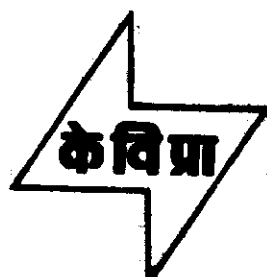


सार्वजनिक विद्युत आपूर्ति  
**PUBLIC ELECTRICITY SUPPLY**

अखिल भारत सांख्यिकी  
**ALL INDIA STATIST**

**1992-93**

सामान्य पुनर्वलोकन  
**GENERAL REVIEW**



केन्द्रीय विद्युत प्राधिकरण  
**CENTRAL ELECTRICITY AUTHORITY**



भारत सरकार

**GOVERNMENT OF INDIA**

विद्युत मंत्रालय

**MINISTRY OF POWER**

केन्द्रीय विद्युत प्राधिकरण

**CENTRAL ELECTRICITY AUTHORITY**

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**GENERAL REVIEW**

**1992-93**

संकलन कर्ता

COMPILED BY

विद्युत आंकड़ा बैंक एवम् सूचना निदेशालय

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केन्द्रीय विद्युत प्राधिकरण

**CENTRAL ELECTRICITY AUTHORITY**

नई दिल्ली

**NEW DELHI**

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## प्रस्तावना

- 1° केन्द्रीय विद्युत प्राधिकरण द्वारा हर वर्ष सार्वजनिक विद्युत आपूर्ति अखिल भारत सांख्यिकी-सामान्य पुनर्वलोकन प्रकाशित किया जा रहा है। इस प्रकाशन में देश में विद्युत आपूर्ति उद्योग की प्रगति एवं विकास की मुख्य मुख्य बातों को सारांशीकृत रूप में प्रस्तुत किया गया है। इस अंक में भी गत वर्ष की पद्धति का अनुपालन किया गया है।
- 2° इस सामान्य पुनर्वलोकन को दस खण्डों में विभाजित किया गया है तथा वर्ष 1992-93 के दौरान देश में प्रत्येक राज्य तथा संघ शासित क्षेत्र में विद्युत आपूर्ति द्वारा की गई प्रगति के व्यापक रूप से ब्यौरे प्रस्तुत किए गए हैं। विद्युत सम्बन्धी विविध प्रकार के आंकड़े जैसे प्रतिस्थापित उत्पादन क्षमता, उत्पादन, पारेक्षण एवं वितरण, उपभोक्ताओं की विभिन्न श्रेणियों द्वारा खपत, विद्युतीकृत गांवों, सिंचाई पम्प सैटों तथा प्रणाली हानि आदि को समाविष्ट किया गया है। ईंधन की खपत चरम मांग तथा विद्युत क्षेत्र में कार्यरत जन शक्ति जैसे प्रचालन सम्बन्धी आंकड़ों के ब्यौरे भी इस प्रकाशन में प्रस्तुत किए गये हैं।
- 3° आठवीं योजना (1992-93 से 1996-97 तक) में विद्युत विकास के कार्यक्रम समेत 31 मार्च 1993 तक विद्युत विकास का एक संक्षिप्त 'दृष्य पटल' भी प्रस्तुत किया गया है। विशिष्टताएँ जो कि गत वर्षों में सम्मिलित की गई थी इस वर्ष भी सम्मिलित की गई हैं। जिनमें वर्षवार/योजनावार प्रतिस्थापित क्षमता संवर्धन, उत्पादन, खपत प्रवृत्ति, ग्राम विद्युतीकरण, प्रति व्यक्ति खपत आदि को जहां पर आवश्यकता समझी गई अद्यतन करके "दृष्य पटल" (ओवर व्यू) की सारिणी (1) से (5) में प्रकाशित किया गया है।
- 4° वर्ष 1992-93 के दौरान विद्युत उद्योग द्वारा दर्शाई गई प्रगति की मुख्य मुख्य बातें नीचे दी गई हैं:
  - (क) 4008.31 मेगावाट ( 3265.18 मेगावाट सार्वजनिक व्यवसायिक संस्थानों में तथा 743.13 मेगावाट गैर -विद्युत व्यवसायी संस्थानों में) का उत्पादन क्षमता संवर्धन जिससे देश में कुल संचित प्रतिस्थापित क्षमता बढ़कर 82374.91 मेगावाट (सार्वजनिक विद्युत व्यवसायी संस्थानों में 72330.37 मेगावाट तथा गैर विद्युत व्यवसायी संस्थानों में 10044.54 मेगावाट) हो गई है। पिछले वर्ष की तुलना में वृद्धि सार्वजनिक विद्युत व्यवसायी संस्थानों में 4.73% तथा गैर विद्युत व्यवसायी संस्थानों के मामले में 7.99% थी। (ऊपर दिए गए गैर विद्युत व्यवसायी संस्थानों के लिए क्षमता के आंकड़ों में केवल उन्हीं उद्योगों के आंकड़ों को लिया गया है जिनके पास एक मेगावाट तथा इससे अधिक उत्पादन क्षमता है।
  - (ख) गत वर्ष की तुलना में 1992-93 के दौरान सार्वजनिक व्यवसायिक संस्थानों द्वारा विद्युत उत्पादन में 4.99% की वृद्धि हुई है। वाष्प विद्युत संयंत्रों द्वारा विद्युत उत्पादन में 7.08% की वृद्धि दर्शाई है। जब कि देश के जल विद्युत संयंत्रों द्वारा उत्पादन में 3.97% की कमी दर्शाई है।
  - (ग) वर्ष के दौरान विभिन्न उपभोक्ताओं को बेची गई विद्युत में गत वर्ष की 9.08% की वृद्धि की तुलना में 6.27% की वृद्धि हुई। औद्योगिक क्षेत्र द्वारा ऊर्जा की खपत 40.86% रही (पिछले वर्ष के दौरान 42.04% की तुलना में) अन्य श्रेणियों की खपत की प्रवृत्ति में कोई महत्वपूर्ण परिवर्तन नहीं हुआ है।

## FOREWORD

Public Electricity Supply-All India Statistics- General Review is being published yearly by the Central Electricity Authority. This publication presents in a summarised form, salient features of the progress and development of electricity supply industry in the country. The pattern followed is the same as in the previous issues of this publication.

2. The "General Review" has been divided into 10 Sections presenting comprehensively the progress achieved by the electricity supply industry in each of the States and Union Territories in the country during the year 1992-93. A wide spectrum of electricity related data viz. installed generating capacity, generation, transmission and distribution, consumption by different categories of consumers, villages electrified, irrigation pumpsets energised and system losses, etc. have been incorporated. The details of operating data like fuel consumption, peak demand and manpower engaged in the Power Sector are also presented in this publication.

3. A brief "Overview" of the power development upto 31st March, 1993 including the programme and achievement of power Development in Eighth Plan (1992-93 to 1996-97) has also been depicted. A feature introduced in previous few years and continued this year also brings out the yearwise/planwise growth of installed capacity, generation, consumption pattern, rural electrification, per capita consumption etc. duly updated, wherever required in Tables (I) to (V) of the "Overview".

4. The important features marking the progress made by Power Sector during 1992-93 are as follows:

(i) Net addition to generating capacity of 4008.31 MW (3265.18 MW in utilities and 743.13 MW in non-utilities) raising the cumulative installed capacity in the country to 82374.91 MW (72330.37 MW in Public Utilities and 10044.54 MW in Non-Utilities). Percentage growth over the previous year was 4.73% in the case of Public Utilities and 7.99% in the case of Non-Utilities. (In the capacity figure for Non-Utilities given above, only industries having capacity of the order of 1 MW and above have been taken into account).

(ii) Increase in electricity generation in utilities during 1992-93 by 4.99% over that of previous year. Steam power plants registered an increase in generation of 7.08%, while generation from hydro plants decreased by 3.97%.

(iii) Increase of 6.27% in electricity sold to various consumers by Public Utilities during the year as compared to 9.08% during the previous year. The share of energy consumed by the Industrial Sector was 40.86% as compared to 42.04% during the last year. Changes in the pattern of consumption in other categories were insignificant.

(घ) वर्ष के दौरान 3.75 मिलियन नए उपभोक्ताओं के संवर्द्धन से सभी श्रेणियों के उपभोक्ताओं की कुल संख्या बढ़कर 77.94 मिलियन हो गई है। वर्ष के अन्त तक कुल संयोजित भार 149796 मेगावाट था। इस वर्ष के दौरान प्रति व्यक्ति विद्युत खपत गत वर्ष की 269.98 कि० वा० घ० से बढ़कर 283.10 कि० वा० घ० हो गई।

(ङ) ग्रामीण क्षेत्रों के विद्युतीकरण पर बल दिया जाना जारी रहा। वर्ष के अन्त तक विद्युतीकृत गांवों की कुल संख्या 490839 हो गई थी (देश के कुल गांवों का 84.8%) जबकि इसकी तुलना में गत वर्ष के अन्त तक विद्युतीकृत गांवों की कुल संख्या 487170 थी जो कि कुल गांवों का 84.1% थी।

(च) संचारण एवं वितरण तार जाल (नेटवर्क) को नई लाईने जोड़कर सुदृढ़ किया गया है। संचारण एवं वितरण तार जाल (नेटवर्क) का विस्तार 31.3.93 की स्थिति के अनुसार संचारण एवं वितरण लाइनों की कुल लम्बाई गत वर्ष के अन्त तक 4574200 सर्किट कि०मी० से बढ़कर 4725694 सर्किट कि०मी० हो गई जो कि 3.31% की वृद्धि दर्शाती है। संचारण एवं वितरण में विद्युत हानि की समग्र प्रतिशतता गत वर्ष के दौरान 22.83% की तुलना में 21.80% थी।

- (5) राज्य विद्युत बोर्डों, विद्युत निगमों तथा अन्य विद्युत व्यवसायी संस्थानों तथा गैर विद्युत व्यवसायी संस्थानों के सहयोग और आधारभूत आंकड़े उपलब्ध करवाने के लिए हम अत्यधिक आभारी हैं। इनके विपुल समर्थन एवं अनुकूल प्रतिक्रिया के बिना इस प्रकाशन को निकालना सम्भव न हो पाता।
- (6) इस प्रकाशन में सम्मिलित सामग्री की यथार्थता सुनिश्चित करने के लिए सभी प्रयास किए गए हैं। इसके बावजूद अगर कोई विसंगति आ गई हो, तो ऐसी विसंगतियों को केन्द्रीय विद्युत प्राधिकरण के ध्यान में लाया जाए ताकि तदनुसार उनका परिशोधन किया जा सके।
- (7) यह सामान्य पुनर्वलोकन, श्री एस०एन० शेंडे सदस्य (आर्थिक एवं वाणिज्य) और श्री बी०एम०रेड्डी सचिव (सी०ई०बी०) के पूर्ण रूपेण मार्ग दर्शन के अन्तर्गत, केन्द्रीय विद्युत प्राधिकरण के विद्युत आंकड़ा बैंक एवं सूचना निदेशालय में समेकित किया गया है। मुझे सम्बन्धित अधिकारियों एवं कर्मचारियों द्वारा इस पुनर्वलोकन के प्रकाशन हेतु किये गए अत्युथानी कार्य के लिए प्रसन्नता है। विशेष रूप से मैं केन्द्रीय विद्युत प्राधिकरण के विद्युत आंकड़ा बैंक एवं सूचना निदेशालय के सर्वश्री सुन्दर श्याम मैदीरता निदेशक, राज कुमार शर्मा निदेशक, नितिश्वर प्रसाद सिंह तथा शशि कान्त शारदा उप निदेशक, धर्मपाल राठी सहायक निदेशक, राजेन्द्र सिंह भाटिया तथा प्रदोश कुमार होम अतिरिक्त सहायक निदेशक (बाणिज्य) दिनेश चन्द्र डबराल और श्री अशोक कुमार साँख्यकी सहायक द्वारा किए गए विशेष प्रयत्नों का उल्लेख करना चाहूंगा।
- (8) इस प्रकाशन को और अधिक उपयोगी बनाया जा सके इस हेतु आपके महत्वपूर्ण सुझावों का स्वागत है।

वाई पी गम्मीर  
(वाई०पी० गम्मीर)

नई दिल्ली

नवम्बर 1994

अध्यक्ष

केन्द्रीय विद्युत प्राधिकरण

(iv) Addition of 3.75 millions new consumers during the year, increasing the total number of consumers of all categories to 77.94 million. The total connected load at the end of the year was of the order of 149796 MW. The per capita consumption of electricity during the year increased to 283.10 Kwh from 269.98 Kwh during the previous year.

(v) The emphasis on electrification of rural areas continued during the year. The total number of villages electrified at the end of the year were 490839 representing 84.8% of the total villages in the country as compared to 487170 villages electrified at the end of the previous year which represents 84.1% of total villages.

(vi) The transmission and distribution network was further augmented by adding new T&D lines. The total length of T&D lines increased to 4725694 Ckt. Kms. as on 31.3.93 from 4574200 Ckt.Kms. at the end of the previous year representing an increase of 3.31%. The overall percentage of T&D losses was 21.80% as compared to 22.83% during the previous year.

5. We are grateful to the various State Electricity Boards, Power Corporations other Power Utilities as well as Non-Utilities for the kind cooperation in furnishing the basic data. This publication would not have been possible but for their unstinting support and favourable response.

6. All efforts have been made to ensure accuracy of the material included in this publication. In spite of this, discrepancies if any may kindly be brought to the attention of the Central Electricity Authority for rectification.

7. The General Review has been compiled in the Power Data Bank & Information Directorate of the Central Electricity Authority under the overall guidance of Shri S.N.Shende, Member (Economic & Commercial) and Shri B.M.Reddy, Secretary (CEB). I have pleasure in noting the meticulous work done by the concerned officers and staff in bringing out this Review. Special mention may be made of the efforts put in by Shri S.S.Mendiratta, Director; Shri R.K.Sharma, Director; S/Shri N.P.Singh and S.K.Sharda, Deputy Directors; Shri D.P.Rathees; Assistant Director, S/Shri R.S.Bhatia and P.K.Home, Extra-Assistant Directors (Commercial) and S/Shri Ashok Kumar & D.C.Dabral, Statistical Assistants of Power Data Bank & Information Directorate.

8. We would welcome any suggestions for improving the publication.

NEW DELHI

November, 1994.

  
(Y.P.GAMBHIR)  
CHAIRMAN, CEA.

**Overview of  
Power Development in the Country  
(Utilities)**

POWER DEVELOPMENT IN THE COUNTRY (UTILITIES)  
AN OVERVIEW

Power Development in India commenced at the end of 19th Century with the commissioning of electricity supply in Darjeeling during 1897, followed by commissioning of hydel power station at Sivasamudram in Karnataka during 1902. In the pre-independence era, the power supply was mainly in the hands of Private Sector, that too restricted to the urban areas. After independence, the Government of India felt the need for restructuring electricity supply industry with a view to rationalise its growth all over the country. The Electricity (Supply) Act was enacted in 1948. With the formation of State Electricity Boards in various parts of the country in the early 50s, and with the advent of the Five Year Plans, a significant step was taken in bringing about systematic growth of power supply industry all over the country. A number of multi-purpose projects came into being and with the setting up of thermal, hydro and nuclear power stations, power generation started increasing significantly. The Central participation in the expansion of power generation programme started with the creation of two generating corporations viz. National Thermal Power Corporation and National Hydro Power Corporation during the year 1975, which gave a fillip to the growth of the Power Sector in the country. The Nuclear Power Corporation and Power Grid Corporation of India Ltd. were created to give further boost to the Power Development Programme. The growth of the power sector in the country from 1950 to the end of 1992-93 has been displayed in the tables immediately after this Write-up and is briefly discussed in the following paragraphs.

I. INSTALLED CAPACITY  
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The installed capacity which was only 1713 MW as on 31.12.1950 rose to 63,636 MW at the end of VIIth Plan period, thermal constituting 43764 MW i.e. 68.77%, Hydel 18307 MW i.e. 28.77% , Nuclear 1565 MW i.e. 2.46% of the total installed capacity. The total installed capacity rose to 72330 MW at the end of 1992-93, the first year of the

VIIth Plan. The target and achievement during the VIIIth Plan are highlighted in para VIII of the overview. There has been substantial growth in installed capacity during various five year plans ranging from 28% to as much as 94% over the previous plan period.

## II. GROSS GENERATION

-----

The gross electricity generation which was 5,107 Gwh during the year ending 31.12.1950 rose to 2,45,438 Gwh in 1989-90 (last year of VIIIth Plan period) thermal constituting 178697 Gwh i.e. 72.81%, Hydel 62116 Gwh i.e. 25.31% and Nuclear 4625 Gwh i.e. 1.88% of the total generation. The total generation rose to 301362 Gwh during 1992-93, the first year of the VIIIth Plan. The target and achievement during VIIIth Plan are highlighted in Para VIII of the "Overview". There has been substantial growth in generation during the various five year plans ranging from 40.60% to as much as 97% over the previous plan.

## III. CONSUMPTION

-----

The consumption of 4157 Gwh as on 31.12.1950 rose to 1,75,419 Gwh during 1989-90 (last year of VII Plan). The consumption increased to 2,20,674 Gwh in 1992-93, the first year of the VIIIth Plan. There has been substantial growth in the consumption during every plan, the percentage varying from 34.5% to as much as 94.6%. The industrial and agricultural categories constitute the major consumers of electricity. The percentage with respect to total consumption varied between 46.30% to 73.50% in the industrial category and from 3.60% to 25.12% in the agricultural sector.

## IV. RURAL ELECTRIFICATION

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The number of villages electrified also rose from 3061 representing 0.54% of total villages existing as on 31.3.1951 to as many as 4,70,838 at the end of the VIIth.

Plan i.e. 81.30% of the total villages. The cumulative number of villages electrified as on 31.3.1993 was 4,90,839 indicating 84.8% of the total villages.

V. TRANSMISSION & DISTRIBUTION LINES

---

The length of transmission and distribution lines rose from 29271 Ckt. Kms. as on 31.12.1950 to 44,07,501 Ckt. Kms. as on 31.3.1990, the last of the VIth Plan. This went further up to 47,25,694 Ckt. Kms. at the end of March 1993. The percentage growth in transmission and distribution lines varied from 9.76% to 243.10%.

VI. PER CAPITA CONSUMPTION

---

An important index of Power development is the per capita consumption which was merely 15.6 Kwh during 1950 and rose to 237.95 Kwh at the end of VIIth Plan i.e. during 1989-90. This went further up to 283.10 Kwh during 1992-93, the first year of the VIIIth Plan.

VII. Highlights of proposal during Eighth Five Year Plan 1992-1997.

---

As per the Eighth Five Year Plan document a capacity addition of 30538 MW has been fixed, comprising thermal 20156 MW, Hydel 9282 MW and Nuclear 1100 MW. Of the capacity addition of 30538 MW, 12858 MW will be added in the Central Sector. The remaining 17680 MW in State Sector also includes 2810 MW in the Private Sector. The total capacity at the end of Eight Plan has been envisaged as 99620 MW. The compound annual growth rate during this period works out to 7.60%. Generation from utilities will be around 418.21 Billion Kwh in the last year of the VIIIth Five Year Plan assuming a compound annual growth rate of 7.84%.

During the Eighth Plan it is proposed to electrify around 50,000 villages. These include about 10,000 villages in the remote areas, which would mainly be electrified through non-conventional energy sources. It is also proposed to energise upto 25 lakhs pumpsets during this Plan.



VIII. Achievement during the First Year of the VIIIth Plan  
1992-93.

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An addition of 3537.27 MW in generating capacity was achieved during the year 1992-93 as against the target of 4458.02 MW. The generation was 301362 Gwh against the target of 302700 Gwh. 3669 villages were electrified during the year 1992-93, thus bringing the total villages electrified to 490839 which is 84.80% of total villages in the country. 460046 irrigation pumpsets were energised during the period thus bringing the total pumpsets energised so far to 9851154 which is 82.09% of the total irrigation pumpsets potential of 12 million.

TABLE NO.1

## PLANWISE GROWTH OF POWER SECTOR IN THE COUNTRY-UTILITIES ONLY

	31.12.50	Ist* Plan ending on 31.3.56	IInd ** Plan ending on 31.3.61	IIIRD Plan ending on 31.3.66	Three Annual Plans ending on 31.3.69	IVth Plan ending on 31.3.74	Vth Plan ending on 31.3.79	Annual Plan ending on 31.3.80	Vith Plan ending on 31.3.85	VIIth Plan ending on 31.3.90	31.3.93
Installed Capacity (MW)	1713	2695 (57.3)	4653 (72.7)	9027 (94.0)	12957 (43.5)	16664 (28.6)	26682 (60.1)	28448 (6.6)	42585 (49.7)	63636 (49.4)	72330 (13.66)
Gross Generation (GWH) (A)	5107	8592 (68.2)	16937 (97.1)	32990 (94.8)	47434 (43.8)	66689 (40.6)	102523 (53.7)	104627 (2.1)	156859 (49.9)	245438 (56.5)	301362 (22.79)
Consumption (GWH) (A)	4157	7111 (71.1)	13841 (94.6)	26735 (93.2)	37352 (39.7)	50246 (34.5)	77293 (53.8)	78084 (1.0)	114068 (46.1)	175419 (53.8)	220674 (25.80)
No. of villages electrified	3061 (\$)	7294 (138.3)	21754 (198.2)	45148 (107.6)	73739 (63.3)	156729 (112.5)	232770 (48.5)	249799 (7.3)	370332 (48.2)	470838 (27.1)	490839 (4.25)
Length of T & D Lines (CKt. Kms.)	29271 @	66421 (126.9)	157887 (137.7)	541704 (243.1)	836307 (54.4)	1546097 (84.9)	2145919 (38.8)	2351609 (9.6)	3211956 (36.6)	4407501 (37.2)	4725694 (7.22)
Per capita consu- mption (Utilities+ Non-Utilities) (KWH) (A)	15.55	26.40 (69.8)	37.90 (43.6)	61.30 (61.7)	77.88 (27.0)	97.48 (25.2)	130.94 (34.3)	130.49 (-0.3)	168.52 (29.1)	237.95 (41.2)	283.10 (18.97)

## Note:-

\* Figures for the Ist Plan period are from 1.1.51 to 31.12.55.

\*\* Figures for the IInd Plan period are from 1.1.56 to 31.3.61.

Figures in brackets are %age growth with reference to preceeding Plan.

@ Does not include distribution lines as no information is available below 500 volts lines.

(\$) Figures ending March, 1951.

(A) Figures for the year ending on the indicated dates.

TABLE NO.11  
 INSTALLED GENERATING CAPACITY IN THE COUNTRY  
 PRIMEOVERWISE (UTILITIES ONLY)

TOTAL INSTALLED CAPACITY (M.W.)				
YEAR	TOTAL	HYDRO	THERMAL (including Diesel, Wind, Gas & Steam)	NUCLEAR
1	2	3	4	5
1950	1712.52 (100.00)	559.29 (32.66)	1153.23 (67.34)	0.00 0.00
1951	1835.43 (100.00)	575.18 (31.34)	1260.25 (68.66)	0.00 0.00
1952	2061.76 (100.00)	715.18 (34.69)	1346.58 (65.31)	0.00 0.00
1953	2305.19 (100.00)	731.18 (31.72)	1574.01 (68.28)	0.00 0.00
1954	2494.00 (100.00)	793.35 (31.81)	1700.65 (68.19)	0.00 0.00
1955	2694.82 (100.00)	939.48 (34.86)	1755.34 (65.14)	0.00 0.00
1956	2886.14 (100.00)	1061.44 (36.78)	1824.70 (63.22)	0.00 0.00
1957-58	3223.11 (100.00)	1213.92 (37.66)	2009.19 (62.34)	0.00 0.00
1958-59	3511.59 (100.00)	1361.44 (38.78)	2149.84 (61.22)	0.00 0.00
1959-60	3873.17 (100.00)	1530.15 (39.51)	2343.02 (60.49)	0.00 0.00
1960-61	4653.05 (100.00)	1916.66 (41.19)	2736.39 (58.81)	0.00 0.00
1961-62	5218.82 (100.00)	2419.10 (46.35)	2799.72 (53.65)	0.00 0.00
1962-63	5801.19 (100.00)	2936.35 (50.62)	2864.84 (49.38)	0.00 0.00
1963-64	6576.94 (100.00)	3167.02 (48.16)	3403.92 (51.84)	0.00 0.00
1964-65	7396.67 (100.00)	3388.73 (45.81)	4007.94 (54.19)	0.00 0.00
1965-66	9027.02 (100.00)	4123.74 (45.68)	4903.28 (54.32)	0.00 0.00
1966-67	10092.17 (100.00)	4757.22 (47.14)	5334.95 (52.86)	0.00 0.00
1967-68	11888.16 (100.00)	5486.92 (46.17)	6396.24 (53.83)	0.00 0.00
1968-69	12957.27 (100.00)	5906.91 (45.59)	7050.36 (54.41)	0.00 0.00
1969-70	14102.45 (100.00)	6134.77 (43.50)	7547.68 (53.52)	420.00 (2.98)

TABLE No. II (Contd.)

1	2	3	4	5
1970-71	14708.95 (100.00)	6383.23 (43.40)	7905.72 (53.74)	420.00 (2.86)
1971-72	15254.37 (100.00)	6611.61 (43.34)	8222.76 (53.91)	420.00 (2.75)
1972-73	16301.71 (100.00)	6785.41 (41.62)	8876.30 (54.45)	640.00 (3.93)
1973-74	16663.56 (100.00)	6965.30 (41.80)	9058.26 (54.36)	640.00 (3.84)
1974-75	18316.68 (100.00)	7529.24 (41.11)	10147.44 (55.40)	640.00 (3.49)
1975-76	20117.06 (100.00)	8463.60 (42.07)	11013.46 (54.75)	640.00 (3.18)
1976-77	21468.59 (100.00)	9024.90 (42.04)	11803.69 (54.98)	640.00 (2.98)
1977-78	23668.71 (100.00)	10020.22 (42.34)	13008.49 (54.96)	640.00 (2.70)
1978-79	26680.06 (100.00)	10833.07 (40.60)	15206.99 (57.00)	640.00 (2.40)
1979-80	28447.83 (100.00)	11383.97 (40.02)	16423.86 (57.73)	640.00 (2.25)
1980-81	30213.68 (100.00)	11791.22 (39.02)	17562.46 (58.13)	860.00 (2.85)
1981-82	32345.09 (100.00)	12172.81 (37.63)	19312.28 (59.71)	860.00 (2.66)
1982-83	35363.27 (100.00)	13055.86 (36.92)	21447.41 (60.65)	860.00 (2.43)
1983-84	39338.86 (100.00)	13855.56 (35.23)	24388.30 (61.99)	1095.00 (2.78)
1984-85	42584.72 (100.00)	14460.02 (33.96)	27029.70 (63.47)	1095.00 (2.57)
1985-86	46769.03 (100.00)	15471.60 (33.08)	29967.43 (64.08)	1330.00 (2.84)
1986-87	49265.86 (100.00)	16195.64 (32.87)	31740.22 (64.43)	1330.00 (2.70)
1987-88	54155.17 (100.00)	17265.33 (31.88)	35559.84 (65.66)	1330.00 (2.46)
1988-89	59040.38 (100.00)	17798.05 (30.15)	39677.33 (67.20)	1565.00 (2.65)
1989-90	63636.34 (100.00)	18307.63 (28.77)	43763.71 (68.77)	1565.00 (2.46)
1990-91	66086.33 (100.00)	18753.42 (28.38)	45767.91 (69.25)	1565.00 (2.37)
1991-92	69065.19 (100.00)	19194.31 (27.99)	48085.88 (69.62)	1785.00 (2.59)
1992-93	72330.37 (100.00)	19575.94 (27.07)	50749.43 (70.16)	2005.00 (2.77)

Notes: Figures in brackets indicate % to total installed capacity.

TABLE NO.III  
GROSS ELECTRICITY GENERATION IN THE COUNTRY  
PRIMEOVERWISE (UTILITIES ONLY)

YEAR	TOTAL GROSS GENERATION (GWH)			
	TOTAL	HYDRO	THERMAL (including Diesel, Wind, Gas & Steam)	NUCLEAR
1	2	3	4	5
1950	5106.70 (100.00)	2519.17 (49.34)	2586.93 (50.66)	0.00 0.00
1951	5858.40 (100.00)	2859.70 (48.81)	2998.70 (51.19)	0.00 0.00
1952	6120.35 (100.00)	2799.13 (45.73)	3321.22 (54.27)	0.00 0.00
1953	6697.19 (100.00)	2913.86 (43.51)	3783.33 (56.49)	0.00 0.00
1954	7521.78 (100.00)	3236.52 (43.03)	4285.26 (56.97)	0.00 0.00
1955	8592.45 (100.00)	3742.24 (43.55)	4850.21 (56.45)	0.00 0.00
1956	9662.13 (100.00)	4294.87 (44.45)	5367.26 (55.55)	0.00 0.00
1957-58	11369.14 (100.00)	5072.24 (44.61)	6296.90 (55.39)	0.00 0.00
1958-59	12993.87 (100.00)	5848.10 (45.01)	7145.79 (54.99)	0.00 0.00
1959-60	15032.95 (100.00)	7027.42 (46.75)	8005.53 (53.25)	0.00 0.00
1960-61	16937.01 (100.00)	7836.58 (46.27)	9100.43 (53.73)	0.00 0.00
1961-62	19669.95 (100.00)	9814.38 (49.90)	9855.57 (50.10)	0.00 0.00
1962-63	22364.97 (100.00)	11804.54 (52.78)	10560.43 (47.22)	0.00 0.00
1963-64	26817.57 (100.00)	13956.70 (52.04)	12860.87 (47.96)	0.00 0.00
1964-65	29563.08 (100.00)	14798.85 (50.56)	14764.23 (49.94)	0.00 0.00
1965-66	32990.12 (100.00)	15224.97 (46.15)	17765.15 (53.85)	0.00 0.00
1966-67	36375.59 (100.00)	16734.10 (46.00)	19641.49 (54.00)	0.00 0.00
1967-68	41194.64 (100.00)	18658.06 (45.29)	22536.58 (54.71)	0.00 0.00
1968-69	47433.65 (100.00)	20722.67 (43.69)	26710.98 (56.31)	0.00 0.00
1969-70	51988.72 (100.00)	23046.05 (44.33)	27603.67 (53.10)	1339.00 (2.57)

1	2	3	4	5
1970-71	55827.64	25248.24 (45.23)	28162.02 (50.44)	2417.38 (4.33)
1971-72	60925.63	28024.22 (46.00)	31712.09 (52.05)	1189.32 (1.95)
1972-73	64546.00	27195.95 (42.13)	36217.31 (56.11)	1132.74 (1.76)
1973-74	66689.03	28971.84 (43.45)	35320.83 (52.96)	2396.36 (3.59)
1974-75	70190.53	27875.18 (39.72)	40109.26 (57.14)	2206.09 (3.14)
1975-76	79230.92	33301.77 (42.03)	43302.64 (54.65)	2626.51 (3.32)
1976-77	88333.31	34836.13 (39.43)	50244.90 (56.89)	3252.28 (3.68)
1977-78	91369.03	38007.16 (41.60)	51089.70 (55.91)	2272.17 (2.49)
1978-79	102522.52	47158.86 (46.00)	52593.98 (51.30)	2769.68 (2.70)
1979-80	104627.26	45477.55 (43.47)	56273.12 (53.78)	2876.59 (2.75)
1980-81	110843.96	46541.76 (41.99)	61300.86 (55.30)	3001.34 (2.71)
1981-82	122101.43	49564.93 (40.60)	69515.61 (56.93)	3020.89 (2.47)
1982-83	130263.58	48373.38 (37.13)	79868.26 (61.32)	2021.94 (1.55)
1983-84	140177.36	49954.27 (35.64)	86677.03 (61.83)	3546.06 (2.53)
1984-85	156859.38	53948.25 (34.39)	98836.30 (63.01)	4074.83 (2.60)
1985-86	170350.13	51020.78 (29.95)	114347.47 (67.12)	4981.88 (2.93)
1986-87	187713.99	53840.86 (28.68)	128851.39 (68.65)	5021.74 (2.67)
1987-88	202092.70	47444.37 (23.48)	149613.61 (74.03)	5034.72 (2.49)
1988-89	221396.13	57867.89 (26.14)	157711.13 (71.23)	5817.11 (2.63)
1989-90	245437.92	62116.09 (25.31)	178696.45 (72.81)	4625.38 (1.88)
1990-91	264328.61	71641.31 (27.11)	186546.20 (70.57)	6141.10 (2.32)
1991-92	287028.58	72757.09 (25.35)	208747.09 (72.73)	5524.40 (1.92)
1992-93	301361.72	69869.25 (23.19)	224766.18 (74.58)	6726.29 (2.23)

Note:-Figures in brackets indicate % age to total generation.

TABLE NO. IV  
CONSUMPTION PATTERN IN THE COUNTRY IN DIFFERENT CATEGORIES (UTILITIES ONLY)

Y E A R	ENERGY SALES (GWH)						
	TOTAL	DOMESTIC	COMMERCIAL	INDUSTRIAL	TRACTION	AGRICULTURE	OTHERS
1	2	3	4	5	6	7	8
1950	4156.66	524.59 (12.60)	308.75 (7.50)	2603.81 (62.60)	308.41 (7.40)	161.68 (3.90)	249.42 (6.00)
1951	4793.34	594.99 (12.40)	331.54 (6.90)	3054.67 (63.70)	329.60 (6.90)	203.04 (4.30)	279.50 (5.80)
1952	5005.68	628.88 (12.60)	336.63 (6.70)	3206.52 (64.00)	324.75 (6.50)	215.18 (4.30)	293.72 (5.90)
1953	5597.08	690.52 (12.30)	399.1 (7.10)	3613.22 (64.60)	358.32 (6.40)	214.12 (3.80)	321.80 (5.80)
1954	6252.50	759.16 (12.10)	446.15 (7.10)	4075.97 (65.20)	378.41 (6.10)	231.39 (3.70)	361.42 (5.80)
1955	7111.01	850.43 (12.00)	514.43 (7.20)	4698.30 (66.00)	403.31 (5.70)	254.79 (3.60)	389.75 (5.50)
1956-57	7959.34	934.11 (11.70)	545.84 (6.80)	5323.43 (66.90)	404.93 (5.10)	316.18 (4.00)	434.85 (5.50)
1957-58	9345.22	1093.63 (11.70)	609.81 (6.50)	6166.80 (66.00)	423.29 (4.50)	544.64 (6.00)	507.05 (5.40)
1958-59	10718.61	1238.03 (11.50)	682.81 (6.30)	7224.05 (67.50)	441.56 (4.10)	583.48 (5.50)	548.68 (5.10)
1959-60	12406.94	1378.54 (11.10)	766.17 (6.20)	8455.52 (68.20)	440.60 (3.60)	753.95 (6.10)	612.16 (4.80)
1960-61	13840.64	1492.29 (10.70)	847.74 (6.10)	9584.32 (69.40)	453.93 (3.30)	832.93 (6.00)	629.43 (4.50)
1961-62	16448.29	1698.08 (10.30)	934.09 (5.70)	11545.60 (70.20)	584.76 (3.60)	991.14 (6.00)	695.22 (4.20)
1962-63	18679.02	1917.85 (10.30)	1048.62 (5.60)	13109.81 (70.20)	723.84 (3.90)	1103.52 (5.90)	775.38 (4.10)
1963-64	21793.98	2062.41 (9.70)	1179.72 (5.50)	15841.84 (73.50)	755.58 (2.20)	1153.17 (5.40)	801.26 (3.70)
1964-65	24219.27	2246.21 (9.20)	1427.48 (5.90)	17378.58 (71.80)	898.33 (3.70)	1396.69 (5.80)	871.98 (3.60)
1965-66	26734.94	2355.15 (8.80)	1650.06 (6.20)	18875.87 (70.60)	1057.29 (4.00)	1891.84 (7.10)	904.73 (3.30)
1966-67	29127.64	2626.72 (9.00)	1819.62 (6.20)	20390.80 (70.00)	1180.22 (4.10)	2106.50 (7.20)	1003.78 (3.50)
1967-68	32686.87	2927.97 (8.90)	1750.19 (5.40)	22852.24 (69.90)	1301.66 (4.00)	2585.25 (7.90)	1269.56 (3.90)
1968-69	37352.25	3184.19 (8.50)	2125.74 (5.70)	25891.23 (69.30)	1246.58 (3.30)	3465.44 (9.30)	1439.07 (3.90)
1969-70	41061.7	3491.00 (8.60)	2333.33 (5.70)	28378.66 (69.10)	1448.32 (3.50)	3774.11 (9.20)	1636.28 (3.90)

1	2	3	4	5	6	7	8
1970-71	43724.16	3839.76 (8.80)	2572.66 (5.90)	29579.10 (67.60)	1364.57 (3.20)	4470.23 (10.20)	1897.84 (4.30)
1971-72	47063.20	4107.46 (8.70)	2952.78 (6.30)	31637.18 (67.20)	1632.69 (3.50)	5005.62 (10.60)	1737.47 (3.70)
1972-73	49088.06	4309.01 (8.80)	2782.19 (5.70)	32244.21 (65.70)	1830.57 (3.70)	5918.10 (12.00)	2003.98 (4.10)
1973-74	50246.38	4644.55 (9.20)	2987.52 (6.00)	32481.38 (64.60)	1530.76 (3.00)	6310.21 (12.60)	2291.96 (4.60)
1974-75	52631.64	5172.79 (9.80)	3081.57 (5.90)	32690.28 (62.10)	1531.17 (2.90)	7762.73 (14.70)	2393.10 (4.60)
1975-76	60245.81	5821.35 (9.66)	3506.76 (5.82)	37568.12 (62.36)	1855.32 (3.08)	8721.06 (14.48)	2773.20 (4.60)
1976-77	66608.57	6336.56 (9.51)	4141.92 (6.22)	41605.63 (62.47)	2167.72 (3.25)	9620.63 (14.44)	2763.11 (4.11)
1977-78	69255.03	6821.31 (9.85)	4427.59 (6.39)	42635.20 (61.57)	2296.81 (3.32)	10107.36 (14.59)	2966.76 (4.28)
1978-79	77292.82	7575.66 (9.80)	4330.58 (5.60)	47727.70 (61.75)	2185.58 (2.83)	12027.85 (15.56)	3445.45 (4.46)
1979-80	78083.62	8402.23 (10.76)	4656.58 (5.95)	45955.48 (58.86)	2301.15 (2.95)	13452.00 (17.23)	3316.18 (4.25)
1980-81	82367.18	9246.43 (11.23)	4681.84 (5.68)	48069.35 (58.36)	2265.91 (2.75)	14489.03 (17.59)	3614.62 (4.39)
1981-82	90245.33	10439.62 (11.57)	5194.41 (5.76)	53063.79 (58.80)	2504.72 (2.78)	15201.16 (16.84)	3041.63 (4.25)
1982-83	95588.57	12091.63 (12.65)	5846.25 (6.12)	52967.36 (55.41)	2632.6 (2.75)	17816.84 (18.64)	4233.89 (4.43)
1983-84	102344.49	13234.51 (12.93)	6560.95 (6.41)	57094.47 (55.79)	2709.86 (2.65)	18233.63 (17.81)	4511.07 (4.41)
1984-85	114067.94	15505.72 (13.59)	6937.39 (6.08)	63019.33 (55.25)	2879.75 (2.52)	20960.44 (18.38)	4765.31 (4.18)
1985-86	122999.34	17257.83 (14.08)	7290.10 (5.93)	66980.06 (54.46)	3182.14 (2.51)	23421.97 (19.04)	4967.24 (4.03)
1986-87	135952.08	19323.13 (14.21)	7772.07 (5.72)	70296.87 (51.71)	3229.41 (2.37)	29443.96 (21.60)	5886.64 (4.33)
1987-88	145612.82	22119.81 (15.19)	8840.81 (6.07)	69180.10 (47.51)	3616.32 (2.48)	35266.55 (24.22)	6589.23 (4.53)
1988-89	160196.43	24767.67 (15.46)	9915.17 (6.19)	75411.64 (47.08)	3772.26 (2.35)	38878.37 (24.27)	7451.32 (4.65)
1989-90	175418.95	29576.75 (16.86)	9548.08 (5.44)	80694.32 (46.00)	4069.66 (2.32)	44055.91 (25.12)	7474.23 (4.26)
1990-91	190357.39	31982.37 (16.80)	11180.99 (5.87)	84208.96 (44.24)	4112.38 (2.16)	50321.40 (26.44)	8551.29 (4.49)
1991-92	207644.70	35853.70 (17.27)	12031.61 (5.79)	87288.57 (42.04)	4519.56 (2.18)	58557.17 (28.20)	9394.09 (4.52)
1992-93	220673.60	39717.08 (18.00)	12652.76 (5.73)	90169.55 (40.86)	5067.73 (2.30)	63327.79 (28.70)	9738.69 (4.41)

Note: Figures in brackets indicate the % of total sales.



TABLE NO.V  
 NUMBER OF VILLAGES ELECTRIFIED, T&D LINES AND PER  
 CAPITA CONSUMPTION IN THE COUNTRY.

Y E A R	no.of villages Electrified **	Transmission & Distribution Lines (Ckt.Kms.)	Per capita Consumption (Utility+Non Utility) (KWH)
1950	N.A.	29271	15.60
1951	@ 3061	39064	17.80
1952	N.A.	43945	19.00
1953	N.A.	52504	20.90
1954	N.A.	58910	23.00
1955	N.A.	66421	25.70
1956	@ 7294	85427	26.40
1957-58	N.A.	101861	27.90
1958-59	N.A.	119936	30.70
1959-60	N.A.	132473	34.80
1960-61	21754	157887	37.90
1961-62	N.A.	169505	43.60
1962-63	N.A.	385739	48.50
1963-64	N.A.	413139	54.40
1964-65	N.A.	465680	57.50
1965-66	45148	541704	61.40
1966-67	54515	660859	66.20
1967-68	62540	717615	71.60
1968-69	73739	886301	77.90
1969-70	88831	976059	83.50
1970-71	104942	1117163	89.80
1971-72	122100	1304169	93.80
1972-73	139560	1418364	96.30
1973-74	156729	1546097	97.48
1974-75	173533	1621848	98.99
1975-76	185808	1718942	109.95
1976-77	202350	1850273	119.38
1977-78	216863	1999080	120.73
1978-79	232770	2145919	130.94
1979-80	249799	2351609	130.49
1980-81	272287	2522461	132.34
1981-82	296505	2693086	141.27
1982-83	323881	2865312	147.05
1983-84	347564	3002095	154.39
1984-85	370332	3211956	168.52
1985-86	390293	3371216	177.98
1986-87	414845	3572460	191.75
1987-88	435653	3792107	203.02
1988-89	455491	4042022	220.94
1989-90	470838	4407501	237.95
1990-91	481124	4533414	252.77
1991-92	487170	4574200	269.98
1992-93	490839	4725694	283.10

Notes:-1.For the years 1950 to 1961-62 Distribution lines length is not included in the total as its data is not available.

2.\*\* Figures have been revised for the year 1966-67 to 1976-77.

@ Figures ending March.

N.A.:\_Not Available.

## **SECTION I**

# **Organisational Structure of Electricity Supply Industry in India**

**S E C T I O N - I**  
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**ORGANISATIONAL STRUCTURE OF ELECTRICITY SUPPLY INDUSTRY  
IN INDIA**

During the year under review, there was no change in the number of State Electricity Boards, which remained 18. All the States except Goa, Sikkim, Arunachal Pradesh, Manipur, Nagaland, Tripura and Mizoram have State Electricity Boards. During the year 1992-93 no undertaking was acquired. One new Private Licensee was formed in the State of Karnataka. Thus there were in all 50 Private Licensees (including Co-operative Societies) and 10 Municipal Licensees operating at the end of the year 1992-93. Out of 50 Private Licensees, 39 were Co-operative Societies.

The various tables in this Section give a brief account of various utilities in the public as well as in the Private Sector, responsible for electricity generation/transmission /distribution in the country.

TABLE NO.1

## NAME OF THE STATE ELECTRICITY BOARDS ESTABLISHED UNDER SECTION 5 OF THE ELECTRICITY (SUPPLY) ACT, 1948

Sl. No.	Name of the State	Name of the State Electricity Board	Date of Establishment
NORTHERN REGION			
1.	Haryana	Haryana S.E.B., Chandigarh	01.04.1967
2.	Himachal Pradesh	Himachal Pradesh S.E.B., Shimla	31.08.1971
3.	Jammu & Kashmir	Jammu & Kashmir S.E.B., Srinagar/Jammu	05.09.1972
4.	Punjab	Punjab S.E.B., Patiala	01.02.1959
5.	Rajasthan	Rajasthan S.E.B., Jaipur	01.07.1957
6.	Uttar Pradesh	Uttar Pradesh S.E.B., Lucknow	01.04.1959
WESTERN REGION			
7.	Gujarat	Gujarat Elec. Board, Baroda	01.05.1960
8.	Madhya Pradesh	Madhya Pradesh E.B., Jabalpur	01.04.1957
9.	Maharashtra	Maharashtra S.E.B., Bombay	20.06.1960
SOUTHERN REGION			
10.	Andhra Pradesh	Andhra Pradesh S.E.B., Hyderabad	01.04.1959
11.	Karnataka	Karnataka Elec. Board, Bangalore	30.09.1957
12.	Kerala	Kerala S.E.B. Thiruvananthapuram	31.03.1957
13.	Tamil Nadu	Tamil Nadu Elec. Board, Madras	01.07.1957
EASTERN REGION			
14.	Bihar	Bihar State Elec. Board, Patna	01.04.1958
15.	Orissa	Orissa State Elec. Board, Bhubaneswar	01.03.1961
16.	West Bengal	West Bengal State Elec. Board, Calcutta	01.05.1956
NORTH-EASTERN REGION			
17.	Assam	Assam S.E.B., Guwahati	01.06.1958
18.	Meghalaya	Meghalaya S.E.B., Shillong	21.01.1975

S.E.B. :- State Electricity Board

TABLE NO.2

NAMES OF GENERATING COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER CENTRAL OR JOINT STATE PARTNERSHIP FOR MEETING REGIONAL POWER REQUIREMENTS AND ELECTRICITY DEPARTMENTS OF GOVERNMENTS OF VARIOUS STATES/UNION TERRITORIES

Sl. No.	Name	Location of Head Quarters	Ownership
<b>(A) GENERATING UNDERTAKINGS</b>			
1.	National Thermal Power Corpn.	New Delhi	Central Government
2.	National Hydro Electric Power Corporation	New Delhi	Central Government
3.	North Eastern Electric Power Corporation Ltd.	Shillong	Central Government
4.	Nuclear Power Corporation	Bombay	Central Government
5.	Neyveli Lignite Corporation	Neyveli	Central Government
6.	Damodar Valley Corporation	Calcutta	Central Government
7.	Karnataka Power Corporation	Bangalore	Karnataka Govt.
8.	Bhakra Beas Management Board	Chandigarh	Punjab, Haryana & Rajasthan
9.	Pench Hydel Power Station	Totladoh	M.P. & Maharashtra
10.	Durgapur Projects Ltd.	Durgapur	West Bengal
11.	Machkund Hydro Electric Project**	Vishakapatnam	Andhra Pradesh/ Orissa Governments
12.	Tungabhadra Hydro Electric Scheme Tungabhadra Board	Ballary Distt. (Karnataka)	Andhra Pradesh/ Karnataka Govts.
13.	Uttar Pradesh RAjya Vidyut Utpadan Nigam Ltd.	Lucknow	U.P. Government
14.	Gujarat Energy Development Agency	Vadodara	Gujarat
15.	West Bengal Power Development Corporation	Calcutta	West Bengal Govt.
16.	Orissa Power Generation Corpn. Ltd.	Bhubaneshwar	Orissa Govt.
17.	Rengali & Upper Kolab Hydro Electric Power Stations	Bhubaneshwar	Orissa Govt.
18.	Power Grid Corpn. of India Ltd.	New Delhi	Central Govt.
19.	A.P. Gas Power Corporation	Hyderabad	Joint venture of A.P.S.E.B./Public Sector & Private Industries.

TABLE NO.2 (Contd.)

Sl. No.	Name	Location of Head Quarters	Ownership
<b>(B) STATE ELECTRICITY DEPARTMENTS</b>			
1.	Goa	Panaji	State Government
2.	Sikkim	Gangtok	State Government
3.	Manipur	Imphal	State Government
4.	Nagaland	Kohima	State Government
5.	Tripura	Agartala	State Government
6.	Arunachal Pradesh	Itanagar	State Government
7.	Mizoram	Aizwal	State Government
<b>(C) UNION TERRITORIES</b>			
1.	Andaman & Nicobar Islands	Port Blair	Electricity Departments of Union Territories
2.	Chandigarth	Chandigarh	
3.	Dadra & Nagar Haveli*	Silvasa	
4.	Daman & Diu*	Moti (Daman)	
5.	Lakshadweep	Cochin	
6.	Pondicherry*	Pondicherry	

- \*\* Operation of the Power House is under the Control of the Superintending Engineer (Operation), Andhra Pradesh State Electricity Board, Vishakhapatnam.
- \* Non-Generating Undertakings.

Table No.3

## DISTRIBUTION OF LICENSEE UNDERTAKING-AS ON 31.3.1993

Region/State	No. of Companies		& Co_operatives	
	Generating & Distributing	Generating Purchasing & Distributing	Purchasing & Distributing	Total
<b>NORTHERN REGION</b>				
Jammu & Kashmir	0	0	1	1
Rajasthan	0	0	3	3
Uttar Pradesh	0	0	1	1
<b>TOTAL Northern Region</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>5</b>
<b>WESTERN REGION</b>				
Gujarat	1	2	0	3
Madhya Pradesh	0	0	17	17
Maharashtra	0	1	2	3
<b>TOTAL Western Region</b>	<b>1</b>	<b>3</b>	<b>19</b>	<b>23</b>
<b>SOUTHERN REGION</b>				
Andhra Pradesh	0	0	9	9
Karnataka	1	0	1	2
Kerala	0	0	1	1
Tamil Nadu	0	0	3	3
<b>TOTAL Southern Region</b>	<b>1</b>	<b>0</b>	<b>14</b>	<b>15</b>
<b>EASTERN REGION</b>				
Bihar	0	0	1	1
Orissa	0	0	1	1
West Bengal	0	4	1	5
<b>TOTAL Eastern Region</b>	<b>0</b>	<b>4</b>	<b>3</b>	<b>7</b>
<b>NORTH EASTERN REGION</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total (ALL INDIA)</b>	<b>2</b>	<b>7</b>	<b>41</b>	<b>50</b>

Table No.4

## DISTRIBUTION OF MUNICIPAL UNDERTAKING - AS ON 31.3.1993

Region/State	Number of Municipalities			Total
	Generating & Distributing	Generating & Purchasing & Distributing	Purchasing & Distributing	
<b>NORTHERN REGION</b>				
Punjab	0	0	1	1
Delhi	0	1	1	2
<b>TOTAL Northern Region</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>WESTERN REGION</b>				
Gujarat	0	0	0	0
Maharashtra	0	0	1	1
<b>TOTAL Western Region</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>SOUTHERN REGION</b>				
Kerala	0	0	1	1
Tamil Nadu	0	0	5	5
<b>TOTAL Southern Region</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>6</b>
<b>EASTERN REGION</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>NORTH EASTERN REGION</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total (ALL INDIA)</b>	<b>0</b>	<b>1</b>	<b>9</b>	<b>10</b>



TABLE NO.5

## ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKING DURING 1992-93

Sl.No.	Name of the Undertaking	Prior Ownership	By whom acquired
No Electricity Supply Undertaking was acquired during the year 1992-93			

TABLE NO.6

## NEW ELECTRICITY SUPPLY UNDERTAKING STARTED OPERATING DURING THE YEAR 1992-93

Sl.No.	Name and address of new Undertaking	State	Date from which Licence/sanction is effective
1.	M/s BHORUKA POWER CORPORATION LTD., BANGALORE-1.	KARNATAKA	28.11.92

## **SECTION II**

### **Generating Capacity (Utilities)**

SECTION -II  
-----

INSTALLED GENERATING CAPACITY  
-----

During the year under review installed generating capacity under Public Utilities in the country increased to 72330.37 MW as on 31.3.1993 as compared to 69065.19 MW as on 31st March, 1992 registering an increase of 4.73% over the previous year.

After taking into account a few retirements of old generating sets during the year, the net addition in generating capacity amounted to 3265.18 MW.

Generating capacity of steam stations continued to form the largest portion of the installed generating capacity followed by Hydro, Nuclear, Gas and Diesel generating stations. The relative percentage of generating capacity of steam, hydro, gas, nuclear and diesel generating stations were 64.42%, 27.07%, 5.43%, 2.77% and 0.31%.

