	13.40	44.31	69.35	88.94	117.13	106.09	113.79
Industrial Power	87.85	298.54	776.40	1,397.25	1,067.72	2,006.60	2,188.55	2,598.48
Public Lighting	1.09	1.94	3.65	4.80	5.04	6.45	5.89	5.99
Agricultural	4.60		18.26	29.33	67.88	73.81	75.13	398.83
Railways/Tramways		4.27	4.53	343.09	244.14	322.87	340.00	454.16
Public, Water Works & Sewage Pumping	4.17	8.13	12.24	27.64	31.38	42.05	40.93	51.96
Miscellaneous						7.80	11.06	11.70
TOTAL	118.59	353.42	889.22	1932.55	1584.02	2687.26	2881.17	3764.64
Total No. of consumers	22199	72599	157264	311145	457377	622558	653855	693324
Total No. of villages electrified	4	300	2,305	3,744	6,350	9,775	13375@@	16565
Total length of Transmission lines (11kv & above) Circuit Kilometres	596	7,951	15,885	19,983	26,058	38784	42843	44289
Total length of distribution lines (below 11 Kv) Circuit Kilometres	230	379	327	12,856	24,764	37,500	40.60	42486
No. of pumpset	47	697	3200	10,000	50,005	96,922	104,034	118055
Transmission & distribution losses (%) for the year	N.A.	N.A.	N.A.	11.56	17.80	24.00	23.40	18.41

Note : @ —Data included DVC (Bihar portion) upto 1965-66. From the year 1968-69 onwards DVC have been excluded and shown separately.

* —Sales to ultimate consumers by DVC in Bihar included.

§ —Provisional.

@@ —As per 1971 census.

TABLE NO. 9.1.4

Progress of Electricity Supply Gujarat

Year Ending	12/51	12/56	1	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	5	6	8	9
Installed Capacity (MW)								
Hydro	—	—	—	—	—	—	225.00	300.00
Steam	103.93	183.60	280.90	609.60	619.60	883.00	882.00	998.00
Diesel	32.95	40.61	52.37	41.02	41.94	16.60	11.83	9.44
Gas	—	—	—	—	—	54.00	54.00	—
TOTAL :	141.88	224.21	333.27	650.62	661.54	953.60	1172.83	1361.44
Energy Generation (M.KWH)								
Hydro	—	—	—	—	—	—	450.00	829.96
Steam	316.41	739.37	120.14	2155.48	3255.42	4610.73	4945.03	611.48
Diesel	57.24	51.58	629.08	51.90	25.10	3.07	0.62	0.76
Gas	—	—	—	—	—	63.83	134.83	145.41
TOTAL :	373.65	790.95	1271.22	2207.38	3280.52	4677.63	5530.48	5587.61
Purchased from non-utilities	—	—	—	0.87	73.31	60.94	102.29	78.25
Used by power station auxiliaries	—	—	82.62	177.76	240.97	347.56	408.41	398.88
Sales within the State								
Domestic Light & Small Power	30.90	46.73	71.57	141.54	194.07	317.33	372.53	415.31
Commercial Light & Small Power	12.33	14.94	31.66	48.98	76.53	146.32	163.51	171.19
Industrial Power	266.69	590.40	805.96	1,421.15	1,957.42	2,779.15	3,055.29	3,347.80
Public Lighting	5.89	8.98	15.27	22.23	28.90	46.38	46.94	51.76
Railways/Tramways	—	—	—	—	—	—	—	—
Agricultural	1.33	6.06	19.61	100.53	334.75	627.87	1,008.66	868.96
Public Water Works & Sewage Pumping	12.08	26.75	39.56	62.04	75.70	110.90	127.07	135.89
Miscellaneous	..	..	..	..	12.33	17.41	18.67	21.15
TOTAL :	329.22	693.86	983.63	1,796.47	2,679.70	4,045.36	4,792.67	5,012.06
Total No. of consumers	N.A.	N.A.	4,12,866	8,25,383	9,80,664	17,85,363	19,70,284	20,49,461
Total No. of villages electrified	37	130	678	1,671	2,869	5,638@@	6,026@@	6,307
Total length of transmission lines (11 kV & above) Circuit Kilometres	N.A.	N.A.	6,051	16,282	26,904	44,204	48,402	52,162
Total length of distribution line (below 11 kV) Circuit kilometres	N.A.	N.A.	565	12,576	19,223	39,137	43,622	47,001
No. of pumpsets	910	2,825	6,963	14,155	42,085	1,02,683	11,372	1,21,854
Transmission & distribution losses (%) for the year	N.A.	N.A.	N.A.	11.51	16.64	20.99	18.48	18.47

TABLE NO. 9.1.5.
Progress of Electricity Supply—Haryana

Year Ending	1/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
Installed Capacity (MW)								
Hydro				245.69	408.47	408.47	408.47	408.47
Steam	1.30	6.75	6.30	28.10	90.60	90.60	144.30	204.30
Diesel	6.99	7.52	4.31	6.32	5.34	4.99	4.19	4.19
TOTAL	8.29	14.27	10.61	280.11	504.41	504.06	556.96	616.96
Energy Generation (million KWH)								
Hydro				1,083.26	1,472.82	1,970.60	1,330.55	18,89.23
Steam	2.88	6.77	6.66	14.15	200.52	449.44	507.99	675.56
Diesel	6.87	4.05	0.86	3.68	0.30	0.49	0.67	0.08
TOTAL :	9.75	10.82	7.52	1,101.09	1,673.64	2,420.53	1,839.21	2,564.87
Used by Power Station auxiliaries	..	..	..	1.34	24.00	42.52	47.90	65.60
Purchased from non utilities	..	..	..	..	..	..	..	..
Sales within the State								
Domestic light and Small Power	..	..	..	..	42.30	87.81	91.57	117.96
Commercial light and small power	..	..	..	..	35.00	76.81	70.17	82.35
Industrial power	..	..	..	..	404.58	697.71	520.42	777.91
Public lighting	..	..	..	..	3.41	4.98	5.01	6.02
Railways/Tramways	..	..	..	..	..	..	..	..
Agricultural	..	..	..	..	169.32£	528.51	527.55	594.58
Public water works and sewage pumping	..	..	..	..	—	—	18.00	17.27
Miscellaneous	..	..	..	..	0.81	5.51	6.29	5.63
TOTAL :	—	—	—	—	655.42	1401.33	1239.01	1601.72
Total No. of consumers	@	@	@	@	4,11,797	7,17,767	7,54,215	7,93,071
Total No. of villages electrified	—	99	570	1179	1464	6669	6,731@@	6,731
Total length of transmission lines (11 kV above) Circuit kilometres	@	@	@	@	13,365	33,445	34,219	35,496
Total length of distribution lines (below 11 kv.) Circuit Kilometres	@	@	@	@	17,608	44,764	46,991	48,731
No. of Pumpsets	N.A.	743	3,526	15,220	45,385	1,27,947	1,34,953	1,41,885
Transmission & distribution losses (%) for the year	@	@	@	@	30.90	29.22	24.32	23.19

Note :—1. Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly owned projects according to the share of participating States instead of the previous practice of taking the total values against the State having major share.

£ —Includes figures of public water works and sewage pumping also.

