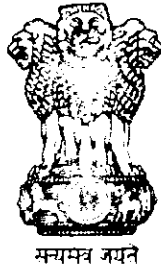


अखिल भारतीय विद्युत सांख्यिकी
ALL INDIA ELECTRICITY STATISTICS
सामान्य पुनरवलोकन 2002–03
GENERAL REVIEW 2002-03



केन्द्रीय विद्युत प्राधिकरण
विद्युत मंत्रालय
भारत सरकार, नई दिल्ली
Central Electricity Authority
MINISTRY OF POWER
GOVERNMENT OF INDIA, NEW DELHI

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General Review 2002-03

Central Electricity Authority

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H.L. BAJAJ
Chairman, Central Electricity Authority
& Ex-Officio Secretary
Government Of India

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FOREWORD

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CEA has been regularly publishing the "All India Electricity Statistics – General Review". This is an annual publication of the CEA, which gives vital electricity statistics of Indian power sector on installed generating capacity, energy production, captive power plants in industries, transmission and distribution, consumption pattern of power, villages electrified, pump sets energized, per capita consumption of electricity etc. The document carries considerable value to the National & International users, who base their various studies and investigations regarding Indian Electricity Sector on the contents of this document.

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Basic data is collected from all Power Utilities in Central/State/Private Sectors, Cooperative Societies, Municipal Licensees as well as from Industries having captive power plants. It gives me a great pleasure in releasing the General Review for the year 2002-03 during the current year itself as a result of concerted efforts of CEA officers and wholehearted cooperation of utilities of the Indian Electricity Sector.

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I am sure that General Review of 2002-03, compiled in fulfillment of CEA's obligation under the Electricity Act, 2003 will prove its usefulness to all those who are involved in the rapid & sustained development of the Indian Power Sector.

A handwritten signature in black ink, appearing to read 'H.L. BAJAJ', with a horizontal line underneath.

Dated 27th February, 2004

(H.L. BAJAJ)



हरबन्स लाल बजाज
अध्यक्ष, केन्द्रीय विद्युत प्राधिकरण
तथा पदेन सचिव, भारत सरकार

प्राक्कथन

"अखिल भारत विद्युत सांख्यिकी - सामान्य पुनरवलोकन" का प्रकाशन केन्द्रीय विद्युत प्राधिकरण नियमित रूप से करता रहा है। यह के.वि.प्रा. का वार्षिक प्रकाशन है जिसमें प्रति उद्दिष्ट उत्पाद क्षमता, विद्युत उत्पादन, उद्योगों में कैपिटल व्यय, संयंत्रों, संयंत्रों तथा वितरण, विद्युत खपत की प्रवृत्ति, विद्युतीकृत ग्रामों, ऊर्जित पम्प सैटों, बिजली की प्रतिव्यक्ति खपत आदि पर भारतीय विद्युत क्षेत्र की महत्वपूर्ण विद्युत सांख्यिकी का उल्लेख होता है। यह प्रलेख राष्ट्रीय एवं अन्तरराष्ट्रीय प्रयोक्ताओं के लिए अत्याधिक महत्व रखता है जोकि भारतीय विद्युत क्षेत्र से संबंधित विभिन्न अध्ययन एवं अनुसंधान के लिए इसमें सही सूचना का उपयोग करते हैं।

मूल आंकड़े केन्द्र/राज्य/निजी क्षेत्रों की सभी विद्युत यूटिलिटीज, सहकारी समितियों, नागरिक अनुज्ञापित धारियों एवं कैपिटल विद्युत संयंत्रों वाले उद्योगों से एकत्रित किए गए हैं। गत वर्ष 2002-03 से संबंधित सामान्य पुनरवलोकन को वर्तमान वर्ष में ही जारी करते हुए मैं अति हर्षित हूँ जोकि केन्द्रीय विद्युत प्राधिकरण के अधिकारियों के अथक प्रयत्न एवं भारतीय विद्युत क्षेत्र की विद्युत यूटिलिटीज के पूर्ण हार्दिक सहयोग का परिणाम है।

मुझे विश्वास है कि वर्ष 2002-03 का सामान्य पुनरवलोकन जो कि विद्युत अधिनियम, 2003 में समाहित के.वि.प्रा. के उत्तरदायित्व की पूर्ति के लिए किया गया है, उन सभी व्यक्तियों पर अपनी उपयोगिता सिद्ध करेगा जोकि भारतीय विद्युत क्षेत्र के द्रुत व सतत विकास से संबंधित है।

हरबन्स लाल बजाज

27 फरवरी, 2004

(हरबन्स लाल बजाज)



वी.एस. वर्मा
सदस्य (योजना) (केन्द्रीय विद्युत प्राधिकरण)
तथा पदेन अतिरिक्त सचिव, भारत सरकार

प्रस्तावना

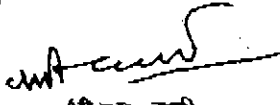
लगभग 50 वर्ष पूर्व आरंभ हुए योजना युग के साथ ही भारत में विद्युत शक्ति क्षेत्र ने गति से विकास किया है। प्रतिष्ठापित क्षमता तथा निर्मित पारेषण लाइनों की लंबाई दोनों ही क्षेत्रों में विद्युत क्षेत्र का विकास बहुत महत्वपूर्ण रहा।

उपर्युक्त उपलब्धियों के उपरान्त भी मुख्यतः संसाधनों की कमी के कारण मार वृद्धि में तीव्र विकास के साथ मेल बैठाना संभव नहीं हो सका है। के.वि.प्रा. ने देश में विद्युत के समग्र विकास के विभिन्न विशिष्ट क्षेत्रों में, जैसे कि नवीन प्रौद्योगिकी के प्रवेश, परियोजनाओं की तकनीकी - आर्थिक स्वीकृति, उत्पादन तथा पारेषण आयोजना, निष्पादन, परियोजनाओं का प्रचालन तथा निर्माण प्रबोधन, परामर्श, पारेषण प्रणाली विकास आदि में महत्वपूर्ण योगदान दिया है।

विद्युत क्षेत्र से जुड़े विशाल प्रमाणिक आंकड़ों का सभेकन, विश्लेषण तथा प्रकाशन एक वृहद कार्य है। इस दिशा में के.वि.प्रा. अपने कर्तव्य का निर्वाह करते हुए अनेक रिपोर्टों तथा दैनिक, मासिक एवं वार्षिक आधार पर विश्लेषण प्रकाशित करता है।

केन्द्रीय विद्युत प्राधिकरण विद्युत क्षेत्र के अनेक सार्वजनिक/गैर-सार्वजनिक संस्थानों द्वारा भेजी गई सूचना/आंकड़ों के आधार पर प्रतिवर्ष 'अखिल भारतीय विद्युत सांख्यिकी - सामान्य पुनरवलोकन' का प्रकाशन करता है तथा 2002-03 का वर्तमान 'सामान्य पुनरवलोकन' इस श्रृंखला के सतत क्रम में है। अधिकांश सार्वजनिक संस्थान तथा गैर सार्वजनिक संस्थानों ने प्राधिकरण को आंकड़े प्रस्तुत कर दिए हैं। जहाँ कुछ संगठनों ने आंकड़े नहीं भेजे वहाँ इस प्रकाशन में प्रस्तुत कुछ प्रमुख विशेषताओं की अखिल भारत तस्वीर को पूरा करने के लिए सुसंगत अनुमान लगाए गए हैं।

इन आंकड़ों/सूचनाओं का संकलन तथा प्रक्रमण आंकड़ा प्रबंधन एवं मार पूर्वानुमान प्रभाग, के सभी अधिकारियों की सहायता एवं श्री विष्णु भगवान गुप्ता, मुख्य अभियन्ता, के व्यक्तिगत देखभाल में समय पर प्रकाशित करने में विशेष योगदान रहा है।


(वी.एस. वर्मा)

दिनांक 27 फरवरी, 2004



Central Electricity Authority
Ministry of Power
Government of India

INTRODUCTION

All India Electricity Statistics "General Review" is published yearly by the Central Electricity Authority. This publication presents salient features of the progress and development of Indian Electricity sector. It is divided into 10 main Sections plus a Zero Section giving various aspects of the progress achieved by the electricity supply industry in various States/Union Territories in the country during the year 2002-03 and growth of power sector respectively.

A brief "Overview" of the power development upto 31st March, 2003 is placed at the beginning of the document. Salient features of progress made by the Indian Electricity Sector during 2002-03 are as under:

- Addition to generating capacity was 2831 MW in utilities raising the cumulative installed capacity in the country to 107877 MW. Percentage growth over the previous year was 2.70% in the case of Public Utilities.
- The increase in electricity generation in utilities during 2002-03 was 2.95% over that of previous year.
- There has been an addition of 4.50 millions new consumers during the year, increasing the total number of consumers of all categories to 126.96 million. The total connected load at the end of the year was 244420 MW.
- The emphasis on electrification of rural areas continued during the year. The total number of villages electrified as on 31.3.2003 was 492325 representing 83.8% of the total villages in the country.
- The transmission and distribution network was further augmented by adding new T&D lines. The total length of T&D lines increased to 6553261 Ckt. Kms. as on 31.3.2003 from 6030148 Ckt. Kms. at the end of the previous year.

Dated : 27th February, 2004


(Vishnu Bhagwan Gupta)
Chief Engineer



केन्द्रीय विद्युत प्राधिकरण
विद्युत मंत्रालय
भारत सरकार

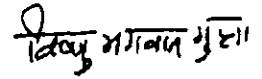
परिचय

अखिल भारतीय सांख्यिकी - सामान्य पुनरवलोकन केन्द्रीय प्राधिकरण द्वारा प्रत्येक वर्ष प्रकाशित किया जा रहा है। यह प्रकाशन संक्षिप्त रूप से देश में विद्युत आपूर्ति उद्योग की प्रगति तथा विकास की प्रमुख विशेषताएं प्रस्तुत करता है। यह दस खण्डों में बांटा गया है जो वर्ष 2002-03 के दौरान देश में राज्य तथा संघ शासित क्षेत्रों की विद्युत आपूर्ति उद्योग द्वारा प्राप्त की गई प्रगति के विभिन्न पक्ष को दर्शाता है। प्रचालन आंकड़े जैसे ईंधन खपत, शीर्ष मांग तथा मानव बल भी विद्युत क्षेत्र में पुनरवलोकन में सम्मिलित है।

31 मार्च 2003 तक विद्युत विकास का एक संक्षिप्त 'उपरी अवलोकन' इस दस्तवेज के प्रारम्भ में दिया गया है। प्रतिष्ठापित क्षमता की वर्षवार, योजनावार वृद्धि, उत्पादन खपत प्रतिमान, ग्राम विद्युतीकरण, प्रति व्यक्ति खपत इत्यादि 31 मार्च, 2003 तक तिथिपर्यन्त किए गए हैं। वर्ष 2002-03 के दौरान विद्युत क्षेत्र द्वारा की गई प्रगति की मुख्य विशेषताएं नीचे दी गई हैं :

- उत्पादन क्षमता में अभिवृद्धि 2831 मेगा वाट (जनउपयोगिताओं में) की है। देश में संचयी प्रतिष्ठापित क्षमता 107877 मेगा वाट तक बढ़ गई है। पिछले वर्ष की तुलना में प्रतिशतता वृद्धि, सार्वजनिक जनउपयोगिताओं के मामले में 2.70 प्रतिशत थी।
- पिछले वर्ष की तुलना में वर्ष 2002-03 के दौरान विद्युत जनउपयोगिताओं में विद्युत उत्पादन में बढ़ोतरी 2.95 प्रतिशत थी।
- पिछले वर्ष के दौरान 4.50 मिलियन नए उपभोक्ताओं की अभिवृद्धि हुई जिससे सभी क्षेत्रों के उपभोक्ताओं की कुल संख्या बढ़कर 126.96 मिलियन हो गई। वर्ष के अंत में कुल संयुक्त मार 244420 मेगावाट था।
- वर्ष के दौरान ग्रामीण क्षेत्रों के विद्युतीकरण पर निरन्तर महत्व दिया गया है। 1991 की जनगणना के आधार पर देश में 31-3-2003 तक कुल विद्युतीकृत गांवों की संख्या 492325 थी जोकि कुल गांवों का 83.8 प्रतिशत थी।

प्रसारण तथा वितरण तन्त्र की नई प्रसारण एवं वितरण लाईनाओं को जोड़ने में आगे वृद्धि हुई थी। 31-3-2003 को प्रसारण एवं वितरण लाईनाओं की लम्बाई पिछले साल के 6030148 सर्किट कि.मी. से 6553281 सर्किट कि.मी. तक बढ़ गई।


(विष्णु भगवान गुप्ता)
मुख्य अभियंता
दूरभाष सं. 26108685

दिनांक 27 फरवरी, 2004



आभारोक्ति

वर्ष 2002-03 के लिए सामान्य पुनरवलोकन श्री वी.एस. वर्मा, सदस्य (योजना स्कन्ध) एवं श्री विष्णु भगवान गुप्ता, मुख्य अभियन्ता के निपुण मार्ग दर्शन में तैयार किया गया है। उनका निरन्तर सहयोग इस वार्षिक प्रतिष्ठावान प्रकाशन जोकि पिछले वर्ष के आंकड़े दर्शाता है, को चालू वर्ष में ही निकालने के लक्ष्य को प्राप्त करने में सतत प्रेरणा का स्रोत रहा है। हम देश के राज्य विद्युत बोर्डों, निगमों, विद्युत विभागों, संगठनों व सार्वजनिक उपक्रमों के अध्यक्षों, अध्यक्ष एवं प्रबन्ध निदेशकों, अनुज्ञापिधारियों के अध्यक्षों द्वारा, उनके राज्यों/केन्द्र शासित प्रदेशों में विद्युत तंत्र के सम्बन्ध में आंकड़े प्रस्तुत करने के लिए बहुत आभारी हैं।

आंकड़ा प्रबन्धन एवं भार पूर्वानुमान प्रभाग के सर्व श्री के.के.सिंह, डी.पी.राठी एवं एस.सी.दास; उप-निदेशक श्री योगेश्वर कुमार, प्रबन्धक, एन.टी.पी.सी.; सहायक निदेशक श्री के.के. पुरी; अतिरिक्त सहायक निदेशक, वाणिज्य, श्री पी.के. होम; सांख्यिकी सहायक श्री डी.सी.डबराल व श्री अशोक कुमार तथा व्यवसायिक सहायक श्री राजेश कुमार द्वारा सामान्य पुनरवलोकन को प्रकाशित करने में किए गए विशेष प्रयत्नों के लिए धन्यवाद है।

हम सर्व श्री आर.राय, ओ.पी.सिंह, टी.आर.रेड्डी एवं एस.के.मट्टाचार्य, उप-निदेशक व इन्चार्ज, क्षेत्रीय विद्युत सर्वेक्षण कार्यालय, उत्तर/पश्चिम/दक्षिण/पूर्व कमश: के प्रति धन्यवाद प्रकट करते हैं। इन क्षेत्रीय विद्युत सर्वेक्षण कार्यालयों के सभी अधिकारियों ने सार्वजनिक व गैर-सार्वजनिक निकायों से आंकड़ा एकत्रण के लिए सम्पर्क एवं विचार विमर्श के उपरान्त आंकड़ा प्रबन्धन व भार पूर्वानुमान प्रभाग को सूचना उपलब्ध कराने में विशेष प्रयत्न किए। सर्व श्री ए. के. शर्मा, मुख्य अभियन्ता, श्री अशोक कुमार व एस.एन. तोबडिया; निदेशक श्री ए.एस.सेहरा, उप-निदेशक सर्व श्री आर.के. गोयल, हरदयाल सिंह व सोवरन सिंह सहायक निदेशक और श्रीमति संतोष बिहाल द्वारा सभी अध्यायों के लिए आंकड़ा समेकन के लिए किए गए प्रयासों के लिए विशेष धन्यवाद व प्रशंसा व्यक्त की जाती है।

अन्ततः परन्तु किसी भी दृष्टि से कम नहीं, हम सचिव, के०वि०प्रा० श्री गुरदयाल सिंह के अति आभारी हैं, जिन्होंने के०वि०प्रा० की इलेक्ट्रिक पावर इन्फोरमेशन सोसाइटी के माध्यम से इस प्रकाशन के मुद्रण को सुसाध्य बनाया।

दिनांक 27 फरवरी, 2004

रस. रस. राठी
(एस.एस. यात्री)
निदेशक

*An Overview
of
Power Development
in India*

AN OVERVIEW OF POWER DEVELOPMENT IN INDIA

Power Development in India commenced at the end of 19th Century with the Commissioning of first unit of generator 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 broadening electricity supply industry with a view to rationalise its growth all over the country.

With the formation of State Electricity Boards in various parts of the country in the early 50s, a significant step was taken in bringing about systematic growth of power supply industry all over the country. A number of multi-purpose projects were set up. With the setting up of Thermal, Hydro and Nuclear Power Stations, Power Generation started increasing significantly. The Central participation in 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 upto 31st March 2003 has been brought out in the present General Review of 2002 - 03.

I. INSTALLED CAPACITY

The Installed Capacity which was only 1713 MW as on 31.12.1950 rose to 105046 MW at the end of 21st Plan (31.3.2002), consisting 84413 MW thermal, 20269 MW hydel, Nuclear 2000 MW and wind 16264 MW. During 2002-03, the addition in installed capacity was 2831 MW, bringing the total 107877 MW as on 31.3.2003.

II. GROSS GENERATION

The gross electricity generation which was 5,107 GWh during the year ending 31.12.1950 rose to 517439 GWh during the year

SECTION – 0

GROWTH OF POWER SECTOR

This Section describes the plan wise growth of the Power Sector in the country from 31.12.1995 to 31.12.2002.

The installed capacity which was 1114 MW (654 MW Hydro, 1155 MW Thermal), as on 31.12.1995, has grown to 13477 MW (3676 MW Hydro, 7899 MW Thermal & 1702 MW Nuclear) as on 31.12.2002.

The gross electricity generated during the calendar year ending on 31.12.1995 was 5104 GWh (2419 GWh of Hydro & 2685 GWh of Thermal) which has gone up during the financial year ending on 31.12.2002 to 83004 GWh (4414 GWh of Hydro & 44989 GWh of Thermal and 19890 GWh of Nuclear).

The consumption during the year ending on 31.12.1995 was 4157 GWh (1577 GWh in Domestic, 174 GWh in Commercial, 1614 GWh in Industrial, 307 GWh in Traction, 161 GWh in Agriculture and 288 GWh in other miscellaneous categories). The consumption has grown to 11554 GWh (4435 GWh in Domestic, 2497 GWh in Commercial, 1194 GWh in Industrial, 574 GWh in Traction, 4496 GWh in Agriculture and 2414 GWh in other miscellaneous category) during the fiscal year ending on 31.12.2002.

There were no captive power plants as on 31.12.1995 in the country, however capacity of captive power plants at the end of the fiscal year 2002-03 has grown to 12711.6 MW out of which the contribution of Hydro was 5111 MW, Steam 3094.16 MW, Diesel 4511.21 MW and Gas 1995.13 MW. The Electricity generated from the captive generating units during the fiscal year 2002-03 was 43949.91 GWh. Out of which 20.92 GWh from Hydro, 4000.46 GWh from Steam, 1131.76 GWh from Diesel and 1289.16 GWh from Gas Turbine.