There were 104 steam stations and 289 hydro stations having 346 and 836 Nos. of generating sets with total capacity of 46596.98 MW and 19575.94 MW respectively as on 31st March, 1993.

Besides power stations of public utilities, generating capacity of captive plants of various selected industries registered an increase of 8.03% during the year 1992-93. Generating capacity of captive plants increased from 9168.18 MW to 9904.51 MW comprising 4.30 MW of hydro; 5540.74 MW of steam; 630.81 MW of gas turbine and 3728.66 MW of diesel.

In addition to the above, captive plants of 140.03 MW captive generating capacity were owned by the Railways. The total installed generating capacity in the country including those of captive plants of selected industries and Railways was 82374.91 MW on 31st March, 1993.

The various tables in this section give the detailed salient features of the installed generating capacity in the country as on 31st March, 1993.

TABLE No.7

ALL INDIA INSTALLED GENERATING CAPACITY (UTILITIES AND NON-UTILITIES)  
PRIMEMOVERWISE-AS ON 31ST MARCH, 1993.

Category	Year ending	Installed Generating Capacity (MW)					
		Total	Hydro	Steam	Diesel & Wind	Gas	Nuclear
Utilities	31.3.93	72330.37	19575.94	46596.98	224.45	3928.00	2005.00
	31.3.92	69065.19	19194.31	44791.48	199.40	3095.00	1785.00
	% increase	4.73	1.99	4.03	12.56	26.91	12.32
<b>Non-Utilities</b>							
I. Selected Industries*	31.3.93	9904.51	4.30	5540.74	3728.66	630.81	0.00
	31.3.92	9168.18	4.30	5377.10	3291.06	495.72	0.00
	%increase	8.03	0.00	3.04	13.30	27.25	0.00
II. Railways	31.3.93	140.03	0.00	18.96	121.07	0.00	0.00
	31.3.92	133.23	0.00	18.96	114.27	0.00	0.00
	%increase	5.10	0.00	0.00	5.95	0.00	0.00
Total Non-Utilities (I & II)	31.3.93	10044.54	4.30	5559.70	3849.73	630.81	0.00
	31.3.92	9301.41	4.30	5396.06	3405.33	495.72	0.00
	% increase	7.99	0.00	3.03	13.05	27.25	0.00
All India Capacity (Utilities+ Non-Utilities)	31.3.93	82374.91	19580.24	52156.68	4074.18	4558.81	2005.00
	31.3.92	78366.60	19198.61	50187.54	3604.73	3590.72	1785.00
	% increase	5.11	1.99	3.92	13.02	26.96	12.32

\* Industries having captive plant capacity of 1.00 MW and above.

Table No.8

**ALL INDIA INSTALLED GENERATING CAPACITY (UTILITIES ONLY)  
OWNERSHIPWISE AND PRIMEMOVERWISE AS ON 31.3.1993**

S.NO.Type of Primemover and Ownership	Installed Plant Capacity		
	Total ( MW )	% of all India Total Capacity	% increase over previous year
<b>I. HYDRO</b>			
<b>PUBLIC SECTOR</b>			
a) State Electricity Boards	15131.51	20.92	0.55
b) Electricity Deptts./Govt. Undertakings/Corporations/ Central Govt. Sector	4150.43	5.74	7.25
c) Municipalities	0.00	0.00	0.00
Sub-Total Public Sector	19281.94	26.66	1.97
<b>Private Sector</b>			
d) Companies	294.00	0.41	6.52
Total (Hydro)	19575.94	27.07	1.99
<b>II. STEAM</b>			
<b>Public Sector</b>			
a) State Electricity Boards	26164.00	36.17	1.10
b) Electricity Deptts./Govt. Undertakings/Corporations/ Central Govt. Sector	17592.50	24.32	9.66
c) Municipalities	371.60	0.52	0.00
Sub-total Public Sector	44128.10	61.01	4.34
<b>Private Sector</b>			
Companies	2468.88	3.41	-1.38
Total (Steam)	46596.98	64.42	4.03
<b>III DIESEL &amp; WIND</b>			
<b>Public Sector</b>			
a) State Electricity Boards	119.19	0.17	23.77
b) Electricity Deptts./Govt. Undertakings/Corporations/ Central Govt. Sector	103.32	0.14	2.14
c) Municipalities	0.00	0.00	0.00
Sub-Total Public Sector	222.51	0.31	12.69
<b>Private Sector</b>			
d) Companies	1.94	(A)	0.00
Total (Diesel & Wind)	224.45	0.31	12.56

(A) Negligible

Table No. B (Contd.)

ALL INDIA INSTALLED GENERATING CAPACITY (UTILITIES ONLY)  
OWNERSHIPWISE AND PRIMEMOVERWISE AS ON 31.3.1993

S.NO.	Type of Primemover and Ownership	Installed Plant Capacity		
		Total (MW)	% of all India Total capacity	% increase over pre- vious year
IV	GAS			
	Public Sector			
a)	State Electricity Boards	1154.50	1.60	2.94
b)	Electricity Deptts./Govt. Undertakings/Corporations/ Central Govt. Sector	2454.50	3.39	48.35
c)	Municipalities	180.00	0.25	0.00
	Sub-Total Public Sector	3789.00	5.24	28.18
	Private Sector			
d)	Companies	139.00	0.19	0.00
	Total (Gas)	3928.00	5.43	26.91
V	NUCLEAR			
	Public Sector			
a)	State Electricity Boards	0.00	0.00	0.00
b)	Electricity Deptts./Govt. Undertakings/Corporations/ Central Govt. Sector	2005.00	2.77	12.32
c)	Municipalities	0.00	0.00	0.00
	Sub-total Public Sector	2005.00	2.77	12.32
	Private Sector			
	Companies	0.00	0.00	0.00
	Total (Nuclear)	2005.00	2.77	12.32
VI	GRAND TOTAL (I+II+III+IV+V)			
	Public Sector			
a)	State Electricity Boards (18 Nos.)	42569.20	58.86	1.01
b)	Electricity Deptts./Govt. Undertakings/Corporations/ Central Govt. Sector (32 Nos.)	26305.75	36.37	12.16
c)	Municipalities (10 Nos.)	551.60	0.76	0.00
	Sub-Total Public Sector (60 Nos.)	69426.55	95.99	4.95
	Private Sector			
d)	Companies (50 Nos.)	2903.82	4.01	(-) 0.41
	Total (All India) (110 Nos.)	72330.37	100.00	4.73

Note:-Figures within brackets shows number of undertakings.

TABLE NO.9

**INSTALLED GENERATING CAPACITY (UTILITIES ONLY)  
OWNERSHIPWISE/REGIONWISE/STATEWISE AS ON 31ST MARCH 1993**

Region	State/U.Ts.	TOTAL CAPACITY		
		31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	1780.32	1780.32	0.00
	Himachal Pradesh	272.34	272.34	0.00
	Jammu & Kashmir	262.07	262.07	0.00
	Punjab	3288.94	3498.94	6.39
	Rajasthan	1731.93	1732.58	0.04
	Uttar Pradesh	5179.24	5074.74	-2.02
	Chandigarh	2.00	2.00	0.00
	Delhi	551.60	551.60	0.00
	Central Sector	7267.00	8064.00	10.97
	Sub-Total	20335.44	21238.59	4.44
WESTERN REGION	Gujarat	4736.67	4891.47	3.27
	Madhya Pradesh	3382.59	3533.36	4.46
	Maharashtra	9206.72	9128.72	-0.85
	Goa	0.16	0.16	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	3916.00	4674.00	19.36
	Sub-Total	21242.14	22227.71	4.64
SOUTHERN REGION	Andhra Pradesh	4224.44	4226.44	0.05
	Karnataka	2986.20	3051.52	2.19
	Kerala	1476.50	1476.50	0.00
	Tamil Nadu	4310.53	4314.85	0.10
	Lakshadweep	5.12	5.12	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	4220.00	4430.00	4.98
	Sub-Total	17222.79	17504.43	1.64
EASTERN REGION	Bihar	1543.50	1548.45	0.32
	Orissa	1611.92	1741.92	8.06
	West Bengal	3135.39	3315.39	5.74
	D.V.C.	2031.50	2241.50	10.34
	A. & N. Islands	28.03	28.39	1.28
	Sikkim	21.59	29.59	37.05
	Central Sector	840.00	1340.00	59.52
	Sub-Total	9211.93	10245.24	11.22
NORTH EASTERN REGION	Assam	537.19	537.19	0.00
	Manipur	12.01	12.01	0.00
	Meghalaya	133.76	193.76	44.86
	Nagaland	6.82	6.82	0.00
	Tripura	53.36	53.36	0.00
	Arunachal Pradesh	32.31	33.81	4.64
	Mizoram	22.43	22.44	0.04
Central Sector	255.01	255.01	0.00	
	Sub-Total	1052.89	1114.40	5.84
	Total (All India)	69065.19	72330.37	4.73

Note:- Installed capacity of jointly owned projects have been shown divided between the partner states as per their theoretical shares.

TABLE NO.10

INSTALLED GENERATING CAPACITY (UTILITIES ONLY)  
OWNERSHIPWISE/REGIONWISE/STATEWISE AS ON 31ST MARCH 1993

		P U B L I C S E C T O R		
		STATE ELECTRICITY BOARDS		
Region	State/U.Ts.	31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	1780.32	1780.32	0.00
	Himachal Pradesh	272.34	272.34	0.00
	Jammu & Kashmir	262.07	262.07	0.00
	Punjab	3288.94	3498.94	6.39
	Rajasthan	1731.93	1732.58	0.04
	Uttar Pradesh	5179.24	5074.74	-2.02
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	12514.84	12620.99	0.85
WESTERN REGION	Gujarat	4172.48	4325.48	3.67
	Madhya Pradesh	3382.59	3533.36	4.46
	Maharashtra	7593.22	7515.22	-1.03
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	15148.29	15374.06	1.49
SOUTHERN REGION	Andhra Pradesh	3987.51	3989.51	0.05
	Karnataka	206.20	227.52	10.34
	Kerala	1476.50	1476.50	0.00
	Tamil Nadu	4310.53	4314.85	0.10
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	9980.74	10008.38	0.28
EASTERN REGION	Bihar	1543.50	1548.45	0.32
	Orissa	1137.50	1137.50	0.00
	West Bengal	1148.87	1148.87	0.00
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	3829.87	3834.82	0.13
NORTH EASTERN REGION	Assam	537.19	537.19	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	133.76	193.76	44.86
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	
	Sub-Total	670.95	730.95	8.94
	Total (All India)	42144.69	42569.20	1.01



TABLE NO.10  
 INSTALLED GENERATING CAPACITY (UTILITIES ONLY)  
 OWNERSHIPWISE/REGIONWISE/STATEWISE AS ON 31ST MARCH 1993  
 (IN MW)

PUBLIC SECTOR				
ELECTRICITY DEPTTS./ GOVT. UNDER - TAKINGS				
Region	State/U.Ts.	31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	2.00	2.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	7267.00	8064.00	10.97
	Sub-Total	7269.00	8066.00	10.96
WESTERN REGION	Gujarat	13.39	15.19	13.44
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Goa	0.16	0.16	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	3916.00	4674.00	19.36
	Sub-Total	3929.55	4689.35	19.34
SOUTHERN REGION	Andhra Pradesh	236.93	236.93	0.00
	Karnataka	2780.00	2806.00	0.94
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00
	Lakshadweep	5.12	5.12	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	4220.00	4430.00	4.98
	Sub-Total	7242.05	7478.05	3.26
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	474.42	604.42	27.40
	West Bengal	1235.00	1445.00	17.00
	D.V.C.	2031.50	2241.50	10.34
	A. & N. Islands	28.03	28.39	1.28
	Sikkim	21.59	29.59	37.05
	Central Sector	840.00	1340.00	59.52
	Sub-Total	4630.54	5688.90	22.86
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	12.01	12.01	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	6.82	6.82	0.00
	Tripura	53.36	53.36	0.00
	Arunachal Pradesh	32.31	33.81	4.64
	Mizoram	22.43	22.44	0.04
Central Sector	255.01	255.01	0.00	
	Sub-Total	381.94	383.45	0.40
	Total (All India)	23453.08	26305.75	12.16

TABLE NO.10(Contd.)

INSTALLED GENERATING CAPACITY (UTILITIES ONLY)  
OWNERSHIPWISE/REGIONWISE/STATEWISE AS ON 31ST MARCH 1993  
(IN MW)

		PUBLIC SECTOR		
		M U N I C I P A L I T I E S		
Region	State/U.Ts.	31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	551.60	551.60	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	551.60	551.60	0.00
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	
	Sub-Total	0.00	0.00	0.00
	Total (All India)	551.60	551.60	0.00

Contd.

TABLE NO.10(Contd.)

INSTALLED GENERATING CAPACITY (UTILITIES ONLY)  
OWNERSHIPWISE/REGIONWISE/STATEWISE AS ON 31ST MARCH 1993  
(IN MW)

		P R I V A T E S E C T O R		
Region	State/U.Ts.	31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
WESTERN REGION	Gujarat	550.80	550.80	0.00
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	1613.50	1613.50	0.00
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	2164.30	2164.30	0.00
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	18.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	18.00	0.00
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	751.52	721.52	(-)3.99
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	751.52	721.52	(-)3.99
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
	Total (All India)	2915.82	2903.82	(-)0.41

TABLE NO.11

INSTALLED GENERATING CAPACITY (UTILITIES ONLY)  
PRIMEMOVERWISE/ REGIONWISE/STATEWISE AS ON 31st MARCH 1993  
(IN MW)

		H Y D R O		
Region	State/U.Ts.	31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	883.90	883.90	0.00
	Himachal Pradesh	272.07	272.07	0.00
	Jammu & Kashmir	180.31	180.31	0.00
	Punjab	1798.94	1798.94	0.00
	Rajasthan	966.93	967.58	0.07
	Uttar Pradesh	1504.55	1504.55	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	645.00	760.00	17.83
	Sub-Total	6251.70	6367.35	1.85
WESTERN REGION	Gujarat	425.00	425.00	0.00
	Madhya Pradesh	725.09	725.86	0.11
	Maharashtra	1572.22	1584.22	0.76
	Goa	0.05	0.05	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	2722.36	2735.13	0.47
SOUTHERN REGION	Andhra Pradesh	2512.94	2514.94	0.08
	Karnataka	2356.20	2400.20	1.87
	Kerala	1476.50	1476.50	0.00
	Tamil Nadu	1944.95	1947.70	0.14
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	8290.59	8339.34	0.59
EASTERN REGION	Bihar	150.00	154.95	3.30
	Orissa	1141.92	1271.92	11.38
	West Bengal	46.51	46.51	0.00
	D.V.C.	144.00	144.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	18.89	26.89	42.35
	Central Sector	0.00	0.00	0.00
	Sub-Total	1501.32	1644.27	9.52
NORTH EASTERN REGION	Assam	2.00	2.00	0.00
	Manipur	2.60	2.60	0.00
	Meghalaya	126.71	186.71	47.35
	Nagaland	3.20	3.20	0.00
	Tripura	16.01	16.01	0.00
	Arunachal Pradesh	19.45	20.95	7.71
	Mizoram	3.36	3.37	0.30
Central Sector	255.01	255.01	0.00	
	Sub-Total	428.34	489.85	14.36
	Total (All India)	19194.31	19575.94	1.99

Contd.

TABLE No.11

INSTALLED GENERATING CAPACITY (UTILITIES ONLY)  
PRIMEOVERWISE/ REGIONWISE/STATEWISE AS ON 31st MARCH 1993  
(IN MW)

		S T E A M		
Region	State/U.Ts.	31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	892.50	892.50	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	1490.00	1700.00	14.09
	Rajasthan	765.00	765.00	0.00
	Uttar Pradesh	3668.50	3564.00	(-)2.85
	Chandigarh	0.00	0.00	0.00
	Delhi	371.60	371.60	0.00
	Central Sector	4400.00	4820.00	9.55
	Sub-Total	11587.60	12113.10	4.54
WESTERN REGION	Gujarat	4059.00	4179.00	2.96
	Madhya Pradesh	2657.50	2807.50	5.64
	Maharashtra	6962.50	6872.50	(-)1.29
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	3390.00	3390.00	0.00
	Sub-Total	17069.00	17249.00	1.05
SOUTHERN REGION	Andhra Pradesh	1612.50	1612.50	0.00
	Karnataka	630.00	630.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	2340.00	2340.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	3750.00	3960.00	5.60
	Sub-Total	8332.50	8542.50	2.52
EASTERN REGION	Bihar	1393.50	1393.50	0.00
	Orissa	470.00	470.00	0.00
	West Bengal	2966.38	3146.38	6.07
	D.V.C.	1797.50	2007.50	11.68
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	840.00	1340.00	59.52
	Sub-Total	7467.38	8357.38	11.92
NORTH EASTERN REGION	Assam	330.00	330.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	5.00	5.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	
	Sub-Total	335.00	335.00	0.00
	Total (All India)	44791.48	46596.98	4.03

Contd.

TABLE No.11 (Contd.)

(MW)

Region	State/U.Ts.	D I E S E L & W I N D		
		31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	3.92	3.92	0.00
	Himachal Pradesh	0.27	0.27	0.00
	Jammu & Kashmir	6.76	6.76	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	6.19	6.19	0.00
	Chandigarh	2.00	2.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	19.14	19.14	0.00
WESTERN REGION	Gujarat	**33.67	@35.47	5.35
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Goa	*0.11	*0.11	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
		Sub-Total	33.78	35.58
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	21.32	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	*15.58	*17.15	10.08
	Lakshadweep	5.12	5.12	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	20.70	43.59	110.58
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	22.50	22.50	0.00
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	28.03	28.39	1.28
	Sikkim	2.70	2.70	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	53.23	53.59	0.68
NORTH EASTERN REGION	Assam	20.69	20.69	0.00
	Manipur	9.41	9.41	0.00
	Meghalaya	2.05	2.05	0.00
	Nagaland	3.62	3.62	0.00
	Tripura	4.85	4.85	0.00
	Arunachal Pradesh	12.86	12.86	0.00
	Mizoram	19.07	19.07	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	72.55	72.55	0.00
	Total (All India)	199.40	224.45	12.56

\* Wind Mill generating capacity.

\*\* Includes 16.19 MW of wind mill generating capacity

@ Includes 17.99 MW of wind mill generating capacity.

Contd..

TABLE No.11 (Contd.)

(IN MW)

Region	State/U.Ts.	G A S		
		31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	75.00	75.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	180.00	180.00	0.00
Central Sector	1327.00	1589.00	19.74	
	Sub-Total	1582.00	1844.00	16.56
WESTERN REGION	Gujarat	219.00	252.00	15.07
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	672.00	672.00	0.00
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	106.00	644.00	507.55
	Sub-Total	997.00	1568.00	57.27
SOUTHERN REGION	Andhra Pradesh	99.00	99.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	10.00	10.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	
	Sub-Total	109.00	109.00	0.00
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	100.00	100.00	0.00
	D.V.C.	90.00	90.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	190.00	190.00	0.00
NORTH EASTERN REGION	Assam	184.50	184.50	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	32.50	32.50	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	
	Sub-Total	217.00	217.00	0.00
	Total (All India)	3095.00	3928.00	26.91

Contd.

TABLE No.11 (Contd.)

(IN MW)

		N U C L E A R		
Region	State/U.Ts.	31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	895.00	895.00	0.00
	Sub-Total	895.00	895.00	0.00
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	420.00	640.00	52.38
	Sub-Total	420.00	640.00	52.38
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	470.00	470.00	0.00
	Sub-Total	470.00	470.00	0.00
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
	Total (All India)	1785.00	2005.00	12.32



Table No.12

INSTALLED GENERATING CAPACITY OF STATE ELECTRICITY BOARDS  
PRIMEOVERWISE AS ON 31st MARCH, 1993.

(IN MW)

Region	BOARDS	H Y D R O		
		31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	883.90	883.90	0.00
	Himachal Pradesh	272.07	272.07	0.00
	Jammu & Kashmir	180.31	180.31	0.00
	Punjab	1798.94	1798.94	0.00
	Rajasthan	966.93	967.58	0.07
	Uttar Pradesh	1504.55	1504.55	0.00
	Sub-Total	5606.70	5607.35	0.01
WESTERN REGION	Gujarat	425.00	425.00	0.00
	Madhya Pradesh	725.09	725.86	0.11
	Maharashtra	1296.22	1308.22	0.93
	Sub-Total	2446.31	2459.08	0.52
SOUTHERN REGION	Andhra Pradesh	2375.01	2377.01	0.08
	Karnataka	206.20	206.20	0.00
	Kerala	1476.50	1476.50	0.00
	Tamil Nadu	1944.95	1947.70	0.14
	Sub-Total	6002.66	6007.41	0.08
EASTERN REGION	Bihar	150.00	154.95	3.30
	Orissa	667.50	667.50	0.00
	West Bengal	46.51	46.51	0.00
	Sub-Total	864.01	868.96	0.57
NORTH EASTERN REGION	Assam	2.00	2.00	0.00
	Meghalaya	126.71	186.71	47.35
	Sub-Total	128.71	188.71	46.62
	Total (All Boards)	15048.39	15131.51	0.55

Contd..

TABLE No.12 (Contd.)

INSTALLED GENERATING CAPACITY OF STATE ELECTRICITY BOARDS  
PRIMEOVERWISE 31st MARCH, 1993.

(IN MW)

		S T E A M		
REGION	BOARDS	31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	892.50	892.50	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	1490.00	1700.00	14.09
	Rajasthan	765.00	765.00	0.00
	Uttar Pradesh	3668.50	3564.00	(-) 2.85
	Sub-Total	6816.00	6921.50	1.55
WESTERN REGION	Gujarat	3609.00	3729.00	3.33
	Madhya Pradesh	2657.50	2807.50	5.64
	Maharashtra	5625.00	5535.00	(-) 1.60
	Sub-Total	11891.50	12071.50	1.51
SOUTHERN REGION	Andhra Pradesh	1612.50	1612.50	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	2340.00	2340.00	0.00
	Sub-Total	3952.50	3952.50	0.00
EASTERN REGION	Bihar	1393.50	1393.50	0.00
	Orissa	470.00	470.00	0.00
	West Bengal	1020.00	1020.00	0.00
	Sub-Total	2883.50	2883.50	0.00
NORTH EASTERN REGION	Assam	330.00	330.00	0.00
	Meghalaya	5.00	5.00	0.00
	Sub-Total	335.00	335.00	0.00
	Total (All Boards)	25878.50	26164.00	1.10

Contd..

TABLE No.12 (Contd.)

INSTALLED GENERATING CAPACITY OF STATE ELECTRICITY BOARDS  
PRIMEMOVERWISE AS ON 31st MARCH 1993.

REGION	BOARDS	D I E S E L & W I N D		
		31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	3.92	3.92	0.00
	Himachal Pradesh	0.27	0.27	0.00
	Jammu & Kashmir	6.76	6.76	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	6.19	6.19	0.00
	Sub-Total	17.14	17.14	0.00
WESTERN REGION	Gujarat	** 18.48	**18.48	0.00
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Sub-Total	18.48	18.48	0.00
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	21.32	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	* 15.58	*17.15	10.08
	Sub-Total	15.58	38.47	146.91
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	22.36	22.36	0.00
	Sub-Total	22.36	22.36	0.00
NORTH EASTERN REGION	Assam	20.69	20.69	0.00
	Meghalaya	2.05	2.05	0.00
	Sub-Total	22.74	22.74	0.00
	Total (All India)	96.30	119.19	23.77

\* Wind Mill generating capacity.

\*\* Includes 1.20 MW of Wind Mill generating capacity.

Contd.

TABLE No.12 (Contd.)

INSTALLED GENERATING CAPACITY OF STATE ELECTRICITY BOARDS  
PRIMEOVERWISE AS ON 31st MARCH, 1993  
(IN MW)

		G A S		
REGION	BOARDS	31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	75.00	75.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Sub-Total	75.00	75.00	0.00
WESTERN REGION	Gujarat	120.00	153.00	27.50
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	672.00	672.00	0.00
	Sub-Total	792.00	825.00	4.17
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	10.00	10.00	0.00
	Sub-Total	10.00	10.00	0.00
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	60.00	60.00	0.00
	Sub-Total	60.00	60.00	0.00
NORTH EASTERN REGION	Assam	184.50	184.50	0.00
	Meghalaya	0.00	0.00	0.00
	Sub-Total	184.50	184.50	0.00
	Total (All Boards)	1121.50	1154.50	2.94

Contd..

TABLE No.12 (Contd.)

INSTALLED GENERATING CAPACITY OF STATE ELECTRICITY BOARDS  
PRIMEOVERWISE AS ON 31ST MARCH, 1993.  
(IN MW)

REGION	BOARDS	T O T A L		
		31.3.92	31.3.93	% increase
NORTHERN REGION	Haryana	1780.32	1780.32	0.00
	Himachal Pradesh	272.34	272.34	0.00
	Jammu & Kashmir	262.07	262.07	0.00
	Punjab	3288.94	3498.94	6.39
	Rajasthan	1731.93	1732.58	0.04
	Uttar Pradesh	5179.24	5074.74	-2.02
	Sub-Total	12514.84	12620.99	0.85
WESTERN REGION	Gujarat	4172.48	4325.48	3.67
	Madhya Pradesh	3382.59	3533.36	4.46
	Maharashtra	7593.22	7515.22	-1.03
	Sub-Total	15148.29	15374.06	1.49
SOUTHERN REGION	Andhra Pradesh	3987.51	3989.51	0.05
	Karnataka	206.20	227.52	10.34
	Kerala	1476.50	1476.50	0.00
	Tamil Nadu	4310.53	4314.85	0.10
	Sub-Total	9980.74	10008.38	0.28
EASTERN REGION	Bihar	1543.50	1548.45	0.32
	Orissa	1137.50	1137.50	0.00
	West Bengal	1148.87	1148.87	0.00
	Sub-Total	3829.87	3834.82	0.13
NORTH EASTERN REGION	Assam	537.19	537.19	0.00
	Meghalaya	133.76	193.76	44.86
	Sub-Total	670.95	730.95	8.94
	Total (All Boards)	42144.69	42569.20	1.01

TABLE No.13

INSTALLED GENERATING CAPACITY OF ELECTRICITY DEPARTMENTS  
GOVT. UNDERTAKINGS, MUNICIPALITIES AND PRIVATE SECTOR  
PRIMEMOVERWISE/REGIONWISE AS 31.3.93  
(IN MW)

		T O T A L		
REGION	OWNERSHIP	31.3.92	31.3.93	% increase
ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR				
NORTHERN REGION	Chandigarh	2.00	2.00	0.00
	Central Sector	7267.00	8064.00	10.97
WESTERN REGION	Gujarat	13.39	15.19	13.44
	Goa	0.16	0.16	0.00
	Central Sector	3916.00	4674.00	19.36
SOUTHERN REGION	Andhra Pradesh	236.93	236.93	0.00
	Karnataka	2780.00	2806.00	0.94
	Lakshadweep	5.12	5.12	0.00
	Central Sector	4220.00	4430.00	4.98
EASTERN REGION	Orissa	474.42	604.42	27.40
	West Bengal	1235.00	1445.00	17.00
	Sikkim	21.59	29.59	37.05
	D.V.C.	2031.50	2241.50	10.34
	A. & N. Islands	28.03	28.39	1.28
	Central Sector	840.00	1340.00	59.52
NORTH EASTERN REGION	Manipur	12.01	12.01	0.00
	Nagaland	6.82	6.82	0.00
	Tripura	53.36	53.36	0.00
	Arunachal Pradesh	32.31	33.81	4.64
	Mizoram	22.43	22.44	0.04
	Central Sector	255.01	255.01	0.00
Total (I)		23453.08	26305.75	12.16
II. MUNICIPALITIES				
NORTHERN REGION	Delhi	551.60	551.60	0.00
Total (II)		551.60	551.60	0.00
III. PRIVATE LICENSEES				
WESTERN REGION	Gujarat	550.80	550.80	0.00
	Maharashtra	1613.50	1613.50	0.00
SOUTHERN REGION	Karnataka	0.00	18.00	0.00
EASTERN REGION	West Bengal	751.52	721.52	-3.99
Total (III)		2915.82	2903.82	-0.41

Contd.

TABLE No.13 (contd.)

INSTALLED GENERATING CAPACITY OF ELECTRICITY DEPARTMENTS  
GOVT. UNDERTAKINGS, MUNICIPALITIES AND PRIVATE SECTOR  
PRIMEWISER/REGIONWISE AS 31.3.93 (IN MW)

REGION	OWNERSHIP	H Y D R O		
		31.3.92	31.3.93	% increase
ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR				
NORTHERN REGION	Chandigarh Central Sector	0.00 645.00	0.00 760.00	0.00 17.83
WESTERN REGION	Gujarat Goa Central Sector	0.00 0.05 0.00	0.00 0.05 0.00	0.00 0.00 0.00
SOUTHERN REGION	Andhra Pradesh Karnataka Lakshadweep Central Sector	137.93 2150.00 0.00 0.00	137.93 2176.00 0.00 0.00	0.00 1.21 0.00 0.00
EASTERN REGION	Orissa West Bengal Sikkim D.V.C. A. & N. Islands Central Sector	474.42 0.00 18.89 144.00 0.00 0.00	604.42 0.00 26.89 144.00 0.00 0.00	27.40 0.00 42.35 0.00 0.00 0.00
NORTH EASTERN REGION	Manipur Nagaland Tripura Arunachal Pradesh Mizoram Central Sector	2.60 3.20 16.01 19.45 3.36 255.01	2.60 3.20 16.01 20.95 3.37 255.01	0.00 0.00 0.00 7.71 0.30 0.00
Total (I)		3869.92	4150.43	7.25
II. MUNICIPALITIES				
NORTHERN REGION	Delhi	0.00	0.00	0.00
Total (II)		0.00	0.00	0.00
III. PRIVATE LICENSEES				
WESTERN REGION	Gujarat Maharashtra	0.00 276.00	0.00 276.00	0.00 0.00
SOUTHERN REGION	Karnataka	0.00	18.00	0.00
EASTERN REGION	West Bengal	0.00	0.00	0.00
Total (III)		276.00	294.00	6.52

Contd.

TABLE No.13 (contd.)

INSTALLED GENERATING CAPACITY OF ELECTRICITY DEPARTMENTS  
GOVT. UNDERTAKINGS, MUNICIPALITIES AND PRIVATE SECTOR  
PRIMEWISE/REGIONWISE AS 31.3.93 (IN MW)

		S T E A M		
REGION	OWNERSHIP	31.3.92	31.3.93	% increase
<b>ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR</b>				
NORTHERN REGION	Chandigarh Central Sector	0.00 4400.00	0.00 4820.00	0.00 9.55
WESTERN REGION	Gujarat Goa Central Sector	0.00 0.00 3390.00	0.00 0.00 3390.00	0.00 0.00 0.00
SOUTHERN REGION	Andhra Pradesh Karnataka Lakshadweep Central Sector	0.00 630.00 0.00 3750.00	0.00 630.00 0.00 3960.00	0.00 0.00 0.00 5.60
EASTERN REGION	Orissa West Bengal Sikkim D.V.C. A. & N. Islands Central Sector	0.00 1235.00 0.00 1797.50 0.00 840.00	0.00 1445.00 0.00 2007.50 0.00 1340.00	0.00 17.00 0.00 11.68 0.00 59.52
NORTH EASTERN REGION	Manipur Nagaland Tripura Arunachal Pradesh Mizoram Central Sector	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
Total (I)		16042.50	17592.50	9.66
<b>II. MUNICIPALITIES</b>				
NORTHERN REGION	Delhi	371.60	371.60	0.00
Total (II)		371.60	371.60	0.00
<b>III. PRIVATE LICENSEES</b>				
WESTERN REGION	Gujarat Maharashtra	450.00 1337.50	450.00 1337.50	0.00 0.00
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	711.38	681.38	-4.22
Total (III)		2498.88	2468.88	-1.20

Contd.



TABLE No.13 (contd.)

INSTALLED GENERATING CAPACITY OF ELECTRICITY DEPARTMENTS  
GOVERNMENT UNDERTAKINGS, MUNICIPALITIES AND PRIVATE SECTOR  
PRIMEWISE/REGIONWISE AS ON 31.3.93

(IN MW)

		D I E S E L & W I N D		
REGION	OWNERSHIP	31.3.92	31.3.93	% increase
ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR				
NORTHERN REGION	Chandigarh	2.00	2.00	0.00
	Central Sector	0.00	0.00	0.00
WESTERN REGION	Gujarat	**13.39	**15.19	13.44
	Goa	**0.11	0.11	0.00
	Central Sector	0.00	0.00	0.00
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Lakshadweep	5.12	5.12	0.00
	Central Sector	0.00	0.00	0.00
EASTERN REGION	Orissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	Sikkim	2.70	2.70	0.00
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	28.03	28.39	1.28
	Central Sector	0.00	0.00	0.00
NORTH EASTERN REGION	Manipur	9.41	9.41	0.00
	Nagaland	3.62	3.62	0.00
	Tripura	4.85	4.85	0.00
	Arunachal Pradesh	12.86	12.86	0.00
	Mizoram	19.07	19.07	0.00
	Central Sector	0.00	0.00	0.00
Total (I)		101.16	103.32	2.14
II. MUNICIPALITIES				
NORTHERN REGION	Delhi	0.00	0.00	0.00
Total (II)		0.00	0.00	0.00
III. PRIVATE LICENSEES				
WESTERN REGION	Gujarat	*1.80	*1.80	0.00
	Maharashtra	0.00	0.00	0.00
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	0.14	0.14	0.00
Total (III)		1.94	1.94	0.00

Note :- \* Includes 1.60 MW wind mill capacity.  
\*\* Wind mill generating capacity.

Contd.

TABLE No.13 (contd.)

INSTALLED GENERATING CAPACITY OF ELECTRICITY DEPARTMENTS  
GOVT. UNDERTAKINGS, MUNICIPALITIES AND PRIVATE SECTOR  
PRIMEWISE/REGIONWISE AS 31.3.93

(IN MW)

REGION	OWNERSHIP	G A S		
		31.3.92	31.3.93	% increase
ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR				
NORTHERN REGION	Chandigarh	0.00	0.00	0.00
	Central Sector	1327.00	1589.00	19.74
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	Central Sector	106.00	644.00	507.55
SOUTHERN REGION	Andhra Pradesh	99.00	99.00	0.00
	Karnataka	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
EASTERN REGION	Orissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	D.V.C.	90.00	90.00	0.00
	A.& N. Islands	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
NORTH EASTERN REGION	Manipur	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	32.50	32.50	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
Total (I)		1654.50	2454.50	48.35
II. MUNICIPALITIES				
NORTHERN REGION	Delhi	180.00	180.00	0.00
Total (II)		180.00	180.00	0.00
III. PRIVATE LICENSEES				
WESTERN REGION	Gujarat	99.00	99.00	0.00
	Maharashtra	0.00	0.00	0.00
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	40.00	40.00	0.00
Total (III)		139.00	139.00	0.00

Contd.

TABLE No.13 (contd.)

INSTALLED GENERATING CAPACITY OF ELETRICITY DEPARTMENTS  
GOVT. UNDERTAKINGS, MUNICIPALITIES AND PRIVATE SECTOR  
PRIMEMOVERWISE/REGIONWISE AS 31.3.93 (IN MW)

REGION	OWNERSHIP	N U C L E A R		
		31.3.92	31.3.93	% increase
ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR				
NORTHERN REGION	Chandigarh	0.00	0.00	0.00
	Central Sector	895.00	895.00	0.00
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	Central Sector	420.00	640.00	52.38
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Central Sector	470.00	470.00	0.00
EASTERN REGION	Orissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
NORTH EASTERN REGION	Manipur	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	
Total (I)		1785.00	2005.00	12.32
II. MUNICIPALITIES				
NORTHERN REGION	Delhi	0.00	0.00	0.00
Total (II)		0.00	0.00	0.00
III. PRIVATE LICENSEES				
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	0.00	0.00	0.00
Total (III)		0.00	0.00	0.00

TABLE No.14

ADDITION IN GENERATING CAPACITY (UTILITIES ONLY)  
DURING THE YEAR 1992-93

S. No.	Installed at	State/UT/ Ownership	Date of addition	No. of sets	Capacity of each set (MW)	Total Capacity added(MW)
<b>A. H Y D R O</b>						
1.	Salal [Unit 1]	Jammu & Kashmir [N.H.P.C.] [Central Sector]	*31.3.93	1	115.00	115.00
2.	Ujjani [Unit 1]	Maharashtra S.E.B.	*31.3.93	1	12.00	12.00
3.	Varahi [Main Dam] [Unit 1&2]	Karnataka K.P.C.	23.3.93 13.3.92	2	4.50	9.00
4.	Bhatprabha [Unit 2]	Karnataka K.P.C.	16.12.92	1	16.00	16.00
5.	Shivpur [Unit 1&2]	Karnataka Bhoruka P.C.Ltd.	28.11.92 15.12.92	2	9.00	18.00
6.	Sone West Canal [Unit 1,2&4]	Bihar S.E.B.	18.1.93 6.3.93 *30.3.93	3	1.65	4.95
7.	Upper Kolab [Unit 4]	Drissa Govt. Deptt.	12.1.93	1	80.00	80.00
8.	Rengali [Unit 3]	Drissa Govt. Deptt.	14.8.92	1	50.00	50.00
9.	Upper Rognichu [Unit 1&2]	Sikkim Govt. Deptt.	* 5.3.93 21.11.92	2	2.00	4.00
10.	Mayongchu [Unit 1&2]	Sikkim Govt. Deptt.	* 10.2.93 * 2.2.93	2	2.00	4.00
11.	Umiam Umtru IV [Unit 1&2]	Meghalaya S.E.B.	16.9.92 11.8.92	2	30.00	60.00
<b>TOTAL (HYDRO)</b>				<b>18 Units</b>		<b>372.95</b>

Contd.

TABLE No.14 (Contd.)

**ADDITION IN GENERATING CAPACITY (UTILITIES ONLY)  
DURING THE YEAR 1992-93**

S. No.	Installed at	State/UT/ Ownership	Date of addition	No. of sets	Capacity of each set (MW)	Total Capacity added (MW)
<b>B. STEAM, GAS &amp; NUCLEAR</b>						
1.	Ropar {Unit 6 }	Punjab S.E.B.	30.3.93	1	210.00	210.00
2.	National Capital TPP {Unit 2&3}	Uttar Pradesh N.T.P.C. Central Sector	18.12.92 22.3.93	2	210.00	420.00
3.	CCGT Dadri {Unit 3 &4}	Uttar Pradesh (N.T.P.C.) Central Sector	**14.10.92 ** 31.3.93	2	131.00	262.00
4.	Utran GT {Unit 3}	Gujarat S.E.B.	** 31.3.93	1	33.00	33.00
5.	Sikka Extn. {Unit 2}	Gujarat S.E.B.	31.3.93	1	120.00	120.00
6.	Kawas CCGT {Unit 2,3&4}	Gujarat (N.T.P.C.) Central Sector	** 25.5.92 ** 30.6.92 ** 27.8.92	3	106.00	318.00
7.	Kawas ST {Unit 1&2}	Gujarat (N.T.P.C.) Central Sector	** 23.2.93 ** 19.3.93	2	110.00	220.00
8.	Kakkarpura {Unit 1}	Gujarat (N.P.C.I.) Central Sector	24.11.92	1	220.00	220.00
9.	Birsinghpur {Unit 1}	Madhya Pradesh S.E.B.	26.3.93	1	210.00	210.00
10.	Bangalore DG Set {Unit 6}	Karnataka S.E.B.	12.3.93	1	21.32	21.32
11.	Neyveli Stage-II {Unit 6}	Tamil Nadu (N.L.C.)	30.10.92	1	210.00	210.00
12.	Kolaghat Ext. {Unit-6}	Central Sector West Bengal (W.B.P.D.C.)	16.1.93	1	210.00	210.00
13.	Farrakka STPP {Unit-4}	West Bengal (N.T.P.C.) Central Sector	25.9.92	1	500.00	500.00
14.	Bokaro "B" Stage-II {Unit-3}	Bihar D.V.C.	31.3.93	1	210.00	210.00
<b>Total Thermal &amp; Nuclear</b>				<b>19 units</b>	<b>3164.32</b>	
<b>Total (Hydel+Thermal+Nuclear)</b>				<b>37 Units</b>	<b>3537.27</b>	

\* Unit Rolled                      \*\* Gas Turbine  
S.E.B. - State Electricity Board  
Note:-Excludes capacity addition in small Hydel/Thermal &  
Diesel Power Stations.

TABLE No.15

ADDITION/DELETION OF PLANT CAPACITY PRIME-MOVERWISE/  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93  
(M.W.)

Region	Name of State/U.Ts.	Hydro	Steam	Diesel & Wind
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	210.00	0.00
	Rajasthan	(A)0.65	0.00	0.00
	Uttar Pradesh	0.00	(H)-104.50	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	115.00	420.00	0.00
Sub-Total		115.65	525.50	0.00
WESTERN REGION	Gujarat	0.00	120.00	(L)1.80
	Madhya Pradesh	(B)0.77	(I)150.00	0.00
	Maharashtra	12.00	(J)-90.00	0.00
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total		12.77	180.00
SOUTHERN REGION	Andhra Pradesh	(C)2.00	0.00	0.00
	Karnataka	(D)44.00	0.00	21.32
	Kerala	0.00	0.00	0.00
	Tamil Nadu	(E)2.75	0.00	(M)1.57
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	210.00	0.00
Sub-Total		48.75	210.00	22.89
EASTERN REGION	Bihar	4.95	0.00	0.00
	Orissa	130.00	0.00	0.00
	West Bengal	0.00	(K)180.00	0.00
	D.V.C.	0.00	210.00	0.00
	A. & N. Islands	0.00	0.00	(N)0.36
	Sikkim	8.00	0.00	0.00
	Central Sector	0.00	500.00	0.00
Sub-Total		142.95	890.00	0.36
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	60.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	(F)1.50	0.00	0.00
	Mizoram	(G)0.01	0.00	0.00
	Central Sector	0.00	0.00	0.00
Sub-Total		61.51	0.00	0.00
Total (All India)		381.63	1805.50	25.05

Contd..

TABLE No.15 (Contd.)

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(M.W.)

Region	Name of State/U.Ts.	Gas	Nuclear	Total		
NORTHERN REGION	Haryana	0.00	0.00	0.00		
	Himachal Pradesh	0.00	0.00	0.00		
	Jammu & Kashmir	0.00	0.00	0.00		
	Punjab	0.00	0.00	210.00		
	Rajasthan	0.00	0.00	0.65		
	Uttar Pradesh	0.00	0.00	(-)104.50		
	Chandigarh	0.00	0.00	0.00		
	Delhi	0.00	0.00	0.00		
	Central Sector	262.00	0.00	797.00		
	Sub-Total	262.00	0.00	903.15		
WESTERN REGION	Gujarat	53.00	0.00	154.80		
	Madhya Pradesh	0.00	0.00	150.77		
	Maharashtra	0.00	0.00	(-)78.00		
	Goa	0.00	0.00	0.00		
	D. & N. Haveli	0.00	0.00	0.00		
	Daman & Diu	0.00	0.00	0.00		
	Central Sector	538.00	220.00	758.00		
	Sub-Total	571.00	220.00	985.57		
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	2.00		
	Karnataka	0.00	0.00	65.32		
	Kerala	0.00	0.00	0.00		
	Tamil Nadu	0.00	0.00	4.32		
	Lakshadweep	0.00	0.00	0.00		
	Pondicherry	0.00	0.00	0.00		
	Central Sector	0.00	0.00	210.00		
	Sub-Total	0.00	0.00	281.64		
EASTERN REGION	Bihar	0.00	0.00	4.95		
	Orissa	0.00	0.00	130.00		
	West Bengal	0.00	0.00	180.00		
	D.V.C.	0.00	0.00	210.00		
	A. & N. Islands	0.00	0.00	0.36		
	Sikkim	0.00	0.00	8.00		
	Central Sector	0.00	0.00	500.00		
	Sub-Total	0.00	0.00	1033.31		
NORTH EASTERN REGION	Assam	0.00	0.00	0.00		
	Manipur	0.00	0.00	0.00		
	Meghalaya	0.00	0.00	60.00		
	Nagaland	0.00	0.00	0.00		
	Tripura	0.00	0.00	0.00		
	Arunachal Pradesh	0.00	0.00	1.50		
	Mizoram	0.00	0.00	0.01		
Central Sector	0.00	0.00	0.00			
	Sub-Total	0.00	0.00	61.51		
	Total (All India)	833.00	220.00	3265.18		
	Total	Hydro	Steam	Diesel & Wind	Gas	Nuclear
Gross Addition	3549.68	381.63	2090.00	25.05	833.00	220.00
Deletion/Retirement	-284.50	-	-284.50	-	-	-
Reporting Difference/ Up-dating	-	-	-	-	-	-
Net Additions	3265.18	381.63	1805.50	25.05	833.00	220.00

TABLE No.15 (Contd.)

## Notes:-

- (A) Addition of 1 unit of 0.65 MW at Pugal Micro Hydel Power House.
- (B) Addition of one unit of 0.10 MW at Rudri Power House and two units of 0.335 MW at Morand Power House.
- (C) Addition of two units of 1.00 MW at Paleru Mini Hydel Power House.
- (D) Addition of two units of 4.50 MW at Varhi Power House, one unit of 16.00 MW at Ghatprabha Power House, two units of 9.00 MW at Shivpur Power House and one unit of 1.00 MW at Sirwar Mini Hydel Power House.
- (E) Addition of two units of 1.00 MW at Poonachi Mini Hydel Power House and one unit of 0.75 MW at Maravakandi Mini Hydel Power House.
- (F) Addition of three units of 0.50 MW at Sessa Nallah Small Hydel Power House.
- (G) Addition of 0.01 MW in Micro Hydel Power House.
- (H) Deletion of three units of 5.00 MW at Gorakhpur Power House, two units of 1.25 MW and three units of 4.00 MW at Banaras Power House and five units of 15.00 MW at KESA Power House.
- (I) Addition of one unit of 210.00 MW at Birginghpur Power House and deletion of two units of 30.00 MW at Korba I Power House.
- (J) Deletion of three units of 30.00 MW at Khaperkheda old Power House.
- (K) Addition of one unit of 210.00 MW at Kolaghat Ext. Power House and deletion of one Unit of 30.00 MW at Mulazore Power House.
- (L) Addition of 1.10 MW at Okha Wind Farm and 0.70 MW at Tuna Wind Farm.
- (M) Addition of 1.35 MW at Kayathar Wind Farm and 0.22 Along Road Side near Kayathar.
- (N) Addition of 0.36 MW at different Diesel Power Houses.



TABLE No. 16

CLASSIFICATION OF GENERATING UNDERTAKINGS-CAPACITYWISE  
AS ON 31.3.93

Range of installed capacity		No of undertakings	Aggregate installed capacity of the group (MW)	% to total installed capacity	Energy generated by the group (GWH)	% to total generation
Upto	1.00	4	0.51	0.00	0.00	0.00
Over Upto	1.00 & 2.00	2	3.60	0.00	2.01	0.00
Over upto	2.00 & 5.00	0	0.00	0.00	0.00	0.00
Over upto	5.00 & 10.00	3	20.32	0.03	44.96	0.02
Over upto	10.00 & 15.00	1	12.01	0.02	3.84	0.00
Over upto	15.00 & 25.00	4	73.63	0.10	124.47	0.04
Over upto	25.00 & 50.00	3	91.79	0.13	158.94	0.05
Over upto	50.00 & 100.00	3	224.36	0.31	818.26	0.27
Over upto	100.00 & 500.00	19	5458.44	7.55	19659.88	6.52
Over upto	500.00 & 1000.00	12	7742.79	10.70	32103.21	10.65
Over upto	1000.00 & 2000.00	11	15137.72	20.93	59656.67	19.80
Over upto	2000.00 & 3000.00	5	11313.10	15.64	56103.17	18.62
Over	3000.00	7	32252.10	44.59	132686.31	44.03
<b>Total</b>		<b>74</b>	<b>72330.37</b>	<b>100.00</b>	<b>301361.72</b>	<b>100.00</b>

TABLE NO 17

## CLASSIFICATION OF POWER STATIONS - CAPACITYWISE AS ON 31.3.1993

Range of Installed Capacity		No. of Generating stations	Installed capacity group total (MW)	% of Total Capacity
<b>H Y D R O   S T A T I O N S</b>				
	Upto 100 KW	20	1.10	0.01
Over	100 KW upto 1.00 MW	66	33.62	0.17
Over	1.00 MW upto 2.00 MW	25	41.67	0.21
Over	2.00 MW upto 5.00 MW	20	71.95	0.37
Over	5.00 MW upto 10.00 MW	13	109.30	0.56
Over	10.00 MW upto 15.00 MW	8	107.20	0.55
Over	15.00 MW upto 25.00 MW	17	332.05	1.70
Over	25.00 MW upto 50.00 MW	33	1202.85	6.14
Over	50.00 MW upto 100.00 MW	37	2700.45	13.79
Over	100.00 MW upto 500.00 MW	42	8934.75	45.64
Over	500.00 MW upto 1000.00 MW	8	6041.00	30.86
Over	1000.00 MW upto 2000.00 MW	0	0.00	0.00
Over	2000.00 MW	0	0.00	0.00
TOTAL		289	19575.94	100.00
<b>S T E A M   S T A T I O N S</b>				
	Upto 100 KW	0	0.00	0.00
Over	100 KW upto 1.00 MW	0	0.00	0.00
Over	1.00 MW upto 2.00 MW	0	0.00	0.00
Over	2.00 MW upto 5.00 MW	1	5.00	0.01
Over	5.00 MW upto 10.00 MW	2	18.38	0.04
Over	10.00 MW upto 15.00 MW	1	13.50	0.03
Over	15.00 MW upto 25.00 MW	1	18.00	0.04
Over	25.00 MW upto 50.00 MW	6	201.60	0.43
Over	50.00 MW upto 100.00 MW	7	491.50	1.05
Over	100.00 MW upto 500.00 MW	52	14215.00	30.51
Over	500.00 MW upto 1000.00 MW	27	19734.00	42.35
Over	1000.00 MW upto 2000.00 MW	4	5620.00	12.06
Over	2000.00 MW	3	6280.00	13.48
TOTAL		104	46596.98	100.00

TABLE NO 17 (Contd.)

Range of Installed Station Capacity		Energy Gene- rated by the group (GWH)	Generation % age of total	KWH/KW §
H Y D R O S T A T I O N S				
	Upto 100 KW	0.19	0.00	173
Over	100 KW upto 1.00 MW	19.82	0.03	590
Over	1.00 MW upto 2.00 MW	70.67	0.10	1696
Over	2.00 MW upto 5.00 MW	87.05	0.12	1210
Over	5.00 MW upto 10.00 MW	211.34	0.30	1934
Over	10.00 MW upto 15.00 MW	220.98	0.32	2061
Over	15.00 MW upto 25.00 MW	890.64	1.27	2682
Over	25.00 MW upto 50.00 MW	5315.02	7.61	4419
Over	50.00 MW upto 100.00 MW	9616.83	13.76	3561
Over	100.00 MW upto 500.00 MW	28832.11	41.27	3227
Over	500.00 MW upto 1000.00 MW	24604.60	35.22	4073
Over	1000.00 MW upto 2000.00 MW	0.00	0.00	0
Over	2000.00 MW	0.00	0.00	0
TOTAL		69869.25	100.00	3569
S T E A M S T A T I O N S				
	Upto 100 KW	0.00	0.00	0
Over	100 KW upto 1.00 MW	0.00	0.00	0
Over	1.00 MW upto 2.00 MW	0.00	0.00	0
Over	2.00 MW upto 5.00 MW	0.00	0.00	0
Over	5.00 MW upto 10.00 MW	30.68	0.01	1669
Over	10.00 MW upto 15.00 MW	3.90	0.00	289
Over	15.00 MW upto 25.00 MW	88.17	0.04	4898
Over	25.00 MW upto 50.00 MW	706.99	0.34	3507
Over	50.00 MW upto 100.00 MW	1141.03	0.54	2322
Over	100.00 MW upto 500.00 MW	48342.86	22.90	3401
Over	500.00 MW upto 1000.00 MW	98139.27	46.49	4973
Over	1000.00 MW upto 2000.00 MW	23672.71	11.21	4212
Over	2000.00 MW	38997.92	18.47	6210
TOTAL		211123.53	100.00	4531

§ The figures given under this table indicate the generation in Kwh during the year per KW of installed capacity at the end of the year.