Note:—2. It has not yet been possible to work out figures of installed capacity, generation purchase and station auxiliaries prior to 1965-66 for the area under Haryana, due to want of data. Similarly the figures for sales and per capita consumption in Haryana are not available prior to 1967-68.

@ —Included in Punjab

TABLE No. 9.1.6
Progress of Electricity Supply-Himachal Pradesh*

Year Ending	2/1951	12/1956	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
Installed Capacity (MW)								
Hydro . . . . .	..	..	..	..	2.85	48.97	49.97	49.97
Diesel . . . . .	..	..	..	..	2.15	2.45	2.66	2.51
TOTAL . . . . .	..	..	..	..	5.00	51.42	52.63	52.48
Energy Generation (Million kwh)								
Hydro . . . . .	..	..	..	..	15.53	173.11	169.19	182.16
Diesel . . . . .	..	..	..	..	0.07	0.10	0.18	0.08
TOTAL:—	..	..	..	..	15.60	173.21	169.37	182.24
Purchased from non-utilities	..	..	..	..	..	..	..	..
Used by power station auxiliaries	..	..	..	..	0.70	0.93	0.77	0.79
Sale (within the State)								
Domestic light and small power . . . . .	..	..	..	..	18.63	38.57	34.07	42.44
Commercial light and small power . . . . .	..	..	..	..	15.72	20.44	20.12	27.27
Industrial power . . . . .	..	..	..	..	17.02	30.88	40.45	47.69
Public Lighting . . . . .	..	..	..	..	1.24	1.66	1.37	1.67
Railways/Tramways . . . . .	..	..	..	..	..	..	..	..
Agricultural . . . . .	..	..	..	..	13.61	1.40	2.08	2.62
Public water works and sewage pumping . . . . .	..	..	..	..	..	12.32	7.65	6.11
Miscellaneous . . . . .	..	..	..	..	0.28	95.23£	103.50£	92.72£
TOTAL . . . . .	..	..	..	..	66.50	200.50	209.24	220.52
Total No. of consumers	N.A.	N.A.	N.A.	28207	46,052	2,58,353	280999	3,07,716
Total No. of villages electrified	9	93	670	1,438	2191	4,500@@	6276@@	6721
Total length of transmission lines (11 kV & above) Circuit kilometres	N.A.	N.A.	N.A.	1,055	2599	6103	6,684	6984
Total length of distribution lines (below 11 kV) Circuit kilometres	N.A.	N.A.	N.A.	1026	3,533	7,351	8,576	9,030
No. of Pumpsets	Nil	2	20	88	306	1032	1,202	1,320
Transmission & distribution losses (%) for the year	N.A.	N.A.	N.A.	11.40	15.32	18.67	15.86	19.62

*Figures for the year prior to 1968-69 for Himachal Pradesh (after re-organisation of Punjab) are not given due to inadequate data.

£—Includes supply to Power projects in Himachal Pradesh.

@@—As per 1971 census.

TABLE NO. 9.1.7
Progress of Electricity Supply—Jammu & Kashmir

Year Ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
Installed Capacity (MW)								
Hydro	4.514	10.606	10.612	28.07	26.92	51.72	62.72	72.72
Steam	1.500	1.500	1.500	1.50	7.50	22.50	22.50	22.50
Diesel	0.465	0.769	0.869	1.54	5.92	7.92	8.73	6.76
TOTAL :	6.479	12.875	12.981	31.11	40.34	82.14	93.95	101.98
Energy Generation (Gross) (Million Kwh)								
Hydro	23.479	23.896	43.489	N.A.	123.02	206.20	279.42	270.18
Steam	1.774			N.A.	N.A.	11.26	18.45	31.80
Diesel	0.261	0.075	0.025	N.A.	10.93	7.29	5.28	2.52
TOTAL	25.514	23.971	43.514	N.A.	133.95	224.75	303.15	304.50
Used by Power Station auxiliaries	..	..	0.509	N.A.	9.70	1.50	5.06	6.13
Purchased from non-utilities	..	..	..	..	..	..	..	..
Sales (Within the State)								
Domestic Light & Small power	7.660	8.864	22.500	Data	48.82	74.00	92.63	103.25
Commercial Light & small power	0.811	0.176	1.000	not available	31.04	21.00	26.29	29.30
Industrial Power	6.318	6.424	22.000	..	31.30	72.00	90.13	100.45
Public Lighting	0.552	0.566	1.300	..	Neg.	4.50	5.63	6.28
Railways/Tramways	..	..	..	..	..	..	..	..
Agricultural	0.424	0.302	0.700	..	13.32	16.00	20.03	22.33
Public Water Works & Sewage pumping	1.610	2.086	3.500	..	6.59	21.00	26.29	29.30
Miscellaneous	..	..	..	..	..	..	..	..
TOTAL :	17.375	18.418	51.00	..	131.07	208.50	261.00	290.91
Total No. of consumers	36,173	42,139	51,052	N.A.	1,44,160	2,26,829	2,17,647@	2,28,926
Total No. of villages electrified	..	..	32	383	614	1,380@@	1,741'A'	2,196
Total length of transmission lines (11 kV & above) Circuit Kilometres.	147	259	565	N.A.	2,712	3,522	4,689	5,089
Total length of distribution lines (below 11 kV) Circuit Kilometres	208	208	141	N.A.	N.A.	4,330	6,630	6,980
No. of Pumpsets	N.A.	10	85	104	162	402	417	744
Transmission & distribution losses for the year	N.A.	N.A.	N.A.	N.A.	29.29	29.15	23.49	23.34

@—Does not include consumers of Public lighting.

@@—As per 1971 census.

'A'—As on 28-2-1975.

TABLE NO. 9·1·8
Progress of Electricity Supply—Karnataka

Year ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1.	2.	3.	4.	5.	6.	7.	8.	9.
Installed Capacity (MW)								
Hydro	107·20	178·20	178·20	432·00	788·40	966·60	966·60	1,055·70
Steam	0·06	..	..	1·00	..	..	..	..
Gas Turbine . . . . .	..	..	..	10·00	10·00	..	..	..
Diesel	7·68	12·26	12·88	12·53	0·65	..	..	..
TOTAL	114·94	190·46	191·08	455·53	799·05	966·60	966·60	1,055·70
Energy Generation (M. kwh)								
Hydro	525·34	809·73	1,038·76	1,916·07	2,517·67	4,578·48	4,703·08	5,388·64
Steam . . . . .	..	..	..	1·63	..	..	..	..
Gas Turbine . . . . .	..	..	..	0·61	..	..	..	..
Diesel	13·16	16·45	19·24	17·52	0·02	..	..	..
TOTAL	538·50	826·18	1,058·00	1,935·83	2,517·69	4,578·48	4,703·08	5,388·64
Purchased form non-utilities Used by power station auxili- arles . . . . .	..	..	..	..	..	..	..	..
	..	..	16·65	9·60	10·63	14·82	13·88	14·85
Sales (Within the States)								
Domestic Light & small power	31·99	55·49	75·25	131·26	188·54	304·76	367·39	402·48
Commercial light & power	8·73	17·79	21·30	27·29	70·66	75·43	84·83	114·73
Industrial Power	292·17	486·23	731·89	1,035·51	1,392·72	2,812·97	2,770·01	3,329·95
Public lighting	7·14	13·84	18·88	28·68	43·17	77·76	68·68	59·88
Railways/Tramways . . . . .	..	..	..	..	..	..	..	..
Agricultural	6·97	16·47	28·72	66·02	124·50	259·32	295·03	312·38
Public Water Works & Sewage pumping	37·03	42·57	58·92	92·85	95·40	103·29	154·64	168·95
Miscellaneous . . . . .	..	..	..	..	0·02	0·04	0·05	25·91
TOTAL	384·03	632·39	934·96	1,381·61	1,915·01	3,633·57	3,640·63	4,414·28
Total No. of consumers	N.A.	N.A.	367,437	614,938	871,146	1,458,330	1,594,128	1,656,304
Total No. of villages electrified	551	1,570	2,920	4,627	7,225	12,664@@	13,730@@	14,209
Total length of Transmission lines (11KV & above) Circuit Kilometres	N.A.	N.A.	12,704	21,413	39,947	70,460	61,979	64,585
Total length of Distribution lines (below 11 kV) Circuit Kilometres	N.A.	N.A.	8,053	31,576	58,186	124,668	114,175	119,047
No. of Pumpsets	2,460	8,003	16,888	42,371	91,826	189,688	208,009	224,910
Transmission and Distribution losses (%) for the year	N.A.	N.A.	N.A.	16·34	15·84	18·65	18·72	17·21