Table No. 01
PLANWISE GROWTH OF POWER SECTOR
 (Utilities Only)

S. No.	Year	Installed Capacity (MW)	No. of villages electrified	Length of T & D Lines (Kt. Kms.)	Per capita Consumption (KWh)
1	31.12.50	1713	3064	29271	15.6
2	31.03.56 (End of the 1st Plan)		7294	66424	26.4
3	31.03.64 (End of the 2nd Plan)	4653	21754	157887	37.9
4	31.03.66 (End of the 3rd Plan)	9027	45148	541704	61.3
5	31.03.69 (End of the 3 Annual Plans)	12957	73739	836307	77.9
6	31.03.74 (End of the 4th Plan)	16664	156729	1546097	97.5
7	31.03.79 (End of the 5th Plan)	2668	232770	2145919	130.9
8	on 31.03.80 (End of the Annual Plan)	28448	249799	2351609	130.5
9	31.03.85 (End of the 6th Plan)	42585	370332	3211956	168.5
10	31.03.90 (End of the 7th Plan)	63636	470838	4407501	238.0
11	ending on 31.03.92 (End of the 2 Annual Plans)	69065	487170	4574200	270.0
12	31.03.97 (End of the 8th Plan)	85795	498836	5140993	334.3
13	31.03.2002 (End of the 9th Plan)	105046	512153	6030148	559.18
14	31.03.2003	107877	492325	6553261	566.69

Table No. 0.2

GROWTH OF INSTALLED GENERATING CAPACITY - PRIME-MOVERWISE
(Utility Only)

(MW)

S. No.	As on	HYDRO	THERMAL (including Steam, Gas, Diesel & Wind)	NUCLEAR	TOTAL
1	31.12.50	559	1153	0	1713
2	31.03.56 (End of the 1st Plan)	1061	1825	0	2886
3	31.03.61 (End of the 2nd Plan)	1917	2736	0	4653
4	31.03.66 (End of the 3rd Plan)	4124	4903	0	9027
5	31.03.69 (End of the 3 Annual Plans)	5907	7050	0	12957
6	31.03.74 (End of the 4th Plan)	6965	9058	640	16664
7	31.03.79 (End of the 5th Plan)	10833	15207	640	26680
8	on 31.03.80 (End of the Annual Plan)	11384	16424	640	28448
9	31.03.85 (End of the 6th Plan)	14460	27030	1095	42585
10	31.03.90 (End of the 7th Plan)	18308	43764	1565	63636
11	ending on 31.03.92 (End of the 2 Annual Plans)	19194	48086	1785	69065
12	31.03.97 (End of the 8th Plan)	21658	61912	2225	85795
13	31.03.2002 (End of the 9th Plan)	26269	76057	2720	105046
14	31.03.2003	26767	78390	2720	107877

Table No. 0.3
GROWTH OF GROSS ELECTRICITY GENERATION-PRIME-MOVERWISE
 (Utilities Only)

S. No.	Year	HYDRO	THERMAL <i>(including Steam, Gas, Diesel & Wind)</i>	NUCLEAR	TOTAL <i>(GWh)</i>
1	31.12.50	2519	2587	0	5106
2	31.03.56 (End of the 1st Plan)	4295	5367	0	9662
3	31.03.61 (End of the 2nd Plan)	7837	9100	0	16937
4	31.03.66 (End of the 3rd Plan)	15225	17765	0	32990
5	31.03.69 (End of the 3 Annual Plans)	20723	26711	0	47434
6	31.03.74 (End of the 4th Plan)	28972	35321	2396	66689
7	31.03.79 (End of the 5th Plan)	47159	52594	2770	102523
8	31.03.80 (End of the Annual Plan)	45478	56273	2877	104627
9	31.03.85 (End of the 6th Plan)	53948	98836	4075	156859
10	31.03.90 (End of the 7th Plan)	62116	178696	4625	245438
11	31.03.92 (End of the 2 Annual Plans)	72757	208747	5524	287029
12	31.03.97 (End of the 8th Plan)	68901	317042	9071	395014
13	31.03.2002 (End of the 9th Plan)	73579	424385	19475	517439
14	31.03.2003	64014	449289	19390	532693

Table No. 0.4
GROWTH OF CONSUMPTION PATTERN
 (Utilities Only)

		(GWh)						
S. No.	Avon	Domestic	Commercial	Industrial	Traction	Agriculture	Others	Total
1	2	3	4	5	6	7	8	9
1	31.12.50	525	309	2604	308	162	249	4157
2	31.03.56 (End of the 1st Plan)	934	546	5323	405	316	435	7959
3	31.03.61 (End of the 2nd Plan)	1492	848	9584	454	833	629	13841
4	31.03.66 (End of the 3rd Plan)	2355	1650	18876	1057	1892	905	26735
5	31.03.69 (End of the 3 Annual Plan)	3184	2126	25891	1247	3465	1439	37352
6	31.03.74 (End of the 4th Plan)	4645	2988	32481	1531	6310	2292	50247
7	31.03.79 (End of the 5th Plan)	7576	4331	47728	2186	12028	3445	77293
8	on 31.03.80 (End of the Annual Plan)	8402	4657	45955	2301	13452	3316	78084
9	31.03.85 (End of the 6th Plan)	15506	6937	63019	2880	20960	4765	114068
10	31.03.90 (End of the 7th Plan)	29577	9548	80694	4070	44056	7474	175419
11	ending on 31.03.92 (End of the 2 Annual Plans)	35854	12032	87289	4520	58557	9394	207645
12	31.03.97 (End of the 8th Plan)	55267	17519	104165	6594	84019	12642	280206
13	31.03.2002 (End of the 9th Plan)	79694	24139	107296	8106	81673	21551	322459
14	31.05.2003	83355	25437	114959	8797	84486	22564	339598

Table No. 0.7
STATEWISE TOTAL ENERGY CONSUMPTION BY ULTIMATE
CONSUMERS

State/U.T.	1998-1999	1999-2000	2000-01	2001-02	2002-03
Haryana	8899.93	9597.74	10051.01	10534.76	11721.70
Himachal Pradesh	2099.42	2188.05	2213.87	2351.86	2529.03
Jammu & Kashmir	2798.42	2652.68	2867.45	2992.03	3325.20
Punjab	19576.49	21194.29	19440.91	20008.88	21113.41
Rajasthan	15827.07	16338.85	16793.65	13586.66	14569.32
Uttar Pradesh	26568.39	23469.39	25743.05	25230.22	25184.36
Uttaranchal	(A)	(A)	(A)	2182.65	2464.00
Chandigarh	715.02	722.62	721.00	747.81	804.49
Delhi	7896.97	8879.20	9339.20	9798.50	10706.35
Sub-Total (NR)	84381.71	85042.82	87370.14	87433.37	92417.86
Gujarat	30473.37	33048.90	33621.47	33769.44	34427.76
Madhya Pradesh	26291.73	23297.68	18479.91	14509.30	15175.99
Chhattisgarh	(B)	(B)	(B)	5300.50	6334.11
Maharashtra	31723.57	48900.01	47188.18	46330.71	49944.53
Goa	1006.42	1000.31	1077.11	1243.35	1376.74
Daman & Diu	462.68	349.83	635.60	739.66	821.22
D. & N. Haveli	390.05	652.35	726.00	800.00	898.50
Sub-Total (WR)	110547.77	107449.08	101728.27	102694.96	108978.65
Andhra Pradesh	24917.45	26220.97	27105.10	31481.59	31345.30
Karnataka	15945.69	16663.40	18550.18	19840.02	21698.23
Kerala	9141.46	9750.33	10254.16	8622.39	8783.12
Andhra Pradesh	78534.25	31056.15	34265.11	35922.93	36961.93
Pondicherry	1057.62	1239.70	1402.70	1562.87	1547.21
Lakshadweep	16.18	17.12	17.38	17.43	18.23
Sub-Total (SR)	79607.65	84927.67	91594.63	97447.23	100354.02
Bihar	10673.56	11423.38	11459.63	2904.43	3612.85
Jharkhand	(C)	(C)	(C)	6778.14	6920.09
Orissa	6140.00	5679.00	6080.00	5773.16	6800.95
West Bengal	13196.15	15072.35	14961.75	16003.37	16763.63
A & N Islands	79.61	83.55	89.11	91.15	108.24
Sikkim	98.00	103.81	103.15	123.32	73.27
Sub-Total (ER)	32187.32	32363.99	32693.64	31673.57	34279.05
Assam	1732.93	1808.98	1911.19	1817.98	1960.81
Manipur	179.93	173.05	176.91	168.72	178.53
Meghalaya	348.45	386.44	417.19	550.72	712.98
Nagaland	128.43	138.20	165.46	117.34	126.57
Tripura	396.86	356.13	303.00	348.00	362.97
Arunachal Pradesh	99.63	80.95	102.35	75.16	79.21
Mizoram	103.37	113.77	136.80	132.38	147.65
Sub-Total (NER)	3009.60	3057.52	3212.93	3210.20	3568.69
Total (All India)	309734.05	312841.08	316599.61	322459.33	339598.27

Note: A- Included under Uttar Pradesh
B- Included under Madhya Pradesh
C- Included under Bihar



SECTION-1

ORGANISATIONAL STRUCTURE OF ELECTRICITY SUPPLY INDUSTRY IN INDIA

During the year 2002-03, Delhi Vidyut Board has been unbundled. Two generating companies and one transmission company and three distribution companies have been formed in Delhi.

Power Sector of the Madhya Pradesh (M.P) is being reformed. The Govt. of M.P has formed one generating company & one transmission company besides three distribution companies. These companies have started functioning under an Operation & Management agreement with the Board with effect from 1st July 2002.

In the State of Maharashtra the Power houses under Irrigation Department have been taken over by Maharashtra State Electricity Board.

In each of the States of Andhra Pradesh and Karnataka four new distribution companies have been formed under Govt. Sector.

As on 31st March, 2003, there were 13 (thirteen) State Electricity Boards existing in the country. In the State of West Bengal, an undertaking has been formed to manage distribution of energy in the rural areas.

Under the Private Sector 7 (seven) new companies have been added in various States during the year 2002-03.

Fourteen (14) Rural Electric Cooperatives have been taken over by various State Electricity Boards / Departments during the year 2002-03. There exists 64 (Sixty Four) private licensees (including 18 cooperative societies) & 3 (three) Municipal licensees at the end of the year 2002-03.

The various tables under 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. 1.1

**“STATE ELECTRICITY BOARDS” EXISTING IN THE COUNTRY AS ON
31.3.2003**

<i>Sl. No.</i>	<i>Name of the State</i>	<i>Name of the State Electricity Board</i>	<i>Date of Establishment</i>
NORTHERN REGION			
1	Himachal Pradesh	Himachal Pradesh S.E.B., Shimla	31.08.1971
2	Punjab	Punjab S.E.B., Patiala	01.02.1959
WESTERN REGION			
3	Gujarat	Gujarat Elec. Board, Vadodra	01.05.1960
4	Madhya Pradesh	Madhya Pradesh S.E.B., Jabalpur	01.04.1957
5	Chhattisgarh	Chhattisgarh S.E.B., Raipur	15.11.2000
6	Maharashtra	Maharashtra S.E.B., Mumbai	20.06.1960
SOUTHERN REGION			
7	Kerala	Kerala S.E.B., Thiruvananthapuram	31.03.1957
8	Tamil Nadu	Tamil Nadu Elec. Board, Chennai	01.07.1957
EASTERN REGION			
9	Bihar	Bihar State Elec. Board, Patna	01.04.1958
10	Jharkhand	Jharkhand S.E.B., Ranchi	15.11.2000
11	West Bengal	West Bengal State Elec. Board, Kolkata	01.05.1956
NORTH EASTERN REGION			
12	Assam	Assam S.E.B., Guwahati	01.06.1958
13	Meghalaya	Meghalaya S.E.B., Shillong	21.01.1975

S.E.B.: State Electricity Board

Table No. 1.2
**GENERATION/TRANSMISSION/DISTRIBUTION COMPANIES
 POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
 CENTRAL OR JOINT STATE PARTNERSHIP AS ON 31.3.2003.**

<i>S.No</i>	<i>Name</i>	<i>Head Quarter</i>	<i>Ownership by Govt.</i>
(A)	GENERATION/TRANSMISSION/DISTRIBUTION UNDERTAKINGS		
1	Andhra Pradesh Power Generation Corpn. Ltd. Hyderabad		A.P.
2	A.P. Gas Power Corporation	Hyderabad	J.V. of APSEB & Pvt. Inds.*
3	Ajmer Vidyut Vitran Nigam Ltd.	Ajmer	Rajasthan
4	Bhakra Beas Management Board	Chandigarh	Punjab, Haryana & Rajasthan
5	Bihar State Hydro Elect. Power Corporation Ltd.		Pama - Bihar
6	Bangalore Elect. Supply Co. Ltd.	Bangalore	Karnataka
7	Central Power Distribution Co. of A.P. Ltd.	Hyderabad	A.P.
8	Damodar Valley Corporation	Kolkata	Central
9	Durgapur Projects Ltd.	Durgapur	West Bengal
10	Dakshin Haryana Bijli Vitran Nigam Ltd.	Hissar	Haryana
11	Delhi Transco Ltd.	Delhi	Delhi
12	Eastern Power Distribution Co. of A.P. Ltd.	Hyderabad	A.P.
13	Gujarat Energy Development Agency	Vadodra	Gujarat
14	Grid Corpn. of Orissa Ltd. (GRIDCO)	Bhubaneswar	Orissa
15	Gujarat State Electricity Corp. Ltd.	Vadodra	Gujarat
16	Gulbarga Elect. Supply Co. Ltd.	Gulbarga	Karnataka
17	Haryana Power Generation Corp. (HPGC)	Panchkula	Haryana
18	Haryana Vidyut Prasaran Nigam (HVPN)	Panchkula	Haryana
19	Hubli Elect. Supply Co. Ltd.	Hubli	Karnataka
20	Indraprastha Power Generation Co. Ltd.	Delhi	Delhi

*Joint Venture of APSEB & Pvt Industries.

Table No. 1.2 (Contd.)

**GENERATION/TRANSMISSION/DISTRIBUTION COMPANIES
POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL OR JOINT STATE PARTNERSHIP AS ON 31.3.2003.**

<i>Sl.No</i>	<i>Name</i>	<i>Head Quarter</i>	<i>Ownership by Govt.</i>
21	Jodhpur Vidyut Vitran Nigam Ltd.	Jodhpur	Rajasthan
22	Jipur Vidyut Vitran Nigam Ltd.	Jaipur	Rajasthan
23	Karnataka Power Transmission Corp. Ltd.	Bangalore	Karnataka
24	Karnataka Power Corp. Ltd.	Bangalore	Karnataka
25	Machkund Hydro Electric Project	Vishakhapatnam	A.P./Orissa
26	M.P. Power Generating Corp. Ltd.	Jabalpur	M.P.
27	M.P. Power Transmission Corp. Ltd.	Jabalpur	M.P.
28	M.P. Poorv Kshetra Vidyut Vitran Corp. Ltd.	Jabalpur	M.P.
29	M.P. Madhya Kshetra Vidyut Vitran Corp. Ltd.	Bhopal	M.P.
30	M.P. Paschim Kshetra Vidyut Vitran Corp. Ltd.	Indore	M.P.
31	Mangalore Elect. Supply Corp. Ltd.	Mangalore	Karnataka
32	National Thermal Power Corp. Ltd.	New Delhi	Central
33	National Hydro Electric Power Corp. Ltd.	New Delhi	Central
34	North Eastern Electric Power Corpn. Ltd.	Shillong	Central
35	Neyveli Lignite Corporation Ltd.	Neyveli	Central
36	Northern Power Distribution Corpn. of A.P. Ltd.	Hyderabad	A.P.
37	Nuclear Power Corporation	Mumbai	Central
38	Orissa Power Generation Corpn. Ltd.	Bhubaneswar	Orissa
39	Orissa Hydro Power Corpn. Ltd.	Bhubaneswar	Orissa

Table No. 1.2 (Contd.)
**GENERATION/TRANSMISSION/DISTRIBUTION COMPANIES
 POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
 CENTRAL OR JOINT STATE PARTNERSHIP AS ON 31.3.2003.**

<i>Sl.No</i>	<i>Name</i>	<i>Head Quarter</i>	<i>Ownership by Govt.</i>
40	Pench Hydel Power Station	Totladoh	M.P. & Maharashtra
41	Power Grid Corporation of India Ltd.	New Delhi	Central
42	Pondicherry Power Corporation Ltd.	Pondicherry	Pondicherry
43	Power Trading Corporation of India Ltd.	New Delhi	Central
44	Pragati Power corporation Ltd.	Delhi	Delhi
45	Rajasthan State Power Corporation Ltd.	Jaipur	Rajasthan
46	Rajasthan Vidyut Utpadan Nigam Ltd.	Jaipur	Rajasthan
47	Rajasthan Vidyut Prasaran Nigam Ltd.	Jaipur	Rajasthan
48	Southern Power Distribution Corp. of A.P. Ltd.	Hyderabad	A.P.
49	Tungabhadra H.F. Scheme Tungabhadra Board	Ballary	A.P. Karnataka
50	Tenughat Vidyut Nigam Ltd.	Patna	Bihar
51	Transmission Corp. of Andhra Pradesh Ltd.	Hyderabad	Andhra Pradesh
52	Uttar Pradesh Rajya Vidyut Utpadan Nigam Ltd.	Lucknow	U.P.
53	Uttaranchal Power Corporation	Dehradun	Uttaranchal
54	Uttaranchal Hydro Power Corp. Ltd.	Dehradun	Uttaranchal
55	Uttar Pradesh Power Corp. Ltd.	Lucknow	U.P.
56	Uttar Pradesh Jal Vidyut Nigam Ltd.	Lucknow	U.P.
57	Uttar Haryana Bijli Vitran Nigam Ltd.	Panchkula	Haryana
58	Vishweshwaraiah Vidyut Nigam Ltd.	Bangalore	Karnataka

Table No. 1.2 (Contd.)

**GENERATION/TRANSMISSION/DISTRIBUTION COMPANIES
POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL OR JOINT STATE PARTNERSHIP AS ON 31.3.2003.**

<i>Sl.No</i>	<i>Name</i>	<i>Head Quarter</i>	<i>Ownership by Govt.</i>
(B) STATE ELECTRICITY DEPARTMENTS			
1	Arunachal Pradesh	Itanagar	State
2	Goa	Panaji	State
3	Jammu & Kashmir	Srinagar	State
4	Manipur	Imphal	State
5	Mizoram	Aizawl	State
6	Nagaland	Kohima	State
7	Tripura	Agartala	State
(C) UNION TERRITORIES ELECTRICITY DEPARTMENTS			
1	Andaman & Nicobar Islands	Port Blair	Electricity Deptt.
2	Chandigarh	Chandigarh	Electricity Deptt.
3	Dadra & Nagar Haveli	Silvassa	Electricity Deptt.
4	Daman & Diu	Motib Daman	Electricity Deptt.
5	Lakshadweep	Kavaratti	Electricity Deptt.
6	Pondicherry	Pondicherry	Electricity Deptt.

Table No. 1.3
CLASSIFICATION OF LICENSEES AS ON 31.3.2003.