TABLE NO 18

CLASSIFICATION OF GENERATING SETS-PRIMEMOVERWISE/  
CAPACITYWISE AS ON 31.3.1993

Range of installed capacity of sets (MW)		H Y D R O			S T E A M		
		No. of sets	Installed capacity (MW)	% to Total	No. of sets	Installed capacity (MW)	% to Total
Upto	100 KW	96	6.79	0.04	0	0.00	0.00
Over Upto	100 KW & 1 MW	185	73.80	0.38	0	0.00	0.00
Over Upto	1 MW & 2 MW	33	46.30	0.23	7	10.88	0.02
Over Upto	2 MW & 5 MW	63	216.45	1.10	15	56.00	0.12
Over Upto	5 MW & 10 MW	80	628.70	3.22	3	27.50	0.06
Over Upto	10 MW & 20 MW	106	1602.15	8.18	9	225.50	0.49
Over Upto	20 MW & 30 MW	53	1345.25	6.88	26	780.00	1.68
Over Upto	30 MW & 50 MW	83	3440.50	17.56	26	1310.60	2.81
Over Upto	50 MW & 100 MW	86	6079.00	31.06	62	4786.50	10.27
Over Upto	100 MW & 200 MW	51	6137.00	31.35	81	10480.00	22.49
Above	200 MW	0	0.00	0.00	117	28920.00	62.06
TOTAL		836	19575.94	100.00	346	46596.98	100.00

TABLE No.18 (Contd.)

**CLASSIFICATION OF GENERATING SETS-PRIMEOVERWISE/  
CAPACITYWISE AS ON 31.3.1993**

Range of installed capacity of sets (MW)		G A S			N U C L E A R		
		No. of sets	Installed capacity (MW)	% to Total	No. of sets	Installed capacity (MW)	% to Total
Upto	1 MW	0	0.00	0.00	0	0.00	0.00
Over Upto	1 MW & 5 MW	9	31.00	0.79	0	0.00	0.00
Over Upto	5 MW & 10 MW	5	32.50	0.83	0	0.00	0.00
Over Upto	10 MW & 20 MW	10	172.50	4.39	0	0.00	0.00
Over Upto	20 MW & 30 MW	18	490.00	12.48	0	0.00	0.00
Over Upto	30 MW & 50 MW	5	165.00	4.20	0	0.00	0.00
Over Upto	50 MW & 100 MW	11	636.00	16.19	0	0.00	0.00
Over Upto	100 MW & 200 MW	15	1657.00	42.18	0	0.00	0.00
Above	200 MW	6	744.00	18.94	9	2005.00	100.00
TOTAL		79	3928.00	100.00	9	2005.00	100.00

Note:-Setwise classification of diesel power houses not given due to non-availability of setwise details in certain cases. However, they account for 224.45 MW of total installed capacity, including 35.25 MW of windmill capacity.

## **SECTION III**

### **Generation (Utilities)**

SECTION III  
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GENERATION (UTILITIES)  
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The all India gross electricity generation by the Public Utilities was 301361.72 GWH during the year 1992-93 as compared to 287028.58 GWH during 1991-92 thereby registering an increase of 4.99%.

Electricity generation from steam generating stations continued to form the major proportion of total electricity production. The relative percentage of generation from Steam, Hydro, Gas, Nuclear, and Diesel Power Stations were 70.06%, 23.19%, 4.47%, 2.23% and 0.5% respectively during the year 1992-93.

There were 104 steam stations and 289 hydro stations existing in the country as on 31st March, 1993 generating 211123.53 GWH and 69869.25 GWH respectively. Bhakra Beas Management Board complex the biggest of all the systems registered the maximum electricity production of 12468.24 GWH during the year.

Besides electricity generation by the Public Utilities, during the year under review captive plants of selected industries produced 31327.75 GWH comprising 24679.89 GWH from Steam, 16.54 GWH from Hydro, 3828.01 GWH from diesel and 2803.31 GWH from Gas turbine plants respectively. Apart from the above, electricity generation from captive plants of Railways was 23.76 GWH which comprised 2.00 GWH from steam and 21.76 GWH from diesel plants.

To sum up, total electricity production in the country including those from captive plants during the year 1992-93 was 332713.23 GWH as compared to 315631.07 GWH during the year 1991-92 recording an increase of 5.41%.

The tables in this Section depict the salient features of electricity generation in various sectors and by different types of primemovers, etc.

TABLE NO.19

GROSS ENERGY GENERATION IN THE COUNTRY (UTILITIES & NON-UTILITIES)  
PRIMEMOVERWISE DURING THE YEAR 1992-93

(GWH)

Category	Year	Gross Energy Generation (GWH)					
		Total	Hydro	Steam	Diesel & Wind	Gas	Nuclear
<b>Utilities</b>							
	1992-93	301361.72	69869.25	211123.53	162.39	13480.26	6726.29
	1991-92	287028.58	72757.09	197163.10	134.04	11449.95	5524.40
	% increase	4.99	-3.97	7.08	21.15	17.73	21.76
<b>Non-Utilities</b>							
<b>I. Selected Industries*</b>							
	1992-93	31327.75	16.54	24679.89	3828.01	2803.31	0.00
	1991-92	28579.97	17.57	23409.35	3247.81	1905.24	0.00
	% increase	9.61	-5.86	5.43	17.86	47.14	0.00
<b>II. Railways</b>							
	1992-93	23.76	0.00	2.00	21.76	0.00	0.00
	1991-92	22.52	0.00	3.47	19.05	0.00	0.00
	% increase	5.51	0.00	-42.36	14.23	0.00	0.00
<b>Total Non-Utilities (I &amp; II)</b>							
	1992-93	31351.51	16.54	24681.89	3849.77	2803.31	0.00
	1991-92	28602.49	17.57	23412.82	3266.86	1905.24	0.00
	% increase	9.61	-5.86	5.42	17.84	47.14	0.00
<b>All India Gross Generation (Utilities + Non-Utilities)</b>							
	1992-93	332713.23	69885.79	235805.42	4012.16	16283.57	6726.29
	1991-92	315631.07	72774.66	220575.92	3400.90	13355.19	5524.40
	% increase	5.41	-3.97	6.90	17.97	21.93	21.76

\* Industries having captive plant capacity of 1.00 MW and above.



TABLE No.20

**ALL INDIA ELECTRICITY GENERATION (UTILITIES ONLY)  
OWNERSHIPWISE AND PRIMEMOVERWISE DURING 1992-93**

Sl.No.	Type of primemover and Ownership	Generation (Gross) (GWH)	% to all India Total	% increase in generation over the previous year
I.	<b>H Y D R O</b>			
	Public Sector:			
a)	State Electricity Boards	52158.00	17.31	-3.07
b)	Elecy. Deptts./Govt. Undertakings/Corporations/ Central Sector	16490.95	5.47	-4.75
c)	Municipalities	0.00	0.00	0.00
	Sub-Total	68648.95	22.78	-3.48
	Private Sector:			
d)	Companies	1220.30	0.41	-24.40
	Total (Hydro)	69869.25	23.19	-3.97
II.	<b>S T E A M</b>			
	Public Sector:			
a)	State Electricity Boards	113770.99	37.76	9.62
b)	Elecy. Deptts./Govt. Undertakings/Corporations/ Central Sector	83755.06	27.79	4.82
c)	Municipalities	1630.02	0.54	-6.82
	Sub-Total	199156.07	66.09	7.40
	Private Sector			
d)	Companies	11967.46	3.97	2.09
	Total (Steam)	211123.53	70.06	7.08
III.	<b>D I E S E L &amp; W I N D</b>			
	Public Sector:			
a)	State Electricity Boards	31.06	0.01	27.66
b)	Elecy. Deptts./Govt. Undertakings/Corporations/ Central Sector	129.31	0.04	20.84
c)	Municipalities	0.00	0.00	0.00
	Sub-Total	160.37	0.05	22.10
	Private Sector			
d)	Companies	2.02	0.00	-25.18
	Total (Diesel & Wind)	162.39	0.05	21.15

TABLE No.20 (Contd.)

ALL INDIA ELECTRICITY GENERATION (UTILITIES ONLY)  
OWNERSHIPWISE AND PRIMEMOVERWISE DURING 1992-93

Sl.No.	Type of primemover and Ownership	Generation (Gross) (GWH)	% to all India Total	% increase in generation over the previous year
IV.	G A S			
	Public Sector:			
a)	State Electricity Boards	3250.79	1.08	-12.37
b)	Elec. Deptts./Govt. Undertakings/Corporations/ Central Sector	8790.89	2.92	30.75
c)	Municipalities	802.35	0.26	21.20
	Sub-Total	12844.03	4.26	15.77
	Private Sector:			
d)	Companies	636.23	0.21	79.12
	Total (Gas)	13480.26	4.47	17.73
V.	N U C L E A R			
	Public Sector:			
a)	State Electricity Boards	0.00	0.00	0.00
b)	Elec. Deptts./Govt. Undertakings/Corporations/ Central Sector	6726.29	2.23	21.76
c)	Municipalities	0.00	0.00	0.00
	Sub-Total	6726.29	2.23	21.76
	Private Sector			
d)	Companies	0.00	0.00	0.00
	Total (Nuclear)	6726.29	2.23	21.76
VI.	GRAND TOTAL (I TO V)			
	Public Sector:			
a)	State Electricity Boards (18 Nos.)	169210.84	56.15	4.89
b)	Elec. Deptts./Govt. Undertakings/Corporations/ Central Sector (32 Nos.)	115892.50	38.45	5.77
c)	Municipalities (10 Nos.)	2432.37	0.81	0.87
	Sub-Total (60 Nos.)	287535.71	95.41	5.20
	Private Sector			
d)	Companies (50 Nos.)	13826.01	4.59	0.80
	Total All India (110 Nos.)	301361.72	100.00	4.99

Notes:-Figures within brackets show Nos. of undertakings.

TABLE NO.21

ALL INDIA GROSS ENERGY GENERATION (UTILITIES ONLY)  
REGIONWISE/STATEWISE DURING 1992-93 (GWH)

		E N E R G Y G E N E R A T I O N		
Region	State/U.Ts.	1991-92	1992-93	% increase
NORTHERN REGION	Haryana	7765.48	7972.73	2.67
	Himachal Pradesh	1050.38	1087.40	3.52
	Jammu & Kashmir	878.00	800.97	-8.77
	Punjab	14676.68	15717.88	7.09
	Rajasthan	8130.19	8591.85	5.68
	Uttar Pradesh	18741.71	18167.12	-3.07
	Chandigarh	0.00	0.00	0.00
	Delhi	2411.35	2432.37	0.87
	Central Sector	35650.28	39614.18	11.12
	Sub-Total	89304.07	94384.50	5.69
WESTERN REGION	Gujarat	20800.76	23044.70	10.79
	Madhya Pradesh	12524.52	13259.58	5.87
	Maharashtra	39200.09	38607.31	-1.51
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	21670.18	22841.91	5.41
	Sub-Total	94195.55	97753.50	3.78
SOUTHERN REGION	Andhra Pradesh	18654.68	18370.78	-1.52
	Karnataka	12906.96	12758.46	-1.15
	Kerala	5325.78	6192.74	16.28
	Tamil Nadu	13832.97	16958.38	22.59
	Lakshadweep	10.64	11.50	8.08
	Pondicherry	0.00	0.00	0.00
	Central Sector	21444.45	22681.04	5.81
	Sub-Total	72175.48	76982.90	6.66
EASTERN REGION	Bihar	2592.30	2967.10	14.46
	Orissa	6313.81	5422.69	-14.11
	West Bengal	10582.66	11699.67	10.56
	D.V.C.	5330.37	5195.41	-2.53
	A. & N. Islands	51.79	62.22	20.14
	Sikkim	38.19	42.72	11.86
	Central Sector	3361.00	3692.72	9.87
	Sub-Total	28270.12	29082.53	2.87
NORTH EASTERN REGION	Assam	1079.57	1068.28	-1.05
	Manipur	2.83	3.84	35.69
	Meghalaya	421.09	430.14	2.15
	Nagaland	9.01	3.50	-61.15
	Tripura	138.99	176.09	26.69
	Arunachal Pradesh	51.72	54.00	4.41
	Mizoram	12.74	19.29	51.41
	Central Sector	1367.41	1403.15	2.61
	Sub-Total	3083.36	3158.29	2.43
	Total (All India)	287028.58	301361.72	4.99

NOTE:- Generation of jointly owned projects have been shown divided between the partner States as per their theoretical shares.

TABLE NO.22

GROSS ENERGY GENERATION (UTILITIES ONLY) OWNERSHIPWISE,  
REGIONWISE/STATEWISE DURING 1992-93 (GWH)

		P U B L I C S E C T O R		
		S T A T E E L E C T R I C I T Y B O A R D S		
Region	State/U.Ts.	1991-92	1992-93	% increase
NORTHERN REGION	Haryana	7765.48	7972.73	2.67
	Himachal Pradesh	1050.38	1087.40	3.52
	Jammu & Kashmir	878.00	800.97	-8.77
	Punjab	14676.68	15717.88	7.09
	Rajasthan	8130.19	8591.85	5.68
	Uttar Pradesh	18182.71	18167.12	-0.09
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	50683.44	52337.95	3.26
WESTERN REGION	Gujarat	18120.13	20303.50	12.05
	Madhya Pradesh	12524.52	13259.58	5.87
	Maharashtra	31373.39	31062.42	-0.99
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	62018.04	64625.50	4.20
SOUTHERN REGION	Andhra Pradesh	17563.32	17217.43	-1.97
	Karnataka	707.43	803.59	13.59
	Kerala	5325.78	6192.74	16.28
	Tamil Nadu	13832.97	16958.38	22.59
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	37429.50	41172.14	10.00
EASTERN REGION	Bihar	2592.30	2967.10	14.46
	Orissa	4252.34	3739.29	-12.07
	West Bengal	2853.01	2870.44	0.61
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	9697.65	9576.83	-1.25
NORTH EASTERN REGION	Assam	1079.97	1068.28	-1.05
	Manipur	0.00	0.00	0.00
	Meghalaya	421.09	430.14	2.15
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	1500.66	1498.42	-0.15
	Total (All India)	161329.29	169210.84	4.89

Contd.

TABLE NO.22 (Contd.)

GROSS ENERGY GENERATION (UTILITIES ONLY) OWNERSHIPWISE,  
REGIONWISE/STATEWISE DURING 1992-93 (GWH)

		P U B L I C S E C T O R		
		Elec'y.Deptts./Govt. Undertakings/ Corporations/Central Sector		
Region	State/U.Ts.	1991-92	1992-93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	559.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	35650.28	39614.18	11.12
	Sub-Total	36209.28	39614.18	9.40
WESTERN REGION	Gujarat	12.44	17.01	36.74
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	21670.18	22841.91	5.41
	Sub-Total	21682.62	22858.92	5.43
SOUTHERN REGION	Andhra Pradesh	1091.36	1153.35	5.68
	Karnataka	12199.53	11954.87	2.01
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00
	Lakshadweep	10.64	11.50	8.08
	Pondicherry	0.00	0.00	0.00
	Central Sector	21444.45	22691.04	5.81
	Sub-Total	34745.98	35810.76	3.06
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	2061.47	1683.40	-18.34
	West Bengal	4508.00	5272.30	16.95
	D.V.C.	5330.37	5195.41	-2.53
	A. & N. Islands	51.79	62.22	20.14
	Sikkim	38.19	42.72	11.86
	Central Sector	3361.00	3692.72	9.87
	Sub-Total	15350.82	15948.77	3.90
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	2.83	3.84	35.69
	Meghalaya	0.00	0.00	0.00
	Nagaland	9.01	3.50	-61.15
	Tripura	138.99	176.09	26.69
	Arunachal Pradesh	51.72	54.00	4.41
	Mizoram	12.74	19.29	51.41
	Central Sector	1367.41	1403.15	2.61
	Sub-Total	1582.70	1659.87	4.88
	Total (All India)	109571.40	115892.50	5.77

Contd.

TABLE NO.22 (Contd.)  
GROSS ENERGY GENERATION (UTILITIES ONLY) OWNERSHIPWISE,  
REGIONWISE/STATEWISE DURING 1992-93 (GWH)

		P U B L I C S E C T O R		
		M U N I C I P A L I T I E S		
Region	State/U.Ts.	1991-92	1992-93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	2411.35	2432.37	0.87
	Central Sector	0.00	0.00	0.00
	Sub-Total	2411.35	2432.37	0.87
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
	Total (All India)	2411.35	2432.37	0.87

Contd.

TABLE NO.22 (Contd.)  
GROSS ENERGY GENERATION (UTILITIES ONLY) OWNERSHIPWISE,  
REGIONWISE/STATEWISE DURING 1992-93 (GWH)

		P R I V A T E S E C T O R		
		C O M P A N I E S		
Region	State/U.Ts.	1991-92	1992-93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
WESTERN REGION	Gujarat	2668.19	2724.19	2.10
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	7826.70	7544.89	-3.60
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	10494.89	10269.08	-2.15
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	3221.65	3556.93	10.41
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	3221.65	3556.93	10.41
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	
	Sub-Total	0.00	0.00	0.00
	Total (All India)	13716.54	13826.01	0.80

NOTE:-Generation of jointly owned projects have been shown divided between the partner States as per their theoretical shares.

TABLE NO.23  
GROSS ENERGY GENERATION (UTILITIES ONLY) PRIMEOVERWISE,  
REGIONWISE/STATEWISE DURING 1992-93 (BWH)

		H Y D R O		
Region	State/U.Ts.	1991-92	1992-93	% increase
NORTHERN REGION	Haryana	4197.36	4081.00	-2.77
	Himachal Pradesh	1050.37	1087.39	3.52
	Jammu & Kashmir	793.00	765.60	-3.46
	Punjab	8742.32	8612.85	-1.48
	Rajasthan	3845.99	3658.69	-4.87
	Uttar Pradesh	5556.00	4150.60	-25.30
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	3023.00	3093.48	2.33
	Sub-Total	27208.04	25449.61	-6.46
WESTERN REGION	Gujarat	833.48	659.43	-20.88
	Madhya Pradesh	1498.81	1511.91	0.87
	Maharashtra	5822.71	5102.98	-12.36
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	8155.00	7274.32	-10.82
SOUTHERN REGION	Andhra Pradesh	9571.51	8839.49	-7.65
	Karnataka	10321.25	10026.83	-2.85
	Kerala	5325.78	6192.74	16.28
	Tamil Nadu	4409.56	5636.26	27.82
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	29628.10	30695.32	3.60
EASTERN REGION	Bihar	242.80	135.00	-44.40
	Orissa	5105.85	4032.58	-21.02
	West Bengal	116.90	97.79	-16.35
	D.V.C.	371.07	216.78	-41.58
	A.& N. Islands	0.00	0.00	0.00
	Sikkim	36.96	41.38	11.96
	Central Sector	0.00	0.00	0.00
	Sub-Total	5873.58	4523.53	-22.99
NORTH EASTERN REGION	Assam	0.03	0.00	0.00
	Manipur	0.14	0.23	64.29
	Meghalaya	421.09	430.14	2.15
	Nagaland	8.97	3.50	-60.98
	Tripura	56.43	47.79	-15.31
	Arunachal Pradesh	37.38	39.52	5.72
	Mizoram	0.92	2.14	132.61
	Central Sector	1367.41	1403.15	2.61
	Sub-Total	1892.37	1926.47	1.80
	Total (All India)	72757.09	69869.25	-3.97

NOTE:-Generation of jointly owned projects have been shown divided between the partner States as per their theoretical shares.



TABLE NO.23(Contd.)  
GROSS ENERGY GENERATION (UTILITIES ONLY) PRIMEMOVERWISE,  
REGIONWISE/STATEWISE DURING 1992-93 (GWH)

Region	State/U.Ts.	S T E A M		
		1991-92	1992-93	% increase
NORTHERN REGION	Haryana	3568.12	3891.73	9.07
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	5934.36	7105.03	19.73
	Rajasthan	4284.20	4933.16	15.15
	Uttar Pradesh	13185.71	14016.52	6.30
	Chandigarh	0.00	0.00	0.00
	Delhi	1749.35	1630.02	-6.82
	Central Sector	24731.09	27022.88	9.27
	Sub-Total	53452.83	58599.34	9.63
WESTERN REGION	Gujarat	19368.62	21513.13	11.07
	Madhya Pradesh	11025.71	11747.67	6.55
	Maharashtra	30457.64	30884.48	1.40
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	19960.00	19404.19	-2.78
	Sub-Total	80811.97	83549.47	3.39
SOUTHERN REGION	Andhra Pradesh	8726.17	9114.28	4.45
	Karnataka	2585.71	2731.63	5.64
	Kerala	0.00	0.00	0.00
	Tamil Nadu	9398.28	11264.65	19.86
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	19284.29	20713.04	7.41
	Sub-Total	39994.45	43823.60	9.57
EASTERN REGION	Bihar	2349.50	2832.10	20.54
	Orissa	1207.96	1390.11	15.08
	West Bengal	10434.84	11565.08	10.83
	D.V.C.	4915.69	4918.30	0.05
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	3361.00	3692.72	9.87
	Sub-Total	22268.99	24398.31	9.56
NORTH EASTERN REGION	Assam	634.86	752.81	18.58
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	
	Sub-Total	634.86	752.81	18.58
	Total (All India)	197163.10	211123.53	7.08

Contd.

TABLE NO.23(Contd.)  
GROSS ENERGY GENERATION (UTILITIES ONLY) PRIMEMOVERWISE,  
REGIONWISE/STATEWISE DURING 1992-93 (GWH)

		D I E S E L & W I N D		
Region	State/U.Ts.	1991-92	1992-93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.01	0.01	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.01	0.01	0.00
WESTERN REGION	Gujarat	*15.49	**20.64	33.25
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	15.49	20.64	33.25
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	23.60	29.16	23.56
	Lakshadweep	10.64	11.50	8.08
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	34.24	40.66	18.75
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	0.37	0.28	-24.32
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	51.79	62.22	20.14
	Sikkim	1.23	1.34	8.94
	Central Sector	0.00	0.00	0.00
	Sub-Total	53.39	63.84	19.57
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	2.69	3.61	34.20
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.04	0.00	0.00
	Tripura	2.02	2.00	-0.99
	Arunachal Pradesh	14.34	14.48	0.98
	Mizoram	11.82	17.15	45.09
	Central Sector	0.00	0.00	0.00
	Sub-Total	30.91	37.24	20.48
	Total (All India)	134.04	162.39	21.15

\*-Includes 14.99 GWH from windmill.  
\*\*-Includes 20.24 GWH from windmill.  
@- Wind mill generation.

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TABLE NO.23(Contd.)  
GROSS ENERGY GENERATION (UTILITIES ONLY) PRIMEMOVERWISE,  
REGIONWISE/STATEWISE DURING 1992-93 (BWH)

		G A S		
Region	State/U.Ts.	1991-92	1992-93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.01	0.01	0.00
	Jammu & Kashmir	35.37	35.37	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	662.00	802.33	21.20
	Central Sector	6241.95	6726.33	7.76
	Sub-Total	6988.95	7564.05	8.23
WESTERN REGION	Gujarat	583.17	851.50	46.01
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	2919.74	2619.85	-10.27
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	0.18	1460.92	8016.22
	Sub-Total	3503.09	4932.27	40.80
SOUTHERN REGION	Andhra Pradesh	337.00	417.01	16.81
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	1.53	28.31	85.03
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	338.53	445.32	24.21
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	30.55	36.52	19.54
	D.V.C.	43.61	60.33	38.34
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	74.16	96.85	30.60
NORTH EASTERN REGION	Assam	444.68	315.47	-29.06
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	80.54	126.30	56.82
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	525.22	441.77	-15.89
	Total (All India)	11449.95	13480.26	17.73

Contd.

TABLE NO.23 (Contd.)

**GROSS ENERGY GENERATION (UTILITIES ONLY) PRIMEMOVERWISE/  
REGIONWISE/STATEWISE DURING 1992-93**

(GWH)

		N U C L E A R		
Region	State/U.Ts.	1991-92	1992-93	% increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Central Sector	1654.24	2771.49	67.54
	Sub-Total	1654.24	2771.49	67.54
WESTERN REGION	Gujarat		0.00	0.00
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	Central Sector	1710.00	1976.80	15.60
	Sub-Total	1710.00	1976.80	15.60
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Central Sector	2160.16	1978.00	-8.43
	Sub-Total	2160.16	1978.00	-8.43
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	D.V.C.	0.00	0.00	0.00
	A.& N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
	Total (All India)	5524.40	6726.29	21.76

TABLE No.24

**GROSS ENERGY GENERATION BY STATE ELECTRICITY  
BOARDS PRIME-MOVERWISE DURING 1992-93**

(GWH)

Region	NAME OF THE BOARDS	T O T A L		
		1991-92	1992-93	% increase
NORTHERN REGION	Haryana	7765.48	7972.73	2.04
	Himachal Pradesh	1050.38	1087.40	3.52
	Jammu & Kashmir	878.00	800.97	-8.77
	Punjab	14676.68	15717.88	6.44
	Rajasthan	8130.19	8591.85	5.68
	Uttar Pradesh	18182.71	18167.12	-0.09
	<b>Sub-Total</b>	<b>50683.44</b>	<b>52337.95</b>	<b>3.26</b>
WESTERN REGION	Gujarat	18120.13	20303.50	12.05
	Madhya Pradesh	12524.52	13259.58	5.87
	Maharashtra	31373.39	31062.42	-0.99
	<b>Sub-Total</b>	<b>62018.04</b>	<b>64625.50</b>	<b>4.20</b>
SOUTHERN REGION	Andhra Pradesh	17563.32	17217.43	-1.97
	Karnataka	707.43	803.59	13.59
	Kerala	5325.78	6192.74	16.28
	Tamil Nadu	13832.97	16958.38	22.59
	<b>Sub-Total</b>	<b>37429.50</b>	<b>41172.14</b>	<b>10.00</b>
EASTERN REGION	Bihar	2592.30	2967.10	14.46
	Orissa	4252.34	3739.29	-12.07
	West Bengal	2853.01	2870.44	0.61
	<b>Sub-Total</b>	<b>9697.65</b>	<b>9576.83</b>	<b>-1.25</b>
NORTH EASTERN REGION	Assam	1079.57	1068.28	-1.05
	Meghalaya	421.09	430.14	2.15
	<b>Sub-Total</b>	<b>1500.66</b>	<b>1498.42</b>	<b>-0.15</b>
	<b>Total (All Boards)</b>	<b>161329.29</b>	<b>169210.84</b>	<b>4.89</b>

Contd..

TABLE No.24 (Contd.)

GROSS ENERGY GENERATION BY STATE ELECTRICITY  
BOARDS PRIME-MOVERWISE DURING 1992-93

(GWH)

Region	NAME OF THE BOARDS	H Y D R O		
		1991-92	1992-93	%increase
NORTHERN REGION	Haryana	4197.36	4081.00	-2.77
	Himachal Pradesh	1050.37	1087.39	3.52
	Jammu & Kashmir	793.00	765.60	-3.46
	Punjab	8742.32	8612.85	-1.48
	Rajasthan	3845.99	3658.69	-4.87
	Uttar Pradesh	5556.00	4150.60	-25.30
	Sub-Total	24185.04	22356.13	-7.56
WESTERN REGION	Gujarat	833.48	659.43	-20.88
	Madhya Pradesh	1498.81	1511.91	0.87
	Maharashtra	4186.81	3882.68	-7.26
	Sub-Total	6519.10	6054.02	-7.13
SOUTHERN REGION	Andhra Pradesh	8837.15	8103.15	-8.31
	Karnataka	707.43	803.59	13.59
	Kerala	5325.78	6192.74	16.28
	Tamil Nadu	4409.56	5636.26	27.82
	Sub-Total	19279.92	20735.74	7.55
EASTERN REGION	Bihar	242.80	135.00	-44.40
	Orissa	3044.38	2349.18	-22.84
	West Bengal	116.90	97.79	-16.35
	Sub-Total	3404.08	2581.97	-24.15
NORTH EASTERN REGION	Assam	0.03	0.00	0.00
	Meghalaya	421.09	430.14	2.14
	Sub-Total	421.12	430.14	2.14
	Total (All Boards)	53809.26	52158.00	-3.07

Contd.

TABLE No.24 (Contd.)

GROSS ENERGY GENERATION BY STATE ELECTRICITY  
BOARDS PRIME-MOVERWISE DURING 1992-93

(GWH)

Region	NAME OF THE BOARDS	S T E A M		
		1991-92	1992-93	%increase
NORTHERN REGION	Haryana	3568.12	3891.73	9.07
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	5934.36	7105.03	19.73
	Rajasthan	4284.20	4933.16	15.15
	Uttar Pradesh	12626.71	14016.52	11.01
	Sub-Total	26413.39	29946.44	13.37
WESTERN REGION	Gujarat	17033.50	19404.12	26.54
	Madhya Pradesh	11025.71	11747.67	6.55
	Maharashtra	24266.84	24559.89	1.21
	Sub-Total	52326.05	55711.68	6.47
SOUTHERN REGION	Andhra Pradesh	8726.17	9114.28	4.45
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	9398.28	11264.65	19.86
	Sub-Total	18124.45	20378.93	12.44
EASTERN REGION	Bihar	2349.50	2832.10	20.54
	Orissa	1207.96	1390.11	15.08
	West Bengal	2730.02	2758.92	1.06
	Sub-Total	6287.48	6981.13	11.03
NORTH EASTERN REGION	Assam	634.86	752.81	18.58
	Meghalaya	0.00	0.00	0.00
	Sub-Total	634.86	752.81	18.58
	Total (All Boards)	103786.23	113770.99	9.62

Contd..

TABLE No.24 (Contd.)

GROSS ENERGY GENERATION BY STATE ELECTRICITY  
BOARDS PRIME-MOVERWISE DURING 1992-93

(GWH)

Region	NAME OF THE BOARDS	DIESEL & WIND		
		1991-92	1992-93	%increase
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.01	0.01	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Sub-Total	0.01	0.01	0.00
WESTERN REGION	Gujarat	0.35	**1.61	360.00
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Sub-Total	0.35	1.61	360.00
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	*23.60	*29.16	23.56
	Sub-Total	23.60	29.16	23.56
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	0.37	0.28	-24.32
	Sub-Total	0.37	0.28	-24.32
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
	Total (All Boards)	24.33	31.06	27.66

\* Wind Mill generation.

\*\* Includes 1.21 GWH from wind mills

Contd..



TABLE No.24 (Contd.)

GROSS ENERGY GENERATION BY STATE ELECTRICITY  
BOARDS PRIME-MOVERWISE DURING 1992-93

(GWH)

Region	NAME OF THE BOARD	G A S		%increase
		1991-92	1992-93	
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	85.00	35.37	-38.39
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Sub-Total	85.00	35.37	-38.39
WESTERN REGION	Gujarat	252.80	238.34	-5.72
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	2919.74	2619.85	-10.27
	Sub-Total	3172.54	2858.19	-9.91
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	1.53	28.31	1750.33
	Sub-Total	1.53	28.31	1750.33
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	5.72	13.45	135.14
	Sub-Total	5.72	13.45	135.14
NDRTH EASTERN REGION	Assam	444.68	315.47	-29.06
	Meghalaya	0.00	0.00	0.00
	Sub-Total	444.68	315.47	-29.06
	Total (All Boards)	3709.47	3250.79	-12.37

Note: There is no nuclear power station under any Electricity Board.

TABLE No.25

**GROSS ENERGY GENERATION BY ELECTRICITY DEPARTMENTS/  
GOVT. UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES  
AND PRIVATE SECTOR-PRIMEWISER/REGIONWISE  
DURING 1992-93**

(BWH)

		T O T A L		
REGION	OWNERSHIP	1991-92	1992-93	% increase
<b>ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR</b>				
NORTHERN REGION	Uttar Pradesh	559.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Central Sector	39650.28	39614.18	11.12
WESTERN REGION	Gujarat	12.44	17.01	36.74
	Goa	0.00	0.00	0.00
	Central Sector	21670.18	22841.91	5.41
SOUTHERN REGION	Andhra Pradesh	1091.36	1153.39	5.68
	Karnataka	12199.53	11954.87	-2.01
	Lakshadweep	10.64	11.50	8.08
	Central Sector	21444.45	22691.04	5.81
EASTERN REGION	Orissa	2061.47	1683.40	-18.34
	West Bengal	4508.00	5272.30	16.95
	Sikkim	38.19	42.72	11.86
	D.V.C.	5330.37	5195.41	-2.53
	A. & N. Islands	51.79	62.22	20.14
	Central Sector	3361.00	3692.72	9.87
NORTH EASTERN REGION	Manipur	2.83	3.84	35.69
	Nagaland	9.01	3.50	-61.15
	Tripura	138.99	176.09	26.69
	Arunachal Pradesh	51.72	54.00	4.41
	Mizoram	12.74	19.29	51.41
	Central Sector	1367.41	1403.15	2.61
Total (I)		109571.40	115892.50	5.77
<b>II. MUNICIPALITIES</b>				
NORTHERN REGION	Delhi	2411.35	2432.37	0.87
Total (II)		2411.35	2432.37	0.87
<b>III. PRIVATE LICENSEES</b>				
WESTERN REGION	Gujarat	2668.19	2724.19	2.10
	Maharashtra	7826.70	7544.89	-3.60
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	3221.65	3556.93	10.41
Total (III)		13716.54	13826.01	0.80

Contd.

TABLE No.25 (Contd)

**GROSS ENERGY GENERATION BY ELECTRICITY DEPARTMENTS/  
GOVT. UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES  
AND PRIVATE SECTOR-PRIMEWISE/REGIONWISE  
DURING 1992-93**

(BWH)

		H Y D R O		
REGION	OWNERSHIP	1991-92	1992-93	%increase
<b>ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR</b>				
NORTHERN REGION	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Central Sector	3023.00	3093.48	2.33
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
SOUTHERN REGION	Andhra Pradesh	734.36	736.34	0.27
	Karnataka	9613.82	9223.24	-4.06
	Lakshadweep	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
EASTERN REGION	Orissa	2061.47	1683.40	-18.34
	West Bengal	0.00	0.00	0.00
	Sikkim	36.96	41.38	11.96
	D.V.C.	371.07	216.78	-41.58
	A. & N. Islands	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
NORTH EASTERN REGION	Manipur	0.14	0.23	64.29
	Nagaland	8.97	3.50	-60.98
	Tripura	56.43	47.79	-15.31
	Arunachal Pradesh	37.38	39.52	5.72
	Mizoram	0.92	2.14	132.61
	Central Sector	1367.41	1403.15	2.61
<b>Total (I)</b>		<b>17311.93</b>	<b>16490.95</b>	<b>-4.74</b>
<b>II. MUNICIPALITIES</b>				
NORTHERN REGION	Delhi	0.00	0.00	0.00
<b>Total (II)</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>III. PRIVATE LICENSEES</b>				
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Maharashtra	1635.90	1220.30	-25.40
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	0.00	0.00	0.00
<b>Total (III)</b>		<b>1635.90</b>	<b>1220.30</b>	<b>-25.40</b>

Contd.

TABLE No.25 (Contd)

GROSS ENERGY GENERATION BY ELECTRICITY DEPARTMENTS/  
GOVT. UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES  
AND PRIVATE SECTOR-PRIMEOVERWISE/REGIONWISE  
DURING 1992-93 (GWH)

		S T E A M		
REGION	OWNERSHIP	1991-92	1992-93	%increase
<b>ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR</b>				
NORTHERN REGION	Uttar Pradesh	559.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Central Sector	24731.09	27022.88	9.27
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	Central Sector	19960.00	19404.19	-2.78
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	2585.71	2731.63	5.64
	Lakshadweep	0.00	0.00	0.00
	Central Sector	19284.29	30713.04	59.26
EASTERN REGION	Orissa	0.00	0.00	0.00
	West Bengal	4508.00	5272.30	16.95
	Sikkim	0.00	0.00	0.00
	D.V.C.	4915.69	4918.30	0.05
	A. & N. Islands	0.00	0.00	0.00
	Central Sector	3361.00	3692.72	9.87
NORTH EASTERN REGION	Manipur	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
<b>Total (I)</b>		<b>79904.78</b>	<b>83755.06</b>	<b>4.82</b>
<b>II. MUNICIPALITIES</b>				
NORTHERN REGION	Delhi	1749.35	1630.02	-6.82
<b>Total (II)</b>		<b>1749.35</b>	<b>1630.02</b>	<b>-6.82</b>
<b>III. PRIVATE LICENSEES</b>				
WESTERN REGION	Bujarat	2335.12	2109.01	-9.68
	Maharashtra	6190.80	6324.59	2.16
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	3196.82	3533.86	10.54
<b>Total (III)</b>		<b>11722.74</b>	<b>11967.46</b>	<b>2.09</b>

Contd.

TABLE No.25 (Contd)

**GROSS ENERGY GENERATION BY ELECTRICITY DEPARTMENTS/  
GOVT. UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES  
AND PRIVATE SECTOR-PRIMEWISE/REGIONWISE  
DURING 1992-93 (GWH)**

REGION	OWNERSHIP	DIESEL & WIND		
		1991-92	1992-93	%increase
<b>ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR</b>				
NORTHERN REGION	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
WESTERN REGION	Gujarat	*12.44	*17.01	36.74
	Goa	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Lakshadweep	10.64	11.50	8.08
	Central Sector	0.00	0.00	0.00
EASTERN REGION	Orissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	Sikkim	1.23	1.34	8.94
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	51.79	62.22	20.14
	Central Sector	0.00	0.00	0.00
NORTH EASTERN REGION	Manipur	2.69	3.61	34.20
	Nagaland	0.04	0.00	0.00
	Tripura	2.02	2.00	-0.99
	Arunachal Pradesh	14.34	14.48	0.98
	Mizoram	11.82	17.15	45.09
	Central Sector	0.00	0.00	0.00
<b>Total (I)</b>		<b>107.01</b>	<b>129.31</b>	<b>20.84</b>
<b>II. MUNICIPALITIES</b>				
NORTHERN REGION	Delhi	0.00	0.00	0.00
<b>Total (II)</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>III. PRIVATE LICENSEES</b>				
WESTERN REGION	Gujarat	**2.70	*2.02	-25.19
	Maharashtra	0.00	0.00	0.00
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	0.00	0.00	0.00
<b>Total (III)</b>		<b>**2.70</b>	<b>*2.02</b>	<b>-25.19</b>

\*\* Includes 2.55 GWH from wind mill.

\* Wind mill generation.

Contd.

TABLE No. 25 (Contd)

**GROSS ENERGY GENERATION BY ELECTRICITY DEPARTMENTS/  
GOVT. UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES  
AND PRIVATE SECTOR-PRIMEWISE/REGIONWISE  
DURING 1992-93 (GWH)**

		G A S		
REGION	OWNERSHIP	1991-92	1992-93	% Increase
<b>ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR</b>				
NORTHERN REGION	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Central Sector	6241.95	6726.33	7.76
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	Central Sector	0.18	1460.92	811422.22
SOUTHERN REGION	Andhra Pradesh	357.00	417.01	16.81
	Karnataka	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
EASTERN REGION	Orissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	D.V.C.	43.61	60.33	38.34
	A. & N. Islands	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
NORTH EASTERN REGION	Manipur	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
EASTERN REGION	Tripura	80.54	126.30	56.82
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
<b>Total (I)</b>		<b>6723.28</b>	<b>8790.89</b>	<b>30.75</b>
<b>II. MUNICIPALITIES</b>				
NORTHERN REGION	Delhi	662.00	802.35	21.20
<b>Total (II)</b>		<b>662.00</b>	<b>802.35</b>	<b>21.20</b>
<b>III. PRIVATE LICENSEES</b>				
WESTERN REGION	Gujarat	330.37	613.16	85.60
	Maharashtra	0.00	0.00	0.00
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	24.83	23.07	-7.09
<b>Total (III)</b>		<b>355.20</b>	<b>636.23</b>	<b>79.12</b>

Contd.

TABLE No. 25 (Contd)

**GROSS ENERGY GENERATION BY ELECTRICITY DEPARTMENTS/  
GOVT. UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES  
AND PRIVATE SECTOR-PRIMEWORLDWIDE/REGIONWISE  
DURING 1992-93** (GWH)

		NUCLEAR		
REGION	OWNERSHIP	1991-92	1992-93	%increase
<b>ELECTRICITY DEPARTMENTS/ GOVERNMENT UNDERTAKINGS/ CORPORATION/ CENTRAL SECTOR</b>				
NORTHERN REGION	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Central Sector	1654.24	2771.49	67.54
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	Central Sector	1710.00	1976.80	15.60
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Central Sector	2160.16	1978.00	-8.43
EASTERN REGION	Drissa	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	D.V.C.	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
NORTH EASTERN REGION	Manipur	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
<b>Total (I)</b>		<b>5524.40</b>	<b>6726.29</b>	<b>21.76</b>
<b>II. MUNICIPALITIES</b>				
NORTHERN REGION	Delhi	0.00	0.00	0.00
<b>Total (II)</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>III. PRIVATE LICENSEES</b>				
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
SOUTHERN REGION	Karnataka	0.00	0.00	0.00
EASTERN REGION	West Bengal	0.00	0.00	0.00
<b>Total (III)</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

TABLE No. 26

CLASSIFICATION OF GENERATING UNDERTAKINGS GENERATIONWISE  
DURING 1992-93

Range of generation (GWH)	No of undertakings	Total energy generated (GWH)	% of total	Installed capacity of the group (MW)	% of Total
Under 1	7	0.00	0.00	230.51	0.32
Over 1 upto 10	3	9.35	0.00	20.43	0.03
Over 10 upto 25	3	47.80	0.02	42.75	0.06
Over 25 upto 50	2	72.68	0.02	37.97	0.05
Over 50 upto 100	3	204.39	0.07	80.20	0.11
Over 100 upto 250	3	565.81	0.19	245.36	0.34
Over 250 upto 500	3	1298.29	0.43	922.76	1.28
Over 500 upto 1000	9	7055.90	2.34	2004.34	2.77
Over 1000 upto 5000	22	54752.09	18.17	15057.95	20.82
Over 5000 upto 10000	8	53761.34	17.84	12364.40	17.09
Over 10000	11	183594.07	60.92	41323.70	57.13
	74	301361.72	100.00	72330.37	100.00



## **SECTION IV**

### **Captive Plants**

SECTION -IV  
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CAPTIVE PLANTS  
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Industrial Sector is the largest consumer of energy. Besides taking power from Utilities, a number of industries representing primary producers of infrastructure material such as Aluminium, Cement, Fertilizers, Iron & Steel, Paper and Sugar etc. have their own captive power plants either to supplement the electricity purchased from the Utilities or for emergency use in case of power cut or for producing energy as a by-product of their industrial process.

With the ever increasing number of industrial units having their own captive power plants, (the number of industries having captive plants of capacity more than 100 KW or contract demand of more than 500 KVA rose from 828 in 1980 to 3648 during 1985-86), it was found not feasible to cover the data of all the industrial units. It was, therefore, decided to cover only the selected industrial units viz. the units having their own captive plants with a total installed capacity of 1000 KW and above from the year 1986-87. Accordingly, the data for captive power plants of 1.00 MW and above only are being highlighted in the section.

While during the year 1991-92 as per data available, there were 1427 selected industrial units, as per the above criteria, with a total installed capacity of 9168175 KW and these generated 28,579.97 GWH of electricity. During 1992-93 the number of industrial units increased to 1559 having total installed capacity of 9904512 KW which generated 31327.75 GWH of electricity.

93.56% of total captive generation was contributed by the industries of ten categories producing primary infrastructure material and generating above 600 GWH individually. The details of which are given below:-

Sl.No.	Name of Industry	Energy Generation (GWH)
1.	Aluminium (P)	8661
2.	Cement (P)	1018
3.	Chemicals	2175
4.	Fertilizers	3223
5.	Iron & Steel (P)	6339
6.	Mineral Oil & Petroleum	2157
7.	Non-Ferrous	854
8.	Paper	1459
9.	Sugar	1694
10.	Textile	1732
	Total	29312

Apart from industrial units, Railways have also got captive generating sets, which are mainly used as standby for emergency purposes. Total capacity of captive plants of Railways during the year 1992-93 was 1,40,028 KW and they generated 23.76 GWH of electricity.

Various tables in this Section depict the salient features of captive plants in the country.

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TABLE NO.27

INSTALLED GENERATING CAPACITY OF SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE AS ON 31ST MARCH, 1993. (IN KW)

Region	State/U.Ts.	Aluminium (P)	Aluminium (S)	Automobiles
NORTHERN REGION	Haryana	0	1520	54808
	Himachal Pradesh	0	0	0
	Jammu & Kashmir	0	0	0
	Punjab	0	0	6320
	Rajasthan	0	1888	2200
	Uttar Pradesh	337800	0	5824
	Chandigarh	0	0	0
	Delhi	0	0	0
	Sub-Total	337800	3408	69152
WESTERN REGION	Gujarat	0	0	0
	Madhya Pradesh	270000	0	3368
	Maharashtra	0	0	44170
	Goa	0	0	0
	Daman & Diu	0	0	0
	D.& N.Haveli	0	0	0
	Sub-Total	270000	0	47538
SOUTHERN REGION	Andhra Pradesh	0	0	0
	Karnataka	0	2264	9184 <sup>a</sup>
	Kerala	0	0	0
	Tamil Nadu	0	0	20600
	Lakshadweep	0	0	0
	Pondicherry	0	0	0
	Sub-Total	0	2264	29784
EASTERN REGION	Bihar	0	7380	0
	Orissa	667500	55500	0
	West Bengal	0	1376	16720
	A.& N. Islands	0	0	0
	Sikkim	0	0	0
	Sub-Total	667500	64256	16720
NORTH EASTERN REGION	Assam	0	0	0
	Manipur	0	0	0
	Meghalaya	0	0	0
	Nagaland	0	0	0
	Tripura	0	0	0
	Arunachal Pradesh	0	0	0
	Mizoram	0	0	0
	Sub-Total	0	0	0
	Total (All India)	1275300	69928	163194

P=PRIMARY  
S=SECONDARY

Contd.

TABLE NO.27 (Contd.)  
 INSTALLED GENERATING CAPACITY OF SELECTED INDUSTRIES  
 (HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
 REGIONWISE/STATEWISE AS ON 31ST MARCH, 1993.

(IN KW)

Region	State/U.Ts.	Cement (P)	Cement (S)	Chemicals	Collieries
NORTHERN REGION	Haryana	12000	10380	10494	0
	Himachal Pradesh	9900	0	0	0
	Jammu & Kashmir	0	0	0	0
	Punjab	0	0	9124	0
	Rajasthan	145756	5700	7000	0
	Uttar Pradesh	0	0	30390	0
	Chandigarh	0	0	1490	0
	Delhi	0	0	29000	0
Sub-Total		167656	16280	87498	0
WESTERN REGION	Gujarat	33575	1376	329134	0
	Madhya Pradesh	124600	18424	19742	2600
	Maharashtra	4000	0	49500	0
	Goa	0	0	14656	0
	Daman & Diu	0	0	0	0
	D.& N.Haveli	0	0	0	0
Sub-Total		162175	19800	413032	2600
SOUTHERN REGION	Andhra Pradesh	100185	4174	107613	52400
	Karnataka	136500	0	23892	0
	Kerala	0	0	12460	0
	Tamil Nadu	67584	2060	65574	0
	Lakshadweep	0	0	0	0
	Pondicherry	0	0	0	0
Sub-Total		304269	6234	209539	52400
EASTERN REGION	Bihar	26620	0	0	46600
	Orissa	20000	3563	0	0
	West Bengal	0	1877	22192	21600
	A.& N. Islands	0	0	0	0
	Sikkim	0	0	0	0
Sub-Total		46620	5440	22192	68200
NORTH EASTERN REGION	Assam	1600	0	0	0
	Manipur	0	0	0	0
	Meghalaya	0	0	0	0
	Nagaland	0	0	0	0
	Tripura	0	0	0	0
	Arunachal Pradesh	0	0	0	0
Mizoram	0	0	0	0	
Sub-Total		1600	0	0	0
Total (All India)		682320	47754	732261	123200

P=PRIMARY  
 S=SECONDARY

Contd.

TABLE NO.27 (Contd.)

INSTALLED GENERATING CAPACITY OF SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE AS ON 31ST MARCH, 1993.

(IN KW)

Region	State/U.Ts.	Electrical Engineering	Fertilizer	Food Products	Heavy Engineering
NORTHERN REGION	Haryana	10418	31500	5302	0
	Himachal Pradesh	0	0	0	0
	Jammu & Kashmir	0	0	0	0
	Punjab	4884	36440	31010	0
	Rajasthan	0	45000	0	1760
	Uttar Pradesh	28975	43660	11014	5185
	Chandigarh	3020	0	0	0
	Delhi	1846	0	1200	0
	Sub-Total	49143	156600	48526	6945
WESTERN REGION	Gujarat	6356	185248	4388	0
	Madhya Pradesh	5688	34450	1200	0
	Maharashtra	19950	30000	2260	13646
	Goa	0	0	0	0
	Daman & Diu	0	0	0	0
	D.& N.Haveli	0	0	0	0
		Sub-Total	31994	249698	7848
SOUTHERN REGION	Andhra Pradesh	7308	21480	8198	17420
	Karnataka	26926	52000	1950	30598
	Kerala	2908	17950	0	1128
	Tamil Nadu	10326	16106	4623	7050
	Pondicherry	0	0	1720	0
	Lakshadweep	0	0	0	0
	Sub-Total	47468	107536	16491	56196
EASTERN REGION	Bihar	2690	98500	0	54200
	Orissa	1064	66000	0	3594
	West Bengal	14596	55100	14512	19256
	A.& N. Islands	0	0	0	0
	Sikkim	0	0	0	0
	Sub-Total	18350	219600	14512	77050
NORTH EASTERN REGION	Assam	0	30750	0	0
	Manipur	0	0	0	0
	Meghalaya	0	0	0	0
	Nagaland	0	0	0	0
	Tripura	0	0	0	0
	Arunachal Pradesh	0	0	0	0
	Mizoram	0	0	0	0
	Sub-Total	0	30750	0	0
	Total (All India)	146955	764184	87377	153837

Contd.

TABLE NO.27 (Contd.)

INSTALLED GENERATING CAPACITY OF SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE AS ON 31ST MARCH, 1993.

(IN KW)

Region	State/U.Ts.	Iron & Steel (P)	Iron & Steel (S)	Jute	Light Engineering
NORTHERN REGION	Haryana	0	27660	0	32131
	Himachal Pradesh	0	0	0	0
	Jammu & Kashmir	0	0	0	0
	Punjab	0	1024	0	15095
	Rajasthan	0	9308	0	15704
	Uttar Pradesh	0	17688	2750	10478
	Chandigarh	0	0	0	0
	Delhi	0	0	0	0
	Sub-Total	0	55680	2750	73408
WESTERN REGION	Gujarat	0	23832	0	2600
	Madhya Pradesh	110000	6600	0	4840
	Maharashtra	1360	35746	0	37459
	Goa	0	0	0	0
	Daman & Diu	0	0	0	0
	D.& N.Haveli	0	0	0	0
	Sub-Total	111360	66178	0	44899
SOUTHERN REGION	Andhra Pradesh	220000	3720	11032	1400
	Karnataka	1760	2408	0	29128
	Kerala	0	0	0	3736
	Tamil Nadu	2928	19576	0	39144
	Pondicherry	0	0	0	0
	Lakshadweep	0	0	0	0
	Sub-Total	224688	25704	11032	73408
EASTERN REGION	Bihar	552100	18962	3640	0
	Orissa	258152	3840	1000	0
	West Bengal	200000	8922	185500	15712
	A.& N. Islands	0	0	0	0
	Sikkim	0	0	0	0
	Sub-Total	1010252	31724	190140	15712
NORTH EASTERN REGION	Assam	0	0	0	0
	Manipur	0	0	0	0
	Meghalaya	0	0	0	0
	Nagaland	0	0	0	0
	Tripura	0	0	0	0
	Arunachal Pradesh	0	0	0	0
	Mizoram	0	0	0	0
	Sub-Total	0	0	0	0
	Total (All India)	1346300	179286	203922	207427

(P)=PRIMARY  
(S)=SECONDARY

Contd.

TABLE NO.27 (Contd.)

INSTALLED GENERATING CAPACITY OF SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE AS ON 31ST MARCH, 1993.