Note:—Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly-owned projects according to the share of participating States instead of the previous practice of taking the total values against the State having major share.

Note:—@@—As per 1971 census.

TABLE No. 9.1.9

Progress of Electricity Supply—Kerala

Year ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1.	2.	3.	4.	5.	6.	7.	8.	9.
Installed Capacity (MW)								
Hydro	28.500	85.500	132.500	192.50	545.00	621.50	621.50	751.50
Diesel	4.170	4.277	4.762	4.60	1.60	3.20	3.10	3.10
TOTAL	32.670	89.777	137.262	197.10	546.60	624.70	624.60	754.60
Energy Generation (M KWH)								
Hydro	152.179	349.599	581.818	840.34	1,623.00	2,560.78	2,659.16	2,783.28/
Diesel	1.460	0.132	..	1.60	Neg.	0.08	0.01	..
TOTAL	153.639	349.731	581.818	841.94	1,623.00	2,560.86	2,659.17	2,783.28
Used by Power Station auxiliaries	..	..	18.394	18.82	17.22	23.29	23.56	22.19
Purchase from Non-utilities	..	..	..	..	..	..	..	..
Sales within the State								
Domestic light and small power	13.748	22.890	51.073	89.93	80.45	155.06	177.78	211.03
Commercial Light & small power	2.697	2.291	3.851	14.43	58.29	90.13	98.46	113.69
Industrial Power	140.939	223.592	396.407	602.90	1,117.14	1,402.15	1,395.12	1,497.39
Public Lighting	1.604	2.722	8.358	10.55	16.29	29.64	33.23	36.60
Railways/Tramways . . . . .	..	..	..	..	..	..	..	..
Agricultural	6.170	10.721	18.287	24.03	43.21	91.72	101.99	120.46
Public Water Works & Sewage pumping	3.292	7.001	7.844	7.96	4.43	16.95	17.24	17.78
Miscellaneous . . . . .	..	..	..	..	0.58	6.83	5.30	0.03
TOTAL	168.450	269.217	485.820	749.80	1,320.39	1,792.48	1,829.12	1,996.98
Total No. of consumers	N.A.	N.A.	207,667	362,080	483,690	814,839	864,894	949,055
Total No. of villages electrified	159	381	872	1,083	1,137	1,173	1,182@@	1,202
Total length of Transmission lines (11 kV & above) Circuit Kilometres	N.A.	N.A.	7,537	9,002	9,864	13,172	13,474	13,928
Total length of Distribution lines (below 11 kV) Circuit Kilometres	N.A.	N.A.	161	15,128	16,505	27,140	27,455	30,006
No. of pumpsets	N.A.	N.A.	2,666	6,957	13,909	37,661	41,549	47,525
Transmission & Distribution losses (%) for the year	N.A.	N.A.	N.A.	20.06	16.92	16.86	15.51	16.79

Note:—@@—As per 1971 census.

TABLE No. 9.1.10

Progress of Electricity Supply—Madhya Pradesh

Year ending	12/51	12/56	3/61	3/66	3/69	79	3/75	3/76
1	2	3	4	5	6	7	8	9
Installed Capacity (MW)								
Hydro . . . . .	..	..	69.00	46.00	122.00	193.00	193.00	193.00
Steam	27.31	66.32	169.79	238.40	569.20	582.00	582.00	702.00
Diesel	11.98	15.98	28.74	26.14	7.40	1.52	1.08	0.42
TOTAL	39.29	82.30	267.53	310.54	698.60	776.52	776.08	895.42
Energy Generation (Gross) (Million kWh)								
Hydro . . . . .	..	..	23.24	78.06	271.43	710.22	869.16	855.55
Steam	57.35	150.07	429.68	1,110.20	1,757.56	2,557.56	2,755.01	3,284.81
Diesel	15.95	19.27	24.05	19.96	1.47	0.09	0.13	0.12
TOTAL	73.30	169.34	476.97	1,208.22	2,030.46	3,267.87	3,624.30	4,140.48
Purchased from non-utilities . . . . .	..	..	30.00	69.29	..	..	..	..
Used by power Station auxiliaries . . . . .	..	..	30.99	100.06	174.11	246.83	258.70	308.56
Sales (within the States)								
Domestic light & small power	14.85	25.21	45.40	74.39	116.66	163.39	179.02	198.97
Commercial light & small power	7.47	13.53	20.79	26.64	63.46	138.95	186.40	161.19
Industrial power	23.09	77.28	301.27	868.38	1,284.89	1,957.18	2,082.66	2,659.97
Public Lighting	2.18	4.80	9.11	9.97	17.87	27.70	26.91	27.30
Railways/Tramways	—	—	—	—	—	58.03	67.37	84.65
Agricultural	0.19	0.69	3.89	11.76	38.49	125.88	161.81	170.48
Public Water Works and Sewage pumping	10.32	18.49	25.24	37.28	51.09	70.08	75.20	83.50
Miscellaneous	—	—	—	—	—	—	—	—
TOTAL	58.10	140.00	405.70	1028.42	1572.46	2541.21	2779.37	338.606
Total No. of consumers	64,355	126,792	161,473	315,970	443,070	853,151	946,529	1,032,882
Total No. of villages electrified	9	47	373	1,133	2,754	10,703	11,304	11,822
Total length of Transmission lines (11 kv and above) circuit Kilometres	891	3,070	4,506	11,326	22,359	48,120	51,879	56,487
Total length of Distribution lines (below 11 kv) Circuit Kilometres	352	336	310	7,018	12,929	48,810	55,009	61,176
No. of pumpsets	Nil.	30	1,822	7,314	24,631	115,560	1,33,295	146,739
Transmission and Distribution losses (%) for the year	N.A.	N.A.	N.A.	11.75	15.84	18.81	20.22	18.80

Note:—Figures of installed capacity and generation from 1965-66 onwards have been changed by taking the installed capacity and generation of jointly-owned projects according to the share of participating States instead of the previous practice of taking the total value against the State having major share.