S. No.	Name of the State	No. of Companies & Co-operatives			
		Generation & Distribution	Generation Purchase & Distribution	Purchase & Distribution	Total
(A) NORTHERN REGION					
1	Himachal Pradesh	2	0	0	2
2	Punjab	1	0	0	1
3	Delhi	0	0	3	3
4	Uttar Pradesh	0	0	1	1
(B) WESTERN REGION					
1	Goa	1	0	0	1
2	Gujarat	4	2	0	6
3	Madhya Pradesh	0	0	6	6
4	Maharashtra	1	2	1	4
(C) SOUTHERN REGION					
1	Andhra Pradesh	3	2	9	14
2	Karnataka	4	0	1	5
3	Kerala	3	0	1	4
4	Tamil Nadu	5	0	0	8
(D) EASTERN REGION					
1	Jharkhand	1	0	0	1
2	Orissa	0	0	4	4
3	West Bengal	0	4	1	5
4	A & N Islands	1	0	0	1
(E) NORTH - EASTERN REGION					
	Assam	1	0	0	1
Total (ALL INDIA)		27	10	27	64

Table No. 1.4

CLASSIFICATION OF MUNICIPAL UNDERTAKINGS AS ON 31.3.2003

S. No.	Name of the State	Number of Municipalities			Total
		Generation & Distribution	Generation & Purchase & Distribution	Purchase & Distribution	
1	Delhi	0	0	1	1
2	Maharashtra	0	0	1	1
3	Kerala	0	0	1	1
Total All India		0	0	3	3

Table No. 1.5
**ACQUISITION OF ELECTRICITY SUPPLY UNDERTAKINGS
 DURING 2002-03**

<i>Sl.No.</i>	<i>Name of the Undertaking ownership</i>	<i>Prior ownership</i>	<i>Present ownership</i>
WESTERN REGION			
1	Mandla	RE CO-OP	M.P. State Electricity Board
2	Manawar (Dhar)	RE CO-OP	M.P. State Electricity Board
3	Multri (Berul)	RE CO-OP	M.P. State Electricity Board
4	Mungahli	RE CO-OP	M.P. State Electricity Board
5	Pichhore (Guna)	RE CO-OP	M.P. State Electricity Board
6	Rewa	RE CO-OP	M.P. State Electricity Board
7	Gohad (Bundi)	RE CO-OP	M.P. State Electricity Board
8	Banda (Sagar)	RE CO-OP	M.P. State Electricity Board
9	Ambikapur	RE CO-OP	Chhattisgarh State Electricity Board
10	Charama	RE CO-OP	Chhattisgarh State Electricity Board
11	Rapur	RE CO-OP	Chhattisgarh State Electricity Board
SOUTHERN REGION			
1	Thrumayam	RE CO-OP	Tamil Nadu State Electricity Board
2	Vandbasi	RE CO-OP	Tamil Nadu State Electricity Board
3	Kumbakonam	RE CO-OP	Tamil Nadu State Electricity Board

Table No. 1.6
**NEW ELECTRICITY SUPPLY UNDERTAKING CONSTITUTED/
 REPORTED DURING 2002- 03**

<i>Sl. No.</i>	<i>Name and address of new Undertaking</i>	<i>State Union Territory</i>	<i>With Effect From</i>
A. STATE GOVT. UNDERTAKING		NORTHERN REGION	
1	Delhi Tranco Ltd.	Delhi	01.07.2000
2	Indraprastha Power Generation Co. Ltd.	Delhi	01.07.2000
3	Pragati Power Corporation Ltd.	Delhi	01.07.2000
		WESTERN REGION	
4	M.P. Power Generation Co. Ltd.	Madhya Pradesh	01.07.2000
5	M.P. Power Transmission Co. Ltd.	Madhya Pradesh	01.07.2000
6	M.P. Poorv Kshetra Vidut Vitran Co. Ltd.	Madhya Pradesh	01.07.2000
7	M.P. Madhya Kshetra Vidut Vitran Co. Ltd.	Madhya Pradesh	01.07.2000
8	M.P. Paschim Kshetra Vidut Vitran Co. Ltd.	Madhya Pradesh	01.07.2000
		SOUTHERN REGION	
9	Northern Power Distribution Co. of A.P. Ltd.	Andhra Pradesh	27.12.2000
10	Southern Power Distribution Co. of A.P. Ltd.	Andhra Pradesh	27.12.2000
11	Eastern Power Distribution Co. of A.P. Ltd.	Andhra Pradesh	27.12.2000
12	Central Power Distribution Co. of A.P. Ltd.	Andhra Pradesh	27.12.2000
13	Bangalore Electric Supply Co. Ltd.	Karnataka	01.06.2000
14	Gulbarga Electric Supply Co. Ltd.	Karnataka	01.06.2000
15	Mangalore Electric Supply Co. Ltd.	Karnataka	01.06.2000
16	Hubli Electric Supply Co. Ltd.	Karnataka	01.06.2000
17	West Bengal Rural Energy Dev. Corpn.	West Bengal	2002-03
B. PRIVATE SECTOR		NORTHERN REGION	
1	M/s Jaiprakash Hydro Power Ltd.	Himachal Pradesh	20.01.2003
2	Punjab Hydro Power Ltd.	Punjab	28.01.2003
3	BSFS Rajdham Power Ltd.	Delhi	01.07.2002
4	BSFS Yamuna Power Ltd.	Delhi	01.07.2002
5	North Delhi Power Ltd.	Delhi	01.07.2002
		SOUTHERN REGION	
6	Lanco Kondapalli Power Pvt. Ltd.	Andhra Pradesh	22.06.2000
7	M/s Sr. CMS Elec. Company	Tamil Nadu	11.10.2002
		EASTERN REGION	
8	M/s Sr. Suryachakra Power Ltd.	A&N Island	01.06.2002

Section - 2
Installed
Generating
Capacity

SECTION-2

INSTALLED GENERATING CAPACITY

UTILITIES

Installed generating capacity (public utilities) in the country increased to 107877.36 MW as on 31.03.03 as compared to 104916 MW as on 31.03.02, registered an increase of 2.82% over the previous year.

As per 1991-92, in generating capacity, hydro contributed 10% inclusive additions in small hydro, diesel and wind power stations.

Installed capacity of steam coal, gas and diesel is 90.4% i.e. about 97% share of the installed generating capacity of country. The relative percentage of generating capacity of hydro coal was 10.61% and 89.39% respectively during the year.

There were 199 major stations and 100000 small stations with the capacity of 107877.36 MW and the 100000 MW respectively as on 31.03.03.

The following table shows the installed generating capacity in the country as on 31.03.03.

	Central Sector	State Sector	Private Sector	All India
Hydro	11141.07	11141.07	0.00	22282.14
Coal	21621.00	41549.82	4949.82	68120.64
Gas	0.00	1441.00	1441.00	2882.00
Wind	441.00	0.00	441.00	882.00
Diesel	2774.00	0.00	0.00	2774.00
Total	32815.50	63710.82	11351.05	107877.36

The following table shows the installed generating capacity in the installed generating capacity of the country as on 31.03.03.

Table No. 2.1
**ALL INDIA INSTALLED GENERATING CAPACITY (UTILITIES AND
NON-UTILITIES) PRIMEMOVERWISE-AS ON 31ST MARCH, 2003.**

<i>Year ending</i>	<i>Installed Generating Capacity (MW)</i>					<i>Total</i>
	<i>Hydro</i>	<i>Steam</i>	<i>Diesel & Wind</i>	<i>Gas</i>	<i>Nuclear</i>	
(i) Utilities Generating Installed Capacity						
31.3.2003	26766.83	63950.88	2807.46	11633.20	2720.00	107877.6
31.3.2002	26268.76	62130.88	2763.22	11163.10	2720.00	105045.6
% Increase	1.90	2.93	1.60	4.21	0.00	2.0
(ii) Non-Utilities Generating Installed Capacity						
31.3.2003	51.10	9094.16	6831.21	2385.15	0.00	18361.2
31.3.2002	51.10	8354.03	6614.15	2125.92	0.00	17145.0
% Increase	0.00	8.86	3.28	12.19	0.00	7.9
(iii) Total Generating Installed Capacity						
31.3.2003	26817.93	73045.04	9638.67	14018.35	2720.00	126239.9
31.3.2002	26319.86	70484.91	9377.37	13289.02	2720.00	122191.6
% Increase	1.89	3.63	2.79	5.49	0.00	3.1

Table No. 2.2

**ALL INDIA INSTALLED GENERATING CAPACITY (UTILITIES ONLY)
OWNERSHIPWISE AND PRIMEMOVERWISE AS ON 31.3.2003**

(MW)

Ownership	Installed Plant Capacity					Total
	Hydro	Steam	Diesel & Wind	Gas	Nuclear	
PUBLIC SECTOR						
State Electricity Boards	11048.83	20445.00	316.42	1614.50	0.00	33424.75
Electricity Dep'ts., Govt. Undertakings, Corporations, Central Govt. Sector	14932.61	39264.50	326.16	5858.30	2720.00	63101.57
Sub-Total Public Sector	25981.44	59709.50	642.58	7472.80	2720.00	96526.32
PRIVATE SECTOR						
Companies	785.40	4241.38	2163.87	4160.40	0.00	11351.04
Total	26766.83	63950.88	2806.45	11633.20	2720.00	107877.36

Table No. 2.3
INSTALLED GENERATING CAPACITY (UTILITIES ONLY)
OWNERSHIPWISE/STATEWISE AS ON 31ST MARCH 2003

<i>State/UTs</i>	<i>31.3.2002</i>	<i>31.3.2003</i>	<i>% Increase</i>
Haryana	1990.32	1990.28	0.0
Himachal Pradesh	412.33	612.33	48.0
Jammu & Kashmir	495.63	495.63	0.0
Punjab	4528.94	4533.17	0.0
Rajasthan	3001.22	3076.51	2.5
Uttar Pradesh	4658.60	4625.90	-0.7
Uttaranchal	954.15	986.85	3.4
Chandigarh	2.00	2.00	0.0
Delhi	706.60	932.41	31.9
Central Sector (NR)	11342.00	11342.00	0.0
Sub-total (NR)	28091.79	28597.08	1.8
Gujarat	7352.49	7323.48	-0.4
Madhya Pradesh	3008.00	3100.02	3.0
Chhattisgarh	1400.00	1400.00	0.0
Maharashtra	13153.37	13180.36	0.2
Goa	48.16	46.16	-0.4
D. & N. Haveli	0.00	0.00	0.0
Daman & Diu	0.00	0.00	0.0
Central Sector (WR)	6412.00	6412.00	0.0
Sub-total (WR)	31374.02	31464.02	0.2
Andhra Pradesh	7238.24	7616.24	5.2
Karnataka	4986.77	5196.77	4.4
Kerala	2239.47	2239.47	0.0
Tamil Nadu	6801.81	7145.81	5.0
Lakshadweep	9.97	9.97	0.0
Pondicherry	32.50	32.50	0.0
Central Sector (SR)	5800.00	6510.00	12.2
Sub-total (SR)	27108.76	28750.76	6.0
Bihar	598.40	598.40	0.0
Haryana	1630.00	1630.00	0.0
Orissa	2298.49	2304.49	0.2
West Bengal	4784.39	4784.38	-0.0
D.V.C.	2871.50	2871.50	0.0
A & N Islands	59.30	59.30	0.0
Sikkim	37.90	37.90	0.0
Central Sector (ER)	3970.00	4470.00	12.5
Sub-total (ER)	16229.98	16755.97	3.2
Assam	621.69	621.69	0.0
Mizoram	30.61	48.61	58.8
Meghalaya	188.76	188.76	0.0
Nagaland	22.36	30.36	35.7
Tripura	85.36	127.36	49.7
Assamchhal Pradesh	45.43	45.57	0.3
Mizoram	37.20	37.19	-0.0
Central Sector (NER)	1210.00	1210.00	0.0
Sub-total (NER)	2241.41	2309.54	3.0
Total (All India)	105045.96	107877.36	2.7

Table No. 2.4
INSTALLED GENERATING CAPACITY (UTILITIES ONLY)
(MEMOROWISE/ STATEWISE AS ON 31st MARCH 2003 (IN MW))

UTs	Hydro	Steam	Diesel	Gas	Wind	Nuclear	Total
All India	883.87	1107.49	3.92	0.00	0.00	0.00	1990.28
Andhra Pradesh	612.30	0.00	0.13	0.00	0.00	0.00	612.33
Assam & Kashmir	511.69	0.00	8.94	175.00	0.00	0.00	495.63
Bihar	2403.17	2130.00	0.00	0.00	0.00	0.00	4532.17
Chhattisgarh	971.61	1975.00	0.00	113.80	16.10	0.00	3076.51
Goa	533.90	4103.00	0.00	0.00	0.00	0.00	4625.90
Gujarat	986.85	0.00	0.00	0.00	0.00	0.00	986.85
Haryana	0.00	0.00	2.00	0.00	0.00	0.00	2.00
Madhya Pradesh	0.00	320.01	0.00	612.40	0.00	0.00	932.41
North Sector (NR)	2010.00	5840.00	0.00	2312.00	0.00	1180.00	11342.00
Total (NR)	8703.30	15469.50	14.99	3213.20	16.10	1180.00	28597.08
West Bengal	563.00	4819.00	17.48	157.10	166.90	0.00	5323.48
Chh. Pradesh	919.93	2157.50	0.00	0.00	22.89	0.00	3100.02
Uttar Pradesh	120.00	1280.00	0.00	0.00	0.00	0.00	1400.00
Rajasthan	2874.16	8075.00	0.00	1832.00	399.20	0.00	13180.36
Delhi	0.05	0.00	0.00	48.00	0.11	0.00	48.16
N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	0.00
N. Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North Sector (NR)	0.00	4360.00	0.00	1292.00	0.00	760.00	6412.00
Total (NR)	4477.14	20691.50	17.48	4929.10	588.80	760.00	31464.02
Andhra Pradesh	3271.94	3102.50	36.80	1112.40	92.60	0.00	7616.24
Madhya Pradesh	2943.75	1730.00	234.43	220.00	68.60	0.00	5196.77
Uttar Pradesh	1807.00	0.00	256.44	174.00	2.03	0.00	2239.47
Rajasthan	1995.15	3220.00	411.66	661.50	857.50	0.00	7148.81
Delhi	0.00	0.00	9.97	0.00	0.00	0.00	9.97
West Bengal	0.00	0.00	0.00	32.50	0.00	0.00	32.50
North Sector (NR)	0.00	5380.00	0.00	350.00	0.00	780.00	6510.00
Total (NR)	10017.84	13432.50	949.29	2550.40	1020.73	780.00	28750.76
Chhattisgarh	44.90	553.50	0.00	0.00	0.00	0.00	598.40
Goa	130.00	1500.00	0.00	0.00	0.00	0.00	1630.00
Madhya Pradesh	1883.00	420.00	0.00	0.00	1.49	0.00	2304.49
Uttar Pradesh	164.71	4506.38	12.20	100.00	1.10	0.00	4784.38
Rajasthan	144.00	2637.50	0.00	90.00	0.00	0.00	2871.50
Delhi	0.00	0.00	89.20	0.00	0.00	0.00	89.20
West Bengal	37.90	0.00	8.00	0.00	0.00	0.00	57.90
North Sector (NR)	60.00	1410.00	0.00	0.00	0.00	0.00	4470.00
Total (NR)	2459.50	14027.38	76.50	190.00	2.59	0.00	16755.97
Andhra Pradesh	2.00	350.00	20.69	269.00	0.00	0.00	621.69
Chhattisgarh	3.20	0.00	43.41	0.00	0.00	0.00	48.61
Goa	186.71	0.00	2.03	0.00	0.00	0.00	188.76
Madhya Pradesh	28.20	0.00	2.00	0.00	0.16	0.00	30.36
Uttar Pradesh	16.01	0.00	4.85	106.50	0.00	0.00	127.36
West Bengal	29.69	0.00	15.88	0.00	0.00	0.00	45.57
Rajasthan	8.76	0.00	28.94	0.00	0.00	0.00	37.70
North Sector (NR)	875.00	0.00	0.00	375.00	0.00	0.00	1250.00
Total (NR)	1109.07	330.00	119.81	750.50	0.16	0.00	2309.54
All India	26766.83	63950.88	1178.07	11633.20	1628.39	2720.00	107877.36

Table No. 2.5
**INSTALLED GENERATING CAPACITY OF STATE ELECTRICITY
 BOARDS PRIMEMOVERWISE AS ON 31st MARCH 2003.**

	(IN MW)					
<i>Boards</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel</i>	<i>Gas</i>	<i>Wind</i>	<i>Total</i>
Himachal Pradesh	326.20	0.00	0.13	0.00	0.00	326.33
Punjab	2398.97	2130.00	0.00	0.00	0.00	4528.97
Sub - total (NR)	2725.17	2130.00	0.13	0.00	0.00	4855.30
Gujarat	563.00	3759.00	17.28	1.20	27.00	4367.48
Madhya Pradesh	919.93	2157.50	0.00	0.59	0.00	3078.02
Chattisgarh	120.00	1280.00	0.00	0.00	0.00	1400.00
Maharashtra	2427.16	6425.00	0.00	6.44	912.00	9770.60
Sub - total (WR)	4030.09	13621.50	17.28	8.23	939.00	18616.10
Kerala	1795.00	0.00	234.60	2.03	0.00	2031.63
Tamil Nadu	1995.15	2970.00	0.00	19.35	331.00	5315.50
Sub - total (SR)	3790.15	2970.00	234.60	21.38	331.00	7347.13
Bihar	20.00	553.50	0.00	0.00	0.00	573.50
Jharkhand	130.00	840.00	0.00	0.00	0.00	970.00
West Bengal	164.71	0.00	12.06	0.00	100.00	276.77
Sub - total (ER)	314.71	1393.50	12.06	0.00	100.00	1820.27
Assam	2.00	330.00	20.69	0.00	244.50	597.19
Meghalaya	186.71	0.00	2.05	0.00	0.00	188.76
Sub - total (NER)	188.71	330.00	22.74	0.00	244.50	785.95
Total (All Boards)	11048.83	20445.00	286.81	29.61	1614.50	33424.75

Table No. 2.6

**INSTALLED GENERATING CAPACITY OF ELECTRICITY DEPARTMENTS/GOVT. UNDERTAKINGS AND PRIVATE SECTOR
PRIME-MOVERWISE AS 31.3.2003**

(IN MW)

Slp	Hydro	Steam	Diesel	Wind	Gas	Nuclear	Total
ELECTRICITY DEPARTMENTS GOVERNMENT UNDERTAKINGS CORPORATIONS CENTRAL SECTOR							
	883.87	1102.49	3.92	0.00	0.00	0.00	990.28
& Kashmir	311.69	0.00	8.94	0.00	175.00	0.00	495.63
in	971.61	1975.00	0.00	6.40	113.80	0.00	3066.81
Andesh	523.90	4102.00	0.00	0.00	0.00	0.00	4635.90
al	986.85	0.00	0.00	0.00	0.00	0.00	986.85
garh	0.00	0.00	2.00	0.00	0.00	0.00	2.00
	0.00	320.01	0.00	0.00	612.40	0.00	932.41
Sector (NR)	2010.00	5840.00	0.00	0.00	2312.00	1180.00	11342.00
Total (NR)	5687.92	13339.50	14.86	6.40	3213.20	1180.00	23441.88
	0.00	420.00	0.00	16.30	300.10	0.00	736.40
Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.05	0.00	0.00	0.11	0.00	0.00	0.16
Sector (WR)	0.00	4360.00	0.00	0.00	1292.00	760.00	6412.00
Total (WR)	0.05	4780.00	0.00	16.41	1592.10	760.00	7148.56
Pradesh	5271.94	3102.50	0.00	5.40	99.00	0.00	6478.84
st	2907.55	1470.00	127.92	2.58	0.00	0.00	4508.05
Wceep	0.00	0.00	9.97	0.00	0.00	0.00	9.97
rcy	0.00	0.00	0.00	0.00	32.50	0.00	32.50
Sector (SR)	0.00	5380.00	0.00	0.00	350.00	780.00	6510.00
Total (SR)	6179.49	9952.50	137.89	7.98	481.50	780.00	17539.35
	24.90	0.00	0.00	0.00	0.00	0.00	24.90
st	0.00	420.00	0.00	0.00	0.00	0.00	420.00
	1883.00	420.00	0.00	0.00	0.00	0.00	2303.00
gga	0.00	3505.00	0.00	1.10	0.00	0.00	3506.10
	114.00	2637.50	0.00	0.00	90.00	0.00	2871.50
Islands	0.00	0.00	39.30	0.00	0.00	0.00	39.30
	32.90	0.00	5.00	0.00	0.00	0.00	37.90
Sector (FR)	60.00	4410.00	0.00	0.00	0.00	0.00	4470.00
Total (FR)	2144.80	11192.50	44.30	1.10	90.00	0.00	13472.69
	3.20	0.00	15.41	0.00	0.00	0.00	48.61
d	28.20	0.00	2.00	0.16	0.00	0.00	30.36
	16.01	0.00	4.85	0.00	106.50	0.00	127.36
Pradesh	29.69	0.00	15.88	0.00	0.00	0.00	45.57
	8.26	0.00	28.94	0.00	0.00	0.00	37.19
Sector (NER)	835.00	0.00	0.00	0.00	37.50	0.00	1210.00
Total (NER)	920.36	0.00	97.07	0.16	481.50	0.00	1499.09
Total	14932.61	39624.50	294.12	32.05	5858.30	2720.00	63101.57

Table No. 2.6 (Contd.)