(IN KW)

Region	State/U.Ts.	Mineral Oil & Petroleum	Mining & Quarrying	Miscell- aneous	Non- Ferrous	Paper
NORTHERN REGION	Haryana	0	0	24553	0	28370
	Himachal Pradesh	0	0	0	0	0
	Jammu & Kashmir	0	0	0	0	0
	Punjab	0	0	3800	0	7160
	Rajasthan	0	0	1260	69852	0
	Uttar Pradesh	37500	0	17630	0	19180
	Chandigarh	0	0	0	0	0
	Delhi	0	0	9020	0	0
	Sub-Total	37500	0	56263	69852	54710
WESTERN REGION	Gujarat	87500	0	40668*	1900	6000
	Madhya Pradesh	5400	1200	3590	6800	45270
	Maharashtra	113122	0	9920	0	24393
	Goa	0	0	0	0	0
	Daman & Diu	0	0	0	0	0
	D.& N.Haveli	0	0	0	0	0
		Sub-Total	206022	1200	54178	8700
SOUTHERN REGION	Andhra Pradesh	21920	0	12992	63242	67060
	Karnataka	0	1600	3076	11638	49690
	Kerala	25636	2240	4576	5000	23400
	Tamil Nadu	39400	2280	11595	11170	41790
	Pondicherry	0	0	6100	0	0
	Lakshadweep	0	0	0	0	0
	Sub-Total	86956	6120	38339	91050	181940
EASTERN REGION	Bihar	36500	5800	3620	25000	16000
	Orissa	2400	3450	6141	117906	35600
	West Bengal	31500	0	18800	0	35225
	A.& N. Islands	0	0	1284	0	0
	Sikkim	0	0	0	0	0
	Sub-Total	70400	9250	29845	142906	88825
NORTH EASTERN REGION	Assam	263063	0	0	0	30000
	Manipur	0	0	0	0	0
	Meghalaya	0	0	0	0	0
	Nagaland	0	0	0	0	0
	Tripura	0	0	0	0	0
	Arunachal Pradesh	0	0	0	0	0
	Mizoram	0	0	0	0	0
	Sub-Total	263063	0	0	0	30000
	Total (All India)	663941	16570	178625	312506	429138

\* This includes 37758 KW of GEB's share in Gujarat Industries Power Company Limited (GIPCL).

Contd.



TABLE NO.27 (Contd.)

INSTALLED GENERATING CAPACITY OF SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE AS ON 31ST MARCH, 1993.

(IN KW)

Region	State/U.Ts.	Plastic	Rubber	Sugar	Textile	Total
NORTHERN REGION	Haryana	0	11528	21567	32474	314905
	Himachal Pradesh	0	0	0	2268	12168
	Jammu & Kashmir	0	0	0	2432	2432
	Punjab	0	1600	15700	47258	179415
	Rajasthan	0	18128	3160	117797	444513
	Uttar Pradesh	0	14711	260150	115500	958435
	Chandigarh	0	0	0	0	4510
	Delhi	0	0	0	22304	63370
	Sub-Total	0	45967	300577	340033	1979748
WESTERN REGION	Gujarat	1000*	0	62500	158300	943377
	Madhya Pradesh	0	1000	14641	84062	763475
	Maharashtra	0	13588	186651	146745	732510
	Goa	0	2400*	0	0	14656
	Daman & Diu	0	0	0	0	0
	D. & N.Haveli	0	0	0	0	0
	Sub-Total	1000*	14588	263792	389107	2454018
SOUTHERN REGION	Andhra Pradesh	0	0	69140	23356	812640
	Karnataka	0	5376	91150	32500	511640
	Kerala	0	6320	2498	11914	119766
	Tamil Nadu	17325	32190	87500	259530	758351
	Pondicherry	0	0	5748	3024	16592
	Lakshadweep	0	0	0	0	0
	Sub-Total	17325	43886	256036	330324	2218989
EASTERN REGION	Bihar	0	0	29260	2249	929121
	Orissa	0	0	6337	8478	1260525
	West Bengal	0	12080	1050	54220	730238
	A. & N. Islands	0	0	0	0	1284
	Sikkim	0	0	0	0	0
	Sub-Total	0	12080	36647	64947	2921168
NORTH EASTERN REGION	Assam	0	0	1500	2176	329089
	Manipur	0	0	0	0	0
	Meghalaya	0	0	0	0	0
	Nagaland	0	0	1500	0	1500
	Tripura	0	0	0	0	0
	Arunachal Pradesh	0	0	0	0	0
	Mizoram	0	0	0	0	0
	Sub-Total	0	0	3000	2176	330589
	Total (All India)	17325	116521	860052	126587	9904512

\* Due to late receipt of information from these industries, the information in respect of these categories has not been included in total.

TABLE NO.28

GROSS ELECTRICITY GENERATION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Aluminium (P)	Aluminium (S)	Automobiles
NORTHERN REGION	Haryana	0.00	0.47	55.45
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	1.95
	Rajasthan	0.00	0.65	0.12
	Uttar Pradesh	2739.67	0.00	1.07
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Sub-Total	2739.67	1.12	58.59
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Madhya Pradesh	1833.60	0.00	0.57
	Maharashtra	0.00	0.00	15.03
	Goa	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	D.& N.Haveli	0.00	0.00	0.00
		Sub-Total	1833.60	0.00
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.85	8.25
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	5.47
	Pondicherry	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Sub-Total	0.00	0.85	13.72
EASTERN REGION	Bihar	0.00	21.01	0.00
	Orissa	4087.77	187.39	0.00
	West Bengal	0.00	0.49	1.54
	A.& N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Sub-Total	4087.77	208.89	1.54
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
	Total (All India)	8661.04	210.86	89.45

P=PRIMARY  
S=SECONDARY

Contd.

TABLE NO.28 (Contd.)

GROSS ELECTRICITY GENERATION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts	Cement (P)	Cement (S)	Chemicals	Collieries
NORTHERN REGION	Haryana	19.83	10.88	8.19	0.00
	Himachal Pradesh	0.88	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00
	Punjab	0.00	0.00	5.97	0.00
	Rajasthan	141.49	7.43	22.66	0.00
	Uttar Pradesh	0.00	0.00	76.20	0.00
	Chandigarh	0.00	0.00	0.72	0.00
	Delhi	0.00	0.00	156.73	0.00
	Sub-Total	162.20	18.31	270.47	0.00
WESTERN REGION	Gujarat	24.01	0.02	1330.91	0.00
	Madhya Pradesh	205.57	4.47	77.60	0.00
	Maharashtra	0.06	0.00	18.50	0.00
	Goa	0.00	0.00	58.39	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D.& N.Haveli	0.00	0.00	0.00	0.00
		Sub-Total	229.64	4.49	1485.40
SOUTHERN REGION	Andhra Pradesh	163.13	4.11	203.89	87.11
	Karnataka	328.22	0.00	76.95	0.00
	Kerala	0.00	0.00	1.71	0.00
	Tamil Nadu	21.33	0.32	96.98	0.00
	Pondicherry	0.00	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00	0.00
		Sub-Total	512.68	4.43	379.53
EASTERN REGION	Bihar	64.96	0.00	0.00	115.76
	Orissa	45.98	2.09	0.00	0.00
	West Bengal	0.00	0.11	39.62	119.08
	A.& N. Islands	0.00	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00
		Sub-Total	110.94	2.20	39.62
NORTH EASTERN REGION	Assam	2.53	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00
		Sub-Total	2.53	0.00	0.00
	Total (All India)	1017.99	29.43	2175.02	321.95

P=PRIMARY  
S=SECONDARY

Contd.

TABLE NO.2B (Contd.)

GROSS ELECTRICITY GENERATION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Electrical Engineering	Ferti-lizers	Food Products	Heavy Engineering
NORTHERN REGION	Haryana	5.76	158.29	2.27	0.00
	Himachal Pradesh	0.00	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00
	Punjab	11.71	161.17	22.48	0.00
	Rajasthan	0.00	333.48	0.00	0.52
	Uttar Pradesh	35.25	249.36	5.62	0.23
	Chandigarh	12.64	0.00	0.00	0.00
	Delhi	0.70	0.00	2.50	0.00
	Sub-Total	66.06	902.30	32.87	0.75
WESTERN REGION	Gujarat	0.23	1140.65	6.14	0.00
	Madhya Pradesh	3.40	193.91	0.01	0.00
	Maharashtra	3.92	191.27	0.18	14.29
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D.& N.Haveli	0.00	0.00	0.00	0.00
		Sub-Total	7.55	1525.83	6.33
SOUTHERN REGION	Andhra Pradesh	1.94	98.87	14.22	10.91
	Karnataka	20.20	179.09	4.56	27.50
	Kerala	0.49	68.30	0.00	0.66
	Tamil Nadu	9.55	8.54	2.27	5.45
	Pondicherry	0.00	0.00	0.47	0.00
	Lakshadweep	0.00	0.00	0.00	0.00
		Sub-Total	32.18	354.80	21.60
EASTERN REGION	Bihar	0.13	232.90	0.00	48.26
	Orissa	2.01	46.78	0.00	1.63
	West Bengal	2.87	2.35	7.76	3.06
	A.& N. Islands	0.00	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00
		Sub-Total	5.01	282.03	7.76
NORTH EASTERN REGION	Assam	0.00	157.90	0.00	0.00
	Manipur	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00
		Sub-Total	0.00	157.90	0.00
	Total (All India)	110.80	3222.86	68.56	112.51

Contd.

TABLE NO.28 (Contd.)

GROSS ELECTRICITY GENERATION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Iron & Steel (P)	Iron & Steel (S)	Jute	Light Engineering
NORTHERN REGION	Haryana	0.00	40.97	0.00	22.61
	Himachal Pradesh	0.00	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00	3.73
	Rajasthan	0.00	12.75	0.00	10.74
	Uttar Pradesh	0.00	7.71	1.19	2.73
	Chandigarh	0.00	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00	0.00
	Sub-Total	0.00	61.43	1.19	39.81
WESTERN REGION	Gujarat	0.00	135.03	0.00	0.11
	Madhya Pradesh	806.32	2.85	0.00	1.65
	Maharashtra	0.00	6.63	0.00	16.85
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D. & N.Haveli	0.00	0.00	0.00	0.00
	Sub-Total	806.32	144.51	0.00	18.61
SOUTHERN REGION	Andhra Pradesh	1214.54	1.96	2.91	0.00
	Karnataka	0.00	3.14	0.00	29.15
	Kerala	0.00	0.00	0.00	0.24
	Tamil Nadu	0.31	2.20	0.00	23.04
	Pondicherry	0.00	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00	0.00
	Sub-Total	1214.85	7.30	2.91	51.43
EASTERN REGION	Bihar	2396.19	14.32	5.22	0.00
	Orissa	1066.06	9.33	0.64	0.00
	West Bengal	855.34	1.60	162.50	0.97
	A. & N. Islands	0.00	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00
		Sub-Total	4317.59	25.25	168.36
NORTH EASTERN REGION	Assam	0.00	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00
		Sub-Total	0.00	0.00	0.00
	Total (All India)	6338.76	238.49	172.46	110.82

(P)=PRIMARY  
(S)=SECONDARY

Contd.

TABLE NO.28 (Contd.)

GROSS ELECTRICITY GENERATION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Mineral Oil & Petroleum	Mining & Quarrying	Miscell- aneous	Non- Ferrous	Paper
NORTHERN REGION	Haryana	0.00	0.00	18.74	0.00	165.40
	Himachal Pradesh	0.00	0.00	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00
	Punjab	0.00	0.00	7.24	0.00	7.42
	Rajasthan	0.00	0.00	0.19	26.45	0.00
	Uttar Pradesh	177.29	0.00	5.40	0.00	70.11
	Chandigarh	0.00	0.00	0.00	0.00	0.00
	Delhi	0.00	0.00	0.72	0.00	0.00
	Sub-Total	177.29	0.00	32.29	26.45	242.93
WESTERN REGION	Gujarat	399.49	0.00	255.77*	0.00	0.00
	Madhya Pradesh	14.86	0.03	0.87	1.03	162.68
	Maharashtra	457.17	0.00	11.06	0.00	149.52
	Goa	0.00	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00	0.00
	D.& N.Haveli	0.00	0.00	0.00	0.00	0.00
		Sub-Total	871.52	0.03	267.70	1.03
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	8.10	206.34	257.17
	Karnataka	0.00	2.01	4.67	0.54	118.15
	Kerala	126.74	3.50	1.52	8.10	74.82
	Tamil Nadu	212.55	0.31	7.40	3.28	133.61
	Pondicherry	0.00	0.00	1.95	0.00	0.00
	Lakshadweep	0.00	0.00	0.00	0.00	0.00
		Sub-Total	339.29	5.82	23.64	218.26
EASTERN REGION	Bihar	112.54	0.14	5.25	34.92	0.00
	Orissa	0.00	4.04	2.99	573.21	175.45
	West Bengal	134.16	0.00	8.00	0.00	4.50
	A.& N. Islands	0.00	0.00	0.93	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00	0.00
		Sub-Total	246.70	4.18	17.17	608.13
NORTH EASTERN REGION	Assam	522.14	0.00	0.00	0.00	140.66
	Manipur	0.00	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00	0.00
	Sub-Total	522.14	0.00	0.00	0.00	140.66
	Total (All India)	2156.94	10.03	340.80	853.87	1459.49

\* This includes 255.58 GWH of GEB's share in Gujarat Industries Power Company Limited (GIPCL).

Contd.

TABLE NO.28 (Contd.)

GROSS ELECTRICITY GENERATION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Plastic	Rubber	Sugar	Textile	Total
NORTHERN REGION	Haryana	0.00	25.76	59.96	27.47	622.05
	Himachal Pradesh	0.00	0.00	0.00	0.44	1.32
	Jammu & Kashmir	0.00	0.00	0.00	0.61	0.61
	Punjab	0.00	2.07	31.80	55.16	310.70
	Rajasthan	0.00	2.37	6.87	87.12	652.84
	Uttar Pradesh	0.00	28.20	584.48	101.20	4085.71
	Chandigarh	0.00	0.00	0.00	0.00	13.36
	Delhi	0.00	0.00	0.00	9.60	170.25
	Sub-Total	0.00	58.40	683.11	281.60	5856.84
WESTERN REGION	Gujarat	0.04*	0.00	140.15	146.50	3579.01
	Madhya Pradesh	0.00	0.72	15.55	246.29	3571.98
	Maharashtra	0.00	7.06	316.92	158.00	1366.46
	Goa	0.00	0.67*	0.00	0.00	58.39
	Daman & Diu	0.00	0.00	0.00	0.00	0.00
	D.& N.Haveli	0.00	0.00	0.00	0.00	0.00
		Sub-Total	0.04*	7.78	472.62	550.79
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	100.50	60.31	2436.01
	Karnataka	0.00	15.85	160.00	116.50	1094.63
	Kerala	0.00	3.18	3.42	13.74	306.50
	Tamil Nadu	63.08	20.30	200.10	601.03	1417.12
	Pondicherry	0.00	0.00	11.59	1.11	15.12
	Lakshadweep	0.00	0.00	0.00	0.00	0.00
		Sub-Total	63.08	39.33	475.61	792.69
EASTERN REGION	Bihar	0.00	0.00	51.95	1.63	3105.18
	Orissa	0.00	0.00	5.54	16.58	6227.49
	West Bengal	0.00	31.17	0.55	84.24	1459.91
	A.& N. Islands	0.00	0.00	0.00	0.00	0.93
	Sikkim	0.00	0.00	0.00	0.00	0.00
		Sub-Total	0.00	31.17	58.04	102.45
NORTH EASTERN REGION	Assam	0.00	0.00	2.16	4.81	830.20
	Manipur	0.00	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	1.98	0.00	1.98
	Tripura	0.00	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00	0.00
		Sub-Total	0.00	0.00	4.14	4.81
	Total (All India)	63.08	136.68	1693.52	1732.34	31327.75

\* Due to late receipt of information from these industries, the information in respect of these categories has not been included in total.

TABLE No.29

ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1MW & ABOVE)  
INDUSTRYWISE DURING 1992-93

Name of Industry	No. of Factories	INSTALLED CAPACITY (KW) AS ON 31.3.1993					Total
		Covered	Hydro	Steam	Diesel	Gas	
Aluminium (P)	4	0	1275300	0	0	0	1275300
Aluminium (S)	7	0	62000	7928	0	0	69928
Automobiles	40	0	0	143194	20000	0	163194
Cement (P)	68	0	235000	447320	0	0	682320
Cement (S)	18	0	10600	37154	0	0	47754
Chemicals	102	0	360935	256181	113145	2000	732261
Collieries	12	0	110600	12600	0	0	123200
Electrical Engg.	62	0	17100	129855	0	0	146955
Fertilizer	29	0	448591	129973	185620	0	764184
Food Products	39	0	7970	76607	2800	0	87377
Heavy Engineering	39	0	0	153837	0	0	153837
Iron & Steel (P)	10	0	1305500	40800	0	0	1346300
Iron & Steel (S)	52	0	6500	152586	20200	0	179286
Jute	76	0	20714	183208	0	0	203922
Light Engineering	78	0	2500	204927	0	0	207427
Mineral Oil & Petroleum	21	0	268200	157019	238722	0	663941
Mining & Quarrying	9	0	0	16570	0	0	16570
Miscellaneous	76	0	12758	140867	25000	0	178625
Non-Ferrous	22	0	124600	167908	20000	0	312508
Paper	44	0	331750	97388	0	0	429138
Plastic	1	0	0	12500	4825	0	17325
Rubber	19	0	9000	107521	0	0	116521
Sugar	316	700	660500	198352	500	0	860052
Textile	415	3600	270620	852367	0	0	1126587
<b>Total</b>	<b>1559</b>	<b>4300</b>	<b>5540738</b>	<b>3726662</b>	<b>630812</b>	<b>2000</b>	<b>9904512</b>

P=PRIMARY  
S=SECONDARY

Contd..



TABLE No.29 (Contd.)

**ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1MW & ABOVE)  
INDUSTRYWISE DURING 1992-93**

Name of Industry 1	ENERGY GENERATED (GWH)					
	Hydro 2	Steam 3	Diesel 4	Gas 5	Wind 6	Total 7
Aluminium (P)	0.00	8661.04	0.00	0.00	0.00	8661.04
Aluminium (S)	0.00	208.40	2.46	0.00	0.00	210.86
Automobiles	0.00	0.00	84.38	5.07	0.00	89.45
Cement (P)	0.00	532.00	485.99	0.00	0.00	1017.99
Cement (S)	0.00	3.12	26.31	0.00	0.00	29.43
Chemicals	0.00	1258.00	209.32	705.52	2.18	2175.02
Collieries	0.00	319.88	2.07	0.00	0.00	321.95
Electrical Engg.	0.00	28.55	82.25	0.00	0.00	110.80
Fertilizer	0.00	1958.26	532.01	732.59	0.00	3222.86
Food Products	0.00	10.81	53.39	4.36	0.00	68.56
Heavy Engineering	0.00	0.00	112.51	0.00	0.00	112.51
Iron & Steel (P)	0.00	6338.45	0.31	0.00	0.00	6338.76
Iron & Steel (S)	0.00	0.48	105.33	132.68	0.00	238.49
Jute	0.00	65.44	107.02	0.00	0.00	172.46
Light Engineering	0.00	2.40	108.42	0.00	0.00	110.82
Mineral Oil & Petroleum	0.00	1073.23	71.02	1012.69	0.00	2156.94
Mining & Quarrying	0.00	0.00	10.03	0.00	0.00	10.03
Miscellaneous	0.00	95.58	85.22	160.00	0.00	340.80
Non-Ferrous	0.00	571.30	282.57	0.00	0.00	853.87
Paper	0.00	1290.52	168.97	0.00	0.00	1459.49
Plastic	0.00	0.00	37.88	25.20	0.00	63.08
Rubber	0.00	23.97	112.71	0.00	0.00	136.68
Sugar	0.00	1313.52	380.00	0.00	0.00	1693.52
Textile	16.54	924.94	790.86	0.00	0.00	1732.34
<b>Total</b>	<b>16.54</b>	<b>24679.89</b>	<b>3851.03</b>	<b>2778.11</b>	<b>2.18</b>	<b>31327.75</b>

P=PRIMARY  
S=SECONDARY

Contd..

TABLE No.29(Contd.)

**ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1MW & ABOVE)  
INDUSTRYWISE DURING 1992-93**

(GWH)

Name of Industry	Energy used in station auxiliaries 8	Net energy generation (7-8) 9	Energy sold to utilities 10
Aluminium (P)	849.53	7811.51	730.27
Aluminium (S)	22.90	187.96	0.00
Automobiles	5.45	84.00	0.00
Cement (P)	70.25	947.74	0.00
Cement (S)	1.15	28.28	0.00
Chemicals	100.23	2074.79	102.50
Collieries	30.50	291.45	119.08
Electrical Engg.	7.58	103.22	0.00
Fertilizer	301.15	2921.71	107.60
Food Products	5.20	63.36	0.00
Heavy Engineering	6.11	106.40	0.00
Iron & Steel (P)	1360.16	4978.60	182.80
Iron & Steel (S)	7.15	231.34	0.00
Jute	8.15	164.31	0.00
Light Engineering	4.50	106.32	0.00
Mineral Oil & Petroleum	201.15	1955.79	14.54
Mining & Quarrying	0.16	9.87	0.00
Miscellaneous	18.70	322.10	250.00
Non-Ferrous	70.15	783.72	150.15
Paper	115.35	1344.14	0.00
Plastic	1.89	61.19	0.00
Rubber	8.15	128.53	0.00
Sugar	143.20	1550.32	0.00
Textile	280.80	1451.54	73.44
<b>Total</b>	<b>3619.56</b>	<b>27708.19</b>	<b>1730.38</b>

P=PRIMARY  
S=SECONDARY

Contd..

TABLE No.29 (Contd.)

**ELECTRICITY PRODUCTION AND CONSUMPTION IN SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1MW & ABOVE)  
INDUSTRYWISE DURING 1992-93**

(GWH)

Name of Industry	Energy used in the industry out of self generation (8-9) 11	Energy purchased from Utilities 12	Energy consumed in the industry (11)+(12) 13
Aluminium (P)	7081.24	620.49	7701.73
Aluminium (S)	187.96	107.83	295.79
Automobiles	84.00	474.47	558.47
Cement (P)	947.74	3439.72	4387.46
Cement (S)	28.28	334.01	362.29
Chemicals	1972.29	2692.80	4665.09
Collieries	172.37	487.17	659.54
Electrical Engg.	103.22	710.89	814.11
Fertilizer	2814.11	2655.28	5469.39
Food Products	63.36	237.74	301.10
Heavy Engineering	106.40	644.28	750.68
Iron & Steel (P)	4795.80	3385.72	8181.52
Iron & Steel (S)	231.34	697.55	928.89
Jute	164.31	616.85	781.16
Light Engineering	106.32	766.73	873.05
Mineral Oil & Petroleum	1941.25	424.49	2365.74
Mining & Quarrying	9.87	90.26	100.13
Miscellaneous	72.10	448.46	520.56
Non-Ferrous	633.57	1287.22	1920.79
Paper	1344.14	1115.16	2459.30
Plastic	61.19	111.31	172.50
Rubber	128.53	486.85	615.38
Sugar	1550.32	288.18	1838.50
Textile	1378.10	6098.09	7476.19
<b>Total</b>	<b>25977.81</b>	<b>28221.55</b>	<b>54199.36</b>

P=PRIMARY  
S=SECONDARY

TABLE NO.30

INSTALLED CAPACITY, ELECTRICITY GENERATION AND CONSUMPTION  
IN SELECTED INDUSTRIES (HAVING INSTALLED PLANT CAPACITY  
OF 1 MW AND ABOVE) REGIONWISE/STATEWISE DURING 1992-93

Region State/U.Ts.	Total No. of Industrial units covered	INSTALLED CAPACITY (KW) AS ON 31.3.93					Total
		Hydro	Steam	Diesel	Gas	Wind	
<b>NORTHERN REGION</b>							
Haryana	78	0	74090	220815	20000	0	314905
Himachal Pradesh	3	0	0	12168	0	0	12168
Jammu & Kashmir	2	0	0	2432	0	0	2432
Punjab	68	0	71660	107755	0	0	179415
Rajasthan	82	0	97000	327513	20000	0	444513
Uttar Pradesh	191	700	676500	257835	23400	0	958435
Chandigarh	2	0	0	4510	0	0	4510
Delhi	11	0	48500	14870	0	0	63370
<b>Sub-Total</b>	<b>437</b>	<b>700</b>	<b>967750</b>	<b>947898</b>	<b>63400</b>	<b>0</b>	<b>1979748</b>
<b>WESTERN REGION</b>							
Gujarat	117	0	484757	226345	232275	0	943377
Madhya Pradesh	59	0	567680	161345	34450	0	763475
Maharashtra	197	0	237650	385538	109322	0	732510
Goa	3	0	7500	7156	0	0	14656
Daman & Diu	0	0	0	0	0	0	0
D. & N. Haveli	0	0	0	0	0	0	0
<b>Sub-Total</b>	<b>376</b>	<b>0</b>	<b>1297587</b>	<b>780384</b>	<b>376047</b>	<b>0</b>	<b>2454018</b>
<b>SOUTHERN REGION</b>							
Andhra Pradesh	107	0	520224	285536	6880	0	812640
Karnataka	114	3600	217816	289724	500	0	511640
Kerala	23	0	48648	49118	22000	0	119766
Tamil Nadu	248	0	164100	568286	23965	2000	758351
Pondicherry	8	0	5000	11592	0	0	16592
Lakshdweep	0	0	0	0	0	0	0
<b>Sub-Total</b>	<b>500</b>	<b>3600</b>	<b>955788</b>	<b>1204256</b>	<b>53345</b>	<b>2000</b>	<b>2218989</b>
<b>EASTERN REGION</b>							
Bihar	51	0	782500	144121	2500	0	929121
Orissa	28	0	1088338	142187	30000	0	1260525
West Bengal	153	0	346575	362513	21150	0	730238
A. & N. Islands	1	0	0	1284	0	0	1284
Sikkim	0	0	0	0	0	0	0
<b>Sub-Total</b>	<b>233</b>	<b>0</b>	<b>2217413</b>	<b>650105</b>	<b>53650</b>	<b>0</b>	<b>2921168</b>
<b>NORTH EASTERN REGION</b>							
Assam	12	0	100700	144019	84370	0	329089
Manipur	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	0
Nagaland	1	0	1500	0	0	0	1500
Tripura	0	0	0	0	0	0	0
Arunachal Pradesh	0	0	0	0	0	0	0
Mizoram	0	0	0	0	0	0	0
<b>Sub-Total</b>	<b>13</b>	<b>0</b>	<b>102200</b>	<b>144019</b>	<b>84370</b>	<b>0</b>	<b>330589</b>
<b>Total (All India)</b>	<b>1559</b>	<b>4300</b>	<b>5540738</b>	<b>3726662</b>	<b>630812</b>	<b>2000</b>	<b>9904512</b>

Contd.

TABLE NO.30 (Contd.)

INSTALLED CAPACITY, ELECTRICITY GENERATION AND CONSUMPTION  
IN SELECTED INDUSTRIES (HAVING INSTALLED PLANT CAPACITY  
OF 1 MW AND ABOVE) REGIONWISE/STATEWISE DURING 1992-93 (GWH)

Region State/U.Ts.	ENERGY GENERATION					Total 7	Energy used in station auxiliaries 8
	Hydro 2	Steam 3	Diesel 4	Gas 5	Wind 6		
1	2	3	4	5	6	7	8
<b>NORTHERN REGION</b>							
Haryana	0.00	369.54	247.44	5.07	0.00	622.05	59.95
Himachal Pradesh	0.00	0.00	1.32	0.00	0.00	1.32	0.02
Jammu & Kashmir	0.00	0.00	0.61	0.00	0.00	0.61	0.00
Punjab	0.00	244.92	65.78	0.00	0.00	310.70	43.10
Rajasthan	0.00	457.59	195.25	0.00	0.00	652.84	64.24
Uttar Pradesh	0.00	3792.00	199.61	94.10	0.00	4085.71	411.11
Chandigarh	0.00	0.00	13.36	0.00	0.00	13.36	0.66
Delhi	0.00	164.99	5.26	0.00	0.00	170.25	23.25
<b>Sub-Total</b>	<b>0.00</b>	<b>5029.04</b>	<b>728.63</b>	<b>99.17</b>	<b>0.00</b>	<b>5856.84</b>	<b>602.33</b>
<b>WESTERN REGION</b>							
Gujarat	0.00	1930.10	206.41	1442.50	0.00	3579.01	299.01
Madhya Pradesh	0.00	3165.50	213.07	193.41	0.00	3571.98	364.98
Maharashtra	0.00	770.15	139.14	457.17	0.00	1366.46	77.36
Goa	0.00	56.33	2.06	0.00	0.00	58.39	3.39
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total</b>	<b>0.00</b>	<b>5922.08</b>	<b>560.68</b>	<b>2093.08</b>	<b>0.00</b>	<b>8575.84</b>	<b>744.74</b>
<b>SOUTHERN REGION</b>							
Andhra Pradesh	0.00	1906.01	492.13	37.87	0.00	2436.01	331.01
Karnataka	16.54	520.13	597.96	0.00	0.00	1094.63	66.13
Kerala	0.00	166.43	27.33	112.74	0.00	306.50	50.11
Tamil Nadu	0.00	300.50	1013.08	101.36	2.18	1417.12	111.42
Pondicherry	0.00	11.59	3.53	0.00	0.00	15.12	1.12
Lakshdweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total</b>	<b>16.54</b>	<b>2904.66</b>	<b>2094.03</b>	<b>251.97</b>	<b>2.18</b>	<b>5269.38</b>	<b>559.79</b>
<b>EASTERN REGION</b>							
Bihar	0.00	3024.00	76.46	4.72	0.00	3105.18	494.98
Orissa	0.00	6122.43	104.00	1.06	0.00	6227.49	967.39
West Bengal	0.00	1254.60	205.31	0.00	0.00	1459.91	181.11
A. & N. Islands	0.00	0.00	0.93	0.00	0.00	0.93	0.00
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total</b>	<b>0.00</b>	<b>10401.03</b>	<b>386.70</b>	<b>5.78</b>	<b>0.00</b>	<b>10793.51</b>	<b>1643.48</b>
<b>NORTH EASTERN REGION</b>							
Assam	0.00	421.10	80.99	328.11	0.00	830.20	69.20
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nagaland	0.00	1.98	0.00	0.00	0.00	1.98	0.02
Tripura	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total</b>	<b>0.00</b>	<b>423.08</b>	<b>80.99</b>	<b>328.11</b>	<b>0.00</b>	<b>832.18</b>	<b>69.22</b>
<b>Total (All India)</b>	<b>16.54</b>	<b>24679.89</b>	<b>3851.03</b>	<b>2778.11</b>	<b>2.18</b>	<b>31327.75</b>	<b>3619.56</b>

(Contd.)

TABLE NO.30(Contd.)

(BWH)

	Net generation (7-8)	Energy sold to utilities 10	Energy used in the state out of self- generation (9-10) 11	Energy purchased from utilities 12	Energy consumption in the state (11+12) 13
<b>NORTHERN REGION</b>					
Haryana	562.10	0.00	562.10	456.43	1018.53
Himachal Pradesh	1.30	0.00	1.30	119.95	121.25
Jammu & Kashmir	0.61	0.00	0.61	31.21	31.82
Punjab	267.60	0.00	267.60	1026.22	1293.82
Rajasthan	588.60	0.00	588.60	2130.57	2719.17
Uttar Pradesh	3674.60	0.00	3674.60	1891.76	5566.36
Chandigarh	12.70	0.00	12.70	32.70	45.40
Delhi	147.00	0.00	147.00	82.84	229.84
<b>Sub-Total</b>	<b>5254.51</b>	<b>0.00</b>	<b>5254.51</b>	<b>5771.68</b>	<b>11026.19</b>
<b>WESTERN REGION</b>					
Gujarat	3280.00	386.17	2893.83	3252.09	6145.92
Madhya Pradesh	3207.00	90.00	3117.00	3056.92	6173.92
Maharashtra	1289.10	3.49	1285.61	3553.21	4838.82
Goa	55.00	0.00	55.00	54.17	109.17
Daman & Diu	0.00	0.00	0.00	0.00	0.00
D.& N. Haveli	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total</b>	<b>7831.10</b>	<b>479.66</b>	<b>7351.44</b>	<b>9916.39</b>	<b>17267.83</b>
<b>SOUTHERN REGION</b>					
Andhra Pradesh	2105.00	57.00	2048.00	2114.28	4162.28
Karnataka	1028.50	0.00	1028.50	1305.18	2333.68
Kerala	256.39	0.00	256.39	745.20	1001.59
Tamil Nadu	1305.70	11.19	1294.51	2762.91	4057.42
Pondicherry	14.00	0.00	14.00	72.24	86.24
Lakshdweep	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total</b>	<b>4709.59</b>	<b>68.19</b>	<b>4641.40</b>	<b>6999.81</b>	<b>11641.21</b>
<b>EASTERN REGION</b>					
Bihar	2610.20	2.96	2607.24	2174.83	4782.07
Orissa	5260.10	896.90	4363.20	1410.32	5773.52
West Bengal	1278.80	282.44	996.36	1759.55	2755.91
A.& N. Islands	0.93	0.00	0.93	1.43	2.36
Sikkim	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total</b>	<b>9150.03</b>	<b>1182.30</b>	<b>7967.73</b>	<b>5346.13</b>	<b>13313.86</b>
<b>NORTH EASTERN REGION</b>					
Assam	761.00	0.23	760.77	186.91	947.68
Manipur	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00	0.00
Nagaland	1.96	0.00	1.96	0.00	2.59
Tripura	0.00	0.00	0.00	0.63	0.00
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total</b>	<b>762.96</b>	<b>0.23</b>	<b>762.73</b>	<b>187.54</b>	<b>950.27</b>
<b>Total (All India)</b>	<b>27708.19</b>	<b>1730.38</b>	<b>25977.81</b>	<b>28221.55</b>	<b>54199.36</b>

TABLE No.31  
ENERGY CONSUMPTION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(BWH)

Region	State/U.Ts.	Aluminium (P)	Aluminium (S)	Automobiles
NORTHERN REGION	Haryana	0.00	2.58	102.85
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	28.17
	Rajasthan	0.00	6.33	3.05
	Uttar Pradesh	2670.92	0.00	8.85
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
	Sub-Total	2670.92	8.91	142.92
WESTERN REGION	Gujarat	0.00	0.00	0.00
	Madhya Pradesh	1870.74	0.00	5.11
	Maharashtra	0.00	0.00	271.19
	Goa	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	D. & N.Haveli	0.00	0.00	0.00
	Sub-Total	1870.74	0.00	276.30
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	4.30	31.02
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	44.48
	Pondicherry	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00
	Sub-Total	0.00	4.30	75.50
EASTERN REGION	Bihar	0.00	17.84	0.00
	Orissa	3160.07	247.39	0.00
	West Bengal	0.00	17.35	63.75
	A. & N. Islands	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00
	Sub-Total	3160.07	282.58	63.75
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
	Total (All India)	7701.73	295.79	558.47

P=PRIMARY  
S=SECONDARY

Contd.

TABLE No.31 (Contd.)

ENERGY CONSUMPTION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Cement (P)	Cement (S)	Chemicals	Collieries
NORTHERN REGION	Haryana	61.32	25.12	39.40	0.00
	Himachal Pradesh	107.68	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00
	Punjab	0.00	0.00	44.50	0.00
	Rajasthan	607.00	22.67	34.90	0.00
	Uttar Pradesh	0.00	0.00	129.50	0.00
	Chandigarh	0.00	0.00	11.29	0.00
	Delhi	0.00	0.00	145.75	0.00
	Sub-Total	776.00	47.79	405.34	0.00
WESTERN REGION	Gujarat	297.15	10.13	2095.60	0.00
	Madhya Pradesh	945.50	237.65	310.50	16.36
	Maharashtra	260.51	0.00	590.15	0.00
	Goa	0.00	0.00	79.50	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00	0.00
		Sub-Total	1503.16	247.78	3075.75
SOUTHERN REGION	Andhra Pradesh	721.15	30.33	362.50	432.40
	Karnataka	651.16	0.00	164.00	0.00
	Kerala	0.00	0.00	46.90	0.00
	Tamil Nadu	510.15	6.20	485.60	0.00
	Pondicherry	0.00	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00	0.00
	Sub-Total	1882.46	36.53	1059.00	432.40
EASTERN REGION	Bihar	121.91	0.00	0.00	207.66
	Orissa	84.75	28.70	0.00	0.00
	West Bengal	0.00	1.49	125.00	3.12
	A. & N. Islands	0.00	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00
		Sub-Total	206.66	30.19	125.00
NORTH EASTERN REGION	Assam	19.18	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00
	Sub-Total	19.18	0.00	0.00	0.00
	Total (All India)	4387.46	362.29	4665.09	659.54

P=PRIMARY  
S=SECONDARY

Contd.



TABLE No.31 (Contd.)  
ENERGY CONSUMPTION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(BWH)

Region	State/U.Ts.	Electrical Engineering	Fertilizer	Food Products	Heavy Engineering
NORTHERN REGION	Haryana	28.50	159.74	5.83	0.00
	Himachal Pradesh	0.00	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00
	Punjab	22.94	524.75	105.10	0.00
	Rajasthan	0.00	621.91	0.00	4.34
	Uttar Pradesh	177.50	704.00	49.00	21.65
	Chandigarh	34.11	0.00	0.00	0.00
	Delhi	0.79	0.00	11.80	0.00
	Sub-Total	263.84	2010.40	171.73	25.99
WESTERN REGION	Gujarat	14.16	1498.54	30.90	0.00
	Madhya Pradesh	92.70	102.89	1.03	0.00
	Maharashtra	219.80	212.60	6.85	66.00
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D.& N.Haveli	0.00	0.00	0.00	0.00
	Sub-Total	326.66	1814.03	38.78	66.00
SOUTHERN REGION	Andhra Pradesh	23.36	198.46	30.75	69.50
	Karnataka	90.00	188.85	6.00	77.00
	Kerala	1.05	345.55	0.00	10.19
	Tamil Nadu	54.90	99.40	10.00	30.00
	Pondicherry	0.00	0.00	6.34	0.00
	Lakshadweep	0.00	0.00	0.00	0.00
	Sub-Total	169.31	832.26	53.09	186.69
EASTERN REGION	Bihar	11.56	287.49	0.00	348.32
	Orissa	2.60	266.11	0.00	48.40
	West Bengal	40.14	77.98	37.50	75.28
	A.& N. Islands	0.00	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00
	Sub-Total	54.30	631.58	37.50	472.00
NORTH EASTERN REGION	Assam	0.00	181.12	0.00	0.00
	Manipur	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00	
	Sub-Total	0.00	181.12	0.00	0.00
	Total (All India)	814.11	5469.39	301.10	750.68

Contd.

TABLE No.31 (Contd.)

ENERGY CONSUMPTION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Iron & Steel (P)	Iron & Steel (S)	Jute	Light Engineering
NORTHERN REGION	Haryana	0.00	118.14	0.00	71.20
	Himachal Pradesh	0.00	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00
	Punjab	0.00	7.53	0.00	86.70
	Rajasthan	0.00	68.30	0.00	75.00
	Uttar Pradesh	0.00	129.50	13.13	16.20
	Chandigarh	0.00	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00	0.00
	Sub-Total	0.00	323.47	13.13	249.10
WESTERN REGION	Gujarat	0.00	176.90	0.00	17.15
	Madhya Pradesh	1719.84	89.80	0.00	16.10
	Maharashtra	0.00	90.00	0.00	217.50
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00	0.00
	Sub-Total	1719.84	356.70	0.00	250.75
SOUTHERN REGION	Andhra Pradesh	1093.09	14.98	52.50	0.11
	Karnataka	18.00	6.38	0.00	165.15
	Kerala	0.00	0.00	0.00	15.95
	Tamil Nadu	14.75	55.50	0.00	131.19
	Pondicherry	0.00	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00	0.00
	Sub-Total	1125.84	76.86	52.50	312.40
EASTERN REGION	Bihar	3276.06	120.00	12.07	0.00
	Orissa	1118.35	23.90	3.46	0.00
	West Bengal	941.43	27.96	700.00	60.80
	A. & N. Islands	0.00	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00
	Sub-Total	5335.84	171.86	715.53	60.80
NORTH EASTERN REGION	Assam	0.00	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00	0.00
	Total (All India)	8181.52	928.89	781.16	873.05

P= PRIMARY  
S= SECONDARY

Contd.

TABLE No.31 (Contd.)

ENERGY CONSUMPTION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Mineral Oil & Petroleum	Mining & Quarr- ying	Miscell enous	Non- Ferrous	Paper
NORTHERN REGION	Haryana	0.00	0.00	21.00	0.00	155.40
	Himachal Pradesh	0.00	0.00	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00
	Punjab	0.00	0.00	16.00	0.00	70.77
	Rajasthan	0.00	0.00	3.65	516.17	0.00
	Uttar Pradesh	155.48	0.00	67.50	0.00	154.90
	Chandigarh	0.00	0.00	0.00	0.00	0.00
	Delhi	0.00	0.00	51.50	0.00	0.00
	Sub-Total	155.48	0.00	159.65	516.17	381.07
WESTERN REGION	Gujarat	387.55	0.00	26.74	0.03	5.29
	Madhya Pradesh	34.69	3.44	22.69	64.92	253.87
	Maharashtra	640.15	0.00	65.57	0.00	213.60
	Goa	0.00	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00	0.00
	D.& N.Haveli	0.00	0.00	0.00	0.00	0.00
		Sub-Total	1062.39	3.44	115.00	64.95
SOUTHERN REGION	Andhra Pradesh	8.00	0.00	38.00	440.00	425.15
	Karnataka	0.00	13.92	25.15	114.00	331.25
	Kerala	142.50	13.26	10.45	94.10	201.40
	Tamil Nadu	205.10	3.41	52.80	57.37	223.00
	Pondicherry	0.00	0.00	24.70	0.00	0.00
	Lakshadweep	0.00	0.00	0.00	0.00	0.00
	Sub-Total	355.60	30.59	151.10	705.47	1180.80
EASTERN REGION	Bihar	99.21	45.65	12.75	155.10	0.00
	Orissa	0.00	20.45	25.50	479.10	214.95
	West Bengal	115.06	0.00	54.20	0.00	50.00
	A.& N. Islands	0.00	0.00	2.36	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00	0.00
	Sub-Total	214.27	66.10	94.81	634.20	264.95
NORTH EASTERN REGION	Assam	578.00	0.00	0.00	0.00	159.72
	Manipur	0.00	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00	0.00
	Sub-Total	578.00	0.00	0.00	0.00	159.72
	Total (All India)	2365.74	100.13	520.56	1920.79	2459.30

Contd..

TABLE No.31 (Contd.)

ENERGY CONSUMPTION BY SELECTED INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Plastic	Rubber	Suger	Textile	Total
NORTHERN REGION	Haryana	0.00	35.10	62.35	130.00	1018.53
	Himachal Pradesh	0.00	0.00	0.00	13.57	121.25
	Jammu & Kashmir	0.00	0.00	0.00	31.82	31.82
	Punjab	0.00	15.21	32.15	340.00	1293.82
	Rajasthan	0.00	55.35	10.50	690.00	2719.17
	Uttar Pradesh	0.00	102.03	640.20	526.00	5566.36
	Chandigarh	0.00	0.00	0.00	0.00	45.40
	Delhi	0.00	0.00	0.00	20.00	229.84
	Sub-Total	0.00	207.69	745.20	1751.39	11026.19
WESTERN REGION	Gujarat	8.63	0.00	147.15	1430.00	6145.92
	Madhya Pradesh	0.00	4.59	16.50	365.00	6173.92
	Maharashtra	0.00	98.40	336.50	1550.00	4838.82
	Goa	0.00	29.67	0.00	0.00	109.17
	Daman & Diu	0.00	0.00	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00	0.00	0.00
		Sub-Total	8.63	132.66	500.15	3345.00
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	112.50	109.50	4162.28
	Karnataka	0.00	30.00	175.40	242.10	2333.68
	Kerala	0.00	50.84	4.20	65.20	1001.59
	Tamil Nadu	163.87	139.00	220.70	1550.00	4057.42
	Pondicherry	0.00	0.00	12.70	42.50	86.24
	Lakshadweep	0.00	0.00	0.00	0.00	0.00
		Sub-Total	163.87	219.84	525.50	2009.30
EASTERN REGION	Bihar	0.00	0.00	55.00	11.45	4782.07
	Orissa	0.00	0.00	7.00	46.15	5776.88
	West Bengal	0.00	55.19	0.90	305.40	2752.55
	A. & N. Islands	0.00	0.00	0.00	0.00	2.36
	Sikkim	0.00	0.00	0.00	0.00	0.00
		Sub-Total	0.00	55.19	62.90	363.00
NORTH EASTERN REGION	Assam	0.00	0.00	2.16	7.50	947.68
	Manipur	0.00	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	2.59	0.00	2.59
	Tripura	0.00	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00	0.00
		Sub-Total	0.00	0.00	4.75	7.50
	Total (All India)	172.50	615.38	1839.50	7476.19	54199.36

TABLE No.32

CLASSIFICATION OF CAPTIVE PLANTS OF INDUSTRIES  
(HAVING INSTALLED PLANT CAPACITY OF 1 MW & ABOVE)  
CAPACITYWISE DURING 1992-93

Range of Installed capacity (MW)	No. of generating industries	Installed capacity of the group		Gross energy generation by group	
		Aggregate (MW)	% of Total capacity	Aggregate (GWH)	% of Total generation
Over 1.00 MW & Upto 10.00 MW	1425	3980.63	40.19	4783.26	15.27
Over 10.00 MW & Upto 20.00 MW	68	985.54	9.95	2392.26	7.64
Over 20.00 MW & Upto 30.00 MW	20	532.52	5.38	2018.24	6.44
Over 30.00 MW & Upto 40.00 MW	14	487.95	4.93	1681.44	5.37
Over 40.00 MW & Upto 50.00 MW	11	458.10	4.62	2103.60	6.71
Over 50.00 MW & Upto 100.00 MW	9	624.47	6.30	1720.24	5.49
Over 100.00 MW	12	2835.30	28.63	16628.71	53.08
<b>Total</b>	<b>1559</b>	<b>9904.51</b>	<b>100.00</b>	<b>31327.75</b>	<b>100.00</b>

TABLE NO.33

INSTALLED PLANT CAPACITY AND ELECTRICITY GENERATION BY RAILWAYS  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

Region	State/U.Ts.	INSTALLED PLANT CAPACITY (KW) AS ON 31.3.1993		
		Steam	Diesel	Total
NORTHERN REGION	Haryana	0.00	2900.00	2900.00
	Himachal Pradesh	0.00	0.00	0.00
	Jammu & Kashmir	0.00	300.00	300.00
	Punjab	0.00	2600.00	2600.00
	Rajasthan	2000.00	11853.00	13853.00
	Uttar Pradesh	4500.00	28430.00	32930.00
	Delhi	0.00	1500.00	1500.00
	Sub-Total	6500.00	47583.00	54083.00
WESTERN REGION	Gujarat	2500.00	5250.00	7750.00
	Madhya Pradesh	0.00	9750.00	9750.00
	Maharashtra	0.00	4500.00	4500.00
	Sub-Total	2500.00	19500.00	22000.00
SOUTHERN REGION	Andhra Pradesh	0.00	4500.00	4500.00
	Karnataka	0.00	4180.00	4180.00
	Kerala	0.00	500.00	500.00
	Tamil Nadu	0.00	8320.00	8320.00
	Sub-Total	0.00	17500.00	17500.00
EASTERN REGION	Bihar	2800.00	15650.00	18450.00
	<del>Orissa</del> West Bengal	7160.00	11510.00	18670.00
	Sub-Total	9960.00	27160.00	37120.00
NORTH EASTERN REGION	Assam	0.00	7700.00	7700.00
	Nagaland	0.00	1525.00	1525.00
	Tripura	0.00	100.00	100.00
	Sub-Total	0.00	9325.00	9325.00
	Total (All India)	18760.00	121068.00	140028.00

Contd.

TABLE NO.33 (Contd.)

INSTALLED PLANT CAPACITY AND ELECTRICITY GENERATION BY RAILWAYS  
REGIONWISE/STATEWISE DURING THE YEAR 1992-93

Region	State/U.Ts.	Maximum Demand (KVA)	ELECTY.GENERATION (GWH)			Energy used in Aux. (GWH)
			Steam	Diesel	Total	
NORTHERN REGION	Haryana	2800.00	0.00	0.50	0.50	0.02
	Himachal Pradesh	0.00	0.00	0.00	0.00	0.00
	Jammu & Kashmir	200.00	0.00	0.00	0.00	0.00
	Punjab	2400.00	0.00	0.00	0.00	0.00
	Rajasthan	8600.00	0.00	2.10	2.10	0.08
	Uttar Pradesh	20000.00	0.00	2.55	2.55	0.10
	Delhi	500.00	0.00	0.00	0.00	0.00
	Sub-Total	34500.00	0.00	5.15	5.15	0.20
WESTERN REGION	Gujarat	4200.00	0.00	0.03	0.03	0.00
	Madhya Pradesh	3010.00	0.00	1.37	1.37	0.08
	Maharashtra	2250.00	0.00	0.10	0.10	0.00
	Sub-Total	9460.00	0.00	1.50	1.50	0.08
SOUTHERN REGION	Andhra Pradesh	3350.00	0.00	0.35	0.35	0.01
	Karnataka	2810.00	0.00	0.10	0.10	0.00
	Kerala	200.00	0.00	0.00	0.00	0.00
	Tamil Nadu	4550.00	0.00	0.35	0.35	0.01
	Sub-Total	10910.00	0.00	0.80	0.80	0.02
EASTERN REGION	Bihar	12150.00	0.00	5.96	5.96	0.25
	West Bengal	13550.00	2.00	4.70	6.70	0.50
	Sub-Total	25700.00	2.00	10.66	12.66	0.75
NORTH EASTERN REGION	Assam	5180.00	0.00	3.25	3.25	0.10
	Nagaland	900.00	0.00	0.40	0.40	0.03
	Tripura	0.00	0.00	0.00	0.00	0.00
	Sub-Total	6080.00	0.00	3.65	3.65	0.13
	Total (All India)	86650.00	2.00	21.76	23.76	1.18

TABLE No.34

ZONWISE INSTALLED PLANT CAPACITY AND ELECTRICITY GENERATION BY  
THE RAILWAYS DURING THE YEAR 1992-93

S. Railway No. Zones	INSTALLED CAPACITY (KW)			MAXIMUM DEMAND (KVA)	ELECTRICITY GENERATED (GWH)			ENERGY USED IN AUX. (GWH)
	Steam	Diesel	Total		Steam	Diesel	Total	
1 Central Railways	0	13380	13380	9000	0	0.89	0.89	0.04
2 Eastern Railways	2800	22500	25300	10500	0	5.50	5.50	0.20
3 Northern Railways	2500	25450	27950	21050	0	2.20	2.20	0.10
4 North- Eastern Railways	2000	16010	18010	14100	0	2.10	2.10	0.10
5 North- East Frontier Railways	0	15538	15538	9000	0	6.14	6.14	0.35
6 Southern Railways	0	7000	7000	5000	0	3.20	3.20	0.15
7 South- Central Railways	0	3750	3750	3000	0	0.60	0.60	0.02
8 South- Eastern Railways	7160	3540	10700	6000	2.00	0.53	2.53	0.20
9 Western Railways	4500	13900	18400	9000	0	0.60	0.60	0.02
<b>Total</b>	<b>18960</b>	<b>121068</b>	<b>140028</b>	<b>86650</b>	<b>2.00</b>	<b>21.76</b>	<b>23.76</b>	<b>1.18</b>



## **SECTION V**

### **Electric Power Supply & System Losses**

S E C T I O N - V

ELECTRIC POWER SUPPLY AND SYSTEM LOSSES

During the year 1992-93 gross electricity generation was 301361.72 GWH, out of which 22059.86 GWH representing 7.32% of gross generation was consumed in power station auxiliaries. Thus net generation available at the bus-bar was 279301.86 GWH. Electricity purchased by public Utilities from captive plants was 1730.38 GWH and electricity imported from Nepal & Bhutan was 1351.75 GWH. Thus the total electricity available for supply during the year was 282383.99 GWH as compared to 269136.28 GWH during the year 1991-92.

Electricity sold to various classes of consumers during the year 1992-93 was 220673.60 GWH and electricity exported outside the country i.e. to Nepal and Bhutan was 145.63 GWH. The electricity lost in transformation, transmission and distribution system and electricity unaccounted worked out to 61564.76 GWH representing 21.80% of the total available electricity. Amongst all the regions percentage system losses were maximum in Northern Region i.e. 24.85%. This was followed by North-Eastern Region with 23.12%, Western Region with 20.60%, Eastern Region with 20.59% and Southern Region with 19.43% losses.

The various tables in this Section represent the Regionwise, Statewise and Boardwise, Transmission & distribution losses, transfer of electricity between different systems, electricity consumed in power auxiliaries.