TABLE NO. 9.1.11

Progress of Electricity Supply—Maharashtra

Year Ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1.	2.	3.	4.	5.	6.	7.	8.	9.
Installed Capacity (MW)								
Hydro	253.11	279.91	281.91	598.89	844.32	844.32	855.30	1,175.30
Steam	64.95	225.11	443.25	653.25	771.00	975.00	1,215.00	1,305.00
Diesel	21.12	27.92	34.36	52.36	23.67	2.63	0.07	0.07
TOTAL	339.18	532.94	759.52	1,304.50	1,638.99	1,821.95	2,070.37	2,480.37
Energy Generation (Mkwh)								
Hydro	1,229.02	1,467.48	1,364.95	3,157.56	4,120.00	4,675.42	5,175.29	4,753.11
Steam	280.04	742.34	1,834.76	2,415.92	3,508.52	5,146.94	5,619.79	6,033.85
Diesel	32.20	38.88	68.17	61.71	36.06	0.57	0.36	0.14
TOTAL :	1,541.26	2,248.70	3,267.88	5,635.19	7,664.58	9,822.93	10,795.44	10,787.10
Purchased from Non-utilities Used by Power Station auxili- aries	—	—	2.20	—	—	—	—	—
Sales (within the State)			136.11	212.11	310.80	430.51	449.02	497.00
Domestic light and small power	107.96	165.57	259.90	448.21	603.43	830.43	969.14	1,049.47
Commercial light & small power	86.13	131.30	198.23	363.38	446.86	562.42	586.76	745.26
Industrial power	815.80	1,234.90	1,852.67	3,297.26	4,488.76	6,080.66	6,274.03	5,934.64
Public lighting	7.13	14.50	19.88	38.57	59.01	82.44	89.83	101.43
Railways/Tramways	270.95	344.46	338.93	413.86	388.85	505.11	486.27	657.00
Agricultural	2.75	5.13	14.76	89.55	236.21	487.00	667.91	802.66
Public Water Works & Sewage pumping	23.34	31.37	35.15	65.70	113.67	157.97	175.72	196.02
Miscellaneous	—	—	—	—	52.80	105.68	121.54	3.39
TOTAL :	1,314.06	1,927.23	2,719.52	4,716.53	6,389.59	8,812.31	9,371.20	9,490.47
Total No. of consumers	N.A.	N.A.	677,112	1,323,003	1,724,981	2,670,398	2,964,599	3,255,241
Total No. of villages electrified	33	237	764	4,273	9,450	16,933	18,643@@	19,309
Total length of Transmission lines (11 kV & above) Circuit Kilometres	N.A.	N.A.	26,255	25,364	N.A.	69,424	73,916	74,626
Total length of Distribution lines (below 11 kV) Circuit Kilometres	N.A.	N.A.	1,017	26,604	52,700	91,249	93,916	108,348
No. of pumpsets	142	2,166	7,219	44,978	124,981	342,665	380,844	412,068
Transmission & Distribution losses (%) for the year	N.A.	N.A.	N.A.	12.00	13.17	16.35	16.26	17.09

Note :—Figures of installed capacity and generation of jointly owned projects have been taken according to the share of participating States, till 1972-73.

(A)—50% of Tarapore Nuclear Power Station installed capacity and generation till now shown in Maharashtra is included in 'Central Govt. Undertaking' table from the year 1973-74.

Note:—*Revised figures.

@@—As per 1971 census.

TABLE NO. 9.1.12

Progress of Electricity Supply—Manipur

Year Ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
Installed Capacity								
Hydro	—	—	—	—	0.60	0.60	0.60	0.60
Steam	—	—	—	—	—	—	—	—
Diesel	N.A.	N.A.	N.A.	2.43	2.80	5.24	5.24	9.47
TOTAL	N.A.	N.A.	N.A.	2.43	3.40	5.84	5.84	10.07
Energy Generation (Mkwh)								
Hydro	—	—	—	—	1.87	1.64	1.64	1.28
Steam	—	—	—	—	—	—	—	—
Diesel	N.A.	N.A.	N.A.	6.15	4.37	11.42	11.42	13.67
TOTAL	N.A.	N.A.	N.A.	6.15	6.24	13.06	13.06	14.95
Purchased from non-utilities	—	—	—	—	—	—	—	—
Used by Power Station Auxiliaries	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	0.97	0.32

Sales within the State

YEAR	1951	1956	1960-61	1965-66	1968-69	1973-74	1974-75	1975-76
Domestic	N.A.	N.A.	N.A.	3.44	2.64	7.46	5.42	8.95
Commercial	N.A.	N.A.	N.A.	0.13	0.07	0.05	0.66	A
Industrial Power	N.A.	N.A.	N.A.	0.64	0.50	1.25	2.02	1.55
Public Lighting	N.A.	N.A.	N.A.	..	0.11	0.15	0.63	0.45
Railways	N.A.	N.A.	N.A.	..	..	..	..	..
Agricultural	N.A.	N.A.	N.A.	..	..	..	0.27	..
Public Water Works	N.A.	N.A.	N.A.	0.05	0.01	..	0.50	0.16
Miscellaneous	N.A.	N.A.	N.A.	..	..	..	0.50	..
TOTAL :	N.A.	N.A.	N.A.	4.26	3.33	8.91	10.00	11.11
Year	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
Consumers	N.A.	N.A.	N.A.	3,133	4,857	12,615	12,615	11,498
Village electrified	9	12	29	115	153	213	217@@	231
Total length of lines (11 kV & above)	N.A.	N.A.	N.A.	134	299	N.A.	700	700
Lines below (11 kV)	N.A.	N.A.	N.A.	194	322	N.A.	735	805
No. of Pumpsets . . . . .	..	..	..	..	..	..	Nil	..
Transmission & Distribution losses (%)	N.A.	N.A.	N.A.	29.67	45.77	26.30	26.06	24.63

Note:—@@—As per 1971 census.

A—Included in Domestic category.

TABLE No. 9·1·13.

Progress of Electricity—Meghalaya

Year Ending	12/51	12/56	12/61	3/66	3/69	3/74	3/75	3/79
1	2	3	4	5	6	7	8	6
Installed capacity (MW)								
Hydro	@	@	@	@	@	@	@	66·31
Diesel	@	@	@	@	@	@	@	1·71
TOTAL	—	—	—	—	—	—	—	6·802
Energy Generation (Gross) (Million kwh)								
Hydro	@	@	@	@	@	@	@	179·99
Diesel	@	@	@	@	@	@	@	0·76
TOTAL	180·75
Purchased from non-utilities Used by power station auxiliaries	0·64
Sales (Within the State)								
Domestic light & small Power	@	@	@	@	@	@	@	7·48
Commercial light & small Power	@	@	@	@	@	@	@	5·27
Industrial Power	@	@	@	@	@	@	@	16·16
Public lighting	@	@	@	@	@	@	@	0·56
Railways/Tramways	@	@	@	@	@	@	@	..
Agricultural	@	@	@	@	@	@	@	..
Public Water Works & Sewage Pumping	@	@	@	@	@	@	@	0·83
Miscellaneous	@	@	@	@	@	@	@	6·11
TOTAL	@	@	@	@	@	@	@	36·41

@—Included in Assam.