**INSTALLED GENERATING CAPACITY OF ELECTRICITY DEPARTMENTS/GOVT. UNDERTAKINGS AND PRIVATE SECTOR
PRIME-MOVERWISE AS 31.3.2003**

(IN MW)

Ownership	Hydro	Steam	Diesel	Wind	Gas	Nuclear	Total
(I) PRIVATE LICENSEES							
Himachal Pradesh	286.00	0.00	0.00	0.00	0.00	0.00	286.00
Punjab	4.20	0.00	0.00	0.00	0.00	0.00	4.20
Rajasthan	0.00	0.00	0.00	9.70	0.00	0.00	9.70
Sub-Total (NR)	290.20	0.00	0.00	9.70	0.00	0.00	299.90
Gujarat	0.00	640.00	0.20	149.41	1430.00	0.00	2219.61
Madhya Pradesh	0.00	0.00	0.00	22.00	0.00	0.00	22.00
Maharashtra	447.00	1650.00	0.00	392.76	920.00	0.00	3409.76
Goa	0.00	0.00	0.00	0.00	48.00	0.00	48.00
Total (WR)	447.00	2290.00	0.20	564.17	2398.00	0.00	5699.37
Andhra Pradesh	0.00	0.00	36.80	87.20	1013.40	0.00	1137.40
Karnataka	36.20	260.00	106.50	66.02	220.00	0.00	688.72
Kerala	12.00	0.00	21.84	0.00	174.00	0.00	207.84
Tamil Nadu	0.00	250.00	411.66	838.15	330.50	0.00	1880.31
Sub-Total (SR)	48.20	510.00	576.80	991.37	1737.90	0.00	3864.27
Chhattisgarh	0.00	240.00	0.00	0.00	0.00	0.00	240.00
Orissa	0.00	0.00	0.00	1.49	0.00	0.00	1.49
West Bengal	0.00	1201.38	0.14	0.00	0.00	0.00	1201.52
A & N Island	0.00	0.00	20.00	0.00	0.00	0.00	20.00
Sub-Total (ER)	0.00	1441.38	20.14	1.49	0.00	0.00	1463.01
Assam	0.00	0.00	0.00	0.00	24.50	0.00	24.50
Sub-Total (NER)	0.00	0.00	0.00	0.00	24.50	0.00	24.50
Total (II)	787.20	4241.38	597.14	1566.73	4160.40	0.00	11351.84
Grand Total	15718.01	52505.88	891.26	1598.78	10018.70	2720.00	74458.63

Table No. 2.7
ADDITION IN GENERATING CAPACITY (UTILITIES ONLY)
DURING THE YEAR 2002-03

<i>Installed at No.</i>	<i>State/UT Ownership</i>	<i>Date of Addition</i>	<i>No. of Sets</i>	<i>Capacity of each Set (MW)</i>	<i>Total Capacity Added (MW)</i>
HYDRO					
Baspa-II Unit -1	Himachal Pradesh Jai Prakash HF Ltd.	24.3.2003	1	100.0	100.0
Baspa-II Unit -2	Himachal Pradesh Jai Prakash HF Ltd.	8.2.2003	1	100.0	100.0
Doldowal HEP Unit -1	Punjab HF Ltd. Private	28.1.2003 2.2.2003 6.2.2003	1 1 1	1.4 1.5 1.3	1.4 1.5 1.3
Bansagar Toms Phase-III Unit -3	Madhya Pradesh S.F.B.	24.8.2002	1	20.0	20.0
Bansagar Toms Ph-II Unit -2	Madhya Pradesh S.F.B.	24.8.2002	1	15.0	15.0
Sardar Sarovar HF Project II, Sector	Gujarat SEB	4.9.2002	1	100.0	100.0
Nasirum Left Bank Power House	Andhra Pradesh S.F.B.	28.3.2003	1	150.0	150.0
Sothern Small Hy. Project Unit -1 of St. II	Orissa O.H.P.C.	30.6.2002	2	3.0	6.0
Jackim-RO Unit -III	Nagaland Govt. Deptt.	7.4.2002 01.12.2001	1	8.0	8.0
Total Hydro			12	Units	503.2
Steam, Gas, Diesel, Wind & Nuclear					
Delhi CCGT Unit -II	Delhi PPCI	9.11.2002	1	104.6	104.6
Delhi CCGT Unit -III	Delhi PPCI	31.1.2003	1	121.2	121.2
Ungarh CCGT Stage-II GT-2	Rajasthan RRVUNI	7.8.2002	1	37.5	37.5
Ungarh CCGT Stage-II GT-2	Rajasthan RRVUNI	24.8.2002	1	37.8	37.8
Simadhri Unit -2	Andhra Pradesh NTPC	24.8.2002	1	500.0	500.0

Table No. 2.7 (Contd.)
ADDITION IN GENERATING CAPACITY (UTILITIES ONLY)
DURING THE YEAR 2002-03

S. No.	Installed at	State/UT Ownership	Date of Addition	No. of Sets	Capacity of each Set (MW)	Total Capacity Added (MW)
6	Peddapuram CCGT Stage	Andhra Pradesh B.S.E.S.	12.9.2002	1	78.0	78.0
7	Neyveli TPS (Unit-1&2)	Tamil Nadu Central Sector	21.10.2002	1	210.0	210.0
8	Neyveli TPS Zero Unit	Tamil Nadu St. CMS Electric Co. Private Sector	11.10.2002	1	250.0	250.0
9	Bamboo Flat DG (Unit-2&4)	A & N Island Surya Chakra power Private Sector	1.6.2002	2	5.0	10.0
10	Sri Saitam LBPH (Unit-4)	Andhra Pradesh APGENSCO	26.11.2002	1	150.0	150.0
11	Raichur TPP (Unit-7)	Karnatak KPCI	11.12.2002	1	210.0	210.0
12	Valthur GTPP	Tamil Nadu SEB	24.12.2002	1	60.0	60.0
13	Valthur (ST) GTPP	Tamil Nadu SEB	13.3.2003	1	34.0	34.0
14	Bamboo Flat DG (Unit-1&3)	A & N Island Surya Chakra power Private Sector	1.2.2003	2	5.0	10.0
15	Talchar STPP St-II Unit -3	Orissa NTPC	4.1.2003	1	500.0	500.0
16	Leimakhong DC Unit IV to VI	Manipur Govt. Deptt.	10.4.2002 12.4.2002 16.4.2002	3	6.0	18.0
17	Rokhia GT Extn. Phase-II Unit-VII	Tripura Govt. Deptt.	11.7.2002	1	21.0	21.0
18	Baramura GT Extn.	Tripura Govt. Deptt.	27.11.2002	1	21.0	21.0
Total (Thermal + Nuclear)				22	Units	2375.1
Total All India				34	Units	2876.5

Table No. 2.8
**ADDITION OF PLANT CAPACITY PRIMEMOVERWISE/
 STATEWISE DURING THE YEAR 2002- 03**

	(IN MW)						
State/UTs	Hydro	Steam	Diesel	Gas	Wind	Nuclear	Total
Andhra Pradesh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Assam	200.0	0.0	0.0	0.0	0.0	0.0	200.0
Chhattisgarh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Goa	4.2	0.0	0.0	0.0	0.0	0.0	4.2
Gujarat	0.0	0.0	0.0	75.3	0.0	0.0	75.3
Haryana	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Himachal Pradesh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jharkhand	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Karnataka	0.0	0.0	0.0	225.8	0.0	0.0	225.8
Kerala	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total (NR)	204.2	0.0	0.0	301.1	0.0	0.0	505.3
Madhya Pradesh	16.0	0.0	0.0	0.0	0.0	0.0	16.0
Maharashtra	92.0	0.0	0.0	0.0	0.0	0.0	92.0
Mizoram	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nagaland	27.0	0.0	0.0	0.0	0.0	0.0	27.0
Northeast	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N. Haveli	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Odisha	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total (WR)	135.0	0.0	0.0	0.0	0.0	0.0	135.0
Uttar Pradesh	150.0	650.0	0.0	78.0	0.0	0.0	878.0
Uttarakhand	0.0	210.0	0.0	0.0	0.0	0.0	210.0
West Bengal	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Tamil Nadu	0.0	460.0	0.0	94.0	0.0	0.0	554.0
Andhra Pradesh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kerala	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central Sector	0.0	500.0	0.0	0.0	0.0	0.0	0.0
Total (SR)	150.0	1320.0	0.0	172.0	0.0	0.0	1642.0
Chandigarh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Delhi	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West Bengal	6.0	500.0	0.0	0.0	0.0	0.0	506.0
Chandigarh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total (ER)	6.0	500.0	20.0	0.0	0.0	0.0	526.0
Andhra Pradesh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chandigarh	0.0	0.0	18.0	0.0	0.0	0.0	18.0
Delhi	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Goa	8.0	0.0	0.0	0.0	0.0	0.0	8.0
Madhya Pradesh	0.0	0.0	0.0	42.0	0.0	0.0	42.0
Uttar Pradesh	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Central Sector	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total (NER)	8.0	0.0	18.0	42.0	0.0	0.0	68.0
Total (All India)	503.2	1820.0	38.0	515.1	0.0	0.0	2876.3

Table No. 2.9
DETAILS OF INSTALLED CAPACITY RETIRED/DERATED
STATEWISE/PRIME-MOVERWISE DURING THE YEAR 2002-03
(MW)

<i>Name of State/U.T.</i>	<i>Ownership</i>	<i>Name of the Station</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel & Wind</i>	<i>Gas</i>	<i>Nuclear</i>	<i>Wind</i>	<i>Total</i>
Gujarat	S.E.B.	Utran	0.00	0.00	0.00	45.00	0.00	0.00	45.00
Net Deletion			0.00	0.00	0.00	45.00	0.00	0.00	45.00

Table No. 2.10
**NET ADDITION/DELETION OF PLANT CAPACITY
 PRIMEMOVERWISE DURING THE YEAR 2002-03**

	(MW)						
	<i>Hydro</i>	<i>Steam</i>	<i>Diesel</i>	<i>Gas</i>	<i>Nuclear</i>	<i>Wind</i>	<i>Total</i>
1. Addition	503.20	1820.00	38.00	515.10	0.00	0.00	2876.30
2. Deletion/Retirement	0.00	0.00	0.00	45.00	0.00	0.00	-45.00
3. Net Change/Net Difference	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4. Net Addition	503.20	1820.00	38.00	470.10	0.00	0.00	2831.30

Table No. 2.11
**CLASSIFICATION OF GENERATING UNDERTAKINGS-
 CAPACITYWISE AS ON 31-3-2003**

<i>Range of Installed Capacity (MW)</i>	<i>Number of undertakings in the group</i>	<i>Aggregate Installed Capacity of the group (MW)</i>	<i>Energy generated by the group (GWh)</i>
Upto 1.00	4	0.50	0.0
Over 1.00 & Upto 2.00	3	5.09	0.0
Over 2.00 & upto 5.00	1	4.20	2.6
Over 5.00 & upto 10.00	3	26.07	46.2
Over 10.00 & upto 15.00	1	12.00	23.0
Over 15.00 & upto 25.00	6	129.54	372.51
Over 25.00 & upto 50.00	12	465.10	1212.37
Over 50.00 & upto 100.00	6	510.22	1438.52
Over 100.00 & upto 500.00	31	8647.02	35638.55
Over 500.00 & upto 1000.00	13	8469.99	22412.54
Over 1000.00 & upto 2000.00	6	8453.72	37281.60
Over 2000.00 & upto 3000.00	9	22354.13	110836.34
Over 3000.00	8	58799.79	323428.68
Total	102	107877.36	532692.96

Table No. 2.12
**CLASSIFICATION OF POWER STATIONS - CAPACITYWISE
 AS ON 31.3.2003**

Capacity		No. of Generating stations	Installed capacity group total MW
I. DRO STATIONS			
	100 KW	29	1.38
	100 KW upto 1.00 MW	84	48.78
	1.00 MW upto 2.00 MW	47	69.78
	2.00 MW upto 5.00 MW	38	99.60
	5.00 MW upto 10.00 MW	29	220.10
	10.00 MW upto 15.00 MW	15	201.70
	15.00 MW upto 25.00 MW	21	416.95
	25.00 MW upto 50.00 MW	35	1330.35
	50.00 MW upto 100.00 MW	39	3010.45
	100.00 MW upto 500.00 MW	50	10506.75
	500.00 MW upto 1000.00 MW	15	10866.00
	1000.00 MW	0	0.00
Total		386	26766.83
II. THERMAL STATIONS			
	5.00 MW	0	0.00
	5.00 MW upto 10.00 MW	2	18.38
	10.00 MW upto 15.00 MW	1	13.50
	15.00 MW upto 25.00 MW	2	38.00
	25.00 MW upto 50.00 MW	2	60.00
	50.00 MW upto 100.00 MW	4	245.00
	100.00 MW upto 500.00 MW	51	16072.00
	500.00 MW upto 1000.00 MW	27	20854.00
	1000.00 MW upto 2000.00 MW	13	17850.00
	2000.00 MW	4	8800.00
Total		106	63950.88

Table No. 2.13
**CLASSIFICATION OF GENERATING SETS-PRIME-MOVERWISE
 CAPACITYWISE AS ON 31.3.2003**

Range of Installed Capacity (sets MW)	HYDRO		STEAM	
	No. of sets	Installed Capacity MW	No. of sets	Installed Capacity MW
Upto 100 KW	108	7.68	0	0.00
Over 100 KW & Upto 1 MW	244	105.86	0	0.00
Over 1 MW & Upto 2 MW	78	128.70	5	8.15
Over 2 MW & Upto 5 MW	81	306.30	6	24.00
Over 5 MW & Upto 10 MW	100	803.30	4	37.00
Over 10 MW & Upto 20 MW	122	1868.25	0	0.00
Over 20 MW & Upto 30 MW	67	1752.25	18	540.00
Over 30 MW & Upto 50 MW	104	4325.50	26	128.00
Over 50 MW & Upto 100 MW	92	6739.00	70	4899.00
Over 100 MW & Upto 200 MW	74	9730.00	100	13690.00
Above 200 MW	4	1000.00	169	43470.00
TOTAL	1074	26766.83	396	63950.8

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Table No. 2.13. Contd.

CLASSIFICATION OF GENERATING SETS-PRIMEPOWERWISE;
CAPACITYWISE AS ON 31.3.2003

No. Installed in sets	HYDRO		STEAM	
	No. of sets	Installed Capacity MW	No. of sets	Installed Capacity MW
1 MW	0	0.00	0	0.00
1 MW & 5 MW	16	23.50	0	0.00
5 MW & 10 MW	8	63.10	0	0.00
10 MW & 20 MW	16	277.50	0	0.00
20 MW & 30 MW	35	921.90	0	0.00
30 MW & 50 MW	37	1411.80	0	0.00
50 MW & 100 MW	20	1283.50	1	100.00
100 MW & 200 MW	51	6180.90	5	880.00
200 MW	6	1470.00	8	1740.00
Total	189	11633.20	14	2720.00

Setwise classification of diesel & wind power houses not given due to non-availability of setwise details in certain cases. However, their total installed capacity is 1134.83 MW & 1628.39 MW respectively.

SECTION - 3**GENERATION (UTILITIES)**

The all India gross electricity generation by the Public Utilities was 532692.76 GWh during the year 2002-03 as compared to 517439.24 GWh during 2001-02 thereby registering an increase of 1.95%.

The generation from Hydro & Thermal stations was 64011.71 GWh and 449139.25 GWh respectively during the year 2002-03.

Year wise break up of Gross Generation (GWh) during 2001-2003 is given below:-

	Hydro	Steam	Gas	Diesel & Wind	Nuclear	Total
2001-02	51743.92	389550.33	52686.55	7052.37	19390.00	517439.24
2002-03	64011.71	449139.25	52686.55	7052.37	19390.00	532692.76
All India	64011.71	389550.33	52686.55	7052.37	19390.00	532692.96

GENERATION (NON-UTILITIES)

Electricity generated by the Public Utilities, during the year under review, together with the electricity generated by selected industries produced 695491.06 GWh comprising 492000.86 GWh from Steam, 151172.94 GWh from Hydro, 11111.11 GWh from Diesel, wind and 41206.15 GWh from Gas turbine plants respectively.

TOTAL GENERATION (UTILITIES+NON-UTILITIES)

In sum, total electricity generated in the country including that from captive plants during the year 2002-03 was 1327982.86 GWh as compared to 1234979.24 GWh during the year 2001-02 thereby an increase of 7.57%.