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TABLE No.35

ELECTRICITY GENERATED, PURCHASED, SOLD AND ENERGY  
LOSSES (ALL INDIA UTILITIES) DURING 1992-93

Sl. No.	Item	Energy (GWH)	% age of Item 1
1.	Energy generated (gross) (Utilities)	301361.72	100.00
2.	Energy used in power station auxiliaries	22059.86	7.32
3.	Energy generated (Net) i.e. (1) - (2)	279301.86	92.68
		Percentage of item 1	
4.	Energy purchased from Non-Utilities	1730.38	0.61
5.	Energy imported from other countries (Nepal & Bhutan)	1351.75	0.48
6.	Energy available for supply i.e. (3)+(4)+(5)	282383.99	100.00
7.	Energy sold to ultimate consumers	220673.60	78.15
8.	Energy sold to other countries (Nepal & Bhutan)	145.63	0.05
9.	Total energy sold i.e. (7)+(8)	220819.23	78.20
10.	Energy lost in transformation, transmission and distribution and unaccounted for i.e. (6)-(9)	61564.76	21.80

TABLE NO.36

ENERGY LOST IN TRANSMISSION AND DISTRIBUTION SYSTEM  
REGIONWISE- DURING 1992-93

	Northern Region	Western Region	Southern Region	Eastern Region	North Eastern Region
I. ENERGY GENERATED (NET)	87881.52	89688.69	72464.67	26223.56	3043.42
II. ENERGY PURCHASED					
a) From Non-Utilities	0	479.66	68.19	1182.30	0.23
b) From other Regions	298.39	756.09	355.14	644.19	0
c) From other countries	0	0	0	1351.75	0
Sub-Total	298.39	1235.75	423.33	3178.24	0.23
III. Total Energy available (I+II)	88179.91	90924.44	72888.00	29401.80	3043.65
IV. ENERGY SALES					
a) To Ultimate consumers	65388.61	71358.30	58332.27	23304.48	2289.94
b) To other Region	782.65	833.05	395.99	0	42.12
c) To other Countries	95.00	0	0	42.81	7.82
Sub-Total IV	66266.26	72191.35	58728.26	23347.29	2339.88
V. ENERGY LOST IN TRANSMISSION & DISTRIBUTION & UNACCOUNTED FOR	21913.65	18733.09	14159.74	6054.51	703.77
VI. PERCENTAGE ENERGY LOSS (V/III)	24.85	20.60	19.43	20.59	23.12

NOTE:- (1) Net generation of jointly owned projects have been shown divided between the partner states as per their theoretical shares.

(2) In the case of projects, jointly owned by States of different regions, excess/less drawal of energy than theoretical shares have been treated as inter-regional purchase/sales respectively.

(3) For details of All India Losses please see Table No.35.

TABLE NO.37

ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF ENERGY  
UTILISATION OF ENERGY AND SYSTEM LOSSES  
REGIONWISE/STATEWISE DURING 1992-93

(GWH)

Region	State/U.Ts.	Net Generation in own Power Houses (Other than jointly owned projects & Central Govt.Projects)	ENERGY RECEIVED FROM		
			Jointly owned & Central Govt.projects except BBMB & DVC	Self Gener- ating Indust- ries	From other States inc- luding BBMB & DVC incl- uding from outside the country
1	2	3	4	5	6
NORTHERN REGION	Haryana	3401.30	4245.79	0.00	3427.34
	Himachal Pradesh	1083.58	426.96	0.00	599.16
	Jammu & Kashmir	799.98	2006.70	0.00	100.02
	Punjab	9332.50	3546.49	0.00	5006.00
	Rajasthan	4055.62	6908.91	0.00	3317.08
	Uttar Pradesh	16578.90	13064.14	0.00	58.12
	Chandigarh	0.00	155.81	0.00	474.22
	Delhi	1613.80	8154.23	0.00	451.06
B.B.M.B.	12173.69	0.00	0.00	0.00	
WESTERN REGION	Gujarat	20710.10	4810.79	386.17	225.32
	Madhya Pradesh	10399.17	10542.58	90.00	304.42
	Maharashtra	35709.28	6607.07	3.49	327.00
	Goa	0.00	780.23	0.00	37.70
	Daman & Diu	0.00	120.32	0.00	0.00
	D.& N.Haveli	0.00	197.53	0.00	2.95
SOUTHERN REGION	Andhra Pradesh	16262.64	7848.86	57.00	266.97
	Karnataka	12434.82	3673.76	0.00	6.25
	Kerala	6160.51	1232.78	0.00	5.82
	Tamil Nadu	15930.91	7984.25	11.19	0.00
	Pondicherry	0.00	647.06	0.00	175.20
	Lakshadweep	11.27	0.00	0.00	0.00
EASTERN REGION	Bihar	2585.19	2298.13	2.96	4777.49
	Orissa	5035.86	738.32	896.90	547.99
	West Bengal	9686.97	1301.49	119.08	2444.49
	D.V.C.	4440.69	474.51	163.36	1221.31
	A.& N. Islands	60.42	0.00	0.00	0.00
	Sikkim	38.66	7.59	0.00	17.00
NORTH EASTERN REGION	Assam	970.10	851.13	0.23	195.61
	Manipur	3.51	252.01	0.00	0.00
	Meghalaya	427.78	41.93	0.00	20.40
	Nagaland	3.49	108.76	0.00	11.65
	Tripura	173.06	66.35	0.00	2.01
	Arunachal Pradesh	49.70	5.00	0.00	17.29
Mizoram	18.64	71.96	0.00	1.59	

Contd.

TABLE NO.37 (Contd.)

**ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF ENERGY  
UTILISATION OF ENERGY AND SYSTEM LOSSES  
REGIONWISE/STATEWISE DURING 1992-93** (GWH)

Region	State/U.Ts.	Energy Avail- able in the States (3+4+5+6)	ENERGY SENT OUT TO/ SOLD TO		Total (8+9)
			Other States including outside the country	Ultimate consumers within the State	
		7	8	9	10
NORTHERN REGION	Haryana	11074.43	17.51	8090.93	8108.44
	Himachal Pradesh	2109.70	581.08	1107.06	1688.14
	Jammu & Kashmir	2906.70	2.39	1505.29	1507.68
	Punjab	17884.99	441.16	13937.10	14378.26
	Rajasthan	14281.61	403.75	10635.08	11038.83
	Uttar Pradesh	29701.16	481.55	21889.71	22371.26
	Chandigarh	630.03	5.95	458.96	464.91
	Delhi B.B.M.B.	10219.09 12173.69	0.00 11745.75	7764.48 0.00	7764.48 11745.75
WESTERN REGION	Gujarat	26132.38	329.95	20000.30	20330.25
	Madhya Pradesh	21336.17	465.41	16065.39	16530.80
	Maharashtra	42646.84	326.77	34428.13	34754.90
	Goa	817.93	40.60	598.58	639.18
	Daman & Diu	120.32	0.00	101.47	101.47
	D.& N.Haveli	200.48	0.00	164.43	164.43
SOUTHERN REGION	Andhra Pradesh	24435.47	53.74	19335.57	19389.31
	Karnataka	16114.83	5.83	12947.79	12953.62
	Kerala	7399.11	15.71	5698.39	5714.10
	Tamil Nadu	23926.35	142.00	19644.96	19786.96
	Pondicherry	822.26	0.00	696.40	696.40
	Lakshadweep	11.27	0.00	9.16	9.16
EASTERN REGION	Bihar	9663.77	148.47	7858.41	8006.88
	Orissa	7219.07	30.67	5320.47	5351.14
	West Bengal	13552.03	1145.95	10030.46	11176.41
	D.V.C.	6299.87	6174.33	0.00	6174.33
	A.& N. Islands	60.42	0.00	46.15	46.15
	Sikkim	63.25	0.00	48.99	48.99
NORTH EASTERN REGION	Assam	2017.07	102.83	1482.29	1585.12
	Manipur	255.52	0.00	198.42	198.42
	Meghalaya	490.11	195.61	237.55	433.16
	Nagaland	123.90	0.00	90.13	90.13
	Tripura	241.42	0.05	167.41	167.46
	Arunachal Pradesh	71.99	0.00	48.72	48.72
	Mizoram	92.19	0.00	65.42	65.42

Contd.

TABLE NO.37 (Contd.)

ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF ENERGY UTILISATION OF ENERGY AND SYSTEM LOSSES REGIONWISE/STATEWISE DURING 1992-93		(GWH)	
Region	State/U.Ts.	Transformation, Transmission, Distribution losses & Energy unaccounted for	
		Quantum (7-10)	% of Column 7
NORTHERN REGION	Haryana	2965.99	26.78
	Himachal Pradesh	421.56	19.98
	Jammu & Kashmir	1399.02	48.13
	Punjab	3506.73	19.61
	Rajasthan	3242.78	22.71
	Uttar Pradesh	7329.90	24.68
	Chandigarh	165.12	26.21
	Delhi	2454.61	24.02
	B.B.M.B.	427.94	3.52
	Northern Region	21913.65	24.85
WESTERN REGION	Gujarat	5802.13	22.20
	Madhya Pradesh	4805.37	22.52
	Maharashtra	7891.94	18.51
	Goa	178.75	21.85
	Daman & Diu	18.85	15.67
	D.& N.Haveli	36.05	17.98
	Western Region	18733.09	20.60
SOUTHERN REGION	Andhra Pradesh	5046.16	20.65
	Karnataka	3161.21	19.62
	Kerala	1685.01	22.77
	Tamil Nadu	4139.39	17.30
	Pondicherry	125.86	15.31
	Lakshadweep	2.11	18.72
	Southern Region	14159.74	19.43
EASTERN REGION	Bihar	1656.89	17.15
	Orissa	1867.93	25.87
	West Bengal	2375.62	17.53
	D.V.C.	125.54	1.99
	A.& N. Islands	14.27	23.62
	Sikkim	14.26	22.55
	Eastern Region	6054.51	20.59
NORTH EASTERN REGION	Assam	431.95	21.41
	Manipur	57.10	22.35
	Meghalaya	56.95	11.62
	Nagaland	33.77	27.26
	Tripura	73.96	30.64
	Arunachal Pradesh	23.27	32.32
	Mizoram	26.77	29.04
	North Eastern Region	703.77	23.12
	All India	61564.76	21.80

Note: For details of All India and Regionwise losses refer to Table No.33 & 34 respectively.

TABLE NO.38

**ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF ENERGY  
UTILISATION AND LOSSES BY STATE ELECTRICITY BOARDS  
D.V.C., B.B.M.B. & D.E.S.U. DURING 1992-93 (BWH)**

Region	State/U.Ts.	Net Generation in own Power House (other than jointly owned and Central Govt. Projects)	ENERGY RECEIVED FROM	
			Utilities within State/jointly owned Central Govt. Projects except DVC & BBMB	Other Board/ Electric Under- takings (inclu- ding DVC & BBMB/ Other countries)
	1	2	3	4
NORTHERN REGION	Haryana	3401.30	4245.79	3427.34
	Himachal Pradesh	1083.58	385.05	599.16
	Jammu & Kashmir	799.98	1965.68	100.02
	Punjab	9332.50	3546.49	4812.18
	Rajasthan	4055.62	6788.87	3317.08
	Uttar Pradesh	16578.90	12958.34	58.12
	B.B.M.B. D.E.S.U.	12173.69 1613.80	0.00 8141.75	0.00 451.06
WESTERN REGION	Gujarat	18193.44	4890.26	225.32
	Madhya Pradesh	10399.17	10387.49	304.42
	Maharashtra	28517.64	8833.35	327.00
SOUTHERN REGION	Andhra Pradesh	16262.64	7477.96	266.97
	Karnataka	800.24	15306.02	6.25
	Kerala	6160.51	1232.78	5.82
	Tamil Nadu	15930.91	7244.78	0.00
EASTERN REGION	Bihar	2885.19	2298.13	2444.72
	Orissa	3594.38	2165.94	547.99
	West Bengal	2592.74	4945.23	1074.00
	D.V.C.	4440.69	474.51	1221.31
NORTH EASTERN REGION	Assam	970.10	851.13	195.61
	Meghalaya	427.78	34.93	20.40



TABLE NO.38 (Contd.)

ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF ENERGY  
UTILISATION AND LOSSES BY STATE ELECTRICITY BOARDS  
D.V.C., B.B.M.B. & D.E.S.U. DURING 1992-93 (GWH)

Region	Board/ Undertaking	Energy received from self generating Industries	Energy available for supply (including sales out- side the States (2+3+4+5)	ENERGY SOLD TO	
				Licensees within the State	Other Boards/ Undertakings D.V.C./other countries
		5	6	7	8
NORTHERN REGION	Haryana	0.00	11074.43	0.00	17.51
	Himachal Pradesh	0.00	2067.79	0.00	581.08
	Jammu & Kashmir	0.00	2865.68	54.75	2.39
	Punjab	0.00	17691.17	358.46	441.16
	Rajasthan	0.00	14161.57	90.62	403.75
	Uttar Pradesh	0.00	29595.36	118.00	481.95
	B.B.M.B. D.E.S.U.	0.00 0.00	12173.69 10206.61	0.00 887.00	11745.75 0.00
WESTERN REGION	Gujarat	386.17	23695.19	1224.70	329.95
	Madhya Pradesh	90.00	21181.08	412.31	465.41
	Maharashtra	3.49	37681.48	4594.44	326.77
SOUTHERN REGION	Andhra Pradesh	57.00	24064.57	443.90	53.74
	Karnataka	0.00	16112.51	60.78	5.83
	Kerala	0.00	7399.11	122.00	15.71
	Tamil Nadu	11.19	23186.88	553.00	142.00
EASTERN REGION	Bihar	2.96	7331.00	67.43	146.13
	Orissa	896.90	7205.21	57.79	30.67
	West Bengal	0.00	8611.97	1490.09	369.04
	D.V.C.	163.36	6299.87	0.00	6174.33
NORTH EASTERN REGION	Assam	0.23	2017.07	0.00	102.83
	Meghalaya	0.00	483.11	0.00	195.61

Abbreviations: B.B.M.B.- Bhakra Beas Management Board  
D.E.S.U.- Delhi Electric Supply Undertaking

Contd.

TABLE NO.38 (Contd.)

ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF ENERGY  
UTILISATION AND LOSSES BY STATE ELECTRICITY BOARDS,  
D.V.C., B.B.M.B. & D.E.S.U. DURING 1992-93

(GWH)

Region	Board/ Undertaking	Energy sold to ultimate consumers	Total sold (7+8+9)	Transformation, Trans- mission & Distribution losses and energy unaccounted for	
				(GWH)	% of Col.6
		9	10	11	12
NORTHERN REGION	Haryana	8090.93	8108.44	2965.99	26.78
	Himachal Pradesh	1083.27	1664.35	403.44	19.51
	Jammu & Kashmir	1425.00	1482.14	1383.54	48.28
	Punjab	13488.24	14287.86	3403.31	19.24
	Rajasthan	10446.84	10941.21	3220.36	22.74
	Uttar Pradesh	21765.00	22364.55	7230.81	24.43
	B.B.M.B. D.E.S.U.	0.00 6915.00	11745.75 7802.00	427.94 2404.61	3.52 23.56
WESTERN REGION	Gujarat	16920.95	18475.60	5219.59	22.03
	Madhya Pradesh	15780.96	16658.68	4522.40	21.35
	Maharashtra	26040.95	30962.16	6719.32	17.83
SOUTHERN REGION	Andhra Pradesh	18782.72	19280.36	4784.21	19.88
	Karnataka	12896.51	12963.12	3149.39	19.55
	Kerala	5637.00	5774.71	1624.40	21.95
	Tamil Nadu	18435.00	19130.00	4056.88	17.50
EASTERN REGION	Bihar	5504.90	5718.46	1612.54	22.00
	Orissa	5297.38	5385.84	1819.37	25.25
	West Bengal	4611.30	6470.43	2141.54	24.87
	D.V.C.	0.00	6174.33	125.54	1.99
NORTH EASTERN REGION	Assam	1482.29	1585.12	431.95	21.41
	Meghalaya	230.55	426.16	56.95	11.79

Abbreviations: B.B.M.B.- Bhakra Beas Management Board  
D.E.S.U.- Delhi Electric Supply Undertaking

TABLE NO.39

STATEMENT SHOWING PILFERAGE/MISUSE OF ENERGY AS REPORTED  
BY STATE ELECTRICITY BOARDS DURING 1992-93  
(GWH)

Region	Board	No. of cases where inspections were carried out	No. of cases where theft or misuse was detected	Estimated quantity of energy considered as pilferage or misuse
NORTHERN REGION	Haryana	212022	15790	59.90
	Himachal Pradesh	N.A.	N.A.	N.A.
	Jammu & Kashmir	N.A.	N.A.	N.A.
	Punjab	982253	25324	191.86
	Rajasthan	N.A.	N.A.	N.A.
	Uttar Pradesh	55512	36494	Not assessed
WESTERN REGION	Gujarat	N.A.	N.A.	N.A.
	Madhya Pradesh	N.A.	N.A.	N.A.
	Maharashtra	N.A.	N.A.	N.A.
SOUTHERN REGION	Andhra Pradesh	N.A.	N.A.	N.A.
	Karnataka	23337	2130	N.A.
	Kerala	5818	2263	12.51
	Tamil Nadu	4661114	121430	1.00
EASTERN REGION	Bihar	529	246	0.06
	Orissa	N.A.	N.A.	N.A.
	West Bengal	9926	9249	11.95
NORTH EASTERN REGION	Assam	555	64	N.A.
	Meghalaya	N.A.	N.A.	N.A.

N.A.=Data not available

Contd.

TABLE No.40  
GROSS GENERATION, NET ENERGY GENERATION AND AUXILIARY CONSUMPTION  
(UTILITIES ONLY)PRIMEMOVERWISE/REGIONWISE/STATEWISE DURING 1992-93

Region	Name of the State/U.Ts.	T O T A L			
		Gross Generation (GWH)	Net Generation (GWH)	Auxiliary consumption	
				Total (GWH)	% of Gross Generation
NORTHERN REGION	Haryana	7972.73	7454.77	517.96	6.50
	Himachal Pradesh	1087.40	1083.58	3.82	0.35
	Jammu & Kashmir	800.97	799.98	0.99	0.12
	Punjab	15717.88	14980.89	736.99	4.69
	Rajasthan	8591.85	7984.09	607.76	7.07
	Uttar Pradesh	18167.12	16578.90	1588.22	8.74
	Chandigarh	0.00	0.00	0.00	0.00
	Delhi	2432.37	2189.62	242.75	9.98
	Central Sector	39614.18	36809.69	2804.49	7.08
	Sub-Total	94384.50	87881.52	6502.98	6.89
WESTERN REGION	Gujarat	23044.70	20710.10	2334.60	10.13
	Madhya Pradesh	13259.58	12026.08	1233.50	9.30
	Maharashtra	38607.31	35800.25	2807.06	7.27
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00	0.00
	Central Sector	22841.91	21152.26	1689.65	7.40
	Sub-Total	97753.50	89688.69	8064.81	8.25
SOUTHERN REGION	Andhra Pradesh	18370.78	17406.77	964.01	5.25
	Karnataka	12758.46	12479.68	278.78	2.19
	Kerala	6192.74	6160.51	32.23	0.52
	Tamil Nadu	16958.38	15930.91	1027.47	6.06
	Lakshadweep	11.50	11.27	0.23	2.00
	Pondicherry	0.00	0.00	0.00	0.00
	Central Sector	22691.04	20475.53	2215.51	9.76
	Sub-Total	76982.90	72464.67	4518.23	5.87
EASTERN REGION	Bihar	2967.10	2585.19	381.91	12.87
	Orissa	5422.69	5273.53	149.16	2.75
	West Bengal	11699.67	10533.31	1166.36	9.97
	D.V.C.	5195.41	4440.69	754.72	14.53
	A. & N. Islands	62.22	60.42	1.80	2.89
	Sikkim	42.72	38.66	4.06	9.50
	Central Sector	3692.72	3291.76	400.96	10.86
	Sub-Total	29082.53	26223.56	2858.97	9.83
NORTH EASTERN REGION	Assam	1068.28	970.10	98.18	9.19
	Manipur	3.84	3.51	0.33	8.59
	Meghalaya	430.14	427.78	2.36	0.55
	Nagaland	3.50	3.49	0.01	0.29
	Tripura	176.09	173.06	3.03	1.72
	Arunachal Pradesh	54.00	49.70	4.30	7.96
	Mizoram	19.29	18.64	0.65	3.37
	Central Sector	1403.15	1397.14	6.01	0.43
	Sub-Total	3158.29	3043.42	114.87	3.64
	Total (All India)	301361.72	279301.86	22059.86	7.32

TABLE No.40(Contd.)

Region	Name of the State/U.Ts.	H Y D R O			
		Gross Generation	Net Generation	Auxiliary consumption	
		(GWH)	(GWH)	Total (GWH)	% of Gross Generation
NORTHERN REGION	Haryana	4081.00	3984.09	96.91	2.37
	Himachal Pradesh	1087.39	1083.57	3.82	0.35
	Jammu & Kashmir	765.60	764.61	0.99	0.13
	Punjab	8612.85	8488.84	124.01	1.44
	Rajasthan	3658.69	3556.37	102.32	2.80
	Uttar Pradesh	4150.60	4136.34	14.26	0.34
	Chandigarh	0.00	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00	0.00
	Central Sector	3093.48	3067.62	25.86	0.84
	Sub-Total	25449.61	25081.44	368.17	1.45
WESTERN REGION	Gujarat	659.43	648.50	10.93	1.66
	Madhya Pradesh	1511.91	1504.65	7.26	0.48
	Maharashtra	5102.98	5076.90	26.08	0.51
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	7274.32	7230.05	44.27	0.61
SOUTHERN REGION	Andhra Pradesh	8839.49	8784.26	55.23	0.62
	Karnataka	10026.83	10004.62	22.21	0.22
	Kerala	6192.74	6160.51	32.23	0.52
	Tamil Nadu	5636.26	5618.54	17.72	0.31
	Lakshadweep	0.00	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	30695.32	30567.93	127.39	0.42
EASTERN REGION	Bihar	135.00	134.50	0.50	0.37
	Orissa	4032.58	4016.83	15.75	0.39
	West Bengal	97.79	97.09	0.70	0.72
	D.V.C.	216.78	212.91	3.87	1.79
	A. & N. Islands	0.00	0.00	0.00	0.00
	Sikkim	41.38	37.43	3.95	9.55
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	4523.53	4498.76	24.77	0.55
NORTH EASTERN REGION	Assam	0.00	0.00	0.00	0.00
	Manipur	0.23	0.23	0.00	0.00
	Meghalaya	430.14	427.78	2.36	0.55
	Nagaland	3.50	3.49	0.01	0.29
	Tripura	47.79	47.43	0.36	0.75
	Arunachal Pradesh	39.52	36.33	3.19	8.07
	Mizoram	2.14	2.09	0.05	2.34
	Central Sector	1403.15	1397.14	6.01	0.43
	Sub-Total	1926.47	1914.49	11.98	0.62
	Total (All India)	69869.25	69292.67	576.58	0.83

TABLE No.40 (Contd.)

Region	Name of the State/U.Ts.	S T E A M			
		Gross Generation	Net Generation	Auxiliary consumption	
		(GWH)	(GWH)	Total (GWH)	% of Gross Generation
NORTHERN REGION	Haryana	3891.73	3470.68	421.05	10.82
	Himachal Pradesh	0.00	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00
	Punjab	7105.03	6492.05	612.98	8.63
	Rajasthan	4933.16	4427.72	505.44	10.25
	Uttar Pradesh	14016.52	12442.56	1573.96	11.23
	Chandigarh	0.00	0.00	0.00	0.00
	Delhi	1630.02	1395.29	234.73	14.40
	Central Sector	27022.88	24768.79	2254.09	8.34
	Sub-Total	58599.34	52997.09	5602.25	9.56
WESTERN REGION	Gujarat	21513.13	19210.84	2302.29	10.70
	Madhya Pradesh	11747.67	10521.43	1226.24	10.44
	Maharashtra	30884.48	28117.55	2766.93	8.96
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00	0.00
	Central Sector	19404.19	17922.71	1481.48	7.63
	Sub-Total	83549.47	75772.53	7776.94	9.31
SDUTHERN REGION	Andhra Pradesh	9114.28	8212.35	901.93	9.90
	Karnataka	2731.63	2475.06	256.57	9.39
	Kerala	0.00	0.00	0.00	0.00
	Tamil Nadu	11264.65	10254.90	1009.75	8.96
	Lakshadweep	0.00	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00	0.00
	Central Sector	20713.04	18741.53	1971.51	9.52
	Sub-Total	43823.60	39683.84	4139.76	9.45
EASTERN REGION	Bihar	2832.10	2450.69	381.41	13.47
	Orissa	1390.11	1256.70	133.41	9.60
	West Bengal	11565.08	10399.91	1165.17	10.07
	D.V.C.	4918.30	4168.41	749.89	15.25
	A. & N. Islands	0.00	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00
	Central Sector	3692.72	3291.76	400.96	10.86
	Sub-Total	24398.31	21567.47	2830.84	11.60
NORTH EASTERN REGION	Assam	752.81	670.11	82.70	10.99
	Manipur	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	752.81	670.11	82.70	10.99
	Total (All India)	211123.53	190691.04	20432.49	9.68

TABLE No.40 (Contd.)

Region	Name of the State/U.Ts.	D I E S E L & W I N D			
		Gross Generation (GWH)	Net Generation (GWH)	Auxiliary consumption	
				Total (GWH)	% of Gross Generation
NORTHERN REGION	Haryana	0.00	0.00	0.00	0.00
	Himachal Pradesh	0.01	0.01	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	0.01	0.01	0.00	0.00
WESTERN REGION	Gujarat	**20.64	**18.36	**2.28	11.05
	Madhya Pradesh	0.00	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00	0.00
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	20.64	18.36	2.28	11.05
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00	0.00
	Tamil Nadu	*29.16	* 29.16	0.00	0.00
	Lakshadweep	11.50	11.27	0.23	2.00
	Pondicherry	0.00	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	40.66	40.43	0.23	0.57
EASTERN REGION	Bihar	0.00	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00	0.00
	West Bengal	0.28	0.28	0.00	0.00
	D.V.C.	0.00	0.00	0.00	0.00
	A. & N. Islands	62.22	60.42	1.80	2.89
	Sikkim	1.34	1.23	0.11	8.21
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	63.84	61.93	1.91	2.99
NORTH EASTERN REGION	Assam	0.00	0.00	0.00	0.00
	Manipur	3.61	3.28	0.33	9.14
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	2.00	1.85	0.15	7.50
	Arunachal Pradesh	14.48	13.37	1.11	7.67
	Mizoram	17.15	16.55	0.60	3.50
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	37.24	35.05	2.19	5.88
	Total (All India)	162.39	155.78	6.61	4.07

\*\* Includes wind mill generation of 20.24 GWH & auxiliary consumption of 2.28 GWH.

\* Wind Mill Generation.

TABLE No.40 (Contd.)

Region	Name of the State/U.Ts.	G	A	S	
		Gross	Net	Auxiliary consumption	
		Generation	Generation	Total	% of Gross
		(GWH)	(GWH)	(GWH)	Generation
NORTHERN REGION	Haryana	0.00	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00	0.00
	Jammu & Kashmir	35.37	35.37	0.00	0.00
	Punjab	0.00	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00	0.00
	Delhi	802.35	794.33	8.02	1.00
Central Sector	6726.33	6617.07	109.26	1.62	
	Sub-Total	7564.05	7446.77	117.28	1.55
WESTERN REGION	Gujarat	851.50	832.40	19.10	2.24
	Madhya Pradesh	0.00	0.00	0.00	0.00
	Maharashtra	2619.85	2605.80	14.05	0.54
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00	0.00
	Central Sector	1460.92	1443.98	16.94	1.16
	Sub-Total	4932.27	4882.18	50.09	1.02
SOUTHERN REGION	Andhra Pradesh	417.01	410.16	6.85	1.64
	Karnataka	0.00	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00	0.00
	Tamil Nadu	28.31	28.31	0.00	0.00
	Lakshadweep	0.00	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00	
	Sub-Total	445.32	438.47	6.85	1.54
EASTERN REGION	Bihar	0.00	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00	0.00
	West Bengal	36.52	36.03	0.49	1.34
	D.V.C.	60.33	59.37	0.96	1.59
	A. & N. Islands	0.00	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00	
	Sub-Total	96.85	95.40	1.45	1.50
NORTH EASTERN REGION	Assam	315.47	299.99	15.48	4.91
	Manipur	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	126.30	123.78	2.52	2.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00	
	Sub-Total	441.77	423.77	18.00	4.07
	Total (All India)	13480.26	13286.59	193.67	1.44



TABLE No.40 (Contd.)

Region	Name of the State/U.Ts.	N U C L E A R			
		Gross Generation	Net Generation	Auxiliary consumption	
		(GWH)	(GWH)	Total (GWH)	% of Gross Generation
NORTHERN REGION	Haryana	0.00	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	0.00	0.00
	Jammu & Kashmir	0.00	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00	0.00
Central Sector	2771.49	2356.21	415.28	14.98	
	Sub-Total	2771.49	2356.21	415.28	14.98
WESTERN REGION	Gujarat	0.00	0.00	0.00	0.00
	Madhya Pradesh	0.00	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00	0.00
	Goa	0.00	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00	0.00
	D. & N. Haveli	0.00	0.00	0.00	0.00
	Central Sector	1976.80	1785.57	191.23	9.67
	Sub-Total	1976.80	1785.57	191.23	9.67
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00	0.00
	Lakshadweep	0.00	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00	0.00
	Central Sector	1978.00	1734.00	244.00	12.34
	Sub-Total	1978.00	1734.00	244.00	12.34
EASTERN REGION	Bihar	0.00	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00	0.00
	West Bengal	0.00	0.00	0.00	0.00
	D.V.C.	0.00	0.00	0.00	0.00
	A. & N. Islands	0.00	0.00	0.00	0.00
	Sikkim	0.00	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00	0.00
NORTH EASTERN REGION	Assam	0.00	0.00	0.00	0.00
	Manipur	0.00	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00	0.00
	Tripura	0.00	0.00	0.00	0.00
	Arunachal Pradesh	0.00	0.00	0.00	0.00
	Mizoram	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00	
	Sub-Total	0.00	0.00	0.00	0.00
	Total (All India)	6726.29	5875.78	850.51	12.64

TABLE No.41

SHARE OF PARTICIPATING STATES IN JOINTLY OWNED  
POWER STATIONS DURING 1992-93

Name of the Power Station	Name of the participating States	Share of the Participating State		Total capacity (MW)
		%age	I.C. (MW)	
<b>BHAKRA BEAS MANAGEMENT BOARD</b>				
Bhakra Nagal Complex (Hydro)*	Haryana	33.91	459.34	1354.50
	Punjab	50.87	689.00	
	Rajasthan	15.22	206.16	
Dehar (Hydro)	Haryana	32.00	316.80	990.00
	Punjab	48.00	475.20	
	Rajasthan	20.00	198.00	
Pong (Hydro)	Haryana	16.60	59.76	360.00
	Punjab	24.90	89.64	
	Rajasthan	58.50	210.60	
<b>INDRAPRASTHA EXTN.</b>				
(Steam)	Delhi	66.67	125.00	187.50
	Haryana	33.33	62.50	
<b>CHAMBAL PROJECTS</b>				
Gandhi Sagar (Hydro)	Madhya Pradesh	50.00	57.50	115.00
	Rajasthan	50.00	57.50	
Jawahar Sagar (Hydro)	Madhya Pradesh	50.00	49.50	99.00
	Rajasthan	50.00	49.50	
Rana Pratap Sagar (Hydro)	Madhya Pradesh	50.00	86.00	172.00
	Rajasthan	50.00	86.00	
SATPURA (Steam)	Madhya Pradesh	60.00	187.50	312.50
	Rajasthan	40.00	125.00	
MACHKUND (Hydro)	Andhra Pradesh	70.00	80.33	114.75
	Orissa	30.00	34.42	
TUNGABHADRA DAM & HAMPI (Hydro)	Andhra Pradesh	80.00	57.60	72.00
	Karnataka	20.00	14.40	
PENCH (Hydro)	Madhya Pradesh	66.67	106.66	160.00
	Maharashtra	33.33	53.34	

\* It comprises of capacity of Ganguwal 77.25 MW, Kotla 77.25 MW, Bhakra left bank 540.00 MW & Bhakra right bank 660.00 MW.

I.C = Installed Capacity

TABLE No.41 (Contd.)

SHARE OF PARTICIPATING STATES IN JOINTLY OWNED  
POWER STATIONS DURING 1992-93

(GWH)

Name of the Power Station	Energy generated		Energy offtake by states**	
	Gross	net		
<b>B.B.M.B</b>				
Bhakra Nagal Complex (Hydro)	7005.56	6912.25	Haryana S.E.B. Punjab S.E.B.	3312.55 4749.86
Dehar (Hydro)	3651.62	3559.19	Rajasthan Jammu & Kashmir	2702.35 65.52
Pong (Hydro)	1811.06	1702.25	Irrigation Wing N.F.F. Chandigarh Himachal Pradesh B.B.M.B. (System Losses)	40.22 153.60 459.12 262.53 427.94
<b>INDRAPRASTHA EXTN.</b>				
(Steam) (Unit 2,3,4)	959.65	863.69	Delhi Haryana	575.82 287.87
<b>CHAMBAL PROJECTS</b>				
Gandhi Sagar (Hydro)	313.02	312.18	Madhya Pradesh	1444.95
Jawahar Sagar (Hydro)	391.30	388.50	Rajasthan	1168.77
Rana Pratap Sagar (Hydro)	535.98	532.12		
<b>SATPURA</b>				
(Steam)	1538.84	1380.92		
<b>MACHKUND (Hydro)</b>				
	794.59	792.22	Andhra Pradesh Orissa	(A) 414.57 377.65
<b>TUNGABHADRA DAM &amp; HAMPI (Hydro)</b>				
	225.16	224.28	Andhra Pradesh Karnataka	(B) 174.20 50.08
<b>PENCH (Hydro)</b>				
	273.24	272.93	Madhya Pradesh Maharashtra	181.96 90.97

Note: \*\* Including losses excluding B.B.M.B. System.  
 B.B.M.B.-means Bhakra Beas Management Board.  
 N.F.F.- Nangal Fertilizer Factory.  
 (A)- Includes colony consumption of 5.98 GWH  
 (B)- Includes colony consumption of 4.70 GWH

TABLE No.42

INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT BY CENTRAL  
GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS DURING 1992-93

Name of the Power Station	Installed capacity (MW)	Energy generated (GWH)		Offtake by state including losses (GWH)	
		Gross	Net		
Dadri (Gas)	524.00	1484.58	1475.36	H.S.E.B.	251.40
				H.P.S.E.B.	10.50
				J&K S.E.B.	48.20
				P.S.E.B.	98.30
				R.S.E.B.	348.30
				U.P.S.E.B.	572.66
				Chandigarh	0.50
D.E.S.U.	145.50				
National Capital T.P.P.	630.00	451.14	397.54	H.S.E.B.	152.20
				H.P.S.E.B.	0.90
				J&K S.E.B.	12.30
				P.S.E.B.	9.90
				R.S.E.B.	142.30
				U.P.S.E.B.	65.74
				D.E.S.U.	14.20
Tanakpur (Hydro)	120.00	164.56	163.45	H.S.E.B.	39.66
				H.P.S.E.B.	0.32
				J&K S.E.B.	5.17
				P.S.E.B.	6.56
				R.S.E.B.	30.94
				U.P.S.E.B.	(6)71.27
				D.E.S.U.	9.52
Chandigarh	0.01				

TABLE No.42(Contd.)

INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT BY CENTRAL  
GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS DURING 1992-93

Name of the Power Station	Installed capacity (MW)	Energy generated (GWH)		Offtake by states including losses (GWH)	
		Gross	Net		
Badarpur Thermal Power station	720.00	4575.97	4094.22	Delhi	(A)4094.22
Baira Siul (Hydro)	180.00	830.01	826.26	Delhi	86.28
				H.P.	(B)128.19
				Haryana	243.15
				Punjab	368.64
Singrauli (STPS)	2050.00	13503.22	12492.32	J.&.K	326.97
				H.S.E.B.	1406.76
				R.S.E.B.	2133.20
				D.E.S.U.	1517.87
				U.P.	(C)5444.41
				H.P.	36.00
				Chandigarh	45.15
				P.S.E.B.	1317.38
				B.S.E.B.	0.49
				Western Grid	264.09
Salal ( Hydro)	460.00	2098.91	2077.91	P.S.E.B.	661.99
				H.S.E.B.	413.49
				D.E.S.U.	248.50
				J.&.K	(D)753.93
Rihand (STPS)	1000.00	6472.55	5927.71	H.S.E.B.	501.00
				H.P.S.E.B.	220.00
				J.&.K	559.00
				P.S.E.B.	647.00
				R.S.E.B.	746.00
				U.P.S.E.B.	(E)2367.71
				D.E.S.U.	810.00
				Chandigarh	77.00
R.A.P.P. (Nuclear)	440.00	1003.08	851.43	Rajasthan	(F)851.43
Unchahar (Steam)	420.00	2020.00	1857.00	U.P.	1857.00

TABLE No.42(Contd.)

INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT BY CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS DURING 1992-93

Name of the Power Station	Installed capacity (MW)	Energy generated (GWH)		Dfftake by states including losses (GWH)	
		Gross	Net		
Anta (Gas)	413.00	2053.48	2006.80	H.S.E.B.	242.00
				H.P.S.E.B.	14.00
				J.&K S.E.B.	106.00
				P.S.E.B.	122.00
				R.S.E.B.	428.80
				U.P.S.E.B.	778.00
				D.E.S.U.	182.00
				Chandigarh	7.00
B.S.E.B.	127.00				
Auraiya (Gas)	652.00	3188.27	3134.91	H.S.E.B.	384.85
				H.P.S.E.B.	10.55
				J.&K S.E.B.	124.77
				P.S.E.B.	180.88
				R.S.E.B.	637.72
				U.P.S.E.B.	1353.81
				D.E.S.U.	281.33
				Chandigarh	5.92
B.S.E.B.	155.08				
N.A.P.P.(Nuclear)	455.00	1768.41	1504.78	H.S.E.B.	301.34
				H.P.S.E.B.	4.43
				J.&K S.E.B.	60.29
				P.S.E.B.	101.95
				R.S.E.B.	394.73
				U.P.S.E.B.	514.54
				D.E.S.U.	127.28
				Chandigarh	0.22
T.A.P.P.(Nuclear)	420.00	1935.00	1751.00	G.E.B.	875.50
				M.S.E.B.	875.50
Kawas CCGT (Gas)	644.00	1460.92	1443.98	G.E.B.	(H)325.88
				M.P.E.B.	651.10
				M.S.E.B.	440.50
				Goa	2.30
				Daman & Diu	10.00
D.N.H.	14.20				
Kakrapar (Nuclear)	220.00	41.80	34.57	G.E.B.	1.41
				M.P.E.B.	19.48
				M.S.E.B.	12.10
				Goa	0.93
				Daman & Diu	0.32
D.N.H.	0.33				

TABLE No.42(Contd.)

INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT BY CENTRAL  
GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS DURING 1992-93

Name of the Power Station	Installed capacity (MW)	Energy generated (GWH)		Offtake by states including losses (GWH)
		Gross	Net	
			@@	
Korba & V.S.T.P.S	3390.00	19404.19	17922.71	M.P.E.B. (I)8245.09 M.S.E.B. 5188.00 G.E.B. 3608.00 Goa 551.00 D.& N Haveli 183.00 Daman & Diu 110.00 H.S.E.B. 22.07 H.P.S.E.B. 2.07 J.&K S.E.B. 10.07 P.S.E.B. 31.89 R.S.E.B. 26.72 U.P.S.E.B. 39.00 D.E.S.U. 61.71 Chandigarh 20.01 A.P.S.E.B. 88.17
Ramagundam S.T.P.S.	2100.00	12384.10	11355.18	A.P.S.E.B. (K)4309.18 K.E.B. 2314.00 K.S.E.B. 789.00 T.N.E.B. 3308.00 Goa 226.00 Pondicherry 409.00
Neyveli-I (Steam)	600.00	2831.36	2492.95	Tamil Nadu (J)2492.95
Neyveli-II(Steam)	1260.00	5497.58	4893.40	A.P.S.E.B. 1808.92 K.E.B. 970.24 K.S.E.B. 314.80 Tamil Nadu (L)1623.01 Pondicherry 176.43
Kalpakkam (Nuclear)	470.00	1978.00	1734.00	A.P.S.E.B. 643.66 K.E.B. 339.44 K.S.E.B. 128.98 Tamil Nadu (M)560.29 Pondicherry 61.63
A.P.Gas Power Corporation	99.00	417.01	410.16	A.P.S.E.B. (N)410.16

TABLE No.42(Contd.)

INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT BY CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS DURING 1992-93

Name of the Power Station	Installed capacity (MW)	Energy generated (GWH)		Offtake by states including losses (GWH)
		Gross	Net	
Rengali (Hydro)	250.00	572.47	570.62	O.S.E.B. 570.62
Upper Kolab(Hydro)	320.00	872.55	870.86	O.S.E.B. 870.86
Durgapur Projects Ltd. (Steam)	395.00	978.56	846.34	W.B S.E.B. (D)846.34
Kolaghat (Steam) (W.B.P.D.C.)	840.00	4293.74	3876.14	W.B S.E.B. 3876.14
D.V.C. @	2241.50	5195.41	4440.69	O.S.E.B. 90.28 Bihar (P)4012.63 West Bengal (Q)2071.42
Farakka S.T.P.S.	1130.00	3692.72	3291.76	Bihar 2015.56 Orissa 360.67 West Bengal (R) 455.15 D.V.C. 452.79 Sikkim 7.59
Kahalgaon(Steam)	210.00	0.00	0.00	0.00
Kopili & Khandong (N.E.E.P.Co.)	150.00	857.59	855.26	@ Assam 615.25 Manipur 50.01 Meghalaya (S)41.93 Nagaland 51.76 Tripura 44.35 Mizoram 42.45 Arunachal 29.51 Pradesh
Loktak (Hydro)	105.00	545.56	541.88	Assam S.E.B. 235.88 Manipur 202.00 Nagaland 57.00 N.E.E.P.Co. 20.00 Tripura 22.00 Arunachal 5.00 Pradesh
Hoz Basti (Micro-Hydel)N.E.E.P.Co.	0.01	0.00	0.00	0.00

NOTE: @ - D.V.C. is owned by three partners viz. Central Govt., Bihar Govt. and West Bengal Govt.

@@ - Net generation does not tally with the total energy offtake by States as it includes energy purchased.



TABLE NO.42 (Contd.)

- (A) Includes 12.48 GWH of colony consumption
- (B) Includes colony consumption & sales to Chamera Hydro Electric Project of 23.79 GWH.
- (C) Includes construction & colony consumption of 21.55 GWH.
- (D) Includes colony consumption of 41.02 GWH.
- (E) Includes colony consumption of 8.98 GWH.
- (F) Includes Heavy Water Plant consumption of 118.24 GWH.
- (G) Includes colony consumption of 2.63 GWH.
- (H) Includes colony consumption of 0.88 GWH.
- (I) Includes colony & construction & B.C.P.P. consumption of 50.00 GWH.
- (J) Includes energy consumed by Neyveli Lignite Corporation within works of 467.95 GWH.
- (K) Includes colony consumption of 14.18 GWH.
- (L) Includes 228.89 GWH energy used in Neyveli mines.
- (M) Includes 42.63 GWH energy used for I.G.C.A.R.
- (N) Includes energy sold to industrial units of 304.44 GWH.
- (O) Includes energy sales to direct consumers of 236.79 GWH.
- (P) Includes 2311.51 GWH energy direct sales by DVC to ultimate consumers in Bihar area.
- (Q) Includes 581.25 GWH energy direct sales by D.V.C. to ultimate consumers in West Bengal area.
- (R) Includes colony consumption of 15.00 GWH.
- (S) Includes colony consumption of 7.00 GWH.

TABLE NO.43

STATEMENT SHOWING INTERSTATE TRANSFER OF ENERGY  
REGIONWISE/STATEWISE DURING 1992-93

Name of the supplier	Name of the Purchaser	Energy Transferred (GWH)
<b>NORTHERN REGION</b>		
Haryana S.E.B.	Himachal Pradesh S.E.B.	14.90
Haryana S.E.B.	Rajasthan S.E.B.	2.61
Himachal Pradesh S.E.B.	Haryana S.E.B.	35.47
Himachal Pradesh S.E.B.	Rajasthan S.E.B.,	230.48
Himachal Pradesh S.E.B.	U.P.S.E.B.	5.23
Himachal Pradesh S.E.B.	D.E.S.U.	309.90
J&K S.E.B.	Rajasthan S.E.B.	2.39
Punjab S.E.B.	Haryana S.E.B.	79.32
Punjab S.E.B.	Himachal Pradesh S.E.B.	55.74
Punjab S.E.B.	J&K S.E.B.	2.90
Punjab S.E.B.	Rajasthan S.E.B.	259.95
Punjab S.E.B.	U.P.S.E.B.	5.53
Punjab S.E.B.	Chandigarh	6.25
Punjab S.E.B.	D.E.S.U.	31.47
Rajasthan S.E.B.	Himachal Pradesh S.E.B.	3.99
Rajasthan S.E.B.	Chandigarh	8.85
Rajasthan S.E.B.	J&K S.E.B.	31.60
Rajasthan S.E.B.	Punjab S.E.B.	29.26
Rajasthan S.E.B.	U.P.S.E.B.	46.37
Rajasthan S.E.B.	D.E.S.U.	109.69
U.P.S.E.B.	Himachal Pradesh S.E.B.	262.00
U.P.S.E.B.	Punjab S.E.B.	31.00
U.P.S.E.B.	Rajasthan S.E.B.	31.55
Chandigarh	Punjab S.E.B.	2.06
Chandigarh	Rajasthan S.E.B.	3.89
<b>WESTERN REGION</b>		
Gujarat Elec. Board	Maharashtra S.E.B.	327.00
Gujarat Elec. Board	Dadra & Nagar Haveli	2.95
Maharashtra S.E.B.	Gujarat Elec. Board	225.32
Maharashtra S.E.B.	Madhya Pradesh E.B.	38.43
Maharashtra S.E.B.	Goa	37.69
<b>SOUTHERN REGION</b>		
Andhra Pradesh S.E.B.	Karnataka Elec. Board	6.25
Andhra Pradesh S.E.B.	Pondicherry	17.49
Karnataka Elec. Board	Kerala S.E.B.	5.82
Kerala S.E.B.	Pondicherry	15.71
Tamil Nadu S.E.B.	Pondicherry	142.00

TABLE NO.43 (Contd.)

STATEMENT SHOWING INTERSTATE TRANSFER OF ENERGY  
REGIONWISE/STATEWISE DURING 1992-93

Name of the Supplier	Name of the Purchaser	Energy Transferred (GWH)
<b>EASTERN REGION</b>		
Bihar S.E.B.	Orissa S.E.B.	19.01
Bihar S.E.B.	Damodar Valley Corp.	87.65
Orissa S.E.B.	Damodar Valley Corp.	30.47
Orissa S.E.B.	Bihar S.E.B.	0.20
West Bengal S.E.B.	Bihar S.E.B.	291.86
West Bengal S.E.B.	Damodar Valley Corp.	775.91
West Bengal S.E.B.	Orissa S.E.B.	77.19
Damodar Valley Corp.	Orissa S.E.B.	90.28
Damodar Valley Corp.	Bihar S.E.B.	1679.86
Damodar Valley Corp.	West Bengal S.E.B. & D.P.L.	765.70
Damodar Valley Corp.	Licenseses in W. Bengal	713.71
Damodar Valley Corp.	N.T.P.C.	10.76
Damodar Valley Corp.	F.C.I.	18.92
<b>NORTH EASTERN REGION</b>		
Assam S.E.B.	Meghalaya S.E.B.	20.40
Assam S.E.B.	Nagaland	11.65
Assam S.E.B.	Tripura	2.01
Assam S.E.B.	Arunachal Pradesh	17.29
Assam S.E.B.	Mizoram	1.54
Meghalaya S.E.B.	Assam S.E.B.	195.61
Tripura	Mizoram	0.05
<b>INTER - REGIONAL TRANSFERS OF ENERGY</b>		
<b>NORTHERN REGION</b>		<b>WESTERN REGION</b>
Rajasthan S.E.B.	M.P.Elecy.Board	173.99
U.P.S.E.B.	M.P.Elecy.Board	62.00
<b>WESTERN REGION</b>		<b>NORTHERN REGION</b>
M.P.Elecy.Board	Rajasthan S.E.B.	83.86
M.P.Elecy.Board	U.P.S.E.B.	0.99
<b>WESTERN REGION</b>		<b>SOUTHERN REGION</b>
M.P.Elecy.Board	Andhra Pradesh S.E.B.	201.04
Maharashtra S.E.B.	Andhra Pradesh S.E.B.	25.33
Goa	Andhra Pradesh S.E.B.	40.60
<b>WESTERN REGION</b>		<b>EASTERN REGION</b>
M.P.Elecy.Board	Orissa S.E.B.	179.52
<b>SOUTHERN REGION</b>		<b>WESTERN REGION</b>
Andhra Pradesh S.E.B.	M.P.Elecy.Board	30.00
Karnataka E.Board	Goa	0.01
<b>NORTH EASTERN REGION</b>		<b>EASTERN REGION</b>
Assam S.E.B.	West Bengal S.E.B.	32.07
Assam S.E.B.	Bihar S.E.B.	10.05

TABLE NO.43 (Contd.)

STATEMENT SHOWING INTERSTATE TRANSFER OF ENERGY  
REGIONWISE/STATEWISE DURING 1992-93

Name of the Supplier	Name of the Purchaser	Energy Transferred (GWH)
<b>OUTSIDE THE COUNTRY</b>		
Uttar Pradesh S.E.B.	Nepal	95.00
Bihar S.E.B.	Nepal	41.81
West Bengal S.E.B.	Bhutan	1.00
Assam S.E.B.	Bhutan	7.82
Nepal & Gandak Project	Bihar S.E.B.	48.75
Bhutan	D.V.C.	349.00
Bhutan	Bihar S.E.B.	414.00
Bhutan	West Bengal S.E.B.	341.00
Bhutan	Sikkim	17.00
Bhutan	Orissa S.E.B.	182.00

Note:- 1) D.V.C. is being treated as a separate entity for the purpose of this table.

2) Energy sent out to various States from jointly owned projects have been shown in Table No.39.

## **SECTION VI**

### **Operating Data (Utilities)**

SECTION -VI  
-----OPERATING DATA (UTILITIES)  
-----

The coal consumption by various steam stations in the country during the year 1992-93 was 141.09 million metric tonnes as compared to 133.68 million metric tonnes during the previous year indicating an increase of 5.53%. The consumption of fuels viz. lignite, increased by 1.23% only whereas consumption of fuel viz. Furnace oil, Diesel oil, Natural Gas, Refinery Gas and L.S.H.S. decreased by 4.36%, 21.04%, 19.00%, 20.37% and 5.04% respectively. Total fuel consumption for steam power station (i.e.) coal equivalent assuming average calorific value as 9000 K.Cal./Kg.) increased by 8.84% in 1992-93 as against 7.08% increase in steam generation. The average heat rate for all the power stations was 2781 K.Cal./Kwh. in 1992-93 as compared to 2736 K.Cal./Kwh. in previous year.

Out of 104 steam power stations, 20 power stations having aggregate installed capacity of 3076.38 MW representing 6.60% of total installed capacity of steam stations reported an overall thermal efficiency below 20%. This group of stations produced 3305.09 Gwh i.e. 1.57% of total steam generation.

12 power stations with an aggregate installed capacity of 3872.50 MW reported an overall thermal efficiency ranging between 20% to 25% and generated 12732.22 Gwh. i.e. 6.03% of total steam generation. 30 power stations with aggregate capacity of 10859.10 MW had an overall thermal efficiency in the range of 25% to 30% and produced 42852.91 Gwh representing 20.29% of total steam generation. 42 power stations with aggregate capacity of 28789.00 MW reported an overall thermal efficiency above 30% and generated 152233.31 Gwh which represents 72.11% of total steam generation during 1992-93. Thus nearly 92% of the total steam generation was from the steam plants having an overall thermal efficiency of above 25% in 1992-93.

This Section depicts the statewide and regionwise picture of fuel consumption by various types of plants. Two tables, one showing the manpower engaged in various State Electricity Boards and the other indicating the simultaneous Peak Demand in various regions are also given in this Section.