TABLE NO. 9-1-14
Progress of Electricity—Nagaland

Year Ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
<i>Installed capacity (MW)</i>								
Diesel . . . . .	..	..	..	0.73	2.00	2.03	2.02	2.02
TOTAL . . . . .	..	..	..	0.73	2.00	2.03	2.02	2.02
<i>Energy generation (gross) (million kwh)</i>								
Diesel . . . . .	..	..	..	1.01	1.20	0.32	0.30	0.28
TOTAL . . . . .	..	..	..	1.01	1.20	0.32	0.30	0.28
Purchased from non-utilities Used by power station auxiliaries . . . . .	..	..	..	..	..	..	..	..
	..	..	..	0.01	0.02	0.03	0.01	0.03
<i>Sales (within the State)</i>								
Domestic light and small power . . . . .	..	..	..	0.65	2.37	8.25	6.50	11.60
Commercial light & small power . . . . .	..	..	..	..	0.66	5.28	4.17	
Industrial power . . . . .	..	..	..	0.07	0.16	3.13	2.47	1.30
Public lighting . . . . .	..	..	..	0.07	0.16	1.06	0.84	1.00
Railways/Tramways . . . . .	..	..	..	..	..	..	..	..
Agricultural . . . . .	..	..	..	..	..	..	..	..
Public Water Works & Sewage pumping . . . . .	..	..	..	0.05	0.03	0.68	0.54	0.70
Miscellaneous . . . . .	..	..	..	..	..	0.28	0.22	0.20
TOTAL . . . . .	..	..	..	0.84	3.38	18.68	14.74	14.80
Total No. of consumers	N.A.	N.A.	N.A.	1,953	5,175	16,197	22,187	19,758
Total No. of villages electrified . . . . .	..	..	7	11	41	136@@	156@@	175
Total length of Transmission lines (11 kV & above) Circuit Kilometres	N.A.	N.A.	N.A.	11	52	N.A.	1,047	1,288
Total length of Distribution lines (below 11 kV) Circuit Kilometres	N.A.	N.A.	N.A.	67	161	N.A.	756	718
No. of pumpsets	Nil.	Nil.	Nil.	Nil	Nil	Nil	1	1
Transmission & Distribution losses (%) for the year	N.A.	N.A.	N.A.	15.88	11.98	15.01	19.98	25.26

Note:—@@—As per 1971 census.

TABLE No. 9-1-15

Progress of Electricity Supply—Orissa

Year ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Installed Capacity (MW)								
Hydro	0.01	24.01	123.01	304.44	304.42	424.43	544.42	604.42
Steam	0.78	5.78	5.78	5.75	195.75	258.25	258.25	258.25
Diesel	4.08	3.99	7.47	4.80	1.68	1.05	0.55	0.45
TOTAL	4.87	33.78	136.26	314.99	501.85	683.73	803.22	863.12
Energy Generation (Gross) (Million kWh)								
Hydro	0.01	0.01	483.74	1,155.52	997.57	1,591.14	1,470.00	2,518.57
Steam	2.13	17.62	5.90	0.97	384.36	550.06	861.20	716.30
Diesel	4.67	3.52	..	..	0.95	0.43	0.04	0.06
TOTAL	6.81	21.15	489.64	1,156.49	1,382.88	2,141.63	2,331.24	3,234.93
Purchase from non-utilities Used by power station auxili- aries	N.A.	N.A.	44.81	9.03	9.83	5.91	6.68	4.41
	..	..	3.68	4.26	53.55	70.24	97.38	85.87
Sales (within the State)								
Domestic light & small power .	2.23	4.02	18.30	29.93	28.82	47.40	48.85	61.83
Commercial light & small power	1.41	1.94	7.87	16.69	51.32	40.83	43.95	56.17
Industrial power	1.12	7.58	457.47	882.21	1,131.13	1,356.72	1,426.62	1,844.50
Public lighting	0.24	0.61	1.49	7.95	4.41	6.95	6.93	7.92
Railways/Tramways . . . . .	..	..	..	32.72	26.11	49.75	53.98	70.99
Agricultural . . . . .	..	..	0.75	1.73	3.33	7.90	8.88	9.02
Public water Works & Sewage pumping	0.10	1.05	2.30	5.36	4.94	21.65	20.97	26.36
Miscellaneous . . . . .	..	..	..	..	..	26.62	19.98	18.63
TOTAL	5.10	15.20	488.18	976.59	1,250.06	1,557.82	1,630.16	2,095.42
Total No. of consumers	3,965	12,187	34,452	75,820	117,897	207,731	234,977	277,843
Total No. of villages electrified .	..	25	118	534	821	8,466	10,128	11,507
Total length of Transmission lines (11 kV & above) Circuit Kilometres	66	381	2,028	7,196	8,792	17,962	22,481	23,609
Total length of Distribution lines (below 11 kV) Circuit Kilometres	42	101	205	2,000	2,774	9,627	11,482	12,406
No. of pumpsets	N.A.	N.A.	N.A.	N.A.	477	2,759	3,515	4,524
Transmission & Distribution losses (%) for the year	N.A.	N.A.	N.A.	14.60	9.96	10.47	11.39	13.92

Note:—Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly-owned projects according to the share of participating States instead of the previous practice of taking the total values against the state having major share.

TABLE No. 9.1.16
Progress of Electricity Supply—Punjab

Year ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
(Installed Capacity (MW))								
Hydro	48.24	144.24	324.73	417.37	660.70	708.70	714.70	717.70
Steam	1.08	1.08	1.58	5.00	15.00	5.00	115.00	225.00
Diesel	8.60	10.45	9.54	10.28	6.07	56.98	56.62	56.62
TOTAL	57.92	155.77	335.85	432.65	681.77	770.68	886.32	999.32
Energy Generation (Mkwh)								
Hydro	163.72	413.50	977.73	1806.34	2441.43	3488.74	2478.56	3402.51
Steam	9.31	0.69	4.36	8.00	4.49	8.72	152.50	432.83
Diesel	9.31	0.69	4.36	4.45	0.76	30.24	59.02	5.87
TOTAL	173.03	414.19	982.09	1,818.79	2,446.68	3,527.70	2,690.08	3,841.21
Purchased from non-utilities Used by power station auxiliaries	..	..	..	..	..	..	..	..
	..	..	0.96	0.31	8.12	10.89	24.04	49.08
Sales (within the State)								
Domestic light & small power	24.00	10.84	69.87	113.54	121.67	209.43	198.36	250.18
Commercial light & small power	12.01	34.82	61.40	86.43	77.87	96.71	111.46	155.51
Industrial power	56.13	153.63	355.97	1,915.71	1,834.04	1,661.29 ^A	1,191.60 ^A	2,048.36
Public lighting	2.44	5.75	9.09	9.87	8.71	9.07	7.69	9.49
Railways/Tramways	0.49	22.66	74.85	210.85	199.41	709.68 ^B	695.85 ^B	897.20 ^B
Agricultural	6.59	8.73	9.12	13.41	6.84	4.86	2.72	6.73
Public Water Works & pumping . . . . .	..	..	..	..	7.57	81.57	2.31	12.31
Miscellaneous . . . . .	..	..	..	..	..	..	..	..
TOTAL	102.56	236.43	580.30	2349.81	256.11	2,772.61	2,209.99	3,379.78
Total No. of consumers	N.A.	230,795\$	500,859\$	907,985	981,689	1,281,476	1,284,939	1,379,511
Total No. of villages electrified	42	369	1,712	3,697	5,018	7,078	7,717@@	9,926
Total length of Transmission lines (11 KV & above) Circuit Kilometres	N.A.	5,077\$	15,302\$	21,759\$	17,811*	27,045*	30,972*	32,353*
Total length of distribution lines (below 11 KV) Circuit Kilometres	N.A.	105\$	60\$	13,718\$	21,727	36,042	38,604	41,210
No. of pumpsets	N.A.	3,095	8,514	25,296	59,112	129,566	138,902	146,475
Transmission & Distribution losses (%) for the year	N.A.	N.A.	N.A.	14.59\$	18.96	20.74	20.65	15.08

\$—Figures pertain to erstwhile Punjab.