Table No. 3.1

**GROSS ENERGY GENERATION IN THE COUNTRY (UTILITIES &
NON-UTILITIES) PRIME-MOVER-WISE DURING THE YEAR 2002-03**
(GWh)

Year ending	Gross Energy Generation (GWh)					Total
	Hydro	Steam	Diesel & Wind	Gas	Nuclear	
(i) Utilities Gross Energy Generation						
2002-2003	64013.71	389530.33	7052.37	52686.55	19300.00	532692.96
2001-2002	73579.86	370883.52	6402.70	47098.57	19474.59	517439.24
%increase	13.00	5.03	10.15	11.86	0.43	2.95
(ii) Non-Utilities Gross Energy Generation						
2002-2003	90.32	42229.66	11331.76	10198.16	0.00	63849.90
2001-2002	116.59	41853.85	10875.19	8835.19	0.00	61680.82
%increase	22.53	0.90	4.18	15.43	0.00	3.52
(iii) Total Gross Energy Generation						
2002-2003	64104.03	431799.99	18384.13	62884.71	19300.00	596542.86
2001-2002	73696.45	412737.37	17277.89	55933.76	19474.59	579120.06
%increase	13.02	4.61	6.89	12.43	0.43	3.01

Table No. 3.2
ALL INDIA ELECTRICITY GENERATION (UTILITIES ONLY)
OWNERSHIPWISE AND PRIME-MOVERWISE DURING 2002-03

Sl.No.	Ownership	Hydro	Steam	Diesel & Wind	Gas	Nuclear	Total
Public Sector							
1	State Electricity Boards	25544.72	120126.13	675.05	5953.87	0.00	152299.74
2	Exec. Depts. Govt. Undertakings Corporations Central Sector	36635.19	243778.86	908.77	31635.56	19390.00	332348.12
Sub-Total		62179.90	363904.99	1583.82	37589.41	19390.00	484648.12
Private Sector							
1	Companies	1833.81	25645.34	5468.55	15097.14	0.00	48044.84
Total		64013.71	389550.33	7052.37	52686.55	19390.00	532692.96

Table No. 3.3
ALL INDIA GROSS ENERGY GENERATION (UTILITIES ONLY)

(GWh)

State / UTs.	GENERATION		
	2001-2002	2002-2003	% increase
Haryana	8453.64	9785.14	15.73
Himachal Pradesh	1336.48	1650.06	23.46
Jammu & Kashmir	632.88	381.00	-39.80
Punjab	23003.39	22341.37	-2.88
Rajasthan	14172.32	17171.06	21.16
Uttar Pradesh	22633.00	22377.23	-1.13
Uttaranchal	2914.00	3426.13	17.57
Chandigarh	0.00	0.00	0.00
Delhi	2451.74	3351.30	36.69
Central Sector (NR)	76217.71	76303.75	0.07
Sub-Total (NR)	151845.16	156784.99	3.25
Gujarat	32926.98	37114.15	12.72
Madhya Pradesh	14038.2	15484.72	10.30
Chhattisgarh	8159.67	7870.17	-3.55
Maharashtra	63237.22	63449.15	0.34
Goa	307	273.05	-11.06
D & N Haveli	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00
Central Sector (WR)	45641.47	47164.72	3.34
Sub-Total (WR)	164310.54	171355.96	4.29
Andhra Pradesh	33915.54	33478.00	-1.29
Karnataka	22949.09	21011.26	-8.44
Kerala	7506.64	5785.80	-23.92
Tamil Nadu	29963.43	30821.33	2.86
Lakshadweep	19.86	20.89	5.19
Pondicherry	249.35	264.00	5.88
Central Sector (SR)	36873.69	43285.88	17.39
Sub-Total (SR)	131477.60	134667.16	2.43
Bihar	732.69	594.52	-18.86
Haryana	3906.07	3906.00	0.00
Orissa	9265.44	5882.43	-36.51
West Bengal	20608.64	21979.05	6.65
D.V.C.	7835.03	8955.39	14.30
A & N Islands	115.00	138.80	20.70
Sikkim	45.00	40.53	-9.93
Central Sector (FR)	21982.68	22901.31	4.59
Sub-Total (FR)	64490.55	64488.43	0.00
Assam	996.64	884.00	-11.30
Manipur	0.67	0.00	0.00
Mizoram	617.99	573.51	-7.20
Nagaland	8.06	23.65	193.42
Tripura	285.74	336.38	17.72
Arunachal Pradesh	64.14	27.00	-57.79
Mizoram	9.33	9.95	6.65
Central Sector (NER)	3332.82	3541.93	6.27
Sub-Total (NER)	5315.39	5396.42	-8.42
Total (All India)	517439.24	532692.96	2.83

Table No. 3.4
GROSS ENERGY GENERATION (UTILITIES ONLY)
PRIMEMOVERWISE REGIONWISE/STATEWISE DURING 2002-03
(in GWh)

State/UT	Hydro	Steam	Diesel	Gas	Wind	Nuclear	Total
Haryana	3680.87	6722.27	0.00	0.00	0.00	0.00	9783.14
Himachal Pradesh	1650.00	0.00	0.00	0.00	0.00	0.00	1650.00
Jammu & Kashmir	322.00	0.00	0.00	58.00	0.00	0.00	381.00
Punjab	8691.00	13650.37	0.00	0.00	0.00	0.00	22341.37
Karnataka	2197.38	14726.62	0.00	221.74	25.34	0.00	17171.08
Uttar Pradesh	1428.72	20948.51	0.00	0.00	0.00	0.00	22377.23
Uttarakhand	3426.13	0.00	0.00	0.00	0.00	0.00	3426.13
Orissala	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	1512.08	0.00	2039.22	0.00	0.00	3551.30
Central Sector - NR	8957.98	43602.31	0.00	14943.49	0.00	88.00	76303.78
Sub-Total - NR	30335.64	100562.16	0.00	17262.48	25.34	88.00	158784.99
Gujarat	588.45	30522.03	0.00	5824.31	179.36	0.00	37134.15
Madhya Pradesh	1771.34	13689.86	0.00	0.00	32.52	0.00	15483.72
Uttaranchal	276.95	7505.22	0.00	0.00	0.00	0.00	7782.17
Maharashtra	5535.47	52204.04	0.00	5048.42	666.63	0.00	63449.16
Tamil Nadu	0.00	0.00	0.00	273.05	0.00	0.00	273.05
D. & N. India	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector - WR	0.00	33391.85	0.00	7572.87	0.00	6200.00	47184.72
Sub-Total (WR)	8172.16	137392.00	0.00	18713.30	8781.51	6200.00	171355.96
Andhra Pradesh	3469.81	23082.10	2.00	6878.15	95.94	0.00	33427.90
Karnataka	7248.46	11763.87	2134.00	1286.60	184.93	0.00	21013.86
Kerala	4845.14	0.00	802.24	135.00	2.42	0.00	5784.80
Andhra Pradesh	2728.38	21979.79	2420.28	3274.35	1323.52	0.00	36256.32
Lakshadweep	0.00	0.00	20.89	0.00	0.00	0.00	20.89
Andhra Pradesh	0.00	0.00	0.00	264.00	0.00	0.00	264.00
Central Sector - SR	0.00	36777.38	0.00	2018.59	0.00	4300.00	32285.88
Sub-Total - SR	18287.79	92053.14	4379.42	12956.00	1606.88	4300.00	134907.26
Bihar	59.43	333.09	0.00	0.00	0.00	0.00	392.52
Chhattisgarh	79.00	3827.00	0.00	0.00	0.00	0.00	3906.00
Orissa	3261.30	2621.23	0.00	0.00	0.00	0.00	5882.53
West Bengal	509.90	21488.07	0.57	0.00	32	0.00	21998.54
D.V.C.	294.19	8655.07	0.00	8.33	0.00	0.00	8957.59
A. & N. India	0.00	0.00	138.89	0.00	0.00	0.00	138.89
Chhattisgarh	19.21	0.00	0.32	0.00	0.00	0.00	19.53
Central Sector - ER	352.84	22638.67	0.00	0.00	0.00	0.00	23091.51
Sub-Total (ER)	4596.87	59743.03	139.69	8.62	0.32	0.00	64488.43
Assam	0.00	0.00	0.00	884.00	0.00	0.00	884.00
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	573.51	0.00	0.00	0.00	0.00	0.00	573.51
Nagaland	25.45	0.00	0.00	0.00	0.00	0.00	25.45
Tripura	32.10	0.00	2.00	282.28	0.00	0.00	316.38
Assam (Pradesh)	10.00	0.00	17.00	0.00	0.00	0.00	27.00
Mizoram	6.87	0.00	3.08	0.00	0.00	0.00	9.95
Central Sector - NER	1955.93	0.00	0.00	2586.00	0.00	0.00	3541.93
Sub-Total (NER)	2621.86	0.00	22.18	2752.28	0.00	0.00	5396.42
Total (All India)	64013.71	389550.33	4541.29	52686.58	2511.08	19390.00	532692.96

Table No. 3.5
**GROSS ENERGY GENERATED BY STATE ELECTRICITY
 BOARDS PRIME-MOVERWISE DURING 2002-03**
(IN GWb)

Board	Hydro	Steam	Diesel	Gas	Wind	Total
Himachal Pradesh	1317.00	0.00	0.00	0.00	0.00	1317.00
Punjab	8688.39	13650.37	0.00	0.00	0.00	22338.76
Sub total (NR)	10005.39	13650.37	0.00	0.00	0.00	23655.76
Gujarat	588.45	22051.81	0.00	211.90	0.00	22851.96
Madhya Pradesh	1771.34	13680.86	0.00	0.00	0.00	15452.20
Chhattisgarh	276.95	7593.22	0.00	0.00	0.00	7870.17
Maharashtra	4185.21	40304.19	0.00	3891.17	0.00	48380.57
Sub total (WR)	6821.96	83629.88	0.00	4103.07	0.00	94554.90
Kerala	4823.14	0.00	654.24	0.00	2.42	5479.80
Tamil Nadu	2723.38	21079.79	0.00	1107.59	17.82	24928.58
Sub total (SR)	7546.52	21079.79	654.24	1107.59	20.24	30408.38
Bihar	8.43	535.09	0.00	0.00	0.00	543.52
Jharkhand	79.00	1231.00	0.00	0.00	0.00	1310.00
West Bengal	509.90	0.00	0.57	0.19	0.00	510.66
Sub total (ER)	597.33	1766.09	0.57	0.19	0.00	2364.18
Assam	0.00	0.00	0.00	743.00	0.00	743.00
Meghalaya	573.51	0.00	0.00	0.00	0.00	573.51
Sub total (NER)	573.51	0.00	0.00	743.00	0.00	1316.51
Total (All Boards)	25544.71	120126.13	654.81	5953.85	20.24	152299.74

Table No. 3.6
**GROSS ENERGY GENERATED BY ELECTRICITY DEPARTMENTS/
 GOVT. UNDERTAKINGS, CENTRAL SECTOR, AND PRIVATE
 SECTOR-PRIMEOVERWISE DURING 2002-03.**

(IN GWh)

<i>Ownership</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel</i>	<i>Gas</i>	<i>Wind</i>	<i>Nuclear</i>	<i>Total</i>
ELECTRICITY DEPARTMENTS, GOVERNMENT UNDERTAKINGS/ CORPORATIONS, CENTRAL SECTOR.							
Haryana	5660.87	6122.27	0.00	0.00	0.00	0.00	9783.14
Jammu & Kashmir	323.00	0.00	0.00	58.00	0.00	0.00	381.00
Rajasthan	2197.36	14726.62	0.00	221.74	0.00	0.00	17145.72
Uttar Pradesh	1428.72	20948.51	0.00	0.00	0.00	0.00	2377.23
Uttaranchal	3426.13	0.00	0.00	0.00	0.00	0.00	3426.13
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	1312.08	0.00	2039.22	0.00	0.00	3351.30
Central Sector (NR)	8957.95	43602.31	0.00	14943.49	0.00	8800.00	76303.75
Sub total (NR)	19994.03	86711.79	0.00	17262.45	0.00	8800.00	132768.27
Gujarat	0.00	3398.00	0.00	1826.10	0.00	0.00	5224.10
Madhya Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector (WR)	0.00	33391.85	0.00	7572.87	0.00	6200.00	47164.72
Sub total (WR)	0.00	36789.85	0.00	9398.97	0.00	6200.00	52388.82
Andhra Pradesh	3469.81	23032.10	0.00	715.03	0.00	0.00	27216.94
Karnataka	7123.46	10291.87	715.00	0.00	11.16	0.00	18141.49
Lakshadweep	0.00	0.00	20.89	0.00	0.00	0.00	20.89
Tamilcherry	0.00	0.00	0.00	264.00	0.00	0.00	264.00
Central Sector (SR)	0.00	36777.38	0.00	2118.50	0.00	4390.00	43285.88
Sub total (SR)	10593.27	70101.35	735.89	3097.53	11.16	4390.00	88929.20
Bihar	51.00	0.00	0.00	0.00	0.00	0.00	51.00
Chhattisgarh	0.00	1369.00	0.00	0.00	0.00	0.00	1369.00
Orissa	3261.30	2621.13	0.00	0.00	0.00	0.00	5882.43
West Bengal	0.00	14894.00	0.00	0.00	0.32	0.00	14894.32
Nagaland	40.21	0.00	0.32	0.00	0.00	0.00	40.53
D.V.C.	294.29	8653.07	0.00	5.33	0.00	0.00	8952.69
A & N Islands	0.00	0.00	138.80	0.00	0.00	0.00	138.80
Central Sector (FR)	352.84	22638.67	0.00	0.00	0.00	0.00	22991.51
Sub total (FR)	3999.54	50175.87	139.12	8.33	0.32	0.00	54323.18

Table No. 3.6 (Contd.)

**GROSS ENERGY GENERATED BY ELECTRICITY DEPARTMENTS/
GOVT. UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES
AND PRIVATE SECTOR-PRIMEMOVERWISE DURING 2002-03.**

(IN GWh)

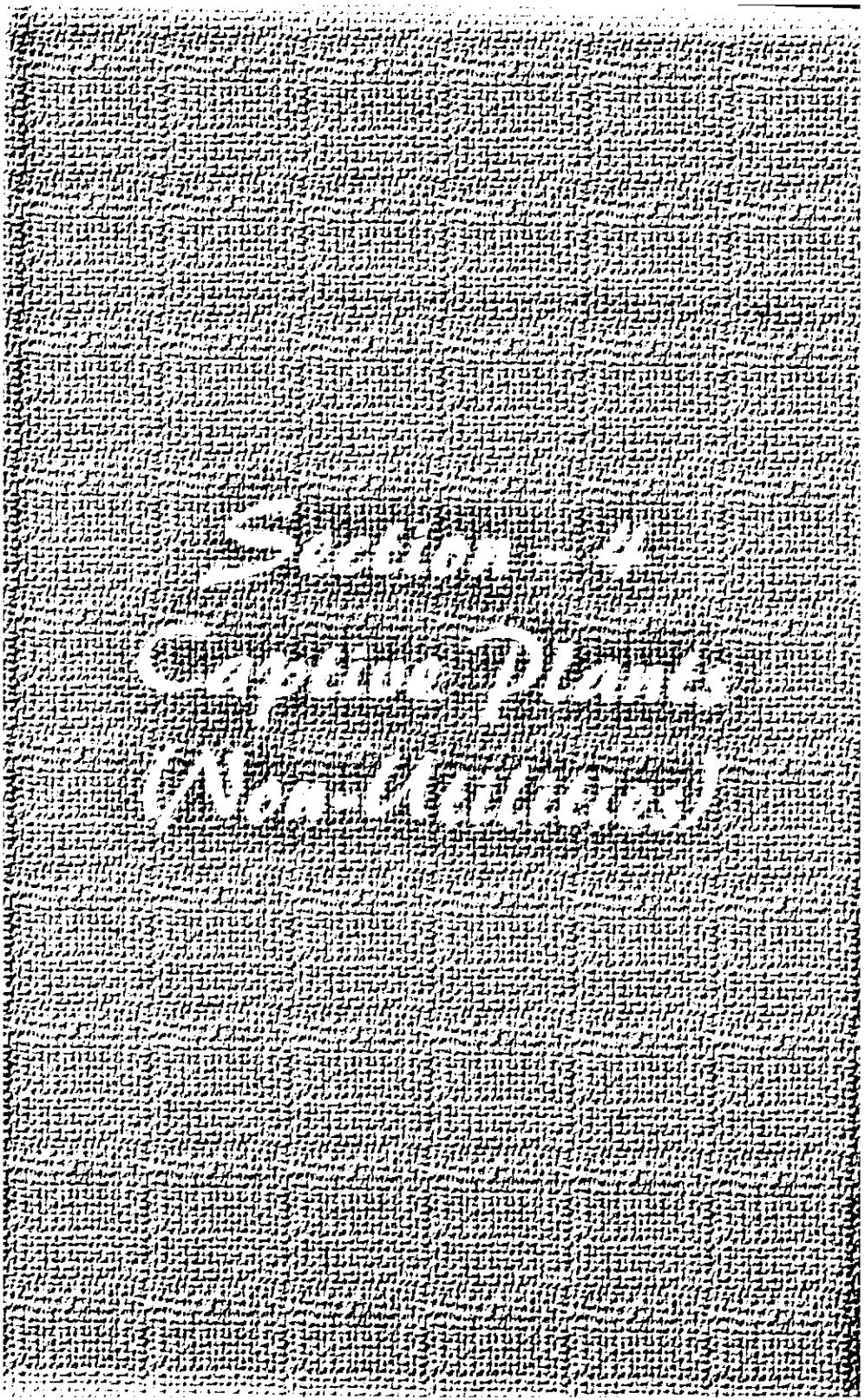
<i>Ownership</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel</i>	<i>Gas</i>	<i>Wind</i>	<i>Nuclear</i>	<i>Total</i>
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nagaland	27.35	0.00	0.10	0.00	0.10	0.00	28.65
Tripura	57.10	0.00	2.00	282.28	0.00	0.00	336.38
Assam	10.00	0.00	17.00	0.00	0.00	0.00	27.00
Mizoram	6.87	0.00	3.08	0.00	0.00	0.00	3541.93
Central Sector (NER)	1975.93	0.00	0.00	1586.00	0.00	0.00	3541.93
Sub-total (NER)	2048.35	0.00	22.18	1868.28	0.10	0.00	3938.91
Total(I)	36635.19	243778.86	897.19	31635.56	11.58	19390.00	332348.38

PRIVATE LICENSEES

Himachal Pradesh	333.00	0.00	0.00	0.00	0.00	0.00	333.00
Rajasthan	0.00	0.00	0.00	0.00	25.34	0.00	25.34
Punjab	2.61	0.00	0.00	0.00	0.00	0.00	2.61
Gujarat	0.00	5072.42	0.00	3786.31	179.366	0.00	9038.09
Madhya Pradesh	0.00	0.00	0.00	0.00	32.52	0.00	32.52
Maharashtra	1350.20	1899.85	0.00	1151.90	666.63	0.00	15068.58
Goa	0.00	0.00	0.00	273.05	0.00	0.00	273.05
Andhra Pradesh	0.00	0.00	2.00	6163.12	95.94	0.00	6261.06
Karnataka	125.00	872.00	419.00	1289.00	177.77	0.00	2869.77
Kerala	23.00	0.00	148.00	135.00	0.00	0.00	306.00
TamilNadu	0.00	0.00	2420.29	2166.76	1805.70	0.00	5892.75
Jharkhand	0.00	1227.00	0.00	0.00	0.00	0.00	1227.00
Orissa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
West Bengal	0.00	6574.07	0.00	0.00	0.00	0.00	6574.07
Assam	0.00	0.00	0.00	141.00	0.00	0.00	141.00
Total(II)	1833.81	25645.34	2989.29	15097.14	2479.26	0.00	48044.84

Table No. 3 -
**CLASSIFICATION OF GENERATING UNDERTAKINGS
 GENERATIONWISE DURING 2002-03**

<i>Range of generation (GWh)</i>	<i>No. of undertakings</i>	<i>Total energy generated (GWh)</i>
Under 1	15	0.00
Over 1 upto 10	3	14.56
Over 10 upto 25	3	67.54
Over 25 upto 50	4	125.39
Over 50 upto 100	4	276.31
Over 100 upto 250	8	1271.10
Over 250 upto 500	6	1926.41
Over 500 upto 1000	11	7413.17
Over 1000 upto 5000	27	56129.46
Over 5000 upto 10000	6	44710.31
Over 10000	15	420758.71
	102	532692.96



SECTION - 4

CAPTIVE PLANTS (Non-utilities)

Industrial Sector is the largest consumer of energy. Besides taking power from Utilities, a number of industries representing producers of infrastructure materials such as Aluminum, 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. The units having their own captive plants with a total installed capacity of 1 MW and above have been collected and highlighted in this section.