TABLE NO.44  
CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION  
FROM THERMAL STATIONS (BY KIND OF FUELS)  
REGIONWISE/STATEWISE DURING 1992-93

State/U.Ts.	S T E A M   S T A T I O N S		
	COAL (MT)	LIGNITE (MT)	FURNACE OIL (KL)
Haryana	2848468	0	8162
Himachal Pradesh	0	0	0
Jammu & Kashmir	0	0	0
Punjab	4957983	0	5869
Rajasthan	2961308	0	3225
Uttar Pradesh	11514225	0	51264
Chandigarh	0	0	0
Delhi	1493723	0	45837
Central Sector	17448511	0	51606
<b>Sub-Total</b>	<b>41224218</b>	<b>0</b>	<b>165963</b>
Gujarat	11261251	452396	31328
Madhya Pradesh	10368056	0	158535
Maharashtra	19905856	0	101995
Goa	0	0	0
Daman & Diu	0	0	0
D. & N Haveli	0	0	0
Central Sector	13140424	0	33802
<b>Sub-Total</b>	<b>54675587</b>	<b>452396</b>	<b>325660</b>
Andhra Pradesh	7672507	0	24506
Karnataka	1938302	0	2371
Kerala	0	0	0
Tamil Nadu	8591131	0	36840
Pondicherry	0	0	0
Lakshadweep	0	0	0
Central Sector	8025845	10178906	39772
<b>Sub-Total</b>	<b>26227785</b>	<b>10178906</b>	<b>103489</b>
Bihar	2551782	0	2642
Orissa	1407450	0	8547
West Bengal	7534398	0	9631
D.V.C.	3782076	0	114646
A.& N. Islands	0	0	0
Sikkim	0	0	0
Central Sector	3380033	0	0
<b>Sub-Total</b>	<b>18655739</b>	<b>0</b>	<b>135466</b>
Assam	305178	0	45668
Manipur	0	0	0
Meghalaya	0	0	0
Nagaland	0	0	0
Tripura	0	0	0
Arunachal Pradesh	0	0	0
Mizoram	0	0	0
Central Sector	0	0	0
<b>Sub-Total</b>	<b>305178</b>	<b>0</b>	<b>45668</b>
<b>Total (All India)</b>	<b>141088507</b>	<b>10631302</b>	<b>776246</b>

M.T. = Metric Tonnes.  
K.L. = Kilo Litres.

Contd.

TABLE NO.44 (Contd.)

		S T E A M   S T A T I O N S		
Region	State/U.Ts.	LIGHT DIESEL OIL/HSD (KL)	LSHS/HHS* (KL)	NATURAL GAS (M.Cu.Mts.)
NORTHERN REGION	Haryana	4218	36824	0
	Himachal Pradesh	0	0	0
	Jammu & Kashmir	0	0	0
	Punjab	3349	13565	0
	Rajasthan	1152	11974	0
	Uttar Pradesh	39338	(A) 1882	0
	Chandigarh.	0	0	0
	Delhi	1758	0	0
	Central Sector	4801	4225	0
	Sub-Total	54616	68470	0
WESTERN REGION	Gujarat	12238	740065	(D) 189.52
	Madhya Pradesh	14679	2094	0.00
	Maharashtra	(B) 209491	796732	(C) 495082.00
	Goa	0	0	0.00
	Daman & Diu	0	0	0.00
	D. & N Haveli	0	0	0.00
	Central Sector	1302	0	0.00
	Sub-Total	49168	1538891	495271.52
SOUTHERN REGION	Andhra Pradesh	(B) 3138	0	0.00
	Karnataka	92	0	0.00
	Kerala	0	0	0.00
	Tamil Nadu	3130	4095	0.00
	Pondicherry	0	0	0.00
	Lakshadweep	0	0	0.00
	Central Sector	3190	21034	0.00
	Sub-Total	9550	25129	0.00
EASTERN REGION	Bihar	26791	10973	0.00
	Orissa	3832	0	0.00
	West Bengal	78427	0	0.00
	D.V.C.	0	0	0.00
	A.& N. Islands	0	0	0.00
	Sikkim	0	0	0.00
	Central Sector	11409	0	0.00
	Sub-Total	120459	10973	0.00
NORTH EASTERN REGION	Assam	3865	66891	0.00
	Manipur	0	0	0.00
	Meghalaya	0	0	0.00
	Nagaland	0	0	0.00
	Tripura	0	0	0.00
	Arunachal Pradesh	0	0	0.00
	Mizoram	0	0	0.00
Central Sector	0	0	0.00	
	Sub-Total	3865	66891	0.00
	Total (All India)	237658	1710354	495271.52

Note:- (A):-Heavy Petroleum Stock.  
(B):-Includes 680 K.L. Superior Kerosene oil  
(C):-Refinery gas in Metric Tonnes.  
(D):-Includes Million Cu. Mts. of Natural Gas.

Contd.



TABLE NO.44(Contd.)  
 CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION  
 FROM THERMAL STATIONS (BY KIND OF FUELS)  
 REGIONWISE/STATEWISE DURING 1992-93

		S T E A M S T A T I O N S		
Region	State/U.Ts.	HEAT INPUT (K.Cal.x 1000,000,000)	GROSS GENERATION (GWH)	AVERAGE HEAT INPUT (K.Cal./Kwh)
NORTHERN REGION	Haryana	12508.74	3571.88	3502
	Himachal Pradesh	0.00	0.00	0
	Jammu & Kashmir	0.00	0.00	0
	Punjab	19316.25	7105.03	2718
	Rajasthan	12101.23	4317.62	2802
	Uttar Pradesh	38408.92	14016.52	2740
	Chandigarh	0.00	0.00	0
	Delhi	6545.02	1949.87	3357
	Central Sector	68455.88	27022.88	2533
	Sub-Total	157336.04	57983.80	2574
WESTERN REGION	Gujarat	59709.58	21513.13	2775
	Madhya Pradesh	35592.04	12363.21	2878
	Maharashtra	86451.93	30884.48	2799
	Goa	0.00	0.00	0
	Daman & Diu	0.00	0.00	0
	D. & N Haveli	0.00	0.00	0
	Central Sector	48898.93	19404.19	2520
	Sub-Total	230652.48	84165.01	2740
SOUTHERN REGION	Andhra Pradesh	25723.57	9114.28	2822
	Karnataka	6121.12	2731.63	2240
	Kerala	0.00	0.00	0
	Tamil Nadu	30246.25	11264.65	2685
	Pondicherry	0.00	0.00	0
	Lakshadweep	0.00	0.00	0
	Central Sector	54035.46	20713.04	2608
	Sub-Total	116126.40	43823.60	2649
EASTERN REGION	Bihar	9995.66	2832.10	3529
	Orissa	5817.51	1390.11	4184
	West Bengal	37022.82	11565.08	3176
	D.V.C.	17950.93	4918.30	3649
	A.& N. Islands	0.00	0.00	0
	Sikkim	0.00	0.00	0
	Central Sector	9806.96	3692.72	2655
	Sub-Total	80593.88	24398.31	3301
NORTH EASTERN REGION	Assam	2499.54	752.81	3320
	Manipur	0.00	0.00	0
	Meghalaya	0.00	0.00	0
	Nagaland	0.00	0.00	0
	Tripura	0.00	0.00	0
	Arunachal Pradesh	0.00	0.00	0
	Mizoram	0.00	0.00	0
	Central Sector	0.00	0.00	0
	Sub-Total	2499.54	752.81	3320
	Total (All India)	587208.34	211123.53	2781

Contd.

TABLE NO.44 (Contd.)

		G A S S T A T I O N S	
Region	State/U.Ts.	Natural Gas (Million Cu.Mts.)	Generation (GWH)
NORTHERN REGION	Haryana	0.00	0.00
	Himachal Pradesh	0.00	0.00
	Jammu & Kashmir	*** 13607.00	35.37
	Punjab	0.00	0.00
	Rajasthan	0.00	0.00
	Uttar Pradesh	0.00	0.00
	Chandigarh	0.00	0.00
	Delhi	290.80	802.35
	Central Sector	* 1640.74+ * 84789.80	6726.33
	Sub-Total	100328.34	7564.05
WESTERN REGION	Gujarat	298.56	851.50
	Madhya Pradesh	0.00	0.00
	Maharashtra	883.00	2619.85
	Goa	0.00	0.00
	Daman & Diu	0.00	0.00
	D. & N Haveli	0.00	0.00
	Central Sector	431.11	1460.92
	Sub-Total	1612.67	4932.27
SOUTHERN REGION	Andhra Pradesh	134.30	417.01
	Karnataka	0.00	0.00
	Kerala	0.00	0.00
	Tamil Nadu	9.12	28.31
	Pondicherry	0.00	0.00
	Lakshadweep	0.00	0.00
	Central Sector	0.00	0.00
	Sub-Total	143.42	445.32
EASTERN REGION	Bihar	0.00	0.00
	Orissa	0.00	0.00
	West Bengal	*** 16134.77	36.52
	D.V.C.	*** 35425.00	60.33
	A. & N. Islands	0.00	0.00
	Sikkim	0.00	0.00
	Central Sector	0.00	0.00
	Sub-Total	51559.77	96.85
NORTH EASTERN REGION	Assam	184.45	315.47
	Manipur	0.00	0.00
	Meghalaya	0.00	0.00
	Nagaland	0.00	0.00
	Tripura	118.68	126.30
	Arunachal Pradesh	0.00	0.00
	Mizoram	0.00	0.00
	Central Sector	0.00	0.00
	Sub-Total	303.13	441.77
	Total (All India)	153947.33	13480.26

Note:- \*\*\* :-HSD K. Litres.  
\* :-Naptha in M.T.

Contd.

TABLE NO.44(Contd.)

Region	State/U.Ts.	D I E S E L S T A T I O N S		
		Diesel Oil (K.Lts.)	Generation (GWH)	Average Oil Consumed Lts./Kwh
NORTHERN REGION	Haryana	0.00	0.00	0.00
	Himachal Pradesh	6.00	0.01	0.60
	Jammu & Kashmir	0.00	0.00	0.00
	Punjab	0.00	0.00	0.00
	Rajasthan	0.00	0.00	0.00
	Uttar Pradesh	0.00	0.00	0.00
	Chandigarh	0.00	0.00	0.00
	Delhi	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	
	Sub-Total	6.00	0.01	0.60
WESTERN REGION	Gujarat	156.00	0.40	0.39
	Madhya Pradesh	0.00	0.00	0.00
	Maharashtra	0.00	0.00	0.00
	Goa	0.00	0.00	0.00
	Daman & Diu	0.00	0.00	0.00
	D. & N Haveli	0.00	0.00	0.00
	Central Sector	0.00	0.00	0.00
	Sub-Total	156.00	0.40	0.39
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	0.00
	Karnataka	0.00	0.00	0.00
	Kerala	0.00	0.00	0.00
	Tamil Nadu	0.00	0.00	0.00
	Pondicherry	0.00	0.00	0.00
	Lakshadweep	4281.00	11.50	0.37
	Central Sector	0.00	0.00	0.00
	Sub-Total	4281.00	11.50	0.37
EASTERN REGION	Bihar	0.00	0.00	0.00
	Orissa	0.00	0.00	0.00
	West Bengal	109.00	0.28	0.39
	D.V.C.	0.00	0.00	0.00
	A.& N. Islands	17585.00	62.22	0.28
	Sikkim	697.00	1.34	0.52
	Central Sector	0.00	0.00	0.00
	Sub-Total	18391.00	63.84	0.29
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Manipur	1219.00	3.61	0.26
	Meghalaya	0.00	0.00	0.00
	Nagaland	0.00	0.00	0.00
	Tripura	693.00	2.00	0.35
	Arunachal Pradesh	4774.00	14.48	0.33
	Mizoram	6006.00	17.15	0.35
Central Sector	0.00	0.00	0.00	
	Sub-Total	12692.00	37.24	0.34
	Total (All India)	35526.00	112.99	0.32

TABLE NO 45

CLASSIFICATION OF STEAM STATIONS - EFFICIENCYWISE  
DURING 1992-93

Overall Thermal Efficiency	No. of Generating Stations	Aggregate Installed Capacity (MW)	Energy Generated by the Group (GWH)	%age to Total Generation
Upto 10%	10	1698.50	4.62	0.00
Above 10% & Upto 15%	3	146.38	476.82	0.23
Above 15% & Upto 20%	7	1231.50	2823.65	1.34
Above 20% & Upto 25%	12	3872.50	12732.22	6.03
Above 25% & Upto 30%	30	10859.10	42852.91	20.29
Above 30%	42	28789.00	152233.31	72.11
<b>Total</b>	<b>104</b>	<b>46596.98</b>	<b>211123.53</b>	<b>100.00</b>

TABLE NO.46  
SALIENT OPERATING DATA FOR STEAM POWERSTATIONS  
(UTILITIES ONLY) DURING 1992-93

S.No.	Item	1992-93	1991-92	%Increase
i.	No. of Stations	104	104	0.00
ii.	Aggregate installed capacity(M.W.)	46596.98	44791.48	4.03
iii.	Total Energy generated (Gross)(GWH)	211123.53	197163.10	7.08
iv.	Installed capacity of plants (above 50 MW)	46427.10	44505.50	4.32
v.	Energy generated from plants (above 50 MW)	210477.66	196146.76	7.31
vi.	KWH/KW installed from plants (above 50 MW)	4533.50	4436.46	2.19
vii.	Fuel used(All Stations)			
(a)(i)	Coal (Tonnes)	141088507.00	133682630.00	5.54
(ii)	Average calorific value K.Cal./Kg.	3734.00	3837.00	
(b)(i)	Lignite (Tonnes)	10631302.00	10501853.00	1.23
(ii)	Average calorific value K.Cal./Kg.	2276.00	2457.00	
(c)(i)	Furnace Oil (K.Ltrs.)	776246.00	811669.00	-4.36
(ii)	Average calorific value K.Cal./Kg.	10200.00	10057.00	
(d)(i)	Diesel Oil & Kerosene Oil (K.Ltrs.)	237658.00	301000.00	-21.04
(ii)	Average calorific value K.Cal./Kg.	10310.00	10350.00	
(e)(i)	Natural Gas (M.Cu. Mtrs.)	189.52	233.96	-18.99
(ii)	Average calorific value K.Cal./(M.Cu.Mtrs.)	9037.00	9335.00	
(f)(i)	Refinery Gas (M.T.)	495082.00	621658.00	-20.36
(ii)	Average calorific value K.Cal./Kg.	12611.00	10688.00	
(g)(i)	LSHS & HHS (K.L.)	1710354.00	1801095.00	-5.04
(ii)	Average calorific value K.Cal./Ltrs.	10406.00	10951.00	
(h)	Overall thermal efficiency for plants above 50MW (Average)	30.95	31.29	-1.09
(i)	Total Fuel consumption (coal equivalent assuming calorific value as 5000 K.Cal/Kg)in Tonnes (All Stations)	117441666.00	107903732.00	8.84

TABLE NO.47

ACTUAL SIMULTANEOUS PEAK DEMAND @  
REGIONWISE DURING 1992-93

Region	Month in which demand was	Actual Peak Demand @ (MW)
Northern	January, 1993	14836.00
Western	March, 1993	14663.00
Southern	February, 1993	11727.00
Eastern	March, 1993	4813.00
North Eastern	December, 1992	593.00
All India Aggregate		* 46632.00

\* This is non-concident aggregate of simultaneous Peak Demand of various regions in the country.

@ Figures of peak demand of actual simultaneous Peak Demand on the system irrespective of Power restrictions.

Source:- Annual Reports of Regional Electricity Boards.

TABLE NO.48

**MANPOWER ENGAGED IN STATE ELECTRICITY BOARDS, DVC & DESU  
AS ON 31.3.1993 AS REPORTED BY STATE ELECTRICITY BOARDS**

Name of the Board Undertaking	R E G U L A R			
	Managerial and higher executive	Technical and Scientific Officers	Technical Supervisory Staff	Technicians and Operating Staff
1	2	3	4	5
<b>NORTHERN REGION</b>				
Haryana	26	1610	6067	31403
Himachal Pradesh (R)	N.A	N.A	N.A	N.A
Punjab	26	2477	39501 (B)	N.A
Rajasthan (R)	19	1472	2118	37983
Uttar Pradesh	73	4185	6800	87919
D.E.S.U.	N.A	N.A	N.A	18381 e
<b>WESTERN REGION</b>				
Gujarat	16	2491	2328	24381
Madhya Pradesh	51	3884	5218	59749
Maharashtra	33	961	8147	81220
<b>SOUTHERN REGION</b>				
Andhra Pradesh	40	7676	2632	54455
Karnataka (R)	10	4258	1899	20897
Kerala (R)	13	8576	8631	5113
Tamil Nadu	36	3145	8635	86150
<b>EASTERN REGION</b>				
Bihar	36	3465	1842	24937
Orissa (R)	9	1565	31818	0
West Bengal	5	1667	2096	21743
D.V.C.	89	1543	814	7205
<b>NORTH EASTERN REGION</b>				
Assam	11	1143	1269	12821
Meghalaya (R)	5	114	297	1975

**Note:-** Data in respect of State Elec. Board of J & K is not available.  
 @ includes Managerial & higher executives and Technical Supervisory staff.  
 N.A.:- No information available.  
 (R) :- Repeat

Contd.

TABLE NO.48(Contd.)

MANPOWER ENGAGED IN STATE ELECTRICITY BOARDS, DVC & DESU  
AS ON 31.3.1993 AS REPORTED BY STATE ELECTRICITY BOARDS

Name of the Board Undertaking	REGULAR		NON REGULAR	
	Non-Technical	Total (Regular) (2to6)	Technical Trainee & Apprentices	Work Charged Staff
1	6	7	8	9
<b>NORTHERN REGION</b>				
Haryana	12364	51470	88	5448
Himachal Pradesh (R)	N.A.	31036	N.A.	N.A.
Punjab	23468	75472	N.A.	19089
Rajasthan (R)	14560	56172	50	394
Uttar Pradesh	463	99440	N.A.	N.A.
D.E.S.U.	7524	25905	N.A.	N.A.
<b>WESTERN REGION</b>				
Gujarat	16212	45428	0	1341
Madhya Pradesh	28608	97510	169	0
Maharashtra	21153	111514	0	0
<b>SOUTHERN REGION</b>				
Andhra Pradesh	743	65546	726	5707
Karnataka (R)	11412	38476	0	0
Kerala (R)	8777	31110	110	N.A.
Tamil Nadu	25403	123369	1754	0
<b>EASTERN REGION</b>				
Bihar	9888	40168	0	0
Orissa (R)	N.A.	33392	784	571
West Bengal	14371	39882	N.A.	N.A.
D.V.C.	9463	19114	0	0
<b>NORTH EASTERN REGION</b>				
Assam	8057	23301	51	865
Meghalaya (R)	2277	4668	0	0

N.A.:- No information available.

(B) :- Included in technicians and operating staff.

(C) :- Includes casuals also.

Contd.



TABLE NO.48(Contd.)

MANPOWER ENGAGED IN STATE ELECTRICITY BOARDS, DVC & DESU  
AS ON 31.3.1993 AS REPORTED BY STATE ELECTRICITY BOARDS

Name of the Board Undertaking	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	10	11	12
<b>NORTHERN REGION</b>			
Haryana	N.A.	5536.	57006
Himachal Pradesh (R)	N.A.	N.A.	31036
Punjab	3782	22871	98343
Rajasthan (R)	805	1249	57401
Uttar Pradesh	N.A.	N.A.	99440
D.E.S.U.	N.A.	N.A.	26352
<b>WESTERN REGION</b>			
Gujarat	0	1341	46769
Madhya Pradesh	0	169	97679
Maharashtra	0	0	111514
<b>SOUTHERN REGION</b>			
Andhra Pradesh	0	6433	71979
Karnataka (R)	0	0	38476
Kerala (R)	N.A.	110	31220
Tamil Nadu	0	1754	125123
<b>EASTERN REGION</b>			
Bihar	0	0	40168
Orissa (R)	6305	7640	41032
West Bengal	N.A.	N.A.	39882
D.V.C.	0	0	19114
<b>NORTH EASTERN REGION</b>			
Assam	0	916	24217
Meghalaya (R)	0	0	4668

Note:- Figures pertains to regular employees only.  
N.A.:- No information available.  
(R) - Repeat

## **SECTION VII**

### **Transmission & Distribution**

## SECTION -VII

## TRANSMISSION AND DISTRIBUTION

## I. Transmission &amp; Distribution

An extensive network of Transmission and Distribution lines has been developed over the years for evacuating power produced in the various generating stations and distributing the same to the consumers. Depending upon the quantum of power and the distance involved, lines of appropriate voltages are laid. The nominal Extra High Voltage lines in vogue are HVDC 400 KV, 230/220 KV, 110 KV and 66 KV. 400 KV E.H.V. lines have been introduced so far by the S.E.Bs. of U.P., W.B., M.P., Maharashtra, Gujarat, Karnataka, Tamil Nadu, Bihar and Orissa as also by B.B.M.B. (Punjab) and Central Sector only.

The standard voltage of operation on the distribution side are 33 KV, 22 KV, 400/230 Volts besides 6.6 KV, 3.3 KV and 2.2 KV. The low voltage system has 3 phase 4 wires giving 400/420 volts between 2 phases and 220/240 volts between phase and neutral. This has been universally adopted in the country.

The table below depicts the length of lines operating at various voltages as on 31.3.1993 with comparative increase over previous year:-

Voltages	Length of Lines (Ckt. Kms.)		
	31.3.93	31.3.92	% increase
HVDC	1667	1630	2.27
400 KV	23886	23085	3.47
230/220 KV	68688	65967	4.12
132/110/90 KV	88186	89509	(-)1.48
78/66 KV	36020	35712	0.86
33/22 KV	224685	218070	3.03
15/11 KV	1429822	1383006	3.39
6.6/3.3/2.2 KV	4545	2107	115.71
Distribution lines upto 500 volts	2848195	2755114	3.38
<b>Total</b>	<b>4725694</b>	<b>4574200</b>	<b>3.31</b>

The State of Madhya Pradesh has the largest Transmission and Distribution network of 5,44,877 Ckt.Kms. in the country. Apart from Maharashtra, States of Punjab, Haryana, Rajasthan, Uttar Pradesh, Gujarat, Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Bihar, West Bengal and Orissa have more than 1 lakh Ckt. Kms. of T.&D. lines.

## II. Transformers

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The total number of step up transformers installed at various generating stations and sub-stations in the country as on 31st March, 1993 were 1546 having aggregate capacity of 88866.14 MVA. The number and capacity of step down and distribution transformers as on the same date were 19498 and 1367775 numbers with aggregate capacity of 236482.72 MVA and 105089.97 MVA respectively.

TABLE No.49

LENGTH OF TRANSMISSION AND DISTRIBUTION LINES  
REGIONWISE/STATEWISE - AS ON 31ST MARCH, 1993

(Ckt.Kms.)

REGION	Name of the State/U.Ts.	Total	HVDC	400 KV	230 KV	220 KV
				(D.H.)	(D.H.)	(D.H.)
NORTHERN REGION	Haryana	159640	0	0	0	786
	Himachal Pradesh (R)	56592	0	0	0	192
	Jammu & Kashmir (R)	42154	0	0	0	224
	Punjab	221710	0	574	0	5220
	Rajasthan (R)	273021	0	0	0	4190
	Uttar Pradesh	435780	0	1877	0	5717
	Chandigarh (R)	1453	0	0	0	0
	Delhi	31804	0	0	0	394
Central Sector	6744	1630	3059	0	2055	
Sub-Total		1228898	1630	5510	0	18778
WESTERN REGION	Gujarat	295238	0	1084	0	6879
	Madhya Pradesh	544877	0	1516	0	6312
	Maharashtra	482415	0	4070	2	6919
	Goa	7902	0	0	0	24
	Daman & Diu	464	0	0	0	0
	D. & N. Haveli	1193	0	0	0	0
	Central Sector	5022	0	4228	0	794
Sub-Total		1337111	0	10898	2	20928
SOUTHERN REGION	Andhra Pradesh	529840	37	0	0	5644
	Karnataka	414332	0	142	0	5790
	Kerala	143695	0	0	0	1070
	Tamil Nadu	472482	0	354	5595	0
	Lakshadweep	206	0	0	0	0
	Pondicherry	4331	0	0	63	0
	Central Sector	4832	0	4832	0	0
Sub-Total		1569718	37	5328	5658	12504
EASTERN REGION	Bihar	181792	0	164	0	1491
	Orissa	107182	0	188	0	2383
	West Bengal	153291	0	0	0	2798
	D.V.C.	4926	0	0	0	1019
	A. & N. Islands	2703	0	0	0	0
	Sikkim (R)	4460	0	0	0	0
	Central Sector	3074	0	1798	0	1276
Sub-Total		457428	0	2150	0	8967
NORTH EASTERN REGION	Assam	85254	0	0	0	1643
	Manipur	7283	0	0	0	0
	Meghalaya (R)	11522	0	0	0	0
	Nagaland (R)	9022	0	0	0	0
	Tripura (R)	8228	0	0	0	0
	Arunachal Pradesh (R)	5172	0	0	0	0
	Mizoram	5142	0	0	0	0
Central Sector	916	0	0	0	208	
Sub-Total		132539	0	0	0	1851
Total (All India)		4725694	1667	23886	5660	63028

TABLE No.49 (Contd.)

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(Ckt.Kms.)

REGION	Name of the State/U.Ts.	132 KV	110/90 KV	78/66 KV	33 KV	
		(O.H.)	(O.H.)	(O.H.)	(O.H.)	
NORTHERN REGION	Haryana	2034	0	1542	4150	0
	Himachal Pradesh (R)	301	0	325	1810	0
	Jammu & Kashmir (R)	659	0	0	1693	0
	Punjab	2889	0	3547	1501	0
	Rajasthan (R)	6982	0	303	17153	0
	Uttar Pradesh	9944	0	3027	23934	0
	Chandigarh (R)	0	0	28	20	0
	Delhi	0	0	608	483	483
	Central Sector	0	0	0	0	0
Sub-Total		22809	0	9380	50744	483
WESTERN REGION	Gujarat	4106	0	10508	190	0
	Madhya Pradesh	10842	0	362	29263	0
	Maharashtra	6415	2896	3231	16389	27
	Goa	0	198	0	748	0
	Daman & Diu	0	0	47	0	0
	D. & N. Haveli	0	0	54	0	0
	Central Sector	0	0	0	0	0
Sub-Total		21363	3094	14202	46590	27
SOUTHERN REGION	Andhra Pradesh	8974	0	647	22105	23
	Karnataka	0	5003	4148	4927	0
	Kerala	0	2207	2630	0	0
	Tamil Nadu	0	8736	2690	3481	169
	Lakshadweep	0	0	0	0	0
	Pondicherry	0	158	0	0	0
Central Sector	0	0	0	0	0	
Sub-Total		8974	16104	10115	30513	192
EASTERN REGION	Bihar	4848	0	0	11574	0
	Orissa	3739	0	136	9194	10
	West Bengal	119	0	806	5947	728
	D.V.C.	3026	0	0	881	0
	A.& N. Islands	0	0	0	184	0
	Sikkim (R)	0	0	29	0	0
Central Sector	0	0	0	0	0	
Sub-Total		11732	0	971	27780	738
NORTH EASTERN REGION	Assam	2118	0	885	5027	0
	Manipur	254	0	0	428	0
	Meghalaya (R)	597	0	0	1075	0
	Nagaland (R)	73	0	25	1165	0
	Tripura (R)	150	0	308	443	0
	Arunachal Pradesh (R)	0	0	0	2223	0
	Mizoram	210	0	134	779	0
Central Sector	708	0	0	0	0	
Sub-Total		4110	0	1352	11090	0
Total (All India)		68988	19198	36020	166717	1440

(A) In certain class of voltage, figures have gone down as compared to previous year due to revision/deletion or wrongly reported data by State Electricity Board/Electricity Department.

(R) Data of 1991-92 repeated due to non-availability of information.

TABLE No.49(Contd.)

LENGTH OF TRANSMISSION AND DISTRIBUTION LINES  
REGIONWISE/STATEWISE - AS ON 31ST MARCH, 1993

REGION	Name of the State/U.Ts.	22/20 KV		15/11 KV		6.6 KV	
		(O.H.)	(U.G.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)
NORTHERN REGION	Haryana	0	0	51276	0	0	0
	Himachal Pradesh	3866	0	10645	62	0	0
	Jammu & Kashmir	0	0	11538	0	0	0
	Punjab	0	0	70799	0	70	52
	Rajasthan (R)	0	0	104105	0	56	0
	Uttar Pradesh	0	0	181024	0	0	0
	Chandigarh	0	0	542	0	0	0
	Delhi	0	0	2980	5144	0	0
	Central Sector	0	0	0	0	0	0
	Sub-Total	3866	0	432909	5206	126	52
WESTERN REGION	Gujarat	7013	0	104097	1754	0	0
	Madhya Pradesh	0	0	178162	0	0	0
	Maharashtra	16764	928	128879	2038	55	1376
	Goa	0	0	2069	0	0	0
	Daman & Diu	0	0	116	0	0	0
	D. & N. Haveli	0	0	348	0	0	0
	Central Sector	0	0	0	0	0	0
		Sub-Total	23777	928	413671	3792	55
SOUTHERN REGION	Andhra Pradesh	0	0	142724	22	0	0
	Karnataka	0	0	104677	0	0	0
	Kerala	0	0	22734	(E)	0	0
	Tamil Nadu	27265	56	62238	1175	0	0
	Lakshadweep	0	0	0	13	0	0
	Pondicherry	586	0	200	26	0	0
	Central Sector	0	0	0	0	0	0
	Sub-Total	27851	56	332573	1236	0	0
EASTERN REGION	Bihar	0	0	73261	0	0	0
	Orissa	0	0	44914	192	0	0
	West Bengal	0	50 (D)	65668	103	18	2605
	D.V.C.	0	0	0	0	0	0
	A. & N. Islands	0	0	681	0	0	0
	Sikkim	0	0	1692	0	0	0
	Central Sector	0	0	0	0	0	0
	Sub-Total	0	50	186216	295	18	2605
NORTH EASTERN REGION	Assam	0	0	34871	0	0	0
	Manipur	0	0	3018	0	0	0
	Meghalaya	0	0	5913	0	0	0
	Nagaland	0	0	4369	0	0	0
	Tripura	0	0	3365	0	0	0
	Arunachal Pradesh	0	0	(B)	0	0	0
	Mizoram	0	0	2388	0	0	0
	Central Sector	0	0	0	0	0	0
	Sub-Total	0	0	53924	0	0	0
	Total (All India)	55494	1034	1419293	10529	199	4033

@@ Included in O.H.category. @ Included in 15/11 KV O.H. category.

(D) Includes line length of 6.6 KV & 3.3 KV of West Bengal State Electricity Board. (E) Included in O.H. category

(B) Included in 33 KV lines.

TABLE No.49(Contd.)

REGION	Name of the State/U.Ts.	3.3/ 2.2 KV		Distribution lines upto 500 Volts
		(D.H.)	(U.G.)	
NORTHERN REGION	Haryana	0	0	99852
	Himachal Pradesh (R)	(C)	52	39339
	Jammu & Kashmir (R)	0	0	28040
	Punjab	0	0	137058
	Rajasthan (R)	13	0	140219
	Uttar Pradesh	0	0	210257
	Chandigarh (R)	0	0	863
	Delhi	0	0	21712
Central Sector	0	0	0	
Sub-Total		13	52	677340
WESTERN REGION	Gujarat	0	107	(E)159500
	Madhya Pradesh	49	0	318371
	Maharashtra	0	0	(F)292426
	Goa	0	0	4863
	Daman & Diu	0	0	301
	D. & N. Haveli	0	0	791
Central Sector	0	0	0	
Sub-Total		49	107	776252
SOUTHERN REGION	Andhra Pradesh	(G)	(B)	349664
	Karnataka	0	0	(H)289645
	Kerala	0	0	115054
	Tamil Nadu	0	0	360723
	Lakshadweep	9	17	167
	Pondicherry	0	0	3298
Central Sector	0	0	0	
Sub-Total		9	17	1118551
EASTERN REGION	Bihar	0	0	90454
	Orissa	0	0	46426
	West Bengal	26	21	74402
	D.V.C.	0	0	0
	A. & N. Islands (R)	0	0	1838
	Sikkim (R)	4	0	2735
Central Sector	0	0	0	
Sub-Total		30	21	215855
NORTH EASTERN REGION	Assam	0	0	40710
	Manipur	0	0	3583
	Meghalaya (R)	15	0	3972
	Nagaland (R)	0	0	3390
	Tripura (R)	0	0	3962
	Arunachal Pradesh(R)	0	0	2949
	Mizoram	0	0	1631
Central Sector	0	0	0	
Sub-Total		15	0	60197
Total (All India)		116	197	2848195

(C) Included in U.G. Category.

(E) Includes 6.6 KV &amp; 3.3/2.2 KV lines of GEB &amp; Ahmedabad Elec. Co.

(F) Includes all the length of lines below 11 KV of Maharashtra State Electricity Board. (G) Included in Distribution lines.

(H) Includes all the length of lines below 11 KV of Karnataka Electricity Board.



TABLE No.50

LENGTH OF TRANSMISSION AND DISTRIBUTION LINES IN  
STATE ELECTRICITY BOARDS - AS ON 31ST MARCH, 1993

(Ckt.Kms.)

REGION	Name of the Board	Total	HVDC	400 KV	230 KV	220 KV
				(D.H.)	(D.H.)	(D.H.)
NORTHERN REGION	Haryana	159640	0	0	0	786
	Himachal Pradesh (R)	56592	0	0	0	192
	Jammu & Kashmir (R)	41774	0	0	0	224
	Punjab	217426	0	0	0	2236
	Rajasthan (R)	271439	0	0	0	4190
	Uttar Pradesh	432150	0	1877	0	5717
	Sub-Total	1179021	0	1877	0	13345
WESTERN REGION	Gujarat	285777	0	1084	0	6879
	Madhya Pradesh	522753	0	1516	0	6312
	Maharashtra (R)	463338	0	4070	0	6919
	Sub-Total	1271868	0	6670	0	20110
SOUTHERN REGION	Andhra Pradesh	510426	37	0	0	5644
	Karnataka	411264	0	142	0	5790
	Kerala	143152	0	0	0	1070
	Tamil Nadu	462894	0	0	5242	0
		Sub-Total	1527736	37	142	5242
EASTERN REGION	Bihar	180286	0	164	0	1491
	Orissa (R)	106278	0	188	0	2383
	West Bengal	138458	0	0	0	1402
	Sub-Total	425022	0	352	0	5276
NORTH EASTERN REGION	Assam	85254	0	0	0	1643
	Meghalaya (R)	11522	0	0	0	0
	Sub-Total	96776	0	0	0	1643
	Total (All Boards)	4500423	37	9041	5242	52878

(R)-Data of 1991-92 repeated due to non-availability of information.

TABLE No.50 (Contd.)

LENGTH OF TRANSMISSION AND DISTRIBUTION LINES IN  
STATE ELECTRICITY BOARDS - AS ON 31ST MARCH, 1993

(Ckt.Kms.)

REGION	Name of the Board	132 KV	110/90 KV	78/66 KV	33 KV	
		(D.H.)	(D.H.)	(D.H.)	(D.H.)	(U.G.)
NORTHERN REGION	Haryana	2034	0	1542	4150	0
	Himachal Pradesh (R)	301	0	325	1810	0
	Jammu & Kashmir (R)	659	*	0	1693	0
	Punjab	2867	0	3387	1501	0
	Rajasthan (R)	6982	0	303	17153	0
	Uttar Pradesh	9944	0	3027	23934	0
	Sub-Total	22787	0	8584	50241	0
WESTERN REGION	Gujarat	4041	0	10348	190	0
	Madhya Pradesh	10842	0	362	29263	0
	Maharashtra (R)	6415	1924	3231	16319	4
	Sub-Total	21298	1924	13941	45772	4
SOUTHERN REGION	Andhra Pradesh	8974	0	434	22105	23
	Karnataka	0	5003	4148	4927	0
	Kerala	0	2207	2630	0	0
	Tamil Nadu	0	8736	2690	3481	169
	Sub-Total	8974	15946	9902	30513	192
EASTERN REGION	Bihar	4848	0	0	11574	0
	Orissa (R)	3739	0	136	9194	10
	West Bengal	0	0	806	5897	0
	Sub-Total	8587	0	942	26665	10
NORTH EASTERN	Assam	2118	0	885	5027	0
	Meghalaya (R)	597	0	0	1025	0
	Sub-Total	2715	0	885	6052	0
	Total (All Boards)	64361	17870	34254	159243	206

(A)-In certain class of voltage figures have gone down as compared to previous year due to revision/deletion or wrongly reported data by State Electricity Boards.

(\*)-Included in 33 KV lines.

TABLE No.50(Contd.)

LENGTH OF TRANSMISSION AND DISTRIBUTION LINES IN  
STATE ELECTRICITY BOARDS - AS ON 31ST MARCH, 1993

(Ckt.Kms.)

REGION	Name of the Board	22 KV		15/11 KV		6.6 KV	
		(O.H.)	(U.G.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)
NORTHERN REGION	Haryana	0	0	51276	0	0	0
	Himachal Pradesh (R)	3866	0	10645	62	0	0
	Jammu & Kashmir (R)	0	0	11428	0	0	0
	Punjab	0	0	70677	0	0	0
	Rajasthan (R)	0	0	103681	0	56	0
	Uttar Pradesh	0	0	@ 179316	0	0	0
	Sub-Total	3866	0	427023	62	56	0
WESTERN REGION	Gujarat	7013	0	103633	0	0	0
	Madhya Pradesh	0	0	170611	0	0	0
	Maharashtra (R)	16584	187	127136	725	0	0
	Sub-Total	23597	187	401380	725	0	0
SOUTHERN REGION	Andhra Pradesh	0	0	137225	0	0	0
	Karnataka	0	0	103991	0	0	0
	Kerala	0	0	22556	0	0	0
	Tamil Nadu	27153	56	60846	1132	0	0
	Sub-Total	27153	56	324618	1132	0	0
EASTERN REGION	Bihar	0	0	72727	0	0	0
	Orissa (R)	0	0	44571	192	0	0
	West Bengal	0	0	64415	0	0	0
	Sub-Total	0	0	181713	192	0	0
NORTH EASTERN	Assam	0	0	34871	0	0	0
	Meghalaya (R)	0	0	5913	0	0	0
	Sub-Total	0	0	40784	0	0	0
	Total (All Boards)	54616	243	1375518	2111	56	0

TABLE No.50(Contd.)

LENGTH OF TRANSMISSION AND DISTRIBUTION LINES IN  
STATE ELECTRICITY BOARDS - AS ON 31ST MARCH,1993  
(Ckt. Kms.)

REGION	Name of the Board	3.3./2.2. KV		Distribution lines upto 500 volts.
		(D.H.)	(U.G.)	
NORTHERN REGION	Haryana	0	0	99852
	Himachal Pradesh (R)	6	52	39339
	Jammu & Kashmir (R)	0	0	27770
	Punjab	0	0	136758
	Rajasthan (R)	13	0	139061
	Uttar Pradesh	0	0	208335
	Sub-Total	13	52	651115
WESTERN REGION	Gujarat	0	0	152589
	Madhya Pradesh	49	0	303798
	Maharashtra (R)	0	0	279824
	Sub-Total	49	0	736211
SOUTHERN REGION	Andhra Pradesh	0	0	335984
	Karnataka	0	0	287263
	Kerala	0	0	114689
	Tamil Nadu	0	0	353389
	Sub-Total	0	0	1091325
EASTERN REGION	Bihar	0	0	89482
	Orissa (R)	0	0	45865
	West Bengal	0	0	65938
	Sub-Total	0	0	201285
NORTH EASTERN	Assam	0	0	40710
	Meghalaya (R)	15	0	3972
	Sub-Total	15	0	44682
	Total (All Boards)	77	52	2724618

@ Includes lines length of 3.3 & 6.6 KV also since break-up of this is not available.

(\*) Included in U.G. Category

Note: In certain cases, 1992-93 figures may not be consistent with the last year figures because of estimation of data due to improper reporting, or revision of data by Electricity Boards.

TABLE No.51  
NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY  
(UTILITIES ONLY) REGIONWISE/STATEWISE AS ON 31.3.1993

REGION	Name of the State/U.Ts.	STEP UP		STEP DOWN	
		Number	Aggregate Capacity (KVA)	Number	Aggregate Capacity (KVA)
NORTHERN REGION	Haryana	13	845000	796	10088370
	Himachal Pradesh (R)	64	364684	232	1201218
	Jammu & Kashmir (R)	58	341000	116	609950
	Punjab	96	6113241	493	17286000
	Rajasthan (R)	20	1261250	1759	8928875
	Uttar Pradesh (R)	81	5850000	2924	28316000
	Chandigarh (R)	2	1500	18	19500
	Delhi (R)	16	885000	312	8307000
Central Sector	69	9952730	93	459358	
	Sub-Total	419	25614405	6743	75216271
WESTERN REGION	Gujarat	72	6120130	1106	22063500
	Madhya Pradesh	47	4209693	2263	20994450
	Maharashtra	97	10542475	2264	37050800
	Goa	0	0	40	178950
	Daman & Diu (R)	0	0	6	40000
	D. & N. Haveli	0	0	7	60000
	Central Sector	27	5484000	10	976500
	Sub-Total	243	26356298	5696	81364200
SOUTHERN REGION	Andhra Pradesh	117	5888480	1848	13283410
	Karnataka	80	3525730	885	9805126
	Kerala	57	1716975	319	5481500
	Tamil Nadu	167	5468249	1129	15241100
	Lakshadweep	11	2810	0	0
	Pondicherry	0	0	23	416300
	Central Sector	34	6085000	93	6497000
	Sub-Total	466	22687244	4297	50724436
EASTERN REGION	Bihar	27	2391000	1037	7289750
	Orissa	59	2585600	756	4159480
	West Bengal	98	3416879	391	8396325
	D.V.C.	28	2790000	111	3666250
	A. & N. Islands	18	9695	0	0
	Sikkim	32	32800	11	35500
	Central Sector	6	1815000	33	3514000
	Sub-Total	268	13040974	2339	27061305
NORTH EASTERN REGION	Assam (R)	46	509207	204	1424560
	Manipur	4	2000	39	212650
	Meghalaya	15	239100	65	197900
	Nagaland (R)	7	36000	50	87500
	Tripura (R)	11	64140	47	147670
	Arunachal Pradesh (R)	26	11325	2	1130
	Mizoram (R)	24	8750	11	20100
	Central Sector	17	296700	5	25000
	Sub-Total	150	1167222	423	2116510
	Total (All India)	1546	88866143	19498	236482722

Contd.

TABLE No.51  
 NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY  
 (UTILITIES ONLY) REGIONWISE/STATEWISE AS ON 31.3.1993

REGION	Name of the State/U.Ts.	D I S T R I B U T I O N	
		Number	Aggregate Capacity (KVA)
NORTHERN REGION	Haryana	81122	5537956
	Himachal Pradesh (R)	7100	461904
	Jammu & Kashmir	5762	891187
	Punjab	107594	7703701
	Rajasthan (R)	80281	4974617
	Uttar Pradesh	228353	12247754
	Chandigarh (R)	787	242150
	Delhi	6603	4172575
	Central Sector	152	183770
	Sub-Total	517754	36415614
WESTERN REGION	Gujarat	119484	9946111
	Madhya Pradesh	134966	8595485
	Maharashtra	128989	12930534
	Goa	574	43659
	Daman & Diu (R)	121	17691
	D. & N. Haveli	232	21807
	Central Sector	9	6750
	Sub-Total	384375	31562037
SOUTHERN REGION	Andhra Pradesh	115943	8666309
	Karnataka	85128	5492778
	Kerala	20162	2416466
	Tamil Nadu	96008	10051303
	Lakshadweep	34	2453
	Pondicherry	982	145471
	Central Sector	182	179005
	Sub-Total	318439	26953785
EASTERN REGION	Bihar	45038	3399222
	Orissa	21208	1393757
	West Bengal	60338	3479227
	D.V.C.	136	103100
	A. & N. Islands	279	28533
	Sikkim	1095	45304
	Central Sector	43	54760
	Sub-Total	128137	8903903
NORTH EASTERN REGION	Assam (R)	11535	1038115
	Manipur	1699	153156
	Meghalaya	2011	136175
	Nagaland (R)	1021	55882
	Tripura (R)	1760	98633
	Arunachal Pradesh (R)	367	31670
	Mizoram (R)	677	141000
	Central Sector	0	0
	Sub-Total	19070	1654631
	Total (All India)	1367775	109089970

TABLE No.52

NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY  
IN STATE ELECTRICITY BOARDS AS ON 31ST MARCH, 1993

REGION	Name of the Board	STEP UP		STEP DOWN	
		Number	Aggregate Capacity (KVA)	Number	Aggregate Capacity (KVA)
NORTHERN REGION	Haryana	13	845000	796	10088370
	Himachal Pradesh (R)	64	364684	232	1201218
	Jammu & Kashmir (R)	58	341000	116	609950
	Punjab	46	2465541	400	12390000
	Rajasthan (R)	20	1261250	1759	8928875
	Uttar Pradesh (R)	81	5850000	2924	28316000
	Sub-Total	201	11127475	6227	61534413
WESTERN REGION	Gujarat	35	5080000	1039	20817500
	Madhya Pradesh	45	4029693	2261	20973450
	Maharashtra (R)	72	8175475	1998	28976000
	Sub-Total	152	17285168	5298	70766950
SOUTHERN REGION	Andhra Pradesh (R)	89	4432500	1837	13244910
	Karnataka	46	305000	859	9588300
	Kerala	57	1716975	317	5461500
	Tamil Nadu	167	5468249	1129	15241100
	Sub-Total	359	11922724	4142	43535810
EASTERN REGION	Bihar	27	2391000	1037	7298750
	Orissa (R)	50	1862600	751	4134480
	West Bengal (R)	72	1267379	192	4177100
	Sub-Total	149	5520979	1980	15610330
NORTH EASTERN REGION	Assam (R)	46	509207	204	1424560
	Meghalaya	15	239100	65	197900
	Sub-Total	61	748307	269	1622460
	Total (All Boards)	1003	46604653	17916	193069963

Note:- In certain cases figures has gone down as compared to previous year due to revision/deletion/failure or installation of higher capacity transformers by the Board.

(R) Data repeated due to non-availability of information

TABLE No.52 (Contd.)

NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY  
IN STATE ELECTRICITY BOARDS AS ON 31ST MARCH, 1993

D I S T R I B U T I O N			
REGION	Name of the Board	Number	Aggregate Capacity (KVA)
NORTHERN REGION	Haryana	81122	5537956
	Himachal Pradesh (R)	7100	461904
	Jammu & Kashmir	5661	883910
	Punjab	107594	7703701
	Rajasthan (R)	79963	4954051
	Uttar Pradesh	228769	12179000
	Sub-Total	510209	31720522
WESTERN REGION	Gujarat	116671	8958646
	Madhya Pradesh	134251	8312563
	Maharashtra	123051	10554083
	Sub-Total	373973	27825292
SOUTHERN REGION	Andhra Pradesh	112067	8361787
	Karnataka	84484	5414209
	Kerala	19980	2384109
	Tamil Nadu	94266	9835437
	Sub-Total	310797	25995542
EASTERN REGION	Bihar	44634	3362810
	Orissa (R)	20970	1371891
	West Bengal (R)	20481	1176007
	Sub-Total	86085	5910708
NORTH EASTERN REGION	Assam (R)	11535	1038115
	Meghalaya (R)	2011	136175
	Sub-Total	13546	1174290
	Total (All Boards)	1294610	92626354

In certain cases, number and aggregate capacity of transformers have gone down as compared to last year due to estimation of data, because of improper reporting or revision of data by State Electricity Boards at later stages.



## **SECTION VIII**

**Utilisation**

## SECTION -VIII

## UTILISATION

## 1. Energy Consumption

Electricity consumption by various categories of consumers served by utilities during the year under review was 220673.60 Gwh registering an increase of 6.27% over previous year.

As in the preceding year, the major portion of electricity viz. 205992.88 Gwh representing 93.35% of the total energy consumption was distributed by the Public Sector and remaining 6.65% was distributed by the private sector. Out of 93.35% of energy distributed by the Public Sector, 85.16% was supplied by the 18 State Electricity Boards and balance 8.19% was supplied by the Municipalities and Electricity Departments of the States and Union Territories. Out 76.65% of energy distributed by the whole Private Sector (including Co-operative Societies), the three major private licensees viz. Tata Electric Companies, Calcutta Electric Supply Corporation and Ahmedabad Electricity Supply Company distributed 1.09%, 1.84% and 0.98% of total energy to its consumers respectively. The details of energy sold by various agencies during 1992-93 are tabulated below:-

Sl. No.	Agency	Energy sold to ultimate consumers.		
		Quantum (GWH)	% to total Consumption	% increase over 1991-92
1.	State Elec. Boards	187919.79	85.16	6.63
2.	Elec. Deptts. of States & Union Territories.	7474.95	3.39	5.31
3.	Municipalities (including D.E.S.U.)	10598.14	4.80	8.10
4.	Private Licensees (including Co-op.)	14680.72	6.65	1.24
Total		220673.60	100.00	6.27

As regards the energy consumed by various classes of consumers, the industrial category of consumers, as usual consumed highest energy i.e. 40.86% of total energy sold by Public Utilities as compared to 42.04% during 1991-92. The energy sales to industrial consumers registered an increase of 3.30% over the previous year.

Agricultural consumers remained the second largest category amongst the consumers of electricity consuming 28.70% of total energy sales as compared to 28.20% during the previous year. Percentage increase in consumption of energy by this Sector was 8.15% over the previous year.

#### II. Per Capita Consumption

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The per capita consumption of electricity in the country was 283.10 Kwh during 1992-93 as compared to 269.98 Kwh during 1991-92. Western Region had the maximum per capita consumption of 406.21 Kwh followed by Southern, Northern, Eastern and North Eastern Regions with figures of 311.80, 282.45, 162.39 and 93.44 Kwh respectively.

Amongst the States, Punjab with per capita consumption of 683.58 Kwh was at the top followed by Gujarat, Haryana and Maharashtra having per capita consumption of 538.43, 507.24 and 438.58 Kwh respectively. However, Union Territory of Dadra & Nagar Haveli had the highest per capita consumption of electricity of 1174.50 Kwh in the country during the year followed by Daman & Diu 1014.70 Kwh.

#### III. Electrical Accidents

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To the extent the information was made available, during the year 1992-93, total number of electrical accidents reported was 5983 which comprised of 2468 fatal, 1799 non-fatal accidents to human and 1575 fatal and 141 non-fatal accidents to animals. Corresponding figures for the year 1991-92 were 2033 fatal, 1718 non-fatal accidents to human and 1603 fatal and 16 non-fatal accidents to animals.

The various tables in the Section depict the energy consumed by different categories of consumers in various State Electricity Boards, etc., per capita consumption of electricity and electrical accidents.

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TABLE No.53

## ALL INDIA ENERGY SALES (UTILITIES ONLY) DURING 1992-93

(GWH)

Category	Energy sold during 1991-92	% to total sales in 1991-92	Energy sold during 1992-93	% to total sales in 1992-93	% increase in sale over previous year 1991-92
Domestic	35853.70	17.27	39717.08	18.00	10.78
Commercial	12031.61	5.79	12652.76	5.73	5.16
Industrial Power	87288.57	42.04	90169.55	40.86	3.30
Public Lighting	1765.89	0.85	1901.07	0.86	7.66
Railways/ Tramways	4519.56	2.18	5067.73	2.30	12.13
Agriculture	58557.17	28.20	63327.79	28.70	8.15
Public Water Works & Sewage Pumping	4448.71	2.14	4376.56	1.98	(-)1.62
Miscellaneous	3179.49	1.53	3461.06	1.57	8.86
<b>Total</b>	<b>207644.70</b>	<b>100.00</b>	<b>220673.60</b>	<b>100.00</b>	<b>6.27</b>

TABLE NO.54

ENERGY SALES TO ULTIMATE CONSUMERS (UTILITIES ONLY)  
OWNERSHIPWISE/REGIONWISE/STATEWISE  
DURING THE YEAR 1992-93

Region	State/U.Ts.	Total Energy Sold (GWH)	P U B L I C   S E C T O R	
			State Electricity Board (GWH)	% to total
NORTHERN REGION	Haryana	8090.93	8090.93	100.00
	Himachal Pradesh	1107.06	1083.27	97.85
	Jammu & Kashmir	1505.29	1425.00	94.67
	Punjab	13937.10	13488.24	96.78
	Rajasthan	10635.08	10446.84	98.23
	Uttar Pradesh	21889.71	21765.00	99.43
	Chandigarh	458.96	0.00	0.00
	Delhi	7764.48	0.00	0.00
	Sub-Total	65388.61	56299.28	86.10
WESTERN REGION	Gujarat	20000.30	16920.95	84.60
	Madhya Pradesh	16065.39	15780.96	98.23
	Maharashtra	34428.13	26040.95	75.64
	Goa	598.58	0.00	0.00
	Daman & Diu	101.47	0.00	0.00
	D. & N Haveli	164.43	0.00	0.00
		Sub-Total	71358.30	58742.86
SOUTHERN REGION	Andhra Pradesh	19335.57	18782.72	97.14
	Karnataka	12947.79	12896.51	99.60
	Kerala	5698.39	5637.00	98.92
	Tamil Nadu	19644.96	18435.00	93.84
	Pondicherry	696.40	0.00	0.00
	Lakshadweep	9.16	0.00	0.00
		Sub-Total	58332.27	55751.23
EASTERN REGION	Bihar	7858.41	5504.90	70.05
	Orissa	5320.47	5297.38	99.57
	West Bengal	10030.46	4611.30	45.97
	A. & N. Islands	46.15	0.00	0.00
	Sikkim	48.99	0.00	0.00
		Sub-Total	23304.48	15413.58
NORTH EASTERN REGION	Assam	1482.29	1482.29	100.00
	Manipur	198.42	0.00	0.00
	Meghalaya	237.55	230.55	97.05
	Nagaland	90.13	0.00	0.00
	Tripura	167.41	0.00	0.00
	Arunachal Pradesh	48.72	0.00	0.00
	Mizoram	65.42	0.00	0.00
		Sub-Total	2289.94	1712.84
	Total (All India)	220673.60	187919.79	85.16

TABLE NO.54 (Contd.)