*—Transmission lines of B.M.B. have been included.

NOTE :—1. Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly owned projects according to the share of participating States instead of the previous practice of taking the total values against the State having major share.

**Figures of installed capacity and generation for all the years from 1966-67 onwards are for the area under reorganised Punjab. Figures of the years 1951, 1960-61 and 1965-66 present Punjab and Chandigarh/combined, due to want of data at present.

(A) Includes N.F.F.

(B) Includes Public Water Works and I.B. Consumption.

TABLE No. 9·1·17
Progress of Electricity Supply—Rajasthan

Year ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Installed capacity (MW)*								
Hydro				156·27	305·33	376·33	376·33	376·33
Steam	17·26	24·00	46·25	48·50	146·15	163·00	163·00	163·00
Diesel	13·68	19·79	24·43	31·81	36·96	34·09	31·40	31·33
Gas turbine . . . . .	..	..	..	10·00	10·00	10·00	10·00	10·00
TOTAL	30·94	43·79	70·68	246·58	498·44	583·42	580·73	580·66
Energy generation (Gross)								
Hydro				564·24	932·44	1,594·64	1,466·32	1,703·45
Steam	42·72	61·28	70·41	127·31	346·32	547·01	658·56	724·06
Diesel	21·55	29·03	37·99	36·16	32·15	11·45	9·81	5·37
Gas turbine . . . . .	..	..	..	1·38	Neg.	..	..	..
TOTAL	64·27	90·31	108·40	729·09	1,310·91	2,153·10	2,134·69	2,432·88
Purchase from non-utilities	N.A.	N.A.	0·11	..	..	..	..	..
Used by Power station auxiliaries . . . . .	..	..	6·40	10·55	41·23	53·65	61·82	69·72
Sales within the States :								
Domestic light and small power	10·83	12·33	20·73	38·51	53·56	94·39	107·02	119·87
Commercial light and small power	5·83	11·12	15·86	38·26	51·59	76·05	90·90	93·73
Industrial Power	14·19	21·89	33·58	197·81	409·22	763·91	878·70	1,092·48
Public lighting	1·97	2·99	5·20	7·27	9·55	12·73	12·85	14·58
Railways/Tramways . . . . .	..	..	..	..	..	..	..	..
Agricultural	1·66	1·85	3·62	19·68	68·55	281·27	346·98	353·90
Public Water Works & Sewage Pumping	12·92	14·46	19·54	24·26	49·13	80·17	86·51	91·59
Miscellaneous . . . . .	..	..	..	..	10·33	19·79	37·28	55·14
TOTAL	47·40	64·64	98·53	325·79	651·93	1,328·31	1,560·30	1,821·29
Total No. of consumers	43,519	64,667	118,437	249,763	637,255	639,449	713,182	787,931
Total No. of villages electrified	2	5	46	1,115	2,075	5,778@@	6,326@@	7,053
Total length of Transmission lines (11 KV & above) Circuit Kilometres	382	571	1,252	10,685	15,299	33,436	35,558	38,706
Total length of distribution lines (below 11 KV) Circuit Kilometres	385	527	737	6,648	8,710	30,779	33,947	36,980
No. of pumpsets	30	47	1,038	6,861	18,362	74,696	86,793	93,826
Transmission & Distribution losses (%) for the year	N.A.	N.A.	N.A.	20·06	24·06	26·93	28·57	25·79

@@As per 1971 census.

NOTE :—Figures of installed capacity and generation from 1965-66 and onwards have been changed by taking the installed capacity and generation of jointly-owned projects according to the share of participating States instead of the previous practice of taking the total value against the State having major share.

*Capacity and generation of Nuclear Plant has been shown in "Central Govt. Projects" Table for the year 1973-74.

TABLE No. 9·1·18
Progress of Electricity Supply—Tamil Nadu

Year ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<i>Installed capacity in MW</i>								
Hydro	101·95	165·15	415·45	906·65	969·00	1,224·00	1,224·00	1,224·00
Steam	52·00	84·00	101·50	401·50	501·50	430·00	430·00	540·00
Diesel	0·52	0·52	0·52	6·00	..	..	..	..
TOTAL	154·47	249·67	517·47	1,314·15	1,470·50	1,654·00	1,654·00	1,764·00
<i>Energy Generation (M.kwh)</i>								
Hydro	579·17	802·62	1,797·55	1,978·63	3,044·81	3,696·94	3,826·63	4,405·23
Steam	140·19	281·72	416·17	2,230·50	2,616·20	1,170·96*	1,249·64	1,316·89
Diesel	0·20	..	..	..	..	..	..	..
TOTAL	719·56	1,084·34	2,213·72	4,209·13	5,661·01	4,867·90	5,076·27	5,722·12
Purchase from non-utilities . . . . .	..	..	..	..	..	1·00	..	8·14
Used in power station auxiliaries . . . . .	..	..	64·75	266·33	293·29	162·73	190·88	204·52
<i>Sales (within the State)</i>								
Domestic light & small power	5·34	108·92	152·89	213·70	270·86	390·27	425·23	501·14
Commercial light & small power	54·69	90·40	156·71	299·14	309·26	477·61	416·77	452·92
Industrial power	324·29	449·37	909·79	1,792·32	2,496·59	2,713·75	2,673·82	3,341·35
Public lighting	14·18	20·77	33·92	48·91	62·67	78·23	81·30	88·80
Railways/Tramways	15·75	12·63	15·00	20·29	..	77·66	38·92	44·84
Agricultural	69·64	138·30	382·40	819·65	1,126·16	1,604·78	1,849·77	1,694·00
Public Water Works & sewage pumping	8·63	10·32	14·43	28·11	34·65	46·28	46·73	51·57
Miscellaneous . . . . .	..	..	..	..	54·12	124·65	26·59	30·04
TOTAL	546·52	830·71	1,665·14	3,222·12	4,354·31	5,513·23	5,559·13	6,204·66
Total No. of consumers	N.A.	N.A.	761,327	1,335,294	1,813,953	2,738,109	2,820,641	2,955,295
Total No. of villages electrified	1,495	2,430	5,919	7,830	9,472	13,804	15,416	15,509
Total length of transmission lines (11 KV & above) Circuit Kilometres	N.A.	N.A.	26,255	44,520	52,575	68,453	69,444	71,497
Total length of distribution lines (below 11 KV) Circuit Kilometres	N.A.	N.A.	533	80,232	112,105	1,974,490	199,699	207,518
No. of pumpsets	14,373	32,440	117,695	256,594	410,119	681,258	706,914	742,746
Transmission & Distribution losses (%) for the year	N.A.	N.A.	N.A.	17·52	18·92	18·66	21·66	18·53

*—Installed capacity & generation of Neyveli Lignite Corpn. T. P. S. is included in "Central Govt. Undertakings" table for the year 1973-74.