During the year under review i.e. 2002-03, there were 786 Selected Industrial units (having installed Plant capacity of 1 MW and above) having Total Plant Capacity of 18,361.62 MW and these generated 63849.90 GWh of electricity.

**GROSS ENERGY GENERATION BY CAPTIVE PLANTS
(NON-UTILITIES) DURING 2002-03**

(GWh)

Category	Hydro	Steam	Diesel	Gas	Wind	Total
Industries*	90.32	42,229.66	11,155.33	10198.16	176.43	63849.90

* - Industries having total capacity of 1 MW and above.



Table No. 4.1

**INDUSTRY-WISE BREAK-UP OF INSTALLED GENERATING
CAPACITY, ENERGY GENERATION AND ENERGY CONSUMPTION OF
ELECTRICITY DURING 2002-03**

<i>Name of Industry</i>	<i>Installed Generating Capacity (MW)</i>	<i>Energy Generation (GWh)</i>	<i>Energy Consumption (GWh)</i>
Aluminum	2050.62	13455.57	11486.09
Automobiles	111.26	115.03	513.81
Cement	1582.47	4419.03	8631.11
Chemicals, Mineral Oil & Petroleum	4072.57	15407.19	16517.15
Fertilizer	1546.95	4606.43	6847.65
Food Products	87.54	74.89	293.42
Heavy & Light Engineering	560.04	383.48	2196.63
Iron & Steel	2224.16	9381.74	12535.84
Mining & Quarrying	104.39	430.65	1252.05
Non Ferrous	380.06	1044.25	1455.94
Paper	808.19	3536.69	4083.31
Sugar	1148.57	2783.08	2607.14
Textile	1639.50	3840.99	8147.05
Other Industries	2045.30	4370.88	13837.38
Total (Non - Utilities)	18,361.62	63,849.90	90404.57

Table No. 4.2
INSTALLED GENERATING CAPACITY OF CAPTIVE POWER PLANTS
(1MW & ABOVE) AS ON 31ST MARCH, 2003

State	(kW)							
	Hydrogen	Hydro/Th	Coal	Chemical	Others	Ekono/Bagg	Renewab	Total
	2	3	4	5	6	7	8	9
Andhra Pradesh	0	8000	7520	14875	0	31670	31500	4670
Assam	0	0	41672	0	0	0	0	0
Bihar	0	0	0	0	0	0	0	0
Chhattisgarh	0	2660	0	13451	0	5427	32400	15580
Goa	0	0	217728	1099	0	8460	123250	0
Gujarat	778700	47245	1260	52908	0	44857	296860	9788
Haryana	0	0	0	0	0	18776	0	0
Madhya Pradesh	0	0	1000	0	0	0	0	0
Madhpr	0	0	0	0	0	0	0	1600
Total (NR)	778700	57905	269180	82333	0	109190	484010	31638
Andhra Pradesh	1200	0	130918	856835	0	7350	367640	5110
Assam	0	0	195855	313199	0	22713	0	0
Bihar	207400	0	216122	2064	0	58600	0	0
Chhattisgarh	0	6584	59220	491003	0	14288	67125	0
Goa	0	0	0	6430	0	0	13575	2550
Gujarat	0	0	0	0	0	0	0	0
Haryana	2400	0	0	2550	0	0	0	0
Total (WR)	211000	6584	602115	1672081	0	102951	448340	7660
Andhra Pradesh	4752	2504	337716	233384	31700	5767	58700	18079
Assam	1548	11264	170441	90997	0	30103	48000	11950
Bihar	0	0	5840	21906	0	4350	32900	0
Chhattisgarh	75000	17444	124022	278886	0	0	47758	2260
Goa	0	0	0	4660	0	0	0	0
Gujarat	0	0	0	0	0	0	0	0
Total (SR)	81300	31212	638019	629833	31700	40220	187358	32239
Andhra Pradesh	1307	0	19760	8650	0	2660	18500	1000
Assam	6380	0	28500	30000	145600	0	80000	0
Bihar	969269	0	20900	0	0	0	173240	0
Chhattisgarh	2660	15555	0	15540	20000	8008	98700	15006
Goa	0	0	0	0	0	0	0	0
Gujarat	0	0	0	0	0	0	0	0
Total (ER)	979616	15555	69160	54190	165600	10668	370440	16006
Andhra Pradesh	0	0	4000	7000	0	0	56800	0
Assam	0	0	0	0	0	0	0	0
Bihar	0	0	0	0	0	0	0	0
Chhattisgarh	0	0	0	0	0	0	0	0
Goa	0	0	0	0	0	0	0	0
Gujarat	0	0	0	0	0	0	0	0
Haryana	0	0	0	0	0	0	0	0
Madhya Pradesh	0	0	0	0	0	0	0	0
Madhpr	0	0	0	0	0	0	0	0
Total (NER)	0	0	4000	7000	0	0	56800	0
Total (All India)	2050616	111256	1582474	2445437	197300	263029	1546948	87543

contd.

Table No. 4.2 (Contd.)
**INSTALLED GENERATING CAPACITY OF CAPTIVE POWER PLANTS
 (1MW & ABOVE) AS ON 31ST MARCH, 2003**

(All)

States / UTs	Heavy Engineering	Iron & Steel	Tire	Light Engg.	Mincial Oil & Petro.	Mining & quarrying	Mis
	10	11	12	13	14	15	16
Haryana	10115	74908	0	13727	0	0	209090
Himachal Pradesh	0	2808	0	5104	0	0	45496
Jammu & Kashmir	0	0	0	0	0	0	0
Punjab	5964	8060	0	24232	0	0	23468
Rajasthan	2000	1240	0	0	0	3596	130431
Uttar Pradesh	5000	47778	7152	23242	81100	3112	92095
Uttaranchal	0	1250	0	1600	0	0	32422
Chandigarh	0	0	0	0	0	2112	5421
Delhi	0	0	0	0	0	0	1292
Sub-Total (NR)	23079	136044	7152	67905	81100	8820	539715
Gujarat	1915	34000	0	11748	670280	0	58359
Madhya Pradesh	0	23885	0	0	6750	0	57314
Chhattisgarh	0	445286	0	0	0	0	17360
Maharashtra	15000	67047	0	69439	92500	0	62672
Goa	1615	23530	0	0	0	0	11060
Daman & Diu	0	0	0	0	0	0	0
D & N Haveli	0	0	0	0	0	0	0
Sub-Total (WR)	18530	593748	0	81187	719530	0	206765
Andhra Pradesh	4050	419755	2810	17771	71980	0	298398
Karnataka	28248	41694	0	98987	118500	7430	84774
Kerala	2000	22110	0	0	45300	0	20524
Tamil Nadu	1696	42438	0	111511	85588	0	57632
Pondicherry	0	0	0	850	0	0	13162
Lakshadweep	0	0	0	0	0	0	0
Sub-Total (SR)	35994	525997	2810	229119	321368	7430	474690
Bihar	0	5070	2990	5250	76500	0	10750
Chharkhand	54920	492341	2700	9630	0	59740	6640
Orissa	0	276440	0	1260	1840	3400	1840
West Bengal	11410	194522	164594	21752	194150	7000	73976
A & N Islands	0	0	0	0	0	0	2664
Sikkim	0	0	0	0	0	0	0
Sub-Total (ER)	66330	968373	170284	37892	272490	70140	95870
Assam	0	0	0	0	232650	18000	0
Manipur	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	0
Nagaland	0	0	0	0	0	0	0
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
Sub-Total (NER)	0	0	0	0	232650	18000	0
Total (All India)	143933	2224162	180246	416103	1627138	104390	1317040

contd.

Table No. 4.2 (Contd.)
INSTALLED GENERATING CAPACITY OF CAPTIVE POWER PLANTS
(1MW & ABOVE) AS ON 31ST MARCH, 2003

(kW)

States / UTs	Non-Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total
	17	18	19	20	21	22	23
Andhra Pradesh	0	27868	0	0	19525	35432	488900
Assam	0	1840	0	0	0	55662	152582
Bihar & Kashmir	0	0	0	0	0	6435	6435
Chhattisgarh	0	10706	0	5216	65612	114062	326838
Goa	30500	7138	0	6915	0	143913	676270
Gujarat	0	59694	0	2160	212895	140734	1906580
Haryana	0	35244	0	0	0	2500	91792
Himachal Pradesh	0	0	0	0	0	0	8533
Jammu & Kashmir	0	0	0	0	0	0	2892
Sub-Total (NR)	30500	142490	0	14291	298032	498738	3660822
Andhra Pradesh	81400	70175	0	0	0	231285	2478215
Goa	13600	60060	0	9850	4500	122914	830640
Madhya Pradesh	0	0	0	0	0	6630	953462
Maharashtra	2400	45020	0	0	92443	74710	1159451
Orissa	0	0	0	5200	0	0	63960
Tamil Nadu	0	0	0	0	0	0	0
West Bengal	0	900	0	0	0	31772	37622
Sub-Total (WR)	97400	176155	0	15050	96943	467311	5523350
Andhra Pradesh	51804	97748	0	7480	191968	112122	1968638
Karnataka	12592	87120	0	2700	229242	32257	1107847
Kerala	14160	19136	0	9320	0	28430	225976
Tamil Nadu	0	101146	0	11628	275378	402523	1634910
West Bengal	0	0	2125	2000	6233	4888	33918
Uttarakhand	0	0	0	0	0	0	0
Sub-Total (SR)	78556	305150	2125	33128	702821	580220	4971289
Chhattisgarh	0	0	0	1000	32788	23366	209591
Jharkhand	22800	0	0	0	1130	0	940381
Orissa	150800	67535	0	6250	16860	11350	1700984
West Bengal	0	39210	0	15840	0	57158	955081
Andaman & N Islands	0	0	0	0	0	0	2664
Sikkim	0	0	0	0	0	0	0
Sub-Total (ER)	173600	106745	0	23090	50778	91874	3808701
Assam	0	69650	0	0	0	1360	389460
Mizoram	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	0
Nagaland	0	8000	0	0	0	0	8000
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
Sub-Total (NER)	0	77650	0	0	0	1360	397460
Total (All India)	380056	808190	2125	85559	1148574	1639503	18361622

Table No. 4.3
GROSS ENERGY GENERATION OF CAPTIVE POWER PLANTS
(1MW & ABOVE) DURING 2002-03

(GWh)

States	Aluminum	Ammonia	Cement	Chemical	Coal	Hydro	Renewable	Wind	Other
1	2	3	4	5	6	7	8	9	
Haryana	0.00	0.00	5.93	6.07	0.00	27.59	168.11	1.38	
Himachal Pradesh	0.00	0.00	58.53	0.00	0.00	0.00	0.00	0.00	
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Punjab	0.00	1.18	0.00	3.79	0.00	2.33	177.67	9.39	
Rajasthan	0.00	0.00	637.97	0.00	0.00	7.23	538.22	0.00	
Uttar Pradesh	5222.56	58.86	0.25	249.86	0.00	83.22	1013.76	6.45	
Uttarakhand	0.00	0.00	0.00	0.00	0.00	44.20	0.00	0.00	
Chhattisgarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Madhya Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sub-Total (NR)	5222.56	60.04	682.48	259.72	0.00	164.57	1897.76	17.26	
Gujarat	0.00	0.00	451.24	3454.75	0.00	0.13	1264.46	0.61	
Madhya Pradesh	0.00	0.00	349.57	914.93	0.00	36.27	0.00	0.00	
Chhattisgarh	1873.09	0.00	370.63	0.00	0.00	171.97	0.00	0.00	
Maharashtra	0.00	13.34	3777.24	1829.35	0.00	1.33	186.22	0.00	
Goa	0.00	0.00	0.00	17.73	0.00	0.00	80.60	16.54	
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
D & N Haveli	1.86	0.00	0.00	0.61	0.00	0.00	0.00	0.00	
Sub-Total (WR)	1874.95	13.34	1748.68	6217.36	0.00	209.50	1531.28	17.15	
Andhra Pradesh	1.66	0.01	506.19	615.09	88.06	0.09	256.62	5.85	
Karnataka	0.41	19.13	912.19	386.49	0.00	2.26	267.71	29.32	
Kerala	0.00	0.00	0.19	49.53	0.00	0.06	31.27	0.00	
Tamil Nadu	655.63	22.43	409.82	1222.10	0.00	0.00	116.89	3.66	
Pondicherry	0.00	0.00	0.00	8.54	0.00	0.00	0.00	0.00	
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sub-Total (SR)	657.70	41.57	1918.39	2281.75	88.06	2.41	672.49	38.81	
Bihar	0.00	0.00	0.00	2.94	0.00	1.18	0.00	0.00	
Uttarakhand	37.07	0.00	41.91	214.72	126.65	0.00	0.00	0.00	
Orissa	5663.29	0.00	27.57	0.00	0.00	0.00	513.61	0.00	
West Bengal	0.00	0.08	0.00	0.00	0.00	1.77	2.42	1.57	
A & N Islands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sub-Total (ER)	5700.36	0.08	69.48	217.66	126.65	2.95	316.03	1.67	
Assam	0.00	0.00	0.00	9.50	0.00	0.00	188.87	0.00	
Manipur	0.00	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	0.00	
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Tripura	0.00	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	0.00	
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sub-Total (NER)	0.00	0.00	0.00	9.50	0.00	0.00	188.87	0.00	
Total (All India)	13455.57	115.03	4419.03	8985.99	214.71	379.43	4606.43	74.89	

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Table No. 4.3 (Contd.)
**GROSS ENERGY GENERATION OF CAPTIVE POWER PLANTS
 (1MW & ABOVE) DURING 2002-03**

(GWh)

States/UTs	Heavy Engineering	Iron & Steel	Tute	Light Fogg.	Mineral Oil & Petro.	Mining & quarrying	Misc.
	10	11	12	13	14	15	16
Andhra Pradesh	1.42	50.48	0.00	4.92	0.00	0.00	585.99
Assam	0.00	0.00	0.00	2.83	0.00	0.00	5.46
Chhattisgarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	1.36	0.37	0.00	34.15	0.00	0.00	20.36
Gujarat	0.35	1.07	0.00	0.00	0.00	35.99	775.06
Haryana Pradesh	0.45	7.49	14.18	7.99	243.96	2.87	55.95
Jharkhand	0.00	0.25	0.00	0.05	0.00	0.00	35.90
Karnataka	0.00	0.00	0.00	0.00	0.00	2.30	0.52
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	1.76
Sub-Total (NR)	3.58	59.66	14.18	49.94	243.96	41.16	1481.00
Madhya Pradesh	0.18	120.12	0.00	19.79	3584.69	0.00	151.57
Madhya Pradesh	0.00	41.62	0.00	0.00	19.01	0.00	62.12
Madhya Pradesh	0.00	2787.01	0.00	0.00	0.00	0.00	2.28
Maharashtra	0.30	112.59	0.00	301.91	301.81	0.00	45.96
Madhya Pradesh	0.00	109.95	0.00	0.00	0.00	0.00	33.31
Jarjan & Dru	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. & N. Havels	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (WR)	0.48	3171.28	0.00	121.70	3505.51	0.00	295.24
Andhra Pradesh	0.03	2469.62	0.22	1.44	322.20	0.00	1667.86
Karnataka	9.85	272.06	0.00	121.34	462.14	2.65	67.69
Kerala	0.20	22.31	0.00	0.00	215.42	0.00	2.90
Tamil Nadu	0.00	64.14	0.00	51.98	400.04	0.00	27.80
Pondicherry	0.00	0.00	0.00	0.48	0.00	0.00	18.88
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (SR)	10.08	2828.13	0.22	155.24	1399.80	2.65	1785.13
Bihar	0.00	0.57	0.93	0.00	188.58	0.00	0.10
Jharkhand	41.72	1390.86	0.00	0.40	0.00	169.95	0.00
Orissa	0.00	1066.61	0.00	0.00	1.92	0.13	2.40
West Bengal	0.00	864.69	26.23	0.34	710.41	139.05	31.75
A & N Islands	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (ER)	41.72	3322.67	27.16	0.74	900.91	309.13	33.85
Assam	0.00	0.00	0.00	0.00	371.02	77.71	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00
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
Sub-Total (NER)	0.00	0.00	0.00	0.00	371.02	77.71	0.00
Total (All India)	55.86	9381.74	41.56	327.62	6421.20	430.65	3595.22

contd.

Table No. 4.3 (Contd.)
GROSS ENERGY GENERATION OF CAPTIVE POWER PLANTS
(1MW & ABOVE) DURING 2002-03

(GWh)

States / UTs	Non-ferrous	Paper	Plastic	Rubber	Sugar	Tea/coa	Total
	17	18	19	20	21	22	23
Haryana	0.00	148.77	0.00	0.00	58.95	94.69	1154.30
Himachal Pradesh	0.00	0.00	0.00	0.00	0.00	33.39	80.01
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.39	0.39
Punjab	0.00	9.86	0.00	5.40	95.63	295.64	567.13
Rajasthan	10.08	64.44	0.00	31.26	0.00	459.02	2360.69
Uttar Pradesh	0.00	160.03	0.00	3.57	461.10	364.64	7957.14
Uttaranchal	0.00	180.30	0.00	0.00	0.00	0.28	260.95
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	2.82
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	1.80
Sub-Total (NR)	10.08	563.40	0.00	40.18	615.68	1158.02	12585.23
Gujarat	97.48	292.19	0.00	0.00	0.00	1093.09	10131.19
Madhya Pradesh	0.18	267.21	0.00	43.87	9.10	393.60	2337.43
Chhattisgarh	0.00	0.00	0.00	0.00	0.00	60.16	5265.14
Maharashtra	0.00	261.65	0.00	0.00	174.22	259.77	3665.42
Goa	0.00	0.00	0.00	5.94	0.00	0.00	264.07
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D & N Haveli	0.00	1.56	0.00	0.00	0.00	36.98	40.54
Sub-Total (WR)	97.66	822.61	0.00	49.76	184.32	1844.41	21704.23
Andhra Pradesh	0.20	507.11	0.00	31.36	438.46	189.86	7191.77
Karnataka	48.16	409.08	0.00	1.04	637.61	59.94	3709.07
Kerala	13.23	93.76	0.00	3.80	0.00	12.32	444.99
Tamil Nadu	0.00	581.60	0.00	9.05	835.66	506.36	4887.16
Pondicherry	0.00	0.00	2.63	0.80	10.15	2.22	43.70
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (SR)	61.65	1591.55	2.63	45.85	1921.88	770.70	16276.69
Bihar	0.00	0.00	0.00	0.52	38.57	4.20	257.57
Jharkhand	22.70	0.00	0.00	0.00	2.51	0.00	2048.49
Orissa	832.16	158.97	0.00	0.00	1.17	20.65	8108.08
West Bengal	0.00	0.00	0.00	1.02	0.00	42.92	1822.38
A & N Islands	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (ER)	874.86	158.97	0.00	1.54	62.20	67.86	12236.49
Assam	0.00	400.16	0.00	0.00	0.00	0.00	1047.26
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	0.00	0.00	0.00	0.00	0.00	0.00
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
Sub-Total (NER)	0.00	400.16	0.00	0.00	0.00	0.00	1047.26
Total (All India)	1044.25	3536.69	2.63	137.33	2783.08	3840.99	63849.90

Table No. 4.4
**INDUSTRYWISE INSTALLED CAPACITY OF CAPTIVE POWER
 PLANTS (1 MW & ABOVE) AS ON 31.03.2003**

(kW)