ENERGY SALES TO ULTIMATE CONSUMERS (UTILITIES ONLY)  
OWNERSHIPWISE/REGIONWISE/STATEWISE  
DURING THE YEAR 1992-93

		P U B L I C S E C T O R			
Region	State/U.Ts.	Municipalities		Govt. Deptts./Govt. Undertaking/Corporations	
		(GWH)	%age to Total	(GWH)	%age to Total
NORTHERN REGION	Haryana	0.00	0.00	0.00	0.00
	Himachal Pradesh	0.00	0.00	23.79	2.15
	Jammu & Kashmir	0.00	0.00	41.02	2.73
	Punjab	255.04	1.83	193.82	1.39
	Rajasthan	0.00	0.00	118.24	1.11
	Uttar Pradesh	0.00	0.00	33.16	0.15
	Chandigarh	0.00	0.00	458.96	100.00
	Delhi	7665.00	0.00	99.48	1.28
	Sub-Total	7920.04	12.11	968.47	1.48
WESTERN REGION	Gujarat	0.00	0.00	0.88	Neg.
	Madhya Pradesh	0.00	0.00	50.00	0.31
	Maharashtra	2289.95	6.65	0.00	0.00
	Goa	0.00	0.00	598.58	100.00
	Daman & Diu	0.00	0.00	101.47	100.00
	D. & N Haveli	0.00	0.00	164.43	100.00
	Sub-Total	2289.95	3.21	915.36	1.28
SOUTHERN REGION	Andhra Pradesh	0.00	0.00	329.30	1.70
	Karnataka	0.00	0.00	0.00	0.00
	Kerala	33.52	0.59	0.00	0.00
	Tamil Nadu	354.63	1.81	739.47	3.76
	Pondicherry	0.00	0.00	696.40	100.00
	Lakshadweep	0.00	0.00	9.16	100.00
	Sub-Total	388.15	0.66	1774.33	3.04
EASTERN REGION	Bihar	0.00	0.00	2311.51	29.41
	Orissa	0.00	0.00	0.00	0.00
	West Bengal	0.00	0.00	833.04	8.31
	A.& N. Islands	0.00	0.00	46.15	100.00
	Sikkim	0.00	0.00	48.99	100.00
	Sub-Total	0.00	0.00	3239.69	13.90
NORTH EASTERN REGION	Assam	0.00	0.00	0.00	0.00
	Manipur	0.00	0.00	198.42	100.00
	Meghalaya	0.00	0.00	7.00	2.95
	Nagaland	0.00	0.00	90.13	100.00
	Tripura	0.00	0.00	167.41	100.00
	Arunachal Pradesh	0.00	0.00	48.72	100.00
	Mizoram	0.00	0.00	65.42	100.00
		Sub-Total	0.00	0.00	577.10
	Total (All India)	10598.14	4.80	7474.95	3.39

TABLE NO.54(Contd.)

ENERGY SALES TO ULTIMATE CONSUMERS (UTILITIES ONLY)  
OWNERSHIPWISE/REGIONWISE/STATEWISE  
DURING THE YEAR 1992-93

		PRIVATE SECTOR (COMPANY)	
Region	State/U.Ts.	(GWH)	%age to Total
NORTHERN REGION	Haryana	0.00	0.00
	Himachal Pradesh	0.00	0.00
	Jammu & Kashmir	39.27	2.60
	Punjab	0.00	0.00
	Rajasthan	70.00	0.66
	Uttar Pradesh	91.55	0.42
	Chandigarh	0.00	0.00
	Delhi	0.00	0.00
	Sub-Total	200.82	0.31
WESTERN REGION	Gujarat	3078.47	15.40
	Madhya Pradesh	234.43	1.46
	Maharashtra	6097.23	17.71
	Goa	0.00	0.00
	Daman & Diu	0.00	0.00
	D. & N Haveli	0.00	0.00
		Sub-Total	9410.13
SOUTHERN REGION	Andhra Pradesh	223.55	1.16
	Karnataka	51.28	0.40
	Kerala	27.87	0.49
	Tamil Nadu	115.86	0.59
	Pondicherry	0.00	0.00
	Lakshadweep	0.00	0.00
	Sub-Total	418.56	0.72
EASTERN REGION	Bihar	42.00	0.54
	Orissa	23.09	0.43
	West Bengal	4586.12	45.72
	A.& N. Islands	0.00	0.00
	Sikkim	0.00	0.00
	Sub-Total	4651.21	19.96
NORTH EASTERN REGION	Assam	0.00	0.00
	Manipur	0.00	0.00
	Meghalaya	0.00	0.00
	Nagaland	0.00	0.00
	Tripura	0.00	0.00
	Arunachal Pradesh	0.00	0.00
	Mizoram	0.00	0.00
	Sub-Total	0.00	0.00
	Total (All India)	14680.72	6.65

TABLE NO.55

**ENERGY SALES TO ULTIMATE CONSUMERS (UTILITIES ONLY)  
CATEGORYWISE/REGIONWISE/STATEWISE  
DURING THE YEAR 1992-93**

(GWH)

Region	State/U.Ts.	Total Energy Sold	Domestic	commercial
NORTHERN REGION	Haryana	8090.93	1485.59	226.77
	Himachal Pradesh	1107.06	286.16	88.07
	Jammu & Kashmir	1505.29	405.27	240.60
	Punjab	13937.10	1890.94	404.12
	Rajasthan	10635.08	1211.22	492.78
	Uttar Pradesh	21889.71	4633.16	1438.00
	Chandigarh	458.96	154.39	86.70
	Delhi	7764.48	3406.48	1425.93
	Sub-Total	65388.61	13473.21	4402.97
WESTERN REGION	Gujarat	20000.30	2268.16	761.48
	Madhya Pradesh	16065.39	2839.95	577.75
	Maharashtra	34428.13	6115.59	2142.48
	Goa	598.58	151.93	44.43
	Daman & Diu	101.47	10.12	5.73
	D. & N Haveli	164.43	4.12	2.24
	Sub-Total	71358.30	11389.87	3534.11
SOUTHERN REGION	Andhra Pradesh	19335.57	2891.77	616.43
	Karnataka	12947.79	2062.35	295.76
	Kerala	5698.39	1858.83	721.06
	Tamil Nadu	19644.96	3236.12	1135.40
	Pondicherry	696.40	59.13	21.35
	Lakshadweep	9.16	6.19	1.87
	Sub-Total	58332.27	10114.39	2791.87
EASTERN REGION	Bihar	7858.41	511.61	325.04
	Orissa	5320.47	1331.34	317.74
	West Bengal	10030.46	2346.56	1041.36
	A. & N. Islands	46.15	18.62	12.76
	Sikkim	48.99	22.77	10.13
	Sub-Total	23304.48	4230.90	1707.03
NORTH EASTERN REGION	Assam	1482.29	232.00	110.00
	Manipur	198.42	88.02	14.33
	Meghalaya	237.55	43.31	43.81
	Nagaland	90.13	34.54	9.32
	Tripura	167.41	47.05	20.05
	Arunachal Pradesh	48.72	17.60	13.70
	Mizoram	65.42	46.19	5.57
	Sub-Total	2289.94	508.71	216.78
	Total (All India)	220673.60	39717.08	12652.76

Note:— Includes DVC's sales to ultimate consumers in Bihar & West Bengal areas.



TABLE NO.95 (Contd.)

ENERGY SALES TO ULTIMATE CONSUMERS (UTILITIES ONLY)  
OWNERSHIPWISE/REGIONWISE/STATEWISE  
DURING THE YEAR 1992-93

(GWH)

Region	State/U.Ts.	Industrial Power (Low & Medium Voltage)	Industrial Power (High Voltage)	Public lighting	Traction
NORTHERN REGION	Haryana	537.63	1376.69	36.77	0.00
	Himachal Pradesh	512.26	(A)	3.58	0.00
	Jammu & Kashmir	369.70	(A)	47.41	0.00
	Punjab	1330.12	(B)3645.42	30.02	0.00
	Rajasthan	954.21	3879.06	48.20	189.67
	Uttar Pradesh	1497.50	4471.00	214.05	675.00
	Chandigarh	70.08	113.46	14.15	0.00
	Delhi	1718.07	663.00	166.00	0.00
	Sub-Total	6989.57	14148.63	560.18	864.67
WESTERN REGION	Gujarat	2494.87	5847.22	111.06	294.83
	Madhya Pradesh	756.34	6939.33	101.13	716.14
	Maharashtra	3241.75	12092.09	353.82	1171.76
	Goa	32.23	318.01	10.80	0.00
	Daman & Diu	23.71	56.74	1.06	0.00
	D. & N Haveli	9.66	147.12	0.35	0.00
	Sub-Total	6558.56	25400.51	578.22	2182.73
SOUTHERN REGION	Andhra Pradesh	1045.27	5972.45	147.92	460.99
	Karnataka	794.75	4113.33	153.68	6.85
	Kerala	449.01	2190.42	116.97	0.00
	Tamil Nadu	1666.57	6875.39	144.75	282.00
	Pondicherry	29.61	483.37	5.75	0.00
	Lakshadweep	0.52	0.00	0.58	0.00
	Sub-Total	3985.73	19634.96	569.65	749.84
EASTERN REGION	Bihar	211.23	4546.94	33.48	547.63
	Orissa	551.55	2342.45	26.74	152.84
	West Bengal	678.85	4130.47	78.15	570.02
	A. & N. Islands	5.09	0.00	1.79	0.00
	Sikkim	8.29	0.00	7.80	0.00
	Sub-Total	1455.01	11019.86	147.96	1270.49
NORTH EASTERN REGION	Assam	(D) 333.00	448.00	17.00	0.00
	Manipur	18.42	24.56	8.19	0.00
	Meghalaya	84.92	(A)	3.14	0.00
	Nagaland	5.02	17.95	2.15	0.00
	Tripura	38.96	0.00	4.81	0.00
	Arunachal Pradesh	3.91	0.93	6.44	0.00
	Mizoram	1.05	0.00	3.33	0.00
	Sub-Total	485.28	491.44	45.06	0.00
	Total (All India)	19474.15	70695.40	1901.07	5067.73

Note:-\$- Include DVC's sales to ultimate consumers in Bihar & West Bengal areas.

(A)- Included in industrial(Low & Medium Voltage)

(B)- Includes 153.60 Gwh Sales to Nangal Fertilizers by BBMB.

(D)- Includes 193.00 Gwh Sold to Tea Gardens.

TABLE NO.55 (Contd.)

**ENERGY SALES TO ULTIMATE CONSUMERS (UTILITIES ONLY)  
OWNERSHIPWISE/REGIONWISE/STATEWISE  
DURING THE YEAR 1992-93**

(GWH)

Region	State/U.Ts.	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous
NORTHERN REGION	Haryana	4062.70	120.68	244.10
	Himachal Pradesh	14.14	121.70	81.15
	Jammu & Kashmir	148.77	155.04	138.50
	Punjab	6144.14	(C) 8.52	483.82
	Rajasthan	3097.19	469.81	292.94
	Uttar Pradesh	8536.00	425.00	0.00
	Chandigarh	2.29	(A)	17.89
	Delhi	43.00	255.00	87.00
	<b>Sub-Total</b>	<b>22048.23</b>	<b>1555.75</b>	<b>1345.40</b>
WESTERN REGION	Gujarat	7803.53	345.32	73.83
	Madhya Pradesh	3749.96	377.30	7.49
	Maharashtra	8068.33	1018.34	223.97
	Goa	8.98	32.20	0.00
	Daman & Diu	1.27	0.55	2.29
	D. & N Haveli	0.59	0.35	0.00
	<b>Sub-Total</b>	<b>19632.66</b>	<b>1774.06</b>	<b>307.59</b>
SOUTHERN REGION	Andhra Pradesh	8094.58	(A)	106.16
	Karnataka	5373.51	134.85	12.71
	Kerala	235.15	100.00	26.95
	Tamil Nadu	5226.46	262.72	815.55
	Pondicherry	85.42	7.17	4.60
	Lakshadweep	0.00	0.00	0.00
	<b>Sub-Total</b>	<b>19015.12</b>	<b>504.74</b>	<b>965.97</b>
EASTERN REGION	Bihar	\$ 1549.27	104.67	28.54
	Orissa	280.14	102.45	215.22
	West Bengal	\$ 738.27	247.38	199.40
	A. & N. Islands	0.00	0.17	7.72
	Sikkim	0.00	0.00	0.00
	<b>Sub-Total</b>	<b>2567.68</b>	<b>454.67</b>	<b>450.88</b>
NORTH EASTERN REGION	Assam	30.00	27.00	285.29
	Manipur	4.09	6.14	34.67
	Meghalaya	1.50	16.10	44.77
	Nagaland	0.00	2.30	18.85
	Tripura	28.51	26.83	1.20
	Arunachal Pradesh	0.00	1.19	4.95
	Mizoram	0.00	7.78	1.50
	<b>Sub-Total</b>	<b>64.10</b>	<b>87.34</b>	<b>391.23</b>
	<b>Total (All India)</b>	<b>63327.79</b>	<b>4376.56</b>	<b>3461.06</b>

Note:-(C)- It does not include energy supplied by PSEB to Public Water Works consumers which has been included in Agricultural category.

Miscellaneous:- Includes supply to non traction, non-industrial, M.E.S., Irrigation Board, Projects under construction etc.

TABLE NO.56

ENERGY SALES BY STATE ELECTRICITY BOARDS  
CATEGORYWISE/REGIONWISE DURING 1992-93

(GWH)

Region	ELECTRICITY BOARD	Total Energy Sold to Ultimate Consumers	Domestic	commercial
NORTHERN REGION	Haryana	8090.93	1485.59	226.77
	Himachal Pradesh	1083.27	283.15	88.07
	Jammu & Kashmir	1425.00	358.68	235.41
	Punjab	13488.24	1781.68	366.41
	Rajasthan	10446.84	1200.22	485.78
	Uttar Pradesh	21765.00	4577.00	1435.00
	Sub-Total	56299.28	9686.32	2837.44
WESTERN REGION	Gujarat	16920.95	1612.14	422.65
	Madhya Pradesh	15780.96	2730.31	569.50
	Maharashtra	26040.95	3549.18	850.74
	Sub-Total	58742.86	7891.63	1842.89
SOUTHERN REGION	Andhra Pradesh	18782.72	2825.07	610.49
	Karnataka	12896.51	2054.04	294.72
	Kerala	5637.00	1841.00	706.00
	Tamil Nadu	18435.00	3047.00	1030.00
	Sub-Total	55751.23	9767.11	2641.21
EASTERN REGION	Bihar (A)	5504.90	505.11	322.47
	Orissa	5297.38	1320.21	316.44
	West Bengal (A)	4611.30	951.00	351.74
	Sub-Total	15413.58	2776.32	990.65
NORTH REGION	Assam	1482.29	232.00	110.00
	Meghalaya	230.55	36.31	43.81
	Sub-Total	1712.84	268.31	153.81
	Total (All BOARDS)	187919.79	30389.69	8466.00

Note:-(A)- Excludes DVC's sales to ultimate consumers in Bihar & West Bengal

TABLE NO.56 (CONTD.)

ENERGY SALES BY STATE ELECTRICITY BOARDS  
CATEGORYWISE/REGIONWISE DURING 1992-93

(GWH)

Region	ELECTRICITY BOARD	Industrial (Low & Medium Voltage)	Industrial (High Voltage)	Public Lighting
NORTHERN REGION	Haryana	537.63	1376.69	36.77
	Himachal Pradesh	512.26	(B)	3.58
	Jammu & Kashmir	364.38	(B)	42.60
	Punjab	1244.49	3491.82	27.93
	Rajasthan	945.21	3760.82	43.20
	Uttar Pradesh	1488.00	4453.00	214.00
	Sub-Total	5091.97	13082.33	368.08
WESTERN REGION	Bujarat	1642.35	4847.64	84.54
	Madhya Pradesh	734.67	6939.33	98.96
	Maharashtra	1624.50	10083.41	276.57
	Sub-Total	4001.52	21870.38	460.07
SOUTHERN REGION	Andhra Pradesh	1030.21	5668.01	146.04
	Karnataka	791.84	4110.40	152.87
	Kerala	445.00	2172.00	113.00
	Tamil Nadu	1605.00	6113.00	132.00
	Sub-Total	3872.05	18063.41	543.91
EASTERN REGION	Bihar	204.73	2468.61	32.98
	Orissa	542.69	2342.45	26.67
	West Bengal	361.50	1597.75	26.60
	Sub-Total	1108.92	6408.81	86.25
NORTH REGION	Assam	(C) 333.00	448.00	17.00
	Meghalaya	84.92	0.00	3.14
	Sub-Total	417.92	448.00	20.14
	Total (All BOARDS)	14492.38	59872.93	1478.45

Note:- (B)-Included in Industrial (Low & Medium) voltage.  
(C)-Includes 193.00 Gwh sales to tea gardens.

Contd.....

TABLE NO.56 (Contd.)

		ENERGY SALES BY STATE ELECTRICITY BOARDS CATEGORYWISE/REGIONWISE DURING 1992-93				(GWH)
Region	Electricity Board	Traction	Agriculture	Public Water Works	Miscellaneous	
NORTHERN REGION	Haryana	0.00	4062.70	120.68	244.10	
	Himachal Pradesh	0.00	14.14	121.70	60.37	
	Jammu & Kashmir	0.00	146.88	142.38	134.67	
	Punjab	0.00	6144.07	(D)	431.84	
	Rajasthan	189.67	3062.19	466.81	292.94	
	Uttar Pradesh	675.00	8498.00	425.00	0.00	
	Sub-Total	864.67	21927.98	1276.57	1163.92	
WESTERN REGION	Gujarat	294.83	7783.00	233.80	0.00	
	Madhya Pradesh	716.14	3618.76	373.29	0.00	
	Maharashtra	615.04	7838.51	987.40	215.60	
	Sub-Total	1626.01	19240.27	1594.49	215.60	
SOUTHERN REGION	Andhra Pradesh	460.99	7936.90	(B)	105.01	
	Karnataka	6.85	5340.47	132.62	12.70	
	Kerala	0.00	235.00	100.00	25.00	
	Tamil Nadu	282.00	5160.00	257.00	809.00	
	Sub-Total	749.84	18672.37	489.62	951.71	
EASTERN REGION	Bihar	339.06	1527.27	104.67	0.00	
	Orissa	152.84	278.41	102.45	215.22	
	West Bengal	421.74	737.49	50.41	113.07	
	Sub-Total	913.64	2543.17	257.53	328.29	
NORTH REGION	Assam	0.00	30.00	27.00	285.29	
	Meghalaya	0.00	1.50	16.10	44.77	
	Sub-Total	0.00	31.50	43.10	330.06	
	Total (All India)	4154.16	62415.29	3661.31	2989.58	

Note:- (D)- Included in agriculture category.

Miscellaneous:- Includes supply to non-traction, non-industrial, MES, Irrigation Board, Projects under construction etc.

TABLE NO.57

ENERGY SALES BY PRIVATE LICENSEES  
CATEGORYWISE-REGIONWISE/STATEWISE DURING 1992-93  
(GWH)

Region	State/U.Ts.	Total energy sold to ultimate consumers	Domestic	Commercial
NORTHERN REGION	Jammu & Kashmir	39.27	5.57	5.19
	Rajasthan	70.00	11.00	7.00
	Uttar Pradesh	91.55	23.00	3.00
	Sub-Total	200.82	39.57	15.19
WESTERN REGION	Gujarat	3078.47	655.14	338.83
	Madhya Pradesh	234.43	59.64	8.25
	Maharashtra	6097.23	1645.38	532.04
	Sub-Total	9410.13	2360.16	879.12
SOUTHERN REGION	Andhra Pradesh	223.55	41.84	5.94
	Karnataka	51.28	8.31	1.04
	Kerala	27.87	5.18	0.96
	Tamil Nadu	115.86	26.33	5.05
	Sub-Total	418.56	81.66	12.99
EASTERN REGION	Bihar	42.00	6.50	2.50
	Orissa	23.09	11.13	1.30
	West Bengal	4586.12	1359.01	687.65
	Sub-Total	4651.21	1376.64	691.45
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
	Total (All India)	14680.72	3858.03	1598.75

Contd.

TABLE NO.57 (contd.)

ENERGY SALES BY PRIVATE LICENSEES  
CATEGORYWISE-REGIONWISE/STATEWISE DURING 1992-93

(BWH)

State/U.Ts.	Industrial Power (Low & Medium Voltage)	Industrial Power (Low & Medium Voltage)	Public Lighting	Traction
Jammu & Kashmir	5.32	0.00	4.81	0.00
Rajasthan	9.00	0.00	5.00	0.00
Uttar Pradesh	9.50	18.00	0.05	0.00
Sub-Total	23.82	18.00	9.86	0.00
Gujarat	852.52	999.58	26.52	0.00
Madhya Pradesh	21.67	0.00	2.17	0.00
Maharashtra	1457.00	1619.84	46.40	556.72
Sub-Total	2331.19	2619.42	75.09	556.72
Andhra Pradesh	15.06	0.00	1.88	0.00
Karnataka	2.91	2.93	0.81	0.00
Kerala	1.41	18.30	0.07	0.00
Tamil Nadu	7.45	6.92	2.47	0.00
Sub-Total	26.83	28.15	5.23	0.00
Bihar	6.50	4.00	0.50	0.00
Orissa	8.86	0.00	0.07	0.00
West Bengal	312.76	1862.57	51.00	41.00
Sub-Total	328.12	1866.57	51.57	41.00
Assam	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Sub-Total	0.00	0.00	0.00	0.00
Total (All India)	2709.96	4532.14	141.75	597.72

Contd.

TABLE NO.57 (contd.)

**ENERGY SALES BY PRIVATE LICENSEES  
CATEGORYWISE-REGIONWISE/STATEWISE DURING 1992-93**

(BWH)

Region	State/U.Ts.	Agricultural	Public Water Works & Sewage Pumping	Miscellaneous
NORTHERN REGION	Jammu & Kashmir	1.89	12.66	3.83
	Rajasthan	35.00	3.00	0.00
	Uttar Pradesh	38.00	0.00	0.00
	Sub-Total	74.89	15.66	3.83
WESTERN REGION	Gujarat	20.53	111.52	73.83
	Madhya Pradesh	131.20	4.01	7.49
	Maharashtra	229.82	10.01	0.02
	Sub-Total	381.55	125.54	81.34
SOUTHERN REGION	Andhra Pradesh	157.68	0.00	1.15
	Karnataka	33.04	2.23	0.01
	Kerala	0.00	0.00	1.95
	Tamil Nadu	63.98	1.33	2.33
	Sub-Total	254.70	3.56	5.44
EASTERN REGION	Bihar	22.00	0.00	0.00
	Orissa	1.73	0.00	0.00
	West Bengal	0.78	185.51	85.84
	Sub-Total	24.51	185.51	85.84
NORTH EASTERN REGION	Assam	0.00	0.00	0.00
	Meghalaya	0.00	0.00	0.00
	Sub-Total	0.00	0.00	0.00
	Total (All India)	735.65	330.27	176.45

Contd.



TABLE NO.58

ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY DEPARTMENTS,  
CENTRAL SECTOR, CORPORATIONS/GOVT.UNDER TAKINGS AND MUNICIPALITIES  
CATEGORYWISE/REGIONWISE/STATEWISE DURING 1992-93.

(GWH)

Region	State/U.Ts.	Total energy sold	Domestic	Commercial
<b>I. MUNICIPALITIES</b>				
NORTHERN REGION	Punjab	255.04	109.26	37.71
	D.E.S.U.	6915.00	3244.00	1120.00
	N.D.M.C.	750.00	150.00	305.93
WESTERN REGION	Maharashtra	2289.95	921.03	759.70
SOUTHERN REGION	Kerala	33.52	12.65	14.10
	Tamil Nadu	354.63	162.79	100.35
Sub-Total		10598.14	4599.73	2337.79
<b>II. GOVT.DEPTT./CENTRAL SECTOR UNDERTAKINGS/CORPORATION</b>				
NORTHERN REGION	Delhi (M.E.S.)	87.00	0.00	0.00
	Punjab (B.B.M.B.)	193.82	0.00	0.00
	H.P.(Bairasiul)	23.79	3.01	0.00
	Rajasthan (R.A.P.S.)	118.24	0.00	0.00
	Chandigarh	458.96	154.39	86.70
	Delhi (B.T.P.S.)	12.48	12.48	0.00
	U.P. (Central Sector)	33.16	33.16	0.00
J.&K. (Salal)	41.02	41.02	0.00	
WESTERN REGION	Goa	598.58	151.93	44.43
	Daman & Diu	101.47	10.12	5.73
	Dadra & Nagar Haveli	164.43	4.12	2.24
	M.P. (KSTPS+VSTPS)	50.00	50.00	0.00
	Gujarat (Kawas CCGT)	0.88	0.88	0.00
SOUTHERN REGION	Andhra Pradesh (T.B.Dam, Hampi, Machkund+RSTPS+A.P. Gas Power Corpn.)	329.30	24.86	0.00
	Pondicherry	696.40	59.13	21.35
	Lakshadweep	9.16	6.19	1.87
	Tamil Nadu (Neyveli I&II+ M.A.P.S.)	739.47	0.00	0.00
	EASTERN REGION	D.V.C. (Bihar)	2311.51	0.00
EASTERN REGION	D.V.C. (in West Bengal)	581.25	0.00	0.06
	Sikkim	48.99	22.77	10.13
	West Bengal (D.P.L.)	236.79	21.55	1.91
	A & N Islands	46.15	18.62	12.76
	Farakka (West Bengal)	15.00	15.00	0.00
	NORTH EASTERN REGION	Manipur	198.42	88.02
NORTH EASTERN REGION	Nagaland	90.13	34.54	9.32
	Tripura	167.41	47.05	20.05
	Arunachal Pradesh	48.72	17.60	13.70
	Mizoram	65.42	46.19	5.57
	Meghalaya (NEEPCO)	7.00	7.00	0.00
Sub-Total		7474.95	869.63	250.22
Total (I&II)		18073.09	5469.36	2588.01

TABLE NO.58 (Contd.)

ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY DEPARTMENTS,  
CENTRAL SECTOR, CORPORATIONS/GOVT.UNDER TAKINGS AND MUNICIPALITIES  
CATEGORYWISE/REGIONWISE/STATEWISE DURING 1992-93

(GWH)

Region	State/U.Ts.	Industrial Power (Low & Medium Voltage)	Industrial Power (High Voltage)	Public Lighting Traction	
<b>I. MUNICIPALITIES</b>					
NORTHERN REGION	Punjab	85.63	0.00	2.09	0.00
	D.E.S.U.	1424.00	663.00	166.00	0.00
	N.D.M.C.	294.07	0.00	(B)	0.00
WESTERN REGION	Maharashtra	160.25	388.84	30.85	0.00
SOUTHERN REGION	Kerala	2.60	0.12	3.90	0.00
	Tamil Nadu	54.12	16.00	10.28	0.00
Sub-Total		2020.67	1067.96	213.12	0.00
<b>II. GOVT.DEPTT./CENTRAL SECTOR UNDERTAKINGS/CORPORATION</b>					
NORTHERN REGION	Delhi (M.E.S.)	0.00	0.00	0.00	0.00
	Punjab (B.B.M.B.)	0.00	153.60	0.00	0.00
	H.P.(Bairasiul)	0.00	0.00	0.00	0.00
	Rajasthan (R.A.P.S.)	0.00	118.24	0.00	0.00
	Chandigarh	70.08	113.46	14.15	0.00
	Delhi (B.T.P.S.)	0.00	0.00	0.00	0.00
	U.P. (Central Sector)	0.00	0.00	0.00	0.00
J.&K. (Salal)	0.00	0.00	0.00	0.00	
WESTERN REGION	Goa	32.23	318.01	10.80	0.00
	Daman & Diu	23.71	56.74	1.06	0.00
	Dadra & Nagar Haveli	9.66	147.12	0.35	0.00
	M.P. (KSTPS+VSTPS)	0.00	0.00	0.00	0.00
	Gujarat (Kawas CCGT)	0.00	0.00	0.00	0.00
SOUTHERN REGION	Andhra Pradesh (T.B.Dam, Hampi, Machkund+RSTPS+A.P. Gas Power Corpn.)	0.00	304.44	0.00	0.00
	Pondicherry	29.61	483.37	5.75	0.00
	Lakshadweep	0.52	0.00	0.58	0.00
	Tamil Nadu (Neyveli I&II+ M.A.P.S.)	0.00	739.47	0.00	0.00
	EASTERN REGION	D.V.C. (Bihar)	0.00	2074.33	0.00
D.V.C. (in West Bengal)	0.00	473.91	0.00	107.28	
Sikkim	8.29	0.00	7.80	0.00	
West Bengal (D.P.L.)	4.59	196.24	0.55	0.00	
A & N Islands	5.09	0.00	1.79	0.00	
Farakka (West Bengal)	0.00	0.00	0.00	0.00	
NORTH EASTERN REGION	Manipur	18.42	24.56	0.00	0.00
	Nagaland	5.02	17.99	2.15	0.00
	Tripura	38.96	0.00	4.81	0.00
	Arunachal Pradesh	3.91	0.93	6.44	0.00
	Mizoram	1.05	0.00	3.33	0.00
	Meghalaya (NEEPCO)	0.00	0.00	0.00	0.00
Sub-Total		251.14	5222.37	59.56	315.85
Total (I&II)		2271.81	6290.33	272.68	315.85

TABLE NO.5B (contd.)

ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY DEPARTMENTS,  
CENTRAL SECTOR, CORPORATIONS/GOVT.UNDER TAKINGS AND MUNICIPALITIES  
CATEGORYWISE/REGIONWISE/STATEWISE DURING 1992-93.

(BWH)

Region	State/U.Ts.	Agricul- ture	Public Water Works & Sewage Pumping	Miscell- aneous
<b>I. MUNICIPALITIES</b>				
NORTHERN REGION	Punjab	0.07	8.52	11.76
	D.E.S.U.	43.00	255.00	0.00
	N.D.M.C.	0.00	0.00	0.00
WESTERN REGION	Maharashtra	0.00	20.93	8.35
SOUTHERN REGION	Kerala	0.15	0.00	0.00
	Tamil Nadu	2.48	4.39	4.22
Sub-Total		45.70	288.84	24.33
<b>II. GOVT.DEPTT./CENTRAL SECTOR UNDERTAKINGS/CORPORATION</b>				
NORTHERN REGION	Delhi (M.E.S.)	0.00	0.00	87.00
	Punjab (B.B.M.B.)	0.00	0.00	40.22
	H.P. (Bairasiul)	0.00	0.00	20.78
	Rajasthan (R.A.P.S.)	0.00	0.00	0.00
	Chandigarh	2.29	(A)	17.89
	Delhi (B.T.P.S.)	0.00	0.00	0.00
	U.P. (Central Sector)	0.00	0.00	0.00
	J.&K. (Salal)	0.00	0.00	0.00
WESTERN REGION	Goa	8.98	32.20	0.00
	Daman & Diu	1.27	0.55	2.29
	Dadra & Nagar Haveli	0.59	0.35	0.00
	M.P. (KSTPS+VSTPS)	0.00	0.00	0.00
	Gujarat (Kawas CCGT)	0.00	0.00	0.00
SOUTHERN REGION	Andhra Pradesh (T.B.Dam, Hampi, Machkund+RSTPS+A.P. Gas Power Corpn.)	0.00	0.00	0.00
	Pondicherry	85.42	7.17	4.60
	Lakshadweep	0.00	0.00	0.00
	Tamil Nadu (Neyveli I&II+ M.A.P.S.)	0.00	0.00	0.00
	EASTERN REGION	D.V.C. (Bihar)	0.00	0.00
D.V.C. (in West Bengal)	0.00	0.00	0.00	
Sikkim	0.00	0.00	0.00	
West Bengal (D.P.L.)	0.00	11.46	0.49	
A & N Islands	0.00	0.17	7.72	
Farakka (West Bengal)	0.00	0.00	0.00	
NORTH EASTERN REGION	Manipur	4.09	6.14	34.67
	Nagaland	0.00	2.30	18.85
	Tripura	28.51	26.83	1.20
	Arunachal Pradesh	0.00	1.19	4.95
	Mizoram	0.00	7.78	1.50
Meghalaya (NEEPCO)	0.00	0.00	0.00	
Sub-Total		131.15	96.14	270.70
Total (I&II)		176.85	384.98	295.03

(A) Included in Industrial LV &amp; MV category

TABLE NO.59

PATTERN OF ENERGY SALES (CATEGORYWISE)  
REGIONWISE/STATEWISE DURING 1992-93

Region	Name of the State/U.Ts.	Total Sales (GWH)	% age to Total Sales	
			Domestic	commercial
NORTHERN REGION	Haryana	8090.93	18.36	2.80
	Himachal Pradesh	1107.06	25.85	7.96
	Jammu & Kashmir	1505.29	26.92	15.98
	Punjab	13937.10	13.57	2.90
	Rajasthan	10635.08	11.39	4.63
	Uttar Pradesh	21889.71	21.16	6.57
	Chandigarh	458.96	33.64	18.89
	Delhi	7764.48	43.87	18.36
	Sub-Total	65388.61	20.60	6.73
WESTERN REGION	Gujarat	20000.30	11.34	3.81
	Madhya Pradesh	16065.39	17.68	3.60
	Maharashtra	34428.13	17.76	6.22
	Goa	598.58	25.38	7.42
	Daman & Diu	101.47	9.97	5.65
	D. & N Haveli	164.43	2.51	1.36
	Sub-Total	71358.30	15.96	4.95
SOUTHERN REGION	Andhra Pradesh	19335.57	14.95	3.19
	Karnataka	12947.79	15.93	2.28
	Kerala	5698.39	32.62	12.66
	Tamil Nadu	19644.96	16.47	5.78
	Pondicherry	696.40	8.49	3.06
	Lakshadweep	9.16	67.58	20.41
	Sub-Total	58332.27	17.34	4.79
EASTERN REGION	Bihar	7858.41	6.51	4.14
	Orissa	5320.47	25.02	5.97
	West Bengal	10030.46	23.39	10.38
	A. & N. Islands	46.15	40.34	27.65
	Sikkim	48.99	46.48	20.68
	Sub-Total	23304.48	18.15	7.33
NORTH EASTERN REGION	Assam	1482.29	15.65	7.42
	Manipur	198.42	44.36	7.22
	Meghalaya	237.55	18.23	18.44
	Nagaland	90.13	38.32	10.34
	Tripura	167.41	28.10	11.98
	Arunachal Pradesh	48.72	36.13	28.12
	Mizoram	65.42	70.61	8.51
	Sub-Total	2289.94	22.21	9.47
	Total (All India)	220673.60	18.00	5.73

For foot note please see table No.55.

TABLE NO.59 (Contd.)

PATTERN OF ENERGY SALES (CATEGORYWISE)  
REGIONWISE/STATEWISE DURING 1992-93

Region	Name of the State/U.Ts.	% age to Total Sales		
		Industrial Power	Public Lighting	Traction
NORTHERN REGION	Haryana	23.66	0.46	0.00
	Himachal Pradesh	46.27	0.32	0.00
	Jammu & Kashmir	24.56	3.15	0.00
	Punjab	35.70	0.22	0.00
	Rajasthan	45.45	0.46	1.78
	Uttar Pradesh	27.27	0.98	3.08
	Chandigarh	39.99	3.08	0.00
	Delhi	30.67	2.14	0.00
	Sub-Total	32.33	0.86	1.32
WESTERN REGION	Gujarat	41.71	0.56	1.47
	Madhya Pradesh	47.90	0.63	4.46
	Maharashtra	44.54	1.03	3.40
	Goa	58.51	1.81	0.00
	Daman & Diu	79.29	1.04	0.00
	D. & N Haveli	95.35	0.21	0.00
		Sub-Total	44.79	0.81
SOUTHERN REGION	Andhra Pradesh	36.29	0.77	2.39
	Karnataka	37.91	1.19	0.05
	Kerala	46.32	2.05	0.00
	Tamil Nadu	43.48	0.74	1.44
	Pondicherry	73.66	0.83	0.00
	Lakshadweep	5.68	6.33	0.00
		Sub-Total	40.49	0.98
EASTERN REGION	Bihar	60.55	0.43	6.97
	Orissa	54.39	0.50	2.87
	West Bengal	47.95	0.78	5.68
	A. & N. Islands	11.03	3.88	0.00
	Sikkim	16.92	15.92	0.00
		Sub-Total	53.53	0.63
NORTH EASTERN REGION	Assam	52.69	1.15	0.00
	Manipur	21.66	4.13	0.00
	Meghalaya	35.75	1.32	0.00
	Nagaland	25.49	2.39	0.00
	Tripura	23.27	2.88	0.00
	Arunachal Pradesh	9.93	13.22	0.00
	Mizoram	1.61	5.09	0.00
		Sub-Total	42.65	1.97
	Total (All India)	40.86	0.86	2.30

TABLE NO.59 (Contd.)

PATTERN OF ENERGY SALES (CATEGORYWISE)  
REGIONWISE/STATEWISE DURING 1992-93

Region	Name of the State/U.Ts.	% age to Total Sales		
		Agriculture	Public Water Works	Miscellaneous
NORTHERN REGION	Haryana	50.21	1.49	3.02
	Himachal Pradesh	1.28	10.99	7.33
	Jammu & Kashmir	9.89	10.30	9.20
	Punjab	44.08	(A) 0.06	3.47
	Rajasthan	29.12	4.42	2.75
	Uttar Pradesh	39.00	1.94	0.00
	Chandigarh	0.50	0.00	3.90
	Delhi	0.56	3.28	1.12
	Sub-Total	33.72	2.38	2.06
WESTERN REGION	Gujarat	39.02	1.72	0.37
	Madhya Pradesh	23.34	2.35	0.04
	Maharashtra	23.44	2.96	0.65
	Goa	1.50	5.38	0.00
	Daman & Diu	1.25	0.54	2.26
	D. & N Haveli	0.36	0.21	0.00
		Sub-Total	27.51	2.49
SOUTHERN REGION	Andhra Pradesh	41.86	0.00	0.55
	Karnataka	41.50	1.04	0.10
	Kerala	4.13	1.75	0.47
	Tamil Nadu	26.60	1.34	4.15
	Pondicherry	12.27	1.03	0.66
	Lakshadweep	0.00	0.00	0.00
		Sub-Total	32.60	0.86
EASTERN REGION	Bihar	19.71	1.33	0.36
	Orissa	5.27	1.93	4.05
	West Bengal	7.36	2.47	1.99
	A. & N. Islands	0.00	0.37	16.73
	Sikkim	0.00	0.00	0.00
	Sub-Total	11.02	1.95	1.94
NORTH EASTERN REGION	Assam	2.02	1.82	19.25
	Manipur	2.06	3.10	17.47
	Meghalaya	0.63	6.78	18.85
	Nagaland	0.00	2.55	20.91
	Tripura	17.03	16.02	0.72
	Arunachal Pradesh	0.00	2.44	10.16
	Mizoram	0.00	11.89	2.29
	Sub-Total	2.80	3.82	17.08
	Total (All India)	28.70	1.98	1.57

(A) It does not include energy consumption by consumers of Punjab State Electricity Board.

TABLE NO.60

ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY (UTILITIES+NON-UTILITIES)  
CATEGORYWISE/REGIONWISE/STATEWISE DURING 1992-93  
(KWH)

Region	Name of the State/U.Ts.	Population * (Million)	UTILITIES		
			Domestic	Commercial	Industrial (LV&MV)
NORTHERN REGION	Haryana	17.06	87.08	13.29	31.51
	Himachal Pradesh	5.33	53.69	16.52	96.11
	Jammu & Kashmir	8.00	50.66	30.07	46.21
	Punjab	20.78	91.00	19.45	64.01
	Rajasthan	45.55	26.59	10.82	20.95
	Uttar Pradesh	143.14	32.37	10.05	10.46
	Chandigarh	0.66	233.92	131.37	106.18
	Delhi	9.61	354.47	148.38	178.78
	Sub-Total	250.13	53.86	17.60	27.94
WESTERN REGION	Gujarat	42.52	53.34	17.91	58.68
	Madhya Pradesh	68.37	41.54	8.45	11.06
	Maharashtra	81.43	75.10	26.31	39.81
	Goa	1.21	125.56	36.72	26.64
	Daman & Diu	0.10	101.20	57.30	237.10
	D.& N.Haveli	0.14	29.43	16.00	69.00
	Sub-Total	193.77	58.78	18.24	33.84
SOUTHERN REGION	Andhra Pradesh	68.43	42.26	9.01	15.28
	Karnataka	46.13	44.71	6.41	17.23
	Kerala	29.76	62.46	24.23	15.09
	Tamil Nadu	56.77	57.00	20.00	29.35
	Pondicherry	0.83	71.24	25.72	35.68
	Lakshadweep	0.05	123.80	37.40	10.40
	Sub-Total	201.97	50.08	13.83	19.73
EASTERN REGION	Bihar	89.47	5.72	3.63	2.36
	Orissa	32.61	40.83	9.74	16.91
	West Bengal	69.96	33.54	14.88	9.70
	A.& N.Islands	0.29	64.21	44.00	17.55
	Sikkim	0.43	32.95	23.56	19.28
	Sub-Total	192.76	21.95	8.86	7.34
NORTH EASTERN REGION	Assam	23.21	10.00	4.74	14.35
	Manipur	1.91	46.08	7.50	9.65
	Meghalaya	1.84	23.54	23.81	46.15
	Nagaland	1.27	27.20	7.34	3.95
	Tripura	2.86	16.45	7.01	13.62
	Arunachal Pradesh	0.90	19.56	18.22	4.34
	Mizoram	0.72	64.14	7.74	1.46
	Sub-Total	32.71	15.55	6.63	14.84
	Total (All India)	871.34	45.58	14.52	22.36

\* Estimated population as on 1st October, 1992, obtained from the Office of the Registrar General of India.

TABLE NO.60 (Contd.)

ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY (UTILITIES+NON-UTILITIES)  
CATEGORYWISE/REGIONWISE/STATEWISE DURING 1992-93

(KWH)

Region	Name of the State/U.Ts.	UTILITIES			
		Industrial (H.V.)	Public Lighting	Traction	Agriculture
NORTHERN REGION	Haryana	80.70	2.16	0.00	238.14
	Himachal Pradesh	0.00	0.67	0.00	2.65
	Jammu & Kashmir	0.00	5.93	0.00	18.60
	Punjab	175.43	1.44	0.00	295.68
	Rajasthan	85.16	1.06	4.16	68.00
	Uttar Pradesh	31.24	1.50	4.72	59.63
	Chandigarh	171.91	21.44	0.00	3.47
	Delhi	68.99	17.27	0.00	4.48
	Sub-Total	56.57	2.24	3.46	88.15
WESTERN REGION	Gujarat	137.52	2.60	6.93	183.53
	Madhya Pradesh	101.50	1.48	10.47	54.85
	Maharashtra	148.50	4.35	14.38	99.08
	Goa	262.82	8.93	0.00	7.42
	Daman & Diu	567.40	10.60	0.00	12.70
	D.& N.Haveli	1050.86	2.50	0.00	4.21
	Sub-Total	131.08	2.98	11.27	101.32
SOUTHERN REGION	Andhra Pradesh	87.28	2.16	6.74	118.28
	Karnataka	89.17	3.33	0.15	116.49
	Kerala	73.60	3.93	0.00	7.90
	Tamil Nadu	121.11	2.55	4.97	92.06
	Pondicherry	582.37	6.93	0.00	102.92
	Lakshadweep	0.00	11.60	0.00	0.00
	Sub-Total	97.22	2.82	3.71	94.15
EASTERN REGION	Bihar	50.82	0.37	6.12	17.32
	Orissa	71.83	0.82	4.69	8.59
	West Bengal	59.04	1.12	8.15	10.55
	A.& N.Islands	0.00	6.17	0.00	0.00
	Sikkim	0.00	18.14	0.00	0.00
	Sub-Total	57.17	0.77	6.59	13.32
NORTH EASTERN REGION	Assam	19.30	0.73	0.00	1.29
	Manipur	12.86	4.29	0.00	2.14
	Meghalaya	0.00	1.71	0.00	0.82
	Nagaland	14.13	1.69	0.00	0.00
	Tripura	0.00	1.68	0.00	9.97
	Arunachal Pradesh	1.03	7.16	0.00	0.00
	Mizoram	0.00	4.63	0.00	0.00
	Sub-Total	15.02	1.38	0.00	1.96
	Total (All India)	81.13	2.18	5.82	72.68



TABLE NO.60 (Contd.)

ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY (UTILITIES+NON-UTILITIES)  
CATEGORYWISE/REGIONWISE/STATEWISE DURING 1992-93

(KWH)

Region	Name of the State/U.Ts.	UTILITIES	
		Public Water Works & Sewage Pumping	Miscellaneous
NORTHERN REGION	Haryana	7.07	14.31
	Himachal Pradesh	22.83	15.23
	Jammu & Kashmir	19.38	17.31
	Punjab	0.41	23.28
	Rajasthan	10.31	6.43
	Uttar Pradesh	2.96	0.00
	Chandigarh	0.00	27.10
	Delhi	26.54	9.05
	Sub-Total	6.22	5.38
WESTERN REGION	Gujarat	8.12	1.74
	Madhya Pradesh	5.52	0.11
	Maharashtra	12.51	2.75
	Goa	26.60	0.00
	Daman & Diu	5.50	22.90
	D.& N.Haveli	2.50	0.00
	Sub-Total	9.16	1.59
SOUTHERN REGION	Andhra Pradesh	0.00	1.55
	Karnataka	2.91	0.28
	Kerala	3.36	0.91
	Tamil Nadu	4.63	14.37
	Pondicherry	8.64	5.54
	Lakshadweep	0.00	0.00
	Sub-Total	2.50	4.78
EASTERN REGION	Bihar	1.17	0.32
	Orissa	3.14	6.60
	West Bengal	3.54	2.85
	A.& N.Islands	0.59	26.62
	Sikkim	0.00	0.00
	Sub-Total	2.36	2.34
NORTH EASTERN REGION	Assam	1.16	12.29
	Manipur	3.21	18.15
	Meghalaya	8.75	24.32
	Nagaland	1.82	14.84
	Tripura	9.38	0.42
	Arunachal Pradesh	1.32	5.50
	Mizoram	10.81	2.08
	Sub-Total	2.67	11.96
	Total (All India)	5.02	3.97

TABLE NO.60(Contd.)

ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY (UTILITIES+NON-UTILITIES)  
CATEGORYWISE/REGIONWISE/STATEWISE DURING 1992-93

(KWH)

Region	Name of the State/U.Ts.	Total Utilities	KWH from Self Generation of non-Utilities	Total (Utilities & Non-Utilities)
NORTHERN REGION	Haryana	474.26	32.98	507.24
	Himachal Pradesh	207.70	0.24	207.94
	Jammu & Kashmir	188.16	0.08	188.24
	Punjab	670.70	12.88	683.58
	Rajasthan	233.48	12.97	246.45
	Uttar Pradesh	152.93	25.69	178.62
	Chandigarh	695.39	19.29	714.68
	Delhi	807.96	15.30	823.26
	Sub-Total	261.42	21.03	282.45
WESTERN REGION	Gujarat	470.37	68.06	538.43
	Madhya Pradesh	234.98	45.61	280.59
	Maharashtra	422.79	15.79	438.58
	Goa	494.69	45.45	540.14
	Daman & Diu	1014.70	0.00	1014.70
	D.& N.Haveli	1174.50	0.00	1174.50
		Sub-Total	368.26	37.95
SOUTHERN REGION	Andhra Pradesh	282.56	29.93	312.49
	Karnataka	280.68	22.30	302.98
	Kerala	191.48	8.62	200.10
	Tamil Nadu	346.04	22.81	368.85
	Pondicherry	839.04	16.87	855.91
	Lakshadweep	183.20	0.00	183.20
	Sub-Total	288.82	22.98	311.80
EASTERN REGION	Bihar	87.83	29.20	117.03
	Orissa	163.15	133.80	296.95
	West Bengal	143.37	14.33	157.70
	A.& N.Islands	159.14	3.21	162.35
	Sikkim	113.93	0.00	113.93
	Sub-Total	120.90	41.49	162.39
NORTH EASTERN REGION	Assam	63.86	32.91	96.77
	Manipur	103.88	0.00	103.88
	Meghalaya	129.10	0.00	129.10
	Nagaland	70.97	1.93	72.90
	Tripura	58.53	0.00	58.53
	Arunachal Pradesh	54.13	0.00	54.13
	Mizoram	90.86	0.00	90.86
	Sub-Total	70.01	23.43	93.44
	Total (All India)	253.26	29.84	283.10

TABLE NO.61

## ENERGY CONSUMPTION PER SQUARE KILOMETER AND PER THOUSAND POPULATION (UTILITIES ONLY) REGIONWISE/STATEWISE DURING 1992-93

Region	Name of the State /U.T.s	population (Million) @	Area in 1000 Sq. Kms. \$	Total Energy Sold (GWH)
NORTHERN REGION	Haryana	17.06	44.21	8090.93
	Himachal Pradesh	9.33	55.67	1107.06
	Jammu & Kashmir	8.00	222.24	1505.29
	Punjab	20.78	50.36	13937.10
	Rajasthan	45.55	342.24	10635.08
	Uttar Pradesh	143.14	294.41	21889.71
	Chandigarh	0.66	0.11	458.96
	Delhi	9.61	1.48	7764.48
	Sub-Total	250.13	1010.72	65388.61
WESTERN REGION	Gujarat	42.52	196.02	20000.30
	Madhya Pradesh	68.37	443.45	16065.39
	Maharashtra	81.43	307.69	34428.13
	Gda	1.21	3.70	598.58
	Daman & Diu	0.10	0.11	101.47
	D. & N Haveli	0.14	0.49	164.43
	Sub-Total	193.77	951.46	71358.30
SOUTHERN REGION	Andhra Pradesh	68.43	275.07	19335.57
	Karnataka	46.13	191.79	12947.79
	Kerala	29.76	38.86	5698.39
	Tamil Nadu	56.77	130.06	19644.96
	Pondicherry	0.83	0.49	696.40
	Lakshadweep	0.05	0.03	9.16
	Sub-Total	201.97	636.30	58332.27
EASTERN REGION	Bihar	89.47	173.88	(A) 7858.41
	Orissa	32.61	155.71	5320.47
	West Bengal	69.96	88.75	(A) 10030.46
	A. & N. Islands	0.29	8.25	46.15
	Sikkim	0.43	7.10	48.99
	Sub-Total	192.76	433.69	23304.48
NORTH EASTERN REGION	Assam	23.21	78.44	1482.29
	Manipur	1.91	22.33	198.42
	Meghalaya	1.84	22.43	237.55
	Nagaland	1.27	16.58	90.13
	Tripura	2.86	10.49	167.41
	Arunachal Pradesh	0.90	83.74	48.72
	Mizoram	0.72	21.08	65.42
	Sub-Total	32.71	255.09	2289.94
	Total (All India)	871.34	3287.26	220673.60

Notes:- Source for area figures is "Statistical Abstract India 1990" published by the Central Statistical Organisation.

A- Includes consumption by ultimate consumers of DVC in Bihar and West Bengal respectively.

@- Source:- Office of the Registrar General of India.