TABLE No. 9.1.19

PROGRESS OF ELECTRICITY SUPPLY—Tripura

Year Ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	5	7	8	9
<i>Installed Capacity (MW)</i>								
Diesel	N.A.	N.A.	N.A.	2.39	2.89	5.15	4.88	4.88
Total	N.A.	N.A.	N.A.	2.39	2.89	5.15	4.88	4.88
<i>Energy Generated (M. kwh)</i>								
Diesel	N.A.	N.A.	N.A.	4.52	7.54	5.10	5.55	5.00
Total	N.A.	N.A.	N.A.	4.52	7.54	5.10	5.55	5.00
Domestic	N.A.	N.A.	N.A.	2.63	3.97	5.40	5.42	8.20
Commercial	N.A.	N.A.	N.A.	0.32	0.29	0.66	0.66	1.58
Industrial Power	N.A.	N.A.	N.A.	0.53	1.62	2.01	2.02	2.69
Public lighting	N.A.	N.A.	N.A.	0.10	0.10	0.63	0.63	0.25
Railways/Tramways	N.A.	N.A.	N.A.	..	..	..	..	..
Agricultural	N.A.	N.A.	N.A.	..	0.09	0.25	0.27	0.52
Public Water Works	N.A.	N.A.	N.A.	..	0.50	..	0.50	0.32
Miscellaneous	N.A.	N.A.	N.A.	..	..	1.00	0.50	0.55
TOTAL	N.A.	N.A.	N.A.	3.58	6.57	9.95	10.00	14.11
Consumers	N.A.	N.A.	N.A.	4,266	6,806	10,253	10,347	13,650
Villages electrified	..	Nil	12	31	48	103	125	170
Total length of lines (11 kv & above)	N.A.	N.A.	N.A.	113	354	N.A.	883	997
Below 11 kv	N.A.	N.A.	N.A.	113	213	N.A.	270	280
No. of pump sets	..	..	..	..	..	40	40	99
Transmission & distribution losses	N.A.	N.A.	N.A.	19.54	11.57	25.24	31.34	16.61

TABLE No. 9 · 1 · 20

Progress of Electricity Supply—Uttar Pradesh

Year ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<i>Installed capacity (MW)</i>								
Hydro	26·22	96·39	92·47	477·76	477·75	606·28	796·28	942·28
Steam	161·09	179·86	270·81	398·23	814·24	932·40	1,026·00	1,126·00
Diesel	12·88	32·49	34·16	42·05	40·95	6·66	6·66	6·21
Gas turbine . . . . .	..	..	..	12·50	12·50	12·50	12·50	12·50
TOTAL	200·19	308·74	397·44	930·54	1,345·44	1,557·84	1,841·44	2,086·99
<i>Energy (million kWh) generation</i>								
Hydro	157·32	232·31	439·97	1,542·86	1,611·44	1,986·64	1,589·92	2,662·43
Steam	398·27	490·83	786·26	1,450·67	3,707·27	3,892·80	4,598·83	5,355·69
Diesel	14·18	20·34	26·09	25·10	6·26	1·76	0·76	0·32
Gas turbine . . . . .	..	..	..	14·03	1·19	7·98	14·17	1·35
TOTAL	569·77	743·48	12,52·32	3,032·66	5,326·16	5,889·18	6,203·68	8,019·79
Purchase from non-utilities	..	..	..	..	..	..	0·64	12·29
Used by power station auxiliaries	..	..	59·55	118·35	347·03	374·17	467·98	543·09
<i>Sales (within the State)</i>								
Domestic light & Small Power	49·59	71·51	122·72	190·50	283·09	403·81	437·73	579·88
Commercial light & small power	40·45	59·32	74·74	116·11	129·44	125·21	127·76	100·57
Industrial Power	230·99	314·18	503·93	1,639·76	2,884·93	2,444·70	2,533·02	2,790·74
Public Lighting	6·25	8·38	13·85	18·61	21·22	26·69	28·49	37·08
Railways/Tramways . . . . .	..	..	..	20·32	124·64	166·85	184·08	221·49
Agricultural	98·23	90·44	199·99	315·09	652·37	840·95	1,233·45	1,702·16
Public Water Works & Sewage Pumping	32·43	42·15	60·48	70·94	82·17	90·15	79·92	110·32
Miscellaneous	*	*	*	*	76·84	53·61	57·49	382·69
TOTAL	457·94	585·98	975·71	2,372·23	4,254·70	4,151·97	4,681·94	5,924·93
Total No. of consumers	65,025	215,552	325,407	615,314	871,749	1,643,553	1,720,251	1,692,405
Total No. of villages electrified	110	420	1080	5855	12,926	29,765	3,0798@@	31,862
Total length of Transmission lines (11 KV & above) Circuit Kilometres	8,328	14,725	18,517	45,437	67,323	111,897	117,692	120,692
Total length of Distribution lines (below 11 KV) Circuit Kilometres	714	1,103	1,402	12,836	21,773	65,847	71,038	77,861
No. of pumpsets	3,046	5,713	9,881	17,402	75,659	23,3640	249,480	260,738
Transmission & Distribution losses (%) for the year	N.A.	N.A.	N.A.	18·60	19·74	29·81	26·36	22·03

@@—As per 1971 census.

Note :—*Included in Commercial light and small power.

TABLE No. 9-1-21

Progress of Electricity Supply—West Bengal

Year ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
Installed Capacity (MW)@								
Hydro	2.76	4.76	67.21	67.51	25.51	36.51	36.51	36.51
Steam	539.90	528.35	676.98	1211.21	1171.43	1278.94	1223.42	1343.42
Diesel	3.51	5.61	9.47	13.47	12.39	18.01	18.90	19.23
TOTAL	546.17	538.72	753.66	1,292.19	1,209.33	1,333.46	1,278.83	1,399.16
Energy generation (m. kWh)@								
Hydro	5.39	8.34	159.89	144.90	38.83	86.51	100.77	85.03
Steam	1,196.90	1,765.62	21,50.17	3,879.68	3,961.19	4,413.59	4,385.27	45,92.98
Diesel	4.45	4.63	8.68	16.36	16.30	8.71	5.87	7.22
TOTAL	1,207.28	1,778.59	2,318.74	4,040.94	4,096.32	4,508.81	4,491.91	4,685.23
Purchased from non-utilities Used by power station auxiliaries@	N.A.	N.A.	147.13	..	..	..	..	8.70
	N.A.	N.A.	130.60	329.45	323.63	369.20	387.04	410.66
Sales : (within the State)								
Domestic light & small power	180.83	253.40	353.52	510.14	607.78	704.07	761.16	758.44
Commercial light & small power	37.55	79.28	115.79	173.87	209.18	277.18	312.57	397.01
Industrial Power	731.95	1,291.50	1,808.13	3,009.71	2,877.35	3,519.32	3,419.91	3,683.13
Public Lighting	8.35	15.11	23.40	29.80	35.57	37.37	41.79	42.08
Railways/Tramways	42.90	47.49	95.30	227.01	253.96	350.49	338.51	376.92
Agricultural . . . . .	..	2.17	0.65	4.25	15.04	30.10	40.27	51.65
Public Water Works & Sewage pumping	32.56	65.59	95.99	110.14	129.85	145.14	142.63	148.95
Miscellaneous . . . . .	..	..	..	..	0.17	0.12	38.13	45.06
TOTAL	1,034.14	1,754.54	2,492.78	4,064.92	4,128.90*	5,063.79*	5,094.97*	5,503.24*
Total No. of consumers	219,320	336,606	444,960	672,555	823,712	1,052,311	1,145,340	990,687
Total No. of villages electrified	386	553	920	1,594	2,433	8,708	9,257@@	9,825
Total length of transmission lines (11 kV & above) Circuit km.	586	1,254	3,263	6,640	10,611	16,843	27,297	30,472
Total length of distribution lines (below 11 kV) Circuit kilometres	1,272	1,493	1,633	10,186	11,197	14,764	18,850	20,840
No. of pumspets	N.A.	N.A.	56	437	1,199	6,535	7,694	10,701
Transmission & distribution losses (%) for the year	N.A.	N.A.	N.A.	8.60	9.98	11.11	9.04	11.87