<i>name of Industry</i>	<i>INSTALLED CAPACITY AS ON 31.03.2003</i>						
	<i>No. of Industries Covered</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel</i>	<i>Gas</i>	<i>Wind</i>	<i>Total</i>
	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
Aluminium	17	0	2029600	21016	0	0	2050616
Automobiles	15	0	4200	107056	0	0	111256
Cement	128	0	469915	1075299	33760	3500	1582474
Chemicals	267	0	917754	944507	533156	50020	2445437
Cofferies	9	0	101700	75600	20000	0	197300
Electrical Engineering	67	0	61000	192029	10000	0	263029
Fertilizer	58	0	1014150	228128	304670	0	1546948
Food Products	46	0	4725	82818	0	0	87543
Heavy Engineering	29	0	0	143933	0	0	143933
Iron & Steel	119	22110	1489760	443792	256000	12500	2224162
Jute	59	0	4000	176246	0	0	180246
Light Engineering	149	0	3000	404238	0	8865	416103
Mineral Oil & Petroleum	51	0	688708	51250	887180	0	1627138
Mining & Quarrying	19	0	44000	38814	18000	3576	104390
Miscellaneous	336	13500	240429	862890	193963	6258	1317040
Non-Ferrous	24	0	210900	149156	20000	0	380056
Paper	92	640	652033	154105	0	1432	808190
Plastic	1	0	0	2125	0	0	2125
Rubber	23	0	21201	61418	0	2940	85559
Sugar	297	0	1033263	114311	1000	0	1148574
Textile	482	14852	103820	1407364	107425	6042	1639503
Total	2288	51102	9094158	6736095	2385154	95113	18361622

Table No. 4.5
**INDUSTRYWISE ELECTRICITY GENERATION AND CONSUMPTION
 BY INDUSTRIES HAVING CAPTIVE POWER PLANTS
 (1 MW & ABOVE) DURING 2002-03**

(GWh)

<i>Name of Industry</i>	<i>ENERGY GENERATED</i>					<i>Total</i>
	<i>Hydro</i>	<i>Steam</i>	<i>Diesel</i>	<i>Gas</i>	<i>Wind</i>	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
Aluminium	0.00	13451.64	3.93	0.00	0.00	13455.57
Automobiles	0.00	13.34	101.69	0.00	0.00	115.03
Cement	0.00	2141.25	2082.49	150.36	44.93	4419.03
Chemicals	0.00	3615.75	2756.27	2566.23	47.74	8985.99
Collieries	0.00	201.34	13.37	0.00	0.00	214.71
Electrical Engineering	0.00	192.27	137.16	50.00	0.00	379.43
Fertilizer	0.00	2696.78	702.40	1207.25	0.00	4606.43
Food Products	0.00	2.77	72.12	0.00	0.00	74.89
Heavy Engineering	0.00	0.00	55.86	0.00	0.00	55.86
Iron & Steel	22.31	6916.80	617.16	1809.58	15.89	9381.74
Jute	0.00	0.00	41.56	0.00	0.00	41.56
Light Engineering	0.00	0.00	321.09	0.00	6.53	327.62
Mineral Oil & Petroleum	0.00	4032.47	4.63	2384.09	0.00	6421.20
Mining & Quarrying	0.00	169.62	151.52	77.71	31.80	430.65
Miscellaneous	40.00	1455.97	800.25	1283.60	15.40	3595.22
Non-Ferrous	0.00	972.34	61.83	10.08	0.00	1044.25
Paper	0.00	3122.26	412.21	0.00	2.22	3536.69
Plastic	0.00	0.00	2.63	0.00	0.00	2.63
Rubber	0.00	76.05	57.23	0.00	4.05	137.33
Sugar	0.00	2666.73	114.97	1.38	0.00	2783.08
Textile	28.01	502.29	2644.95	657.87	7.87	3840.99
Total	90.32	42229.66	11155.33	10198.16	176.43	63849.90

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Table No. 4.5 (Contd.)

**INDUSTRYWISE ELECTRICITY GENERATION AND CONSUMPTION
BY INDUSTRIES HAVING CAPTIVE POWER PLANTS
(1 MW & ABOVE) DURING 2002-03**

(GWh)

Industry	Auxiliary Generation	Net Generation (7-8)	Export Utilities	Imported in the industry out of self Generation (9-10)	Import from Utilities	Export Consumed in industry (11-12)
	8	9	10	11	12	13
Aluminium	1357.02	12098.55	879.63	11218.92	267.17	11486.09
Automobiles	10.05	104.98	0.00	104.98	408.83	513.81
Cement	328.93	4090.11	4.44	4085.67	4545.44	8631.11
Chemicals	480.91	8505.08	639.14	7865.94	2594.09	10460.03
Collieries	34.73	179.98	0.00	179.98	2318.84	2498.82
Electrical Engineering	28.38	351.04	0.00	351.04	501.67	852.71
Fertilizer	349.39	4257.04	71.26	4185.77	2661.88	6847.65
Food Products	3.57	71.31	0.00	71.31	222.10	293.42
Heavy Engineering	2.12	53.74	0.10	53.64	782.34	835.98
Iron & Steel	911.18	8470.56	368.43	8102.14	4433.70	12535.84
Mute	1.39	40.17	0.00	40.17	287.11	327.28
Light Engineering	12.22	315.40	20.35	295.05	1065.61	1360.65
Mineral Oil & Petroleum	382.24	6038.95	124.32	5914.63	142.49	6057.12
Mining & quarrying	56.81	373.84	0.00	373.84	878.21	1252.05
Miscellaneous	107.69	3487.53	1689.96	1797.57	7936.38	9733.95
Non-Ferrous	96.04	948.21	524.93	423.28	1032.66	1455.94
Paper	292.41	3244.29	48.14	3196.15	887.17	4083.31
Plastic	0.11	2.52	0.00	2.52	5.24	7.76
Rubber	9.32	128.01	0.00	128.01	288.86	416.87
Sugar	251.66	2531.42	553.43	1977.99	629.15	2607.14
Textile	167.83	3673.16	179.65	3493.51	4653.54	8147.05
Total	4884.00	58965.90	5103.79	53862.11	36542.46	90404.57

Table No. 4.6
STATE-WISE INSTALLED CAPACITY OF CAPTIVE POWER PLANTS
(1 MW & ABOVE) AS ON 31.03.2003

(kW)

<i>INSTALLED CAPACITY AS ON 31.03.2003</i>							
<i>State / UT</i>	<i>No. of Industries Covered</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel</i>	<i>Gas</i>	<i>Wind</i>	<i>Total</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
Haryana	87	0	140350	347300	1250	0	488900
Himachal Pradesh	27	0	0	152582	0	0	152582
Jammu & Kashmir	1	0	0	6435	0	0	6435
Punjab	104	0	91493	235345	0	0	326838
Rajasthan	67	0	282621	331823	58250	3576	676270
Uttar Pradesh	193	0	1240535	446432	219613	0	1906580
Uttarakhand	14	640	98624	42528	0	0	91792
Chandigarh	4	0	0	8533	0	0	8533
Delhi	2	0	0	2892	0	0	2892
Sub-Total (NR)	499	640	1803623	1573870	279113	3576	3660822
Gujarat	191	0	978075	545346	934996	19798	2478215
Madhya Pradesh	91	13500	334680	442610	39850	0	830640
Chhattisgarh	36	0	563650	179812	210000	0	953462
Maharashtra	135	0	368099	535512	255840	0	1159451
Goa	16	0	9075	54885	0	0	63960
Daman & Diu	0	0	0	0	0	0	0
D. N. Chandrababu Naidu	12	0	0	37622	0	0	37622
Sub-Total (WR)	531	13500	2253579	1795787	1440686	19798	5523350
Andhra Pradesh	281	6193	846505	820135	289180	6625	1968638
Karnataka	206	8659	527913	570275	1000	0	1107847
Kerala	53	22110	71590	107276	25000	0	225976
Tamil Nadu	387	0	627958	920633	21205	65114	1634910
Pondicherry	17	0	5500	24618	3800	0	33918
Lakshadweep	0	0	0	0	0	0	0
Sub-Total (SR)	944	36962	2079466	2442937	340185	71739	4971289
Bihar	44	0	103970	63121	42500	0	209591
Jharkhand	42	0	712420	207951	20000	0	940381
Orissa	41	0	1570550	130434	0	0	1700984
West Bengal	163	0	415240	447221	92620	0	955081
A & N Islands	2	0	0	2664	0	0	2664
Sikkim	0	0	0	0	0	0	0
Sub-Total (ER)	292	0	2802190	851391	155120	0	3808701
Assam	21	0	147300	72110	170050	0	389460
Mizoram	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	0
Nagaland	1	0	8000	0	0	0	8000
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
Sub-Total (NER)	22	0	155300	72110	170050	0	397460
Total (All India)	2288	51102	9094158	6736095	2385154	95113	18361622

Table No. 4.7

**STATE-WISE ELECTRICITY GENERATION AND CONSUMPTION BY
INDUSTRIES HAVING CAPTIVE POWER PLANTS
(1 MW & ABOVE) DURING 2002-03**

(GWh)

States/UTs	ENERGY GENERATED					
	Hydro	Steam	Diesel	Gas	Wind	Total
	2	3	4	5	6	7
Andhra Pradesh	0.00	669.91	484.39	0.00	0.00	1154.30
Assam	0.00	0.00	80.01	0.00	0.00	80.01
Bihar	0.00	0.00	0.39	0.00	0.00	0.39
Chhattisgarh	0.00	250.81	316.32	0.00	0.00	567.13
Goa	0.00	1359.49	1024.77	153.63	31.80	2569.69
Gujarat	0.00	6718.84	576.30	662.00	0.00	7957.14
Haryana	0.00	200.60	60.35	0.00	0.00	260.95
Himachal Pradesh	0.00	0.00	2.82	0.00	0.00	2.82
Jammu & Kashmir	0.00	0.00	1.80	0.00	0.00	1.80
Sub-Total (NR)	0.00	9190.65	2547.15	815.63	31.80	12585.23
Andhra Pradesh	0.00	4517.38	1769.72	3831.50	12.58	10131.19
Assam	40.00	1142.23	956.78	198.42	0.00	2337.43
Bihar	0.00	3397.07	140.71	1727.36	0.00	5265.14
Chhattisgarh	0.00	1458.95	1014.11	1192.36	0.00	3665.42
Goa	0.00	26.68	237.39	0.00	0.00	264.07
Gujarat	0.00	0.00	0.00	0.00	0.00	0.00
Haryana	0.00	0.00	40.99	0.00	0.00	40.99
Sub-Total (WR)	40.00	10542.31	4159.70	6949.64	12.58	21704.23
Andhra Pradesh	5.18	4467.93	993.34	1717.13	8.19	7191.77
Assam	22.83	2365.02	1319.84	1.38	0.00	3709.07
Bihar	22.31	210.24	67.76	144.68	0.00	444.99
Chhattisgarh	0.00	3073.21	1647.92	42.17	123.86	4887.16
Goa	0.00	10.08	18.62	15.00	0.00	43.70
Haryana	0.00	0.00	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (SR)	50.32	10126.48	4047.48	1920.36	132.05	16276.69
Bihar	0.00	153.71	8.08	95.78	0.00	257.57
Chhattisgarh	0.00	1992.54	55.95	0.00	0.00	2048.49
Goa	0.00	8054.66	53.42	0.00	0.00	8108.08
West Bengal	0.00	1645.73	176.62	0.00	0.00	1822.35
Andaman & Nicobar Islands	0.00	0.00	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (ER)	0.00	11846.64	294.07	95.78	0.00	12236.49
Assam	0.00	523.58	106.93	416.75	0.00	1047.26
Manipur	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
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00
Tripura	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
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (NER)	0.00	523.58	106.93	416.75	0.00	1047.26
Total (All India)	90.32	42229.66	11155.33	10198.16	176.43	63849.90

contd.

Table No 4.7 (Contd.)
STATE-WISE ELECTRICITY GENERATION AND CONSUMPTION BY INDUSTRIES HAVING CAPTIVE POWER PLANTS (1 MW & ABOVE) DURING 2002-03

State / UTs	(GWh)					
	Auxiliary Consumption	Net Generation	Exports to Utilities	Energy used in the industry (A+B+C)	Import from States	Energy Consumed in the industry (D+E)
	8	9	10	11	12	13
Haryana	628	1091.6	3030	888.6	3609	12454
Himachal Pradesh	273	728	000	728	5786	6514
Jammu & Kashmir	000	000	000	000	6248	6287
Punjab	223	5482	318	5247	15157	20021
Rajasthan	1279	24290	44	24246	13891	38127
Uttar Pradesh	7643	7897	14074	78897	191839	86226
Chhattisgarh	003	2912	000	2912	897	3809
Chandigarh	002	28	000	28	1186	1466
Delhi	07	123	000	123	719	882
Sub-Total (NR)	99303	11592.20	36903	11223.17	6912.28	17135.45
Gujarat	3828	95791	3703	95789	25196	111998
Madhya Pradesh	1592	2865	70	21761	16511	35372
Chhatisgarh	2694	47131	2610	47911	17030	60960
Maharashtra	1127	35308	567	34737	82840	120777
Goa	1601	2806	000	2806	1343	3749
Daman & Diu	000	000	000	000	000	000
D & N Haveli	130	390	000	390	5756	4026
Sub-Total (VR)	116791	26546.32	7570	19800.62	14860.96	34661.58
Andhra Pradesh	3672	66016	18733	47672	40625	87895
Karnataka	2932	32975	1606	32379	12450	44712
Kerala	187	4242	220	4242	9191	13413
Tamil Nadu	3807	45409	8346	37563	32866	75029
Pradesh	179	491	000	491	1144	1526
Lakshadweep	000	000	000	000	000	000
Sub-Total (SR)	119947	15077.22	2858.96	12218.27	9564.74	21783.01
West Bengal	778	2322	000	2322	10711	3733
Jharkhand	3728	16701	267	16434	33948	50422
Orissa	8791	27017	11124	65893	10176	76149
West Bengal	16346	16338	510	16849	16257	32106
Assam & Islands	000	000	000	000	000	000
Nikar	000	000	000	000	000	000
Sub-Total (ER)	140400	10832.49	11401.11	9692.38	6141.92	15834.30
Assam	1959	9267	000	9267	6256	9403
Manipur	000	000	000	000	000	000
Meghalaya	000	000	000	000	000	000
Nagaland	000	000	000	000	000	000
Tripura	000	000	000	000	000	000
Andhra Pradesh	000	000	000	000	000	000
Mizoram	000	000	000	000	000	000
Sub-Total (NER)	11959	9267	000	9267	6256	9403
Total (All India)	488400	58866.90	5103.79	53862.11	36542.46	90404.57

Table No. 4.8
**ENERGY CONSUMPTION BY INDUSTRIES HAVING
 CAPTIVE POWER PLANTS (1MW & ABOVE) DURING 2002-2003**
(GWh)

States	Aluminium	Automobiles	Cement	Chemicals	Collieries	Electrical Engg.	Fertiliser	Food Products
	2	3	4	5	6	7	8	9
Andhra Pradesh	0.00	0.00	9.56	12.46	0.00	68.97	177.17	12.04
Assam	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chhattisgarh	0.00	11.97	0.00	50.58	0.00	41.67	341.40	70.53
Goa	0.00	0.00	1425.97	0.00	0.00	33.03	518.73	0.00
Gujarat	4586.40	71.47	20.43	310.57	0.00	162.10	1828.65	39.07
Haryana	0.00	0.00	0.00	0.00	0.00	76.21	0.00	0.00
Himachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Karnataka	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.04
Sub-Total (NR)	4586.40	83.44	1848.19	373.61	0.00	381.98	2865.95	125.68
Madhya Pradesh	0.00	0.00	573.46	3722.77	0.00	29.32	1682.97	10.97
Maharashtra	0.00	0.00	1390.56	957.17	0.00	106.35	0.00	0.00
Madhya Pradesh	1536.77	0.00	825.99	0.00	0.00	154.51	0.00	0.00
Maharashtra	0.00	286.82	352.05	2621.05	0.00	60.39	543.94	0.00
Orissa	0.00	0.00	0.00	24.97	0.00	0.00	87.56	45.40
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
West & N. Haveli	23.61	0.00	0.00	80.31	0.00	0.00	0.00	0.00
Sub-Total (WR)	1560.38	286.82	3142.06	7406.28	0.00	350.57	2314.47	56.37
Andhra Pradesh	19.13	4.15	1672.41	981.50	648.29	27.35	273.39	48.23
Karnataka	7.33	39.91	918.37	390.63	0.00	59.12	262.72	38.42
Kerala	0.00	0.00	52.48	115.03	0.00	10.11	201.17	0.00
Tamil Nadu	564.39	58.24	735.70	934.53	0.00	0.00	289.83	11.65
Pondicherry	0.00	0.00	0.00	13.45	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (SR)	590.85	102.30	3378.96	2435.14	648.29	96.58	1027.11	98.30
Bihar	0.00	0.00	52.89	25.08	0.00	1.18	0.00	0.00
Jharkhand	33.40	0.00	81.31	166.17	1850.53	0.00	0.00	0.00
Orissa	4715.06	0.00	127.70	0.00	0.00	0.00	429.24	0.00
West Bengal	0.00	41.25	0.00	38.22	0.00	22.40	11.60	13.07
Andaman & Nicobar Islands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (ER)	4748.46	41.25	261.90	229.47	1850.53	23.58	440.84	13.07
Assam	0.00	0.00	0.00	15.53	0.00	0.00	199.28	0.00
Manipur	0.00	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	0.00
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tripura	0.00	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	0.00
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (NER)	0.00	0.00	0.00	15.53	0.00	0.00	199.28	0.00
Total (All India)	11486.09	513.81	8631.11	10460.03	2498.82	852.71	6847.65	293.42

contd.

Table No. 4.8 (Contd.)
**ENERGY CONSUMPTION BY INDUSTRIES HAVING
 CAPTIVE POWER PLANTS (1MW & ABOVE) DURING 2002-2003**
 (GWh)

States/UTs	Heavy Engineering	Iron & Steel	Textile	Light Engg.	Mineral Oil & Petro.	Mining & quarrying	Misc.
	10	11	12	13	14	15	16
Haryana	17.12	95.02	0.00	27.25	0.00	0.00	470.87
Himachal Pradesh	0.00	0.00	0.00	15.95	0.00	0.00	35.48
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Punjab	22.21	149.98	0.00	99.32	0.00	0.00	73.66
Rajasthan	4.64	10.62	0.00	0.00	0.00	40.79	930.59
Uttar Pradesh	17.97	80.98	22.62	48.54	227.32	6.00	216.45
Uttaranchal	0.00	2.94	0.00	1.32	0.00	0.00	48.24
Chandigarh	0.00	0.00	0.00	0.00	0.00	6.60	8.05
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	4.88
Sub-Total (NR)	61.94	339.54	22.62	192.38	227.32	63.39	1788.22
Gujarat	8.24	136.57	0.00	53.33	2996.76	0.00	350.56
Madhya Pradesh	0.00	65.40	0.00	0.00	32.78	0.00	210.47
Chhattisgarh	0.00	3814.62	0.00	0.00	0.00	0.00	11.86
Madhprashtra	209.82	431.46	0.00	223.33	301.33	0.00	6231.70
Goa	0.35	116.19	0.00	0.00	0.00	0.00	51.19
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
Sub-Total (WR)	218.41	4564.24	0.00	276.66	3330.87	0.00	6855.78
Andhra Pradesh	12.81	2403.80	6.57	68.40	303.86	0.00	378.30
Karnataka	180.77	425.10	0.00	331.48	416.14	85.83	232.36
Kerala	13.98	56.80	0.00	0.00	220.36	0.00	78.40
Tamil Nadu	29.12	253.90	0.00	406.82	343.27	0.00	195.38
Pondicherry	0.00	0.00	0.00	5.38	0.00	0.00	68.95
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (SR)	236.68	3139.60	6.57	812.08	1283.63	85.83	953.29
Bihar	0.00	7.79	9.76	0.00	173.17	0.00	5.56
Jharkhand	318.95	2084.30	0.00	70.03	0.00	264.94	0.00
Orissa	0.00	1214.15	0.00	0.00	3.42	15.65	38.21
West Bengal	0.00	1186.22	288.33	9.52	689.12	743.58	92.89
A & N Islands	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (ER)	318.95	4492.46	298.09	79.53	867.71	1024.17	136.66
Assam	0.00	0.00	0.00	0.00	347.59	88.66	0.00
Mizoram	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	0.00	0.00	0.00	0.00	0.00	0.00
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
Sub-Total (NER)	0.00	0.00	0.00	0.00	347.59	88.66	0.00
Total (All India)	835.98	12535.84	327.28	1360.65	6057.12	1252.05	9733.95

contd.