TABLE NO.61

## ENERGY CONSUMPTION PER SQUARE KILOMETER AND PER THOUSAND POPULATION (UTILITIES ONLY) REGIONWISE/STATEWISE DURING 1992-93

Region	Name of the State /U.T.s	Energy Consumed per thousand of population (kwh)	Energy Consumed per Sq. Kms. (kwh)
NORTHERN REGION	Haryana	474263	183011
	Himachal Pradesh	207704	19886
	Jammu & Kashmir	188161	6773
	Punjab	670698	276749
	Rajasthan	233481	31075
	Uttar Pradesh	152925	74351
	Chandigarh	695394	4172364
	Delhi	807958	5246270
	Sub-Total	261419	64695
WESTERN REGION	Gujarat	470374	102032
	Madhya Pradesh	234977	36228
	Maharashtra	422794	111892
	Goa	494684	161778
	Daman & Diu	1014700	922454
	D. & N Haveli	114500	335571
	Sub-Total	368263	74999
SOUTHERN REGION	Andhra Pradesh	282560	70293
	Karnataka	280680	67510
	Kerala	191478	146639
	Tamil Nadu	346045	151045
	Pondicherry	839036	1421224
	Lakshadweep	183200	305333
	Sub-Total	288817	83775
EASTERN REGION	Bihar	87833	45194
	Orissa	163155	34169
	West Bengal	143374	113019
	A. & N. Islands	159138	5594
	Sikkim	113930	6900
	Sub-Total	120899	53735
NORTH EASTERN REGION	Assam	63864	18897
	Manipur	103885	8886
	Meghalaya	129103	10591
	Nagaland	70969	5436
	Tripura	58535	15959
	Arunachal Pradesh	54133	582
	Mizoram	90861	3103
	Sub-Total	70007	8977
	Total (All India)	253258	67130

TABLE No.62

## ELECTRICAL ACCIDENTS DURING 1992-93

State/U.Ts./ Central Undertakings	T O T A L		POWER HOUSES & SUB-STATIONS			
	Fatal	Non-Fatal	Electric Supply Undertaking		Industrial Undertaking	
			Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	210+90*	80	0	0	0	0
Assam	41+39*	22	0	0	0	0
Bihar	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Goa	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Gujarat	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Haryana	368	75	0	0	0	0
Himachal Pradesh	22+16*	62	2	6	0	0
Jammu & Kashmir	18+ 6*	20	0	0	0	0
Karnataka	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Kerala	155+50*	152+3*	1	3	0	0
Madhya Pradesh	391+519*	347	10+6*	30	0	0
Maharashtra	635+426*	511+1*	6	12	1	9
Manipur	6+15*	5	2+4*	2	0	0
Meghalaya	8+32*	5	0	0	0	0
Nagaland	2	3	0	1	1	0
Orissa	79+28*	62	1	2	0	0
Punjab	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Rajasthan	76+12*	84	5	2	0	1
Sikkim	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Tamil Nadu	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Tripura	4+20*	8	0	0	0	0
Uttar Pradesh	305+220*	164	37+8*	26	1	0
West Bengal	38+77*	0+137*	1+1*	7*	0	0
Mines	12	21	0	0	2	4
Central Govt. Installations (D)	65+9*	133	2+1*	0	1	18
Railways	22+36*	36	1	0	2	5
<b>UNION TERRITORIES</b>						
A.& N.Islands	2+8*	2	0	0	0	0
Arunachal Pradesh	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Chandigarh	2+8*	2	0	0	0	0
D.&N.Haveli	1	0	0	0	0	0
Delhi	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Daman & Diu	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Lakshadweep	0	0	0	0	0	0
Mizoram	6	5	0	0	0	0
Pondicherry	N.A.	N.A.	N.A.	N.A.	0	0
<b>Total (All India) (C)</b>	<b>2468+</b> 1575*	<b>1799+</b> 141*	<b>68+20*</b>	<b>89+7*</b>	<b>8</b>	<b>37</b>

\* Accidents involving animals.  
N.A.- Data not available.

TABLE No.62 (Contd.)

## ELECTRICAL ACCIDENTS DURING 1992-93

State/U.Ts./ Central Undertakings	TRANSMISSION LINES			
	Electric Supply Undertaking		Industrial Undertaking	
	Fatal	Non- Fatal	Fatal	Non- Fatal
Andhra Pradesh	0	0	0	0
Assam	0	0	0	0
Bihar	N.A.	N.A.	N.A.	N.A.
Goa	N.A.	N.A.	N.A.	N.A.
Gujarat	N.A.	N.A.	N.A.	N.A.
Haryana	0	75	0	0
Himachal Pradesh	4	1	0	0
Jammu & Kashmir	0	0	0	0
Karnataka	N.A.	N.A.	N.A.	N.A.
Kerala	7+5*	9	0	0
Madhya Pradesh	64+148*	109	0	0
Maharashtra	32+61*	64	11+1*	10
Manipur	2+1*	0	0	0
Meghalaya	8+32*	4	0	0
Nagaland	1	2	0	0
Orissa	36+14*	36	1	5
Punjab	N.A.	N.A.	N.A.	N.A.
Rajasthan	13+4*	23	1	0
Sikkim	N.A.	N.A.	N.A.	N.A.
Tamil Nadu	N.A.	N.A.	N.A.	N.A.
Tripura	0	0	0	0
Uttar Pradesh	34+9*	20	0	0
West Bengal	6+6*	0+7*	0	0
Mines	0	0	3	3
Central Govt. Installations(D)	47	94	0	0
Railways	0	2	0	0
UNION TERRITORIES				
A.& N. Islands	0	0	0	0
Arunachal Pradesh	N.A.	N.A.	N.A.	N.A.
Chandigarh	0	0	0	0
D.&N.Haveli	0	0	0	0
Delhi	N.A.	N.A.	N.A.	N.A.
Daman & Diu	N.A.	N.A.	N.A.	N.A.
Lakshadweep	0	0	0	0
Mizoram	0	0	4	0
Pondicherry	N.A.	N.A.	N.A.	N.A.
<b>Total (All India)</b>	<b>254+280*</b>	<b>439+7*</b>	<b>20+1*</b>	<b>18</b>

\* Accidents involving animals.  
N.A.- Data not available.

TABLE No.62 (Contd.)

## ELECTRICAL ACCIDENTS DURING 1992-93

State/U.Ts./ Central Undertakings	DISTRIBUTION LINES			
	Electricity Supply Undertaking		Industrial Undertaking	
	Fatal	Non- Fatal	Fatal	Non- Fatal
Andhra Pradesh	210+90*	80	0	0
Assam	41+39*	22	0	0
Bihar	N.A.	N.A.	N.A.	N.A.
Goa	N.A.	N.A.	N.A.	N.A.
Gujarat	N.A.	N.A.	N.A.	N.A.
Haryana	54	0	314	0
Himachal Pradesh	16+16*	55	0	0
Jammu & Kashmir	0	0	0	0
Karnataka	N.A.	N.A.	N.A.	N.A.
Kerala	137+45*	132+3*	10	8
Madhya Pradesh	165+353*	176	152+12*	32
Maharashtra	379+337*	380+1*	206+27*	36
Manipur	2+10*	3	0	0
Meghalaya	0	1	0	0
Nagaland	0	0	0	0
Orissa	35+13*	18	6+1*	1
Punjab	N.A.	N.A.	N.A.	N.A.
Rajasthan	54+8*	56	3	2
Sikkim	N.A.	N.A.	N.A.	N.A.
Tamil Nadu	N.A.	N.A.	N.A.	N.A.
Tripura	0	0	0	0
Uttar Pradesh	233+203*	118	0	0
West Bengal	31+70*	+122*	0	0+1*
Mines	0	0	7	12
Central Govt. Installations(D)	12+8*	5	3	13
Railways	11	16	8	13
<b>UNION TERRITORIES</b>				
A. & N. Islands	2+8*	2	0	0
Arunachal Pradesh	N.A.	N.A.	N.A.	N.A.
Chandigarh	2+8*	2	0	0
D. & N. Haveli	1	0	0	0
Delhi	N.A.	N.A.	N.A.	N.A.
Daman & Diu	N.A.	N.A.	N.A.	N.A.
Lakshadweep	0	0	0	0
Mizoram	2	5	0	0
Pondicherry	N.A.	N.A.	N.A.	N.A.
<b>Total (All India)</b>	<b>1387+1208*</b>	<b>1071+126*</b>	<b>709+40*</b>	<b>117+1*</b>

(C) Categorywise total may not tally with aggregate total as detail of accident of some States/UTs are not available.

(D) Includes 47 fatal accident and 94 non fatal accident in the Department of Telecommunication.

## **SECTION IX**

**Consumers & Connected Load**



**SECTION -IX**

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**CONSUMERS AND CONNECTED LOAD**

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During the year under review 3.75 million additional electricity connections were given to different categories of consumers bringing the total number of consumers to 77.94 millions as on 31st March, 1993 recording an increase of 5.05% over the previous year. The corresponding connected load of all categories of consumers rose to 149796.14 MW as compared to 135664.90 MW as on 31.3.1992 registering an increase of 10.42% over the previous year.

Domestic category continued to have the maximum number of consumers benefitted from electricity followed by agricultural and commercial categories. However, the industrial consumers had the maximum connected load of 49920 followed by domestic and agricultural sectors having connected load of 46183 MW and 36400 MW respectively.

Tables in this Section show the details of consumers and connected load of different categories in various States/Union Territories.

TABLE NO.63

CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD (UTILITIES)  
REGIONWISE/STATEWISE AS ON 31.3.1993

Region	State/U.Ts.	Total		Domestic	
		Connected load (KW)	Consumers	Connected load (KW)	Consumers
NORTHERN REGION	Haryana	5294685	2843656	1273530	2102374
	Himachal Pradesh	1341114	1051440	702747	923563
	Jammu & Kashmir (R)	455872	304012	138377	423056
	Punjab	8552831	4148073	2537797	2923844
	Rajasthan	6754854	3727555	1427162	2679573
	Uttar Pradesh	11612334	5289656	3567794	4012350
	Chandigarh	528114	138298	313693	119943
	Delhi	2986081	1910203	1422963	1587248
	Sub-Total	37525885	19612893	11384063	14771951
WESTERN REGION	Gujarat (R)	12762580	6323414	2850914	4798741
	Madhya Pradesh	8866655	6271535	1574021	4568184
	Maharashtra	22737330	11582285	6223780	8174798
	Goa	8733035	275059	8417588	225618
	D. & N Haveli	44103	17725	4448	15226
	Daman & Diu (R)	54946	21615	10292	17131
	Sub-Total	53198649	24491633	19081043	17799698
SOUTHERN REGION	Andhra Pradesh	11940623	7990349	2580437	5751935
	Karnataka	9592606	6147983	3083631	4409693
	Kerala	6601747	3972232	2009324	2968160
	Tamil Nadu	15293973	9118615	4147466	6333423
	Lakshadweep	11311	12915	7371	10609
	Pondicherry	326415	119490	64780	89237
	Sub-Total	43766675	27361584	11893009	19559057
EASTERN REGION	Bihar	5550606	1635790	869268	970963
	Orissa (R)	2243270	931151	509514	711203
	West Bengal (R)	4841372	2748158	1603384	2029992
	D.V.C.	520030	53	0	0
	A.& N. Islands	33025	42922	14268	33971
	Sikkim (R)	12122	35942	9595	30322
	Sub-Total	13200425	5394016	3006029	3776451
NORTH EASTERN REGION	Assam	1540676	602537	509992	355171
	Manipur (a)	51699	111316	37152	104664
	Meghalaya (R)	111359	84125	34403	71181
	Nagaland (R)	74870	70373	38328	57599
	Tripura (R)	135876	97020	60032	75040
	Arunachal Pradesh (R)	74851	57292	38386	41582
	Mizoram	115170	54749	100558	51817
	Sub-Total	2104501	1077412	818851	757054
	Total (All India)	149796135	77937538	46182995	56664211

(R):-Data repeated due to non-availability of information.

(a):-Figures of connected load repeated.

TABLE NO.63 (Contd.)

**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD (UTILITIES)  
REGIONWISE/STATEWISE AS ON 31.3.1993**

Region	State/U.Ts.	C O M M E R C I A L		I N D U S T R I A L (L.V.& M.V.)	
		Connected load(KW)	Consu- mers	Connected load(KW)	Consu- mers
NORTHERN REGION	Haryana	212604	279189	841723	70786
	Himachal Pradesh	186612	103527	336330	19196
	Jammu & Kashmir (R)	44387	61330	150262	11179
	Punjab	601669	455428	1410713	108498
	Rajasthan	423930	483648	1260846	112296
	Uttar Pradesh	952416	496660	1660322	179461
	Chandigarh	112311	15335	34975	2014
	Delhi	583743	234980	559851	62669
	Sub-Total	3117672	2130097	6255022	566099
WESTERN REGION	Gujarat (R)	848062	735134	2897448	266572
	Madhya Pradesh	497247	555874	1005241	95238
	Maharashtra	1760587	1262085	3325194	296396
	Goa	73254	35933	91787	6122
	D. & N Haveli	2321	1324	9456	301
	Daman & Diu (R)	3880	2698	22164	647
	Sub-Total	3185351	2593048	7331290	665276
SOUTHERN REGION	Andhra Pradesh	384042	568666	1939125	140791
	Karnataka	241024	578225	1442933	243101
	Kerala	452171	662723	983475	70883
	Tamil Nadu	929680	1061498	2451628	284293
	Lakshadweep	2433	2093	1316	149
	Pondicherry	29757	19838	50460	3402
	Sub-Total	2039107	2893043	6868937	742619
EASTERN REGION	Bihar	1317000	299271	1414224	86875
	Orissa (R)	127203	150565	361327	22319
	West Bengal (R)	677197	539618	1323617	109463
	D.V.C.	30	5	0	0
	A. & N. Islands	7597	7997	8303	369
	Sikkim (R)	300	5437	1910	183
	Sub-Total	2129327	1002893	3109381	219209
NORTH EASTERN REGION	Assam	167014	97101	69891	6466
	Manipur	4070	4549	5943	1401
	Meghalaya (R)	13286	11576	26736	822
	Nagaland (R)	5126	10784	10145	957
	Tripura (R)	16965	16965	36510	3651
	Arunachal Pradesh	17498	9579	1402	128
	Mizoram	6332	2847	719	46
	Sub-Total	230261	153401	151346	13471
	Total (All India)	10701718	8772482	23735976	2206674

TABLE NO.63 \*(Contd.)

CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD (UTILITIES)  
REGIONWISE/STATEWISE AS ON 31.3.1993

Region	State/U.Ts.	INDUSTRIAL (H.V.)		PUBLIC LIGHTING	
		Connected load (KW)	Consumers	Connected load (KW)	Consumers
NORTHERN REGION	Haryana	935804	2117	10262	5570
	Himachal Pradesh	0	0	1468	317
	Jammu & Kashmir (R)	2091	69	3222	54
	Punjab	1654184	1980	9266	872
	Rajasthan	1135065	962	21715	5630
	Uttar Pradesh	1958640	6136	46538	24817
	Chandigarh	45582	102	5248	357
	Delhi	251770	381	89328	2027
	Sub-Total	5983136	11747	187047	39644
WESTERN REGION	Gujarat (R)	2033416	2662	137333	16846
	Madhya Pradesh	2307658	1692	41755	26217
	Maharashtra	4049995	7550	102440	44636
	Goa	49868	313	39913	(E) 1277
	D. & N Haveli	26476	158	24	105
	Daman & Diu (R)	15737	101	210	101
	Sub-Total	8483150	12476	321675	87905
SOUTHERN REGION	Andhra Pradesh	1975200	3962	62909	53109
	Karnataka	1507875	2274	35218	15756
	Kerala	2507765	1214	30582	7250
	Tamil Nadu	2803392	3495	57023	60207
	Lakshadweep	0	0	191	64
	Pondicherry	125177	143	3039	(E) 659
	Sub-Total	8919409	11088	188962	137045
EASTERN REGION	Bihar	722020	1522	13057	6175
	Orissa (R)	771605	447	15967	4060
	West Bengal (R)	608305	2897	13431	520
	D.V.C.	425000	36	0	0
	A. & N. Islands	0	0	384	173
	Sikkim	0	0	67	0
	Sub-Total	2526930	4902	42906	10928
NORTH EASTERN REGION	Assam	265075	1462	7168	625
	Manipur	0	0	2028	435
	Meghalaya	0	0	711	226
	Nagaland (R)	5000	1	5022	923
	Tripura	0	0	1851	240
	Arunachal Pradesh	1398	26	7407	190
	Mizoram	0	0	1074	1
	Sub-Total	271473	1489	25261	2640
	Total (All India)	26184098	41762	765851	278162

(C) - Included in Industrial low and medium voltage.

(E) - Estimated.

TABLE NO.63 (Contd.)

**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD (UTILITIES)  
REGIONWISE/STATEWISE AS ON 31.3.1993**

Region	State/U.Ts.	TRACTION		AGRICULTURE	
		Connected load (KW)	Consumers	Connected load (KW)	Consumers
NORTHERN REGION	Haryana	0	0	1849161	379780
	Himachal Pradesh	0	0	35135	3834
	Jammu & Kashmir (R)	0	0	32933	867
	Punjab	0	0	2176337	657079
	Rajasthan	55875	7	2129639	427065
	Uttar Pradesh	198482	7	3101155	564386
	Chandigarh	0	0	1574	308
	Delhi	0	0	78426	22898
	Sub-Total	254357	14	9404560	2058217
WESTERN REGION	Gujarat (R)	87000	9	3346413	487912
	Madhya Pradesh	370526	48	2937819	995160
	Maharashtra	558795	40	6012458	1759740
	Goa	0	0	18547	5286
	D. & N Haveli	0	0	1167	525
	Daman & Diu (R)	0	0	2317	891
	Sub-Total	1016321	97	12318721	3249514
SOUTHERN REGION	Andhra Pradesh	244200	22	4682877	1408595
	Karnataka	0	1	3146040	880657
	Kerala	0	0	516840	260851
	Tamil Nadu	88421	12	4630384	1313599
	Lakshadweep	0	0	0	0
	Pondicherry	0	0	48706	9677
	Sub-Total	332621	35	13024847	3873379
EASTERN REGION	Bihar	116000	11	1043037	269665
	Orissa (R)	80998	10	229409	40284
	West Bengal (R)	136925	16	300265	64102
	D.V.C. (R)	90000	9	0	0
	A. & N. Islands	0	0	0	0
	Sikkim (R)	0	0	0	0
	Sub-Total	423923	46	1572711	374051
NORTH EASTERN REGION	Assam	0	0	63420	2114
	Manipur (R)	0	0	2506	14
	Meghalaya	0	0	801	32
	Nagaland (R)	0	0	0	0
	Tripura (R)	0	0	12318	926
	Arunachal Pradesh	0	0	0	0
Mizoram	0	0	0	0	
	Sub-Total	0	0	79045	3086
	Total (All India)	2027222	192	36399884	9598247

TABLE NO.63 (Contd.)

CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD (UTILITIES)  
REGIONWISE/STATEWISE AS ON 31.3.1993

Region	State/U.Ts.	PUBLIC WATER WORKS		MISCELLANEOUS	
		Connected load (KW)	Consumers	Connected load (KW)	Consumers
NORTHERN REGION	Haryana	56097	3459	115504	381
	Himachal Pradesh	47599	919	31223	84
	Jammu & Kashmir (R)	23438	698	61162	6759
	Punjab	F	F	162865	372
	Rajasthan	180927	13776	119495	4598
	Uttar Pradesh	126987	3839	0	0
	Chandigarh	6917	230	7814	9
	Delhi	H	H	0	0
	Sub-Total	441965	22921	498063	12203
WESTERN REGION	Gujarat (R)	531852	15140	30142	398
	Madhya Pradesh	127804	10549	4584	18573
	Maharashtra	493513	36685	210568	355
	Goa	42076	510	0	0
	D. & N Haveli	211	86	0	0
	Daman & Diu (R)	348	46	0	0
	Sub-Total	1195804	63016	245294	19326
SOUTHERN REGION	Andhra Pradesh	G	G	71833	63269
	Karnataka	135885	18276	0	0
	Kerala	80510	1146	21080	5
	Tamil Nadu	155546	33338	30433	28750
	Lakshadweep	0	0	0	0
	Pondicherry	3655	9	841	525E
	Sub-Total	375596	52769	124187	92549
EASTERN REGION	Bihar	56000	1308	0	0
	Orissa (R)	33796	1032	113491	1231
	West Bengal (R)	87071	1358	91177	192
	D.V.C. (R)	0	0	5000	3
	A. & N. Islands	63	14	2410	398
	Sikkim (R)	0	0	250	0
	Sub-Total	176930	3712	212288	1824
NORTH EASTERN REGION	Assam	25266	1208	432850	138390
	Manipur (R)	0	51	0	202
	Meghalaya	8703	106	26749	182
	Nagaland (R)	778	20	10471	89
	Tripura (R)	7890	167	310	31
	Arunachal Pradesh	46	77	8714	5710
Mizoram	3737	1	2750	37	
	Sub-Total	46420	1630	481844	144641
	Total (All India)	2236715	144048	1561676	270543

Note: In certain cases figures for the year 1992-93 may not be consistent with the previous year's figures because of improper reporting or revision of last year's data by Electricity Board/Licensees.

H - included under public lighting

E - Estimated

F- Consumers and connected load of Punjab SEB are included in agricultural category.

TABLE NO.64

AVERAGE ELECTRICITY CONSUMPTION PER CONSUMER  
REGIONWISE/STATEWISE/CATEGORYWISE DURING 1992-93  
(IN THOUSAND KWH)

Region	State/U.Ts.	Total Average all categories	Domestic	Commercial
NORTHERN REGION	Haryana	2.85	0.70	0.81
	Himachal Pradesh	1.05	0.31	0.85
	Jammu & Kashmir	2.99	0.96	3.92
	Punjab	3.36	0.65	0.89
	Rajasthan	2.85	0.45	1.02
	Uttar Pradesh	4.14	1.15	2.90
	Chandigarh Delhi	3.32 4.06	1.29 2.15	5.65 6.07
	Sub-Total	3.33	0.92	2.07
WESTERN REGION	Gujarat	3.16	0.47	1.03
	Madhya Pradesh	2.56	0.62	1.04
	Maharashtra	2.97	0.75	1.70
	Goa	2.18	0.67	1.24
	Dadra & N.Haveli Daman & Diu	9.28 4.69	0.27 0.59	1.69 2.12
		Sub-Total	2.91	0.64
SOUTHERN REGION	Andhra Pradesh	2.42	0.50	1.08
	Karnataka	2.11	0.47	0.51
	Kerala	1.43	0.62	1.09
	Tamil Nadu	2.15	0.51	1.07
	Pondicherry Lakshadweep	5.82 0.70	0.69 0.58	1.08 0.89
		Sub-Total	2.13	0.52
EASTERN REGION	Bihar	4.80	0.53	1.09
	Orissa	5.71	1.87	2.11
	West Bengal	3.65	1.16	1.93
	A.& N. Islands Sikkim	1.08 1.36	0.55 0.75	1.60 1.86
		Sub-Total	4.32	1.12
NORTH EASTERN REGION	Assam	2.46	0.65	1.13
	Manipur	1.78	0.84	3.15
	Meghalaya	2.82	0.61	3.78
	Nagaland	1.28	0.60	0.86
	Tripura	1.73	0.63	1.18
	Arunachal Pradesh Mizoram	0.85 1.19	0.42 0.89	1.43 1.96
		Sub-Total	2.13	0.67
	Total (All India)	2.83	0.70	1.44

For notes: Please see Table No.53 & 61

TABLE NO.64 (Contd.)

AVERAGE ELECTRICITY CONSUMPTION PER CONSUMER  
REGIONWISE/STATEWISE/CATEGORYWISE DURING 1992-93  
(IN THOUSAND KWH)

Region	State/U.Ts.	Industrial L.V. & H.V.	Industrial H.V.	Public Lighting
NORTHERN REGION	Haryana	7.60	650.30	6.60
	Himachal Pradesh	26.69	0.00	11.29
	Jammu & Kashmir	33.07	0.00	877.96
	Punjab	12.26	1841.12	34.43
	Rajasthan	8.50	4032.29	8.56
	Uttar Pradesh	8.34	728.65	8.63
	Chandigarh	34.80	1112.35	39.64
	Delhi	27.41	1740.16	81.89
	Sub-Total	12.35	1204.45	14.13
WESTERN REGION	Gujarat	9.36	2196.55	6.59
	Madhya Pradesh	7.94	4101.26	3.86
	Maharashtra	10.94	1601.60	7.93
	Goa	5.26	1016.01	8.46
	Dadra & N.Haveli	32.09	931.14	3.33
	Daman & Diu	36.65	561.72	10.50
		Sub-Total	9.99	2035.95
SOUTHERN REGION	Andhra Pradesh	7.42	1507.43	2.79
	Karnataka	3.27	1808.06	9.75
	Kerala	6.33	1804.30	16.34
	Tamil Nadu	5.86	1967.21	2.40
	Pondicherry	8.70	3380.21	8.73
	Lakshadweep	3.49	0.00	9.06
		Sub-Total	5.37	1770.67
EASTERN REGION	Bihar	2.43	2987.48	5.42
	Orissa	24.71	5240.38	6.59
	West Bengal	6.20	1425.77	150.29
	A. & N. Islands	13.79	0.00	10.34
	Sikkim	45.30	0.00	0.00
		Sub-Total	6.64	2248.03
NORTH EASTERN REGION	Assam	51.50	306.43	27.20
	Manipur	13.15	0.00	18.83
	Meghalaya	103.30	0.00	13.89
	Nagaland	5.25	1795.00	2.33
	Tripura	7.93	0.00	20.04
	Arunachal Pradesh	30.55	35.77	33.89
	Mizoram	22.83	0.00	333.00
		Sub-Total	36.02	330.05
	Total (All India)	8.83	1695.21	6.80

For notes: Please see Table No.53 & 61



TABLE NO.64 (Contd.)

AVERAGE ELECTRICITY CONSUMPTION PER CONSUMER  
REGIONWISE/STATEWISE/CATEGORYWISE DURING 1992-93  
(IN THOUSAND KWH)

Region	State/U.Ts.	Traction	Agricultural	Public Water Works
NORTHERN REGION	Haryana	0.00	10.70	34.88
	Himachal Pradesh	0.00	3.69	132.43
	Jammu & Kashmir	0.00	171.59	222.12
	Punjab	0.00	9.35	0.00
	Rajasthan	27095.71	7.25	35.12
	Uttar Pradesh	96428.57	15.07	110.71
	Chandigarh	0.00	7.43	0.00
	Delhi	0.00	1.88	0.00
	Sub-Total	61762.14	10.71	67.87
WESTERN REGION	Gujarat	32758.89	15.99	22.81
	Madhya Pradesh	14919.58	3.77	35.77
	Maharashtra	29294.00	4.58	27.76
	Goa	0.00	1.70	63.14
	Dadra & N.Haveli	0.00	1.12	4.07
	Daman & Diu	0.00	1.43	11.96
		Sub-Total	22502.37	6.04
SOUTHERN REGION	Andhra Pradesh	20954.09	5.75	0.00
	Karnataka	685.00	6.10	7.38
	Kerala	0.00	0.90	87.26
	Tamil Nadu	23500.00	3.98	7.88
	Lakshadweep	0.00	8.82	796.67
	Pondicherry	0.00	0.00	0.00
		Sub-Total	21424.00	4.91
EASTERN REGION	Bihar	49784.55	5.75	80.02
	Orissa	15284.00	6.95	99.27
	West Bengal	35626.25	11.52	182.16
	A.& N. Islands	0.00	0.00	12.14
	Sikkim	0.00	0.00	0.00
		Sub-Total	27619.35	6.86
NORTH EASTERN REGION	Assam	0.00	14.19	22.35
	Manipur	0.00	292.14	120.39
	Meghalaya	0.00	46.88	151.89
	Nagaland	0.00	0.00	115.00
	Tripura	0.00	30.79	160.66
	Arunachal Pradesh	0.00	0.00	15.45
	Mizoram	0.00	0.00	7780.00
		Sub-Total	0.00	20.77
	Total (All India)	26394.43	6.63	24.03

For notes: Please see Table No.53 & 61

TABLE NO.65

AVERAGE CONNECTED LOAD PER CONSUMER  
REGIONWISE/STATEWISE/CATEGORYWISE AS ON 31.3.1993

(IN KW)

Region	State/U.Ts.	Total Average all categories	Domestic	Commercial
NORTHERN REGION	Haryana	1.86	0.61	0.76
	Himachal Pradesh	1.28	0.76	1.80
	Jammu & Kashmir (R)	0.90	0.33	0.72
	Punjab	2.06	0.87	1.32
	Rajasthan	1.81	0.53	0.88
	Uttar Pradesh	2.20	0.64	1.92
	Chandigarh	3.82	2.62	7.32
	Delhi	1.56	0.90	2.48
	Sub-Total	1.91	0.77	1.46
WESTERN REGION	Gujarat (R)	2.02	0.59	1.14
	Madhya Pradesh	1.41	0.34	0.90
	Maharashtra	1.96	0.76	1.39
	Goa	31.75	37.31	2.04
	Dadra & N.Haveli	2.49	0.29	1.75
	Daman & Diu	2.54	0.60	1.44
	Sub-Total	2.17	1.07	1.23
SOUTHERN REGION	Andhra Pradesh	1.49	0.45	0.68
	Karnataka	1.56	0.70	0.42
	Kerala	1.66	0.68	0.68
	Tamil Nadu	1.68	0.65	0.88
	Pondicherry	0.88	0.69	1.16
	Lakshadweep	2.73	0.76	1.50
	Sub-Total	1.60	0.61	0.70
EASTERN REGION	Bihar	3.39	0.90	4.40
	Orissa (R)	2.41	0.72	0.85
	West Bengal (R)	1.77	0.78	1.24
	D.V.C.	9811.89	0.00	6.00
	A. & N. Islands	0.77	0.42	0.95
	Sikkim	0.34	0.32	0.55
	Sub-Total	2.45	0.80	2.12
NORTH EASTERN REGION	Assam	2.56	1.44	1.72
	Manipur	0.44	0.35	0.89
	Meghalaya	1.32	0.48	1.15
	Nagaland	1.06	0.67	0.48
	Tripura	1.40	0.80	1.00
	Arunachal Pradesh	1.30	0.92	1.83
	Mizoram	2.10	1.94	2.22
	Sub-Total	1.95	1.08	1.50
	Total (All India)	1.92	0.82	1.22

TABLE NO.65 (Contd.)  
AVERAGE CONNECTED LOAD PER CONSUMER  
REGIONWISE/STATEWISE/CATEGORYWISE AS ON 31.3.1993

(IN KW)

Region	State/U.Ts.	Industrial L.V. & M.V.	Industrial H.V.	Public Lighting
NORTHERN REGION	Haryana	11.89	442.04	1.84
	Himachal Pradesh	17.52	0.00	4.63
	Jammu & Kashmir (R)*	13.44	30.30	59.67
	Punjab	13.00	835.45	10.62
	Rajasthan	11.22	1179.90	3.86
	Uttar Pradesh	9.25	319.20	1.87
	Chandigarh	17.36	446.88	14.70
	Delhi	8.93	660.81	44.07
	Sub-Total	11.05	509.33	4.72
WESTERN REGION	Gujarat (R)	10.87	763.87	8.15
	Madhya Pradesh	10.56	1363.86	1.59
	Maharashtra	11.22	536.42	2.30
	Goa	14.99	159.33	31.26
	Dadra & N.Haveli	31.42	167.57	0.23
	Daman & Diu	34.26	155.81	2.08
		Sub-Total	11.04	679.96
SOUTHERN REGION	Andhra Pradesh	7.98	498.54	1.18
	Karnataka	9.94	662.80	2.24
	Kerala	13.87	2065.71	4.22
	Tamil Nadu	8.62	802.12	0.95
	Lakshadweep	8.83	0.00	2.98
	Pondicherry	14.83	875.36	4.61
		Sub-Total	9.25	804.35
EASTERN REGION	Bihar	16.28	474.39	2.11
	Orissa (R)	16.19	1726.19	3.93
	West Bengal (R)	12.09	209.98	25.83
	D.V.C.	0.00	11805.56	0.00
	A. & N. Islands	22.50	0.00	2.22
	Sikkim	10.48	0.00	0.00
		Sub-Total	14.18	515.49
NORTH EASTERN REGION	Assam	10.81	181.31	11.47
	Manipur	4.24	0.00	4.66
	Meghalaya	32.53	0.00	3.14
	Nagaland	10.60	5000.00	5.44
	Tripura	10.00	0.00	7.71
	Arunachal Pradesh	10.95	53.76	38.98
	Mizoram	15.63	0.00	1074.00
		Sub-Total	11.23	182.32
	Total (All India)	10.76	627.87	2.74

For Notes:-Please see Table No.61.

TABLE NO.65 (Contd.)  
AVERAGE CONNECTED LOAD PER CONSUMER  
REGIONWISE/STATEWISE/CATEGORYWISE AS ON 31.3.1993

(IN KW)

Region	State/U.Ts.	Traction	Agricul- tural	Public Water Works
NORTHERN REGION	Haryana	0.00	4.87	16.21
	Himachal Pradesh	0.00	9.16	51.79
	Jammu & Kashmir (R)	0.00	37.99	33.58
	Punjab	0.00	3.31	0.00
	Rajasthan	7982.14	4.99	13.53
	Uttar Pradesh	28354.57	5.48	33.08
	Chandigarh	0.00	5.11	30.07
	Delhi	0.00	3.43	0.00
	Sub-Total	18168.36	4.57	19.28
WESTERN REGION	Gujarat (R)	9666.67	6.86	35.13
	Madhya Pradesh	7719.29	2.95	12.12
	Maharashtra	13969.88	3.42	13.45
	Goa	0.00	3.50	82.50
	Dadra & N.Haveli	0.00	2.22	2.45
	Daman & Diu	0.00	2.60	7.56
	Sub-Total	10477.54	3.80	18.98
SOUTHERN REGION	Andhra Pradesh	11100.00	3.32	0.00
	Karnataka	0.00	3.57	7.44
	Kerala	0.00	1.98	70.25
	Tamil Nadu	7368.42	3.52	4.67
	Lakshadweep	0.00	0.00	0.00
	Pondicherry	0.00	5.03	406.11
	Sub-Total	9782.97	3.36	7.12
EASTERN REGION	Bihar	10545.45	3.87	42.81
	Orissa (R)	8099.80	5.70	32.75
	West Bengal (R)	8557.81	4.68	64.12
	D.V.C.	10000.00	0.00	0.00
	A. & N. Islands	0.00	0.00	4.50
	Sikkim	0.00	0.00	0.00
	Sub-Total	9215.72	4.20	47.66
NORTH EASTERN REGION	Assam	0.00	30.00	20.92
	Manipur	0.00	179.00	0.00
	Meghalaya	0.00	25.03	82.10
	Nagaland	0.00	0.00	38.90
	Tripura	0.00	13.30	47.25
	Arunachal Pradesh	0.00	0.00	0.60
	Mizoram	0.00	0.00	3737.00
	Sub-Total	0.00	25.61	28.48
	Total (All India)	10613.73	3.81	15.53

For Notes:-Please see Table No.61.

## **SECTION X**

### **Urban & Rural Electrification**

SECTION -X  
-----URBAN & RURAL ELECTRIFICATION  
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High Priority continued to be attached to the implementation of rural electrification work. The revised programme included among other measures, maximisation of power generation, electrification of all villages as speedily as possible and increase in irrigation potential through energisation of pump sets. Rural electrification programme is being implemented by the States and Union Territories in their respective areas under the State Plans supplemented by the REC (Rural Electrification Corporation) financing and loans from Financial Institutions. During the year 1992-93; 3669 villages were electrified bringing the total number of villages electrified to 490839 as on 31st March, 1993 which represents 84.8% of the total registered villages in the country. The States of Punjab, H.P., Gujarat, Maharashtra, Haryana, Goa, Andhra Pradesh, Karnataka and Kerala and the Union Territories of Chandigarh, Delhi, Pondicherry, Daman & Diu, Lakshadweep, Dadra & Nagar Haveli and Andaman & Nicobar Islands have already achieved 100% electrification of villages in their territories. Other States/U.Ts. which are likely to achieve 100% rural electrification in the near future are Tamil Nadu (99.9%), Nagaland (98.8%), Assam (97.7%).

On the regional basis, the Southern Region tops with 99.2% of villages electrified followed by Western Region (95.1%), North Eastern Region (92.4%), Northern Region (81.5%) and Eastern Region (71.6%). The rural population on all India basis enjoying the benefits of village electrification was 85.3% as on 31st March, 1993. All the 4,029 towns in the country stand already electrified.

The energisation of pumpsets also progressed satisfactorily. The total number of energised pump sets/tube wells in the country was 9851154 as on 31st March, 1993. Maharashtra have maximum number of energised pump sets (1760976) followed by Tamil Nadu (1402858).

The salient features of Rural Electrification are covered in various tables of this section.

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TABLE NO.66  
TOWN ELECTRIFIED VARIOUS POPULATION GROUPS  
REGIONWISE/STATEWISE AS ON 31.3.1993

Region	Name of the State/U.Ts.	Total no. of Towns (1981 Census)	POPULATION GROUPS (1981 CENSUS)		
			Below 5000	5000 to 9999	10000 to 19999
NORTHERN REGION	Haryana	81	2	23	25
	Himachal Pradesh	47	30	9	5
	Jammu & Kashmir	58	24	20	7
	Punjab	134	14	40	36
	Rajasthan	201	1	23	101
	Uttar Pradesh	704	87	236	215
	Chandigarh	4	1	0	1
	Delhi	30	0	15	4
Sub-Total		1259	159	366	394
WESTERN REGION	Gujarat	255	13	61	86
	Madhya Pradesh	327	5	114	119
	Maharashtra	307	16	48	100
	Goa Daman & Diu **	17	4	5	3
	D. & N Haveli	1	0	1	0
Sub-Total		907	38	229	308
SOUTHERN REGION	Andhra Pradesh	252	5	31	71
	Karnataka	281	17	51	112
	Kerala	106	1	6	21
	Tamil Nadu	434	70	90	123
	Lakshadweep	3	0	3	0
	Pondicherry	6	1	1	1
Sub-Total		1082	94	182	328
EASTERN REGION	Bihar	220	5	29	72
	Orissa	108	3	25	40
	West Bengal	291	20	63	92
	A.& N. Islands	1	0	0	0
	Sikkim	8	7	0	0
Sub-Total		628	35	117	204
NORTH EASTERN REGION	Assam *	80	8	23	26
	Manipur	32	16	9	4
	Meghalaya	12	3	3	2
	Nagaland	7	0	3	2
	Tripura	10	2	2	4
	Arunachal Pradesh	6	1	5	0
	Mizoram	6	0	4	1
Sub-Total		153	30	49	39
Total (All India)		4029	356	943	1273

\* As per 1971 Census.

\*\* Figures for Daman &amp; Diu are included in Goa.

TABLE NO.66 (Contd.)  
TOWN ELECTRIFIED VARIOUS POPULATION GROUPS  
REGIONWISE/STATEWISE AS ON 31.3.1993

Region	Name of the State/U.Ts.	POPULATION GROUPS (1981 CENSUS)			Total no. of Towns Electrified
		20000 to 49999	50000 to 99999	Over 1 Lakh	
NORTHERN REGION	Haryana	15	7	9	81
	Himachal Pradesh	2	1	0	47
	Jammu & Kashmir	5	0	2	58
	Punjab	27	10	7	134
	Rajasthan	55	10	11	201
	Uttar Pradesh	98	38	30	704
	Chandigarh	1	0	1	4
	Delhi	5	4	2	30
	Sub-Total	208	70	62	1259
WESTERN REGION	Gujarat	57	27	11	255
	Madhya Pradesh	48	27	14	327
	Maharashtra	89	25	29	307
	Goa Daman & Diu **	2	3	0	17
	D. & N Haveli	0	0	0	1
	Sub-Total	196	82	54	907
SOUTHERN REGION	Andhra Pradesh	91	33	21	252
	Karnataka	71	16	14	281
	Kerala	64	8	6	106
	Tamil Nadu	89	41	21	434
	Lakshadweep	0	0	0	3
	Pondicherry	1	1	1	6
	Sub-Total	316	99	63	1082
EASTERN REGION	Bihar	75	25	14	220
	Orissa	26	8	6	108
	West Bengal	52	40	24	291
	A. & N. Islands	1	0	0	1
	Sikkim	1	0	0	8
		Sub-Total	155	73	44
NORTH EASTERN REGION	Assam *	9	5	1	(*72) 80
	Manipur	2	0	1	32
	Meghalaya	3	0	1	12
	Nagaland	2	0	0	7
	Tripura	1	0	1	10
	Arunachal Pradesh	0	0	0	6
	Mizoram	0	1	0	6
		Sub-Total	17	6	4
	Total (All India)	892	330	227	4029

\* As per 1971 Census.

\*\* Figures for Daman & Diu are included in Goa.

Source:- Statistical Abstract-1990 India.



TABLE NO.67

VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS (1981 CENSUS)  
AND RURAL POPULATION BENEFITTED BY ELECTRICITY REGIONWISE/STATEWISE  
AS ON 31ST MARCH 1993.

Region	Name of the State State/U.Ts.	Total No. of Villages	VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS		
			Below 500	500 to 999	1000 to 1999
NORTHERN REGION	Haryana	6745	1499	1776	1983
	Himachal Pradesh	16807	15062	1241	363
	Jammu & Kashmir(+)	6477	3623	1556	763
	Punjab	12342	4434	3712	2919
	Rajasthan	34968	12840	7867	5157
	Uttar Pradesh (+)	112566	38537	23169	15501
	Chandigarh	24	6	6	5
	Delhi	214	18	36	73
	Sub-Total	190143	76019	39363	26564
WESTERN REGION	Gujarat	18114	4636	4956	5108
	Madhya Pradesh	71352	41997	16140	5947
	Maharashtra	39354	13571	12300	8940
	Goa	386	111	54	95
	Daman & Diu	26	9	2	7
	D. & N Haveli	70	14	16	27
	Sub-Total	129302	60338	33468	20124
SOUTHERN REGION	Andhra Pradesh	27379	8837	5227	6464
	Karnataka	27028	10809	7321	5219
	Kerala	1219	5	2	13
	Tamil Nadu	15831	2524	3169	4568
	Lakshadweep	7	1	0	1
	Pondicherry	291	126	83	52
	Sub-Total	71755	22302	15802	16317
EASTERN REGION	Bihar	67346	22405	11953	8022
	Orissa	46553	20354	8130	3371
	West Bengal	38024	10147	7900	6070
	A.& N. Islands	491	406	54	23
	Sikkim	440	202	136	59
	Sub-Total	153054	53514	28173	17545
NORTH EASTERN REGION	Assam	21995	10167	5791	2973
	Manipur	2035	1201	237	172
	Meghalaya	4902	1993	282	85
	Nagaland	1112	668	239	143
	Tripura (4727)*	856	2478	462	222
	Arunachal Pradesh (+)	3257	1534	146	62
	Mizoram (+)	721	353	126	58
	Sub-Total	34878	18394	7283	3715
	Total (All India)	579132	230567	124089	84265

\* As per 1971 Census.

(+ ) Population groupwise breakup estimated.

TABLE NO.67 (Contd.)

VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS (1981 CENSUS)  
AND RURAL POPULATION BENEFITTED BY ELECTRICITY REGIONWISE/STATEWISE  
AS ON 31ST MARCH 1993.

Region	Name of the State/U.Ts.	VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS			Total electrified as on 31.3.93
		2000 to 4999	5000 to 9999	10,000 & above	
NORTHERN REGION	Haryana	1346	221	20	6745
	Himachal Pradesh	92	3	0	16761
	Jammu & Kashmir(+)	224	9	0	6175
	Punjab	1256	120	1	12342
	Rajasthan	2269	309	18	28460
	Uttar Pradesh (+)	6287	710	52	84256
	Chandigarh	7	0	0	24
	Delhi	72	15	0	214
	Sub-Total	11553	1387	91	154977
WESTERN REGION	Gujarat (++)	2725	418	49	17892
	Madhya Pradesh	1291	87	6	65468
	Maharashtra (++)	3600	579	116	39106
	Goa (++)	85	31	1	377
	Daman & Diu	5	3	0	26
	D. & N Haveli	7	3	0	67
	Sub-Total	7713	1121	172	122936
SOUTHERN REGION	Andhra Pradesh (++)	5609	1058	163	27358
	Karnataka (++)	2709	393	32	26483
	Kerala	72	222	905	1219
	Tamil Nadu (++)	4379	1000	182	15822
	Lakshadweep	4	1	0	7
	Pondicherry	24	6	0	291
	Sub-Total	12797	2680	1282	71180
EASTERN REGION	Bihar	4090	855	173	47498
	Orissa	803	22	2	32682
	West Bengal	3570	686	82	28455
	A. & N. Islands	8	0	0	491
	Sikkim (++)	8	0	0	405
	Sub-Total	8479	1563	257	109531
NORTH EASTERN REGION	Assam *	731	26	1	21481
	Manipur	79	8	0	1697
	Meghalaya	24	0	0	2384
	Nagaland	41	7	1	1099
	Tripura *	65	1	0	3228
	Arunachal Pradesh (+)	15	2	0	1759
	Mizoram (+)	30	0	0	567
	Sub-Total	985	44	2	32215
	Total (All India)	41527	6795	1804	490839

\* As per 1971 Census.

(+ ) Population groupwise breakup estimated.

(++) Balance villages non-feasible

TABLE NO.67 (Contd.)

VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS (1981 CENSUS)  
AND RURAL POPULATION BENEFITTED BY ELECTRICITY REGIONWISE/STATEWISE  
AS ON 31ST MARCH 1993.

Region	Name of the State/U.Ts.	% age electrified	Villages electrified during 1992-93	Total Rural Population (Lakhs) 1981 Census	Rural Population covered (Lakhs) 1981 Census	% Population covered 1981 Census
NORTHERN REGION	Haryana	100.00	@	100.95	100.95	100.00
	Himachal Pradesh	100.00	@	39.55	39.55	100.00
	Jammu & Kashmir	95.30	5	47.27	(a)25.89	54.80
	Punjab	100.00	@	121.41	121.41	100.00
	Rajasthan	81.40	689	270.51	249.93	92.40
	Uttar Pradesh	74.90	947	909.63	824.14	90.60
	Chandigarh	100.00	@	0.29	0.29	100.00
	Delhi	100.00	@	4.52	4.52	100.00
Sub-Total		81.50	1641	1494.13	1366.68	91.50
WESTERN REGION	Gujarat	100.00	@	234.84	234.84	100.00
	Madhya Pradesh	91.80	605	415.92	320.60	77.10
	Maharashtra	100.00	@	407.91	407.91	100.00
	Goa	100.00	@	6.85	6.85	100.00
	Daman & Diu	100.00	@	0.50	0.50	100.00
	D. & N Haveli	100.00	@	0.97	0.97	100.00
Sub-Total		95.10	605	1066.99	971.67	91.10
SOUTHERN REGION	Andhra Pradesh	100.00	@	410.62	410.62	100.00
	Karnataka	100.00	@	264.06	264.06	100.00
	Kerala	100.00	@	206.82	206.82	100.00
	Tamil Nadu	100.00	@	324.56	324.56	100.00
	Lakshadweep	100.00	@	0.22	0.22	100.00
	Pondicherry	100.00	@	2.88	2.88	100.00
Sub-Total		100.00	@	1209.16	1209.16	100.00
EASTERN REGION	Bihar	70.30	258	611.96	(b)224.90	36.80
	Orissa	70.20	200	232.60	(e)189.94	81.70
	West Bengal	74.80	435	401.34	354.72	88.40
	A.& N. Islands	100.00	@	1.39	1.39	100.00
	Sikkim	100.00	0	2.65	2.65	100.00
Sub-Total		71.60	893	1249.94	773.60	62.00
NORTH EASTERN REGION	Assam	97.70	17	178.50	(d)120.83	67.70
	Manipur	83.40	60	10.46	(e) 7.10	67.90
	Meghalaya	48.60	69	10.94	(f) 6.92	63.30
	Nagaland	98.80	0	6.55	6.53	99.70
	Tripura	68.30	200	18.28	12.60	68.90
	Arunachal Pradesh	54.00	134	5.90	(c) 2.00	33.00
	Mizoram	78.60	50	3.72	(g) 2.79	75.00
Sub-Total		92.40	530	234.35	158.77	67.80
Total (All India)		84.80	3669	5254.97	4479.88	85.30

\* As per 1971 Census. @ Centpercent villages electrified.  
 \*\* Provisional  
 (a) as on 31.12.79 (e) as on 31.3.89  
 (b) as on 30.4.90 (f) as on 31.3.91  
 (c) as on 31.3.85 (g) as on 31.7.91  
 (d) as on 31.3.88

TABLE NO.68  
IRRIGATION PUMPSETS/TUBEWELLS ENERGISED-REGIONWISE/STATEWISE  
AS ON 31ST MARCH, 1993

Region	Name of the State/U.Ts.	No. of Pumpsets Energised	AGRICULTURAL CONSUMPTION	
			Quantum (GWH)	% to total in the State
NORTHERN REGION	Haryana	396639	4062.70	50.21
	Himachal Pradesh	3755	14.14	1.28
	Jammu & Kashmir	2920	148.77	9.89
	Punjab	639343	6144.14	44.08
	Rajasthan	439120	3097.19	29.12
	Uttar Pradesh	694902	8536.00	39.00
	Chandigarh	623	2.29	0.50
	Delhi	22368	43.00	0.56
	Sub-Total	2199667	22048.23	33.72
WESTERN REGION	Gujarat	512780	7803.53	39.02
	Madhya Pradesh	1003900	3749.96	23.34
	Maharashtra	1760976	8068.33	23.44
	Goa	4677	8.98	1.50
	Daman & Diu	664	1.27	1.25
	D. & N Haveli	416	0.59	0.36
		Sub-Total	3283413	19632.66
SOUTHERN REGION	Andhra Pradesh	1398049	8094.58	41.86
	Karnataka	869461	5373.51	41.50
	Kerala	265224	235.15	4.13
	Tamil Nadu	1402858	5226.46	26.60
	Pondicherry	9678	85.42	12.27
	Lakshadweep	0	0.00	0.00
	Sub-Total	3945270	19015.12	32.60
EASTERN REGION	Bihar	261100	1549.27	19.71
	Orissa	61428	280.14	5.27
	West Bengal	94710	738.27	7.36
	A. & N. Islands	1	0.00	0.00
	Sikkim	0	0.00	0.00
	Sub-Total	417239	2567.68	11.02
NORTH EASTERN REGION	Assam	3675	30.00	2.02
	Manipur	45	4.09	2.06
	Meghalaya	65	1.50	0.63
	Nagaland	172	0.00	0.00
	Tripura	1608	28.51	17.03
	Arunachal Pradesh	0	0.00	0.00
	Mizoram	0	0.00	0.00
	Sub-Total	5565	64.10	2.80
	Total (All India)	9851154	63327.79	28.70

TABLE NO.68  
IRRIGATION PUMPSETS/TUBEWELLS ENERGISED-REGIONWISE/STATEWISE  
AS ON 31ST MARCH,1993

Region	Name of the State/U.Ts.		Agricultural Connected Load(KW)	Average Capacity per pumpset (KW)	Average Consumption per pumpset (KWh)
NORTHERN REGION	Haryana		1849161	4.66	10243
	Himachal Pradesh		35135	9.36	3766
	Jammu & Kashmir	(R)	32933	11.28	50949
	Punjab		2176337	3.40	9610
	Rajasthan		2129839	4.85	7053
	Uttar Pradesh		3101155	4.46	12284
	Chandigarh		1574	2.53	3676
	Delhi		78426	3.51	1923
	Sub-Total		9404560	4.27	10023
WESTERN REGION	Gujarat	(R)	3346413	6.53	15218
	Madhya Pradesh		2937819	2.93	3735
	Maharashtra		6012458	3.41	4582
	Goa		18547	3.96	1920
	Daman & Diu	(R)	2317	3.49	1913
	D. & N Haveli		1167	2.80	1418
	Sub-Total		12318721	3.75	5979
SOUTHERN REGION	Andhra Pradesh		4682877	3.35	5790
	Karnataka		3146040	3.62	6180
	Kerala		516840	1.95	887
	Tamil Nadu		4630384	3.30	3725
	Pondicherry		48706	5.03	8826
	Lakshadweep		0	0.00	0
	Sub-Total		13024847	3.30	4820
EASTERN REGION	Bihar		1043037	3.99	5934
	Orissa	(R)	229409	3.73	4560
	West Bengal	(R)	300265	3.17	7795
	A.& N. Islands		0	0.00	0
	Sikkim		0	0.00	0
	Sub-Total		1572711	3.77	6154
NORTH EASTERN REGION	Assam		63420	17.26	8163
	Manipur	(R)	2506	55.69	90889
	Meghalaya		801	12.32	23077
	Nagaland	(R)	0	0.00	0
	Tripura		12318	7.66	17730
	Arunachal Pradesh		0	0.00	0
	Mizoram		0	0.00	0
	Sub-Total		79045	14.20	11518
	Total (All India)		36399884	3.69	6428

R=Repeated.