NOTE :—@Data include D. V. C. upto 1965-66 and from the year 1968-69 onwards. D.V.C. data have been excluded and have been given separately.

*Sales to ultimate consumers by D.V.C. in West Bengal area is included in 1968-69 and onwards.

@@—As per 1971 census.

TABLE NO. 9-1-22
Progress of Electricity Supply—D. V. C.

Year ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
<i>Installed Capacity (MW)</i>								
Hydro	104.00	104.00	104.00	104.00
Steam	957.50	957.50	1,197.50	1,197.50
TOTAL	1,061.50	1,061.50	1,301.50	1,301.50
<i>Energy generation (Gross) (M.KWh)</i>								
Hydro	274.88	353.36	296.51	320.63
Steam	4,217.22	3,427.69	4,168.94	4,686.14
TOTAL	4,492.10	3,781.05	4,465.45	5,006.77
Purchase from non-utilities Used by power station auxiliaries	N.A. ..	N.A. ..	N.A. ..	0.81 ..	9.14 420.60	40.95 401.69	5.72 448.31	0.47 487.91
Total No. of consumers	21	16	18	18
Total No. of villages electrified.
Total length of Transmission lines (11 kV & above) Cir- cuit Kms.	3,205	2,987	3,147	3,147
Total length of distribution lines (below 11 kV) Circuit Kms.
No. of pumpsets
Transmission & Distribution losses for the year	6.92	2.14	4.03	326

Figures for the year prior to 1968-69 are included in Bihar and West Bengal respectively.
NOTE :—Sales to ultimate consumers by D.V.C. are included in Bihar and West Bengal States.

TABLE No. 9·1·23

Progress of Electricity Supply—Central Govt. Undertakings

Year Ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
Installed Capacity (MW)								
Steam	N.A.	N.A.	N.A.	N.A.	N.A.	806·00	1,006·00	1,006·00
Nuclear . . . . .	..	..	..	..	..	640·00	640·00	640·00
TOTAL	N.A.	N.A.	N.A.	N.A.	N.A.	1,446·00	1,646·00	1,646·00
Energy Generation (Million KWH)								
Steam	N.A.	N.A.	N.A.	N.A.	N.A.	2,643·71	2,307·23	3,838·55
Nuclear . . . . .	..	..	..	..	..	2,396·36	2,206·09	2,626·51
TOTAL . . . . .	..	..	..	..	..	5,040·07	5,513·32	6,465·06
Energy used by power station auxiliaries	N.A.	N.A.	N.A.	N.A.	N.A.	541·99	608·90	654·96

Sales to ultimate consumers has been included in the respective beneficiary states. (Please see table No. 11 A for more details).

Note :—Prior to 1973-74 the data pertaining to Central Govt. Projects have been included in the respective states. The Central Govt. Projects covered in this table are (i) Neyveli (Tamil Nadu), (ii) Tarapore (Nuclear) (Maharashtra), (iii) R. A. P. P. (Nuclear) (Rajasthan), (iv) Pong (Steam) (Punjab), (v) Chola Central Railways, (vi) Badarpur (Steam) (Delhi).

PROGRESS OF ELECTRICITY SUPPLY—*Delhi*

Year Ending	12/51	12/56	3/61	3/66	3/69	3/74	3/75	3/76
1	2	3	4	5	6	7	8	9
<i>Installed Capacity (MW)</i>								
Steam	35·15	52·40	53·60	91·60	231·00	276·20	276·20	276·30
Diesel	7·44	2·79	22·70	20·82	20·82	20·80	20·80	20·80
TOTAL	42·59	55·19	76·30	112·42	251·82	297·00	297·00	297·00
<i>Energy Generation (Mk. 'WH)</i>								
Steam	131·88	231·68	271·41	387·13	605·42	1,204·38	1,420·66	1,492·82
Diesel	5·40	0·54	39·35	7·35	2·87	17·30	1·02	0·31
TOTAL	137·28	232·22	310·76	394·48	608·29	1,221·68	1,421·68	1,493·13
Used by power station auxiliaries . . . . .	..	..	59·24	38·25	66·68	107·73	124·59	136·44
<i>Sales (within the State)</i>								
Domestic light & small power	24·250	52·462	97·101	186·51	261·31	396·76	440·58	468·54
Commercial light & small power	33·003	57·629	72·892	167·29	151·51	285·14	308·03	327·59(A)
Industrial Power	32·406	74·306	153·892	178·43	312·48	487·06	475·75	491·69
Public Lighting	2·637	6·491	10·937	15·88	21·39	59·91	76·42	38·35
Railways/Tramways . . . . .	..	0·347	0·171	..	..	..	..	..
Agricultural	5·730	4·928	5·007	6·91	7·30	6·18	6·18	5·40
Public Water Works & Sewage pumping	21·420	31·592	43·185	55·05	77·60	102·72	112·58	110·07
Miscellaneous . . . . .	..	..	..	..	..	..	..	5·65
TOTAL	119·446	227·755	383·185	610·07	831·59	1,337·77	1,419·54	1,447·29
Total No. of consumers	14,637	112,051	189,393	360,492	498,040	75,2966	779,067	824,18
Total No. of villages electrified	24	24	35	274	276	276	243@@	243
Total length of transmission lines 11 KV & above (C. Kms)	78	213	390	504	2,051	3,239	3,447	3,804
Total length of distribution lines below 11 KV (C. Kms)	347	368	807	3,872	4,612	7,951	8,713	9,178
No. of pumpsets Transmission & distribution losses % for the year	Nil N.A.	Nil N.A.	5 N.A.	673 11·88	2,884 31·16	6,527 6·58	7,271 9·78	8,400 16·25

@@As per 1971 census.

Note:—Figures of installed capacity and generation for the year 1967-68 onwards have been shown according to the share of Delhi.

(A) Includes M.E.S. consumption of 24·90 Million units.