Table No. 4.8 (Contd.)
**ENERGY CONSUMPTION BY INDUSTRIES HAVING
 CAPTIVE POWER PLANTS (1MW & ABOVE) DURING 2002-2003**
 (GWh)

States/UTs	Non-Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total (2 to 22)
	17	18	19	20	21	22	23
Haryana	0.00	144.07	0.00	0.00	91.36	118.65	1244.54
Jharkhand	0.00	0.00	0.00	0.00	0.00	210.48	654.14
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	62.87	62.87
Punjab	0.00	113.11	0.00	22.98	276.82	765.98	2040.21
Rajasthan	129.60	180.14	0.00	35.57	0.00	507.59	3817.27
Uttar Pradesh	0.00	179.49	0.00	11.65	394.35	728.30	8952.36
Uttarakhand	0.00	196.59	0.00	0.00	0.00	15.19	340.49
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	14.65
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	8.92
Sub-Total (NR)	129.60	813.40	0.00	70.20	762.53	2409.06	17135.45
Gujarat	99.79	315.01	0.00	0.00	0.00	1220.09	11199.84
Madhya Pradesh	118.90	268.54	0.00	51.18	9.13	643.24	3853.72
Chhattisgarh	0.00	0.00	0.00	0.00	0.00	65.85	6409.60
Maharashtra	18.11	288.38	0.00	0.00	370.42	468.97	12407.77
Goa	0.00	0.00	0.00	53.83	0.00	0.00	379.49
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. & N. Haveli	0.00	4.68	0.00	0.00	0.00	302.56	411.16
Sub-Total (WR)	236.80	876.61	0.00	105.01	379.55	2700.71	34661.58
Andhra Pradesh	368.98	507.98	0.00	49.54	413.85	580.41	8768.95
Karnataka	52.22	445.25	0.00	42.46	417.98	124.20	4470.29
Kerala	146.33	220.39	0.00	55.08	0.00	170.00	1340.13
Tamil Nadu	0.00	655.01	0.00	68.15	565.06	1939.34	7050.29
Andhra Pradesh	0.00	0.00	7.76	7.24	11.08	39.49	153.35
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (SR)	567.53	1828.63	7.76	222.47	1407.97	2853.44	21783.01
Bihar	0.00	0.00	0.00	2.49	53.20	4.21	337.33
Jharkhand	141.89	0.00	0.00	0.00	2.72	0.00	5014.22
Orissa	380.12	205.70	0.00	0.00	1.17	31.27	7161.69
West Bengal	0.00	19.80	0.00	16.70	0.00	148.36	3321.06
A & N Islands	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (ER)	522.01	225.50	0.00	19.19	57.09	183.84	15834.30
Assam	0.00	339.17	0.00	0.00	0.00	0.00	990.23
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	0.00	0.00	0.00	0.00	0.00	0.00
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
Sub-Total (NER)	0.00	339.17	0.00	0.00	0.00	0.00	990.23
Total (All India)	1455.94	4083.31	7.76	416.87	2607.14	8147.05	90404.57

contd.

Table No. 4.9
**CLASSIFICATION OF CAPTIVE POWER PLANTS
 OF INDUSTRIES (CAPACITYWISE)
 DURING 2002-2003**

Range of Installed Capacity (MW)	No. Generating Industries	Installed Capacity of the Group		Gross Energy Generated by the Group	
		Aggregate (MW)	% of Total Capacity	Aggregate (GWh)	% of Total Generation
1.00MW & Upto 10.00MW	1942	5247.04	28.57	8206.60	12.85
10.00MW & Upto 20.00MW	151	1845.48	10.05	4588.00	7.19
20.00MW & Upto 30.00MW	79	1749.59	9.53	6787.67	10.63
30.00MW & Upto 40.00MW	45	1253.87	6.83	3911.50	6.13
40.00MW & Upto 50.00MW	16	880.99	4.80	3671.93	5.75
50.00MW & Upto 100.00MW	37	2312.75	12.60	9957.32	15.59
Over 100.00MW	18	5071.90	27.62	26726.88	41.86
Total	2288	18361.62	100.00	63849.90	100.00

Table No. 4.10
PROGRESS OF INSTALLED PLANT CAPACITY OF INDUSTRIES HAVING CAPTIVE POWER PLANTS (1MW & ABOVE)

<i>Year Ending</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel</i>	<i>Gas</i>	<i>Railways</i>	<i>(MW)</i> <i>Total</i>
Dec-48	*	*	*	*	0.00	409.52
Dec-49	*	*	*	*	0.00	544.40
Dec-50	*	*	*	*	0.00	587.85
Dec-51	*	*	*	*	0.00	627.98
Dec-52	*	*	*	*	0.00	670.16
Dec-53	*	*	*	*	0.00	663.53
Dec-54	*	*	*	*	0.00	685.31
Dec-55	*	*	*	*	0.00	723.51
Dec-56	*	*	*	*	0.00	759.65
31.03.58	*	*	*	*	0.00	769.44
31.03.59	*	*	*	*	0.00	812.42
31.03.60	*	*	*	*	0.00	935.37
31.03.61	*	*	*	*	0.00	1001.37
31.03.62	*	*	*	*	0.00	1041.79
31.03.63	*	*	*	*	0.00	1124.10
31.03.64	*	*	*	*	0.00	986.96
31.03.65	*	*	*	*	65.13	1061.39
31.03.66	*	*	*	*	63.64	1146.00
31.03.67	*	*	*	*	64.03	1283.92
31.03.68	*	*	*	*	62.05	1269.69
31.03.69	*	*	*	*	61.93	1339.40
31.03.70	*	*	*	*	45.14	1417.43
31.03.71	*	*	*	*	45.14	1562.01
31.03.72	*	*	*	*	58.53	1635.32
31.03.73	*	*	*	*	55.56	1708.33
31.03.74	*	*	*	*	59.81	1792.51
31.03.75	*	*	*	*	64.27	2028.57
31.03.76	*	*	*	*	60.63	2131.52
31.03.77	2.56	1783.66	423.47	15.37	61.84	2286.90
31.03.78	2.56	1879.12	517.84	44.27	62.37	2506.16
31.03.79	2.61	1949.23	559.17	44.27	62.31	2617.59
31.03.80	2.61	2021.61	720.58	54.27	60.44	2859.51

contd.

Table No. 4.10 (Contd.)
PROGRESS OF INSTALLED PLANT CAPACITY OF INDUSTRIES HAVING CAPTIVE POWER PLANTS (1MW & ABOVE)

<i>Year Ending</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel/a</i>	<i>Gas</i>	<i>Railways</i>	<i>Total</i>
31.03.81	2.61	2116.55	867.70	54.27	61.24	3402.37
31.03.82	2.60	2263.67	1060.43	48.90	60.51	3436.11
31.03.83	2.60	2442.38	1306.84	54.27	65.57	3871.66
31.03.84	2.61	2633.02	1602.49	60.05	68.53	4366.70
31.03.85	2.91	2803.18	2077.06	155.31	81.80	5120.26
31.03.86	2.66	2881.62	2378.39	156.46	84.97	5504.10
31.03.87	3.60	3328.69	2090.39	205.86	86.00	5714.54
31.03.88	3.60	3732.23	2277.77	242.51	88.53	6344.64
31.03.89	3.60	4515.85	2581.33	319.11	103.60	7523.49
31.03.90	3.60	4822.85	2754.48	425.51	109.29	8115.73
31.03.91	3.60	4991.07	3031.67	475.25	110.76	8612.35
31.03.92	4.30	5377.10	3291.06	495.72	133.23	9301.41
31.03.93	4.30	5540.74	3728.66	630.81	140.03	10044.54
31.03.94	4.30	5792.99	4003.51	773.89	147.44	10722.13
31.03.95	4.30	6010.47	4193.53	807.74	148.01	11164.05
31.03.96	3.50	6305.30	4364.77	955.41	158.17	11787.15
31.03.97	3.50	6151.69	4594.74	1166.38	162.62	12078.93
31.03.98	20.75	6628.87	5023.87	1330.44	162.35	13166.28
31.03.99	23.69	6799.08	5432.94	1676.06	159.42	14091.19
31.3.2000	46.80	7675.66	5796.85	1816.89	0.00	15336.20
31.3.2001	46.72	7996.79	6289.54	1823.31	0.00	16156.36
31.3.2002	51.10	8354.03	6614.16	2125.91	0.00	17145.20
31.3.2003	51.10	9094.16	6831.21	2385.15	0.00	18361.62

a includes Wind

*Breakup not available

**PROGRESS OF ENERGY GENERATED BY INDUSTRIES/ENTERPRISES
CAPTIVE POWER PLANTS (1 MW & ABOVE)**

(GWh)

<i>Year Ending</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel/G</i>	<i>Gas</i>	<i>Railways</i>	<i>Total</i>
1949	*	*	*	*	0.00	1299.56
1950	*	*	*	*	0.00	1467.81
1951	*	*	*	*	0.00	1655.57
1952	*	*	*	*	0.00	1883.58
1953	*	*	*	*	0.00	1983.91
1954	*	*	*	*	0.00	2054.64
1955	*	*	*	*	0.00	2184.82
1956	*	*	*	*	0.00	2209.51
1957-58	*	*	*	*	0.00	2288.29
1958-59	*	*	*	*	0.00	2420.68
1959-60	*	*	*	*	0.00	2760.88
1960-61	*	*	*	*	0.00	3186.10
1961-62	*	*	*	*	0.00	3287.21
1962-63	*	*	*	*	0.00	3862.30
1963-64	*	*	*	*	0.00	3394.20
1964-65	*	*	*	*	104.80	3570.32
1965-66	*	*	*	*	101.94	3835.13
1966-67	*	*	*	*	88.42	4136.60
1967-68	*	*	*	*	81.59	4120.20
1968-69	*	*	*	*	72.08	4208.14
1969-70	*	*	*	*	36.65	4554.71
1970-71	*	*	*	*	36.65	5383.89
1971-72	*	*	*	*	43.00	5458.72
1972-73	*	*	*	*	37.85	5969.60
1973-74	*	*	*	*	39.63	6107.10
1974-75	7.28	6158.53	269.91	15.93	36.30	6487.95
1975-76	8.92	6385.14	232.68	30.38	38.18	6695.30
1976-77	8.10	6897.70	294.79	39.75	41.16	7281.50
1977-78	11.75	7087.28	382.56	38.14	38.83	7558.56
1978-79	13.22	7211.30	299.13	48.97	34.47	7607.09
1979-80	15.06	7225.60	825.71	90.67	35.67	8192.71
1980-81	15.06	7202.77	1053.98	101.82	42.42	8416.05
1981-82	18.24	7737.33	1129.15	94.24	44.73	9023.69
1982-83	10.00	8497.05	1406.27	75.68	46.71	10035.71

contd.

Table No. 4.11 (Contd.)
PROGRESS OF ENERGY GENERATED BY INDUSTRIES HAVING CAPTIVE POWER PLANTS (1 MW & ABOVE)

(GWh)

<i>Year Ending</i>	<i>Hydro</i>	<i>Steam</i>	<i>Diesel</i>	<i>Gas</i>	<i>Railways</i>	<i>Total</i>
1983-84	18.27	8927.59	1731.54	91.62	47.62	10816.64
1984-85	18.29	9966.55	2001.18	317.03	42.80	12345.85
1985-86	18.29	10226.83	2350.92	401.31	42.97	13040.32
1986-87	18.09	10910.02	2258.28	341.79	36.60	13564.78
1987-88	18.09	13737.16	2595.97	504.22	35.10	16890.54
1988-89	16.45	16314.23	2686.13	864.13	30.51	19911.45
1989-90	15.83	19110.46	2757.27	1313.29	29.07	23225.92
1990-91	14.89	20005.67	3216.27	1844.98	28.82	25110.63
1991-92	17.57	23409.35	3247.81	1905.24	22.52	28602.49
1992-93	16.54	24679.89	3828.01	2803.31	23.76	31351.51
1993-94	14.89	25413.58	3684.64	3149.48	22.45	32285.04
1994-95	14.89	27387.92	4234.01	3407.04	22.70	35066.56
1995-96	17.39	28751.69	4796.89	4576.25	23.85	38166.07
1996-97	28.84	29127.94	6619.01	5039.22	25.07	40840.08
1997-98	78.84	30683.70	7512.43	5775.66	26.96	44077.59
1998-99	80.38	31198.19	8202.80	8871.96	26.20	48379.53
1999-2000	98.36	34813.90	10552.89	9932.01	0.00	55397.16
2000-01	99.85	40256.24	11499.53	7782.34	0.00	59637.96
2001-02	116.59	41853.85	10875.19	8835.19	0.00	61680.82
2002-03	90.32	42229.66	11331.76	10198.16	0.00	63849.90

or includes Wind

*Breakup not available

Section 10
Electric Power
Supply
and
System Losses

SECTION -5**ELECTRIC POWER SUPPLY AND SYSTEM LOSSES**

During the year 2002-03 gross electricity generation was 51692.96 GWh, out of which 38256.68 GWh representing 7.18% of gross generation was consumed in power station auxiliaries. Thus net generation available at the bus-bar was 494436.28 MWh. Electricity purchased by public Utilities from captive plants was 6699.70 GWh and electricity imported from Nepal & Bhutan was 1519.58 GWh. Thus the total electricity available for supply during the year was 502655.56 GWh as compared to 49802.96 GWh during the year 2001-02.

Electricity sold to various classes of consumers during the year 2002-03 was 339598.27 GWh and electricity exported outside the country i.e. to Nepal and Bhutan was 174.98 GWh. The electricity lost in transformation, transmission and distribution system and electricity unaccounted worked out to 162882.31 GWh representing 32.54% of the total available electricity. Amongst all the regions percentage system losses were maximum in North-Eastern Region i.e. 33.28%. This was followed by Northern Region with 30.41%, Western Region with 11.4%, Eastern Region with 27.41% and Southern Region with 4.16% losses.

The various tables in this Section represent the Region-wise, State-wise and Board-wise Transmission & Distribution losses, transfer of electricity between different systems and electricity consumed in power auxiliaries.



Table No. 5.1

**ELECTRICITY GENERATED, PURCHASED, SOLD AND ENERGY
LOSSES (ALL INDIA UTILITIES) DURING 2002-03**

Sl. No.	Item	Energy (GWh)	%age of Item 1
1.	Energy generated (gross) (Utilities)	532692.96	100.00
2.	Energy used in power station auxiliaries	38256.68	7.18
3.	Energy generated (Net) at bus-bar i.e. (1) - (2)	494436.28	92.82
			%age of item 6
4.	Energy purchased from Non-Utilities	6699.70	1.34
5.	Energy imported from other countries (Nepal & Bhutan)	1819.58	0.35
6.	Energy available for supply i.e. (3) + (4) + (5)	502655.56	100.00
7.	Energy sold to ultimate consumers	339598.27	67.43
8.	Energy sold to other countries (Nepal & Bhutan)	174.98	0.35
9.	Total energy sold i.e. (7) + (8)	339773.25	67.43
10.	Energy lost in transformation, transmission and distribution and unaccounted for i.e. (6) - (9)	162882.31	32.57

Table No. 5.2
**ENERGY LOST IN TRANSMISSION AND DISTRIBUTION SYSTEM
 REGIONWISE- DURING 2002-03**

	<i>Northern Region</i>	<i>Western Region</i>	<i>Southern Region</i>	<i>Eastern Region</i>	<i>North Eastern Region</i>
I ENERGY GENERATED (NET)	146313.59	158332.83	125829.75	58652.43	5307.68
II ENERGY PURCHASED					
a From Non-Utilities	400.45	2467.87	3288.50	542.88	0.00
b From other Regions	1692.83	5757.71	4811.77	332.46	846.50
c From other countries	0.00	0.00	0.00	1519.58	0.00
Sub-Total	2093.28	8225.58	8100.27	2394.92	846.50
I + II Total Energy available (I+II)	148406.87	166558.41	133930.02	61047.35	6154.18
III ENERGY SALES					
To Ultimate consumers	92417.86	108978.65	100354.02	34279.05	3568.69
To other Regions	1863.97	193.97	1221.02	9932.36	229.95
To other Countries	72.95	0.00	0.00	102.03	0.00
Sub-Total III	94354.78	109172.62	101575.04	44313.44	3798.64
IV ENERGY LOSS IN TRANSMISSION & DISTRIBUTION & UNACCOUNTED FOR	54052.09	57385.79	32354.98	16733.91	2355.54
V PERCENTAGE ENERGY LOSS (V/III)	36.42	34.45	24.16	27.41	38.28

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.5.1

Table No. 5.3
ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF
ENERGY UTILISATION OF ENERGY AND SYSTEM LOSSES
STATEWISE DURING 2002-03

State/U.T.	Net Generation in own Power Houses (Other than jointly owned projects & Central Govt. Projects)	ENERGY RECEIVED FROM			Energy Available in the States (2+3+4+5)
		Jointly owned & Central Govt. projects except BBMB & DVC	Self Gene rating Industries	From other States including BBMB & DVC including from outside the country	
1	2	3	4	5	6
Haryana	5580.30	9600.38	95.00	3524.10	18799.77
Himachal Pradesh	1630.34	1844.67	0.00	926.39	4401.50
Jammu & Kashmir	379.41	5847.39	0.00	237.94	6464.74
Punjab	16034.18	7666.17	81.29	4894.23	28675.87
Rajasthan	12813.53	11773.47	4.40	2098.10	26689.50
Uttar Pradesh	20215.11	18012.09	207.84	31.30	38466.34
Uttaranchal	3417.91	1877.61	11.92	32.90	5340.34
Chandigarh	0.00	554.36	0.00	505.00	1059.36
Delhi	2871.41	15758.32	0.00	1961.59	20591.32
B.B.M.B.	10520.00	0.00	0.00	0.00	10520.00
Gujarat	33959.37	11834.43	1452.00	916.41	48162.21
Madhya Pradesh	12710.12	12877.91	0.00	1231.77	26819.80
Chhattisgarh	7134.66	3413.50	666.25	0.00	11214.41
Maharashtra	59013.03	16064.68	349.62	295.75	75723.08
Goa	270.32	2459.93	0.00	465.00	3195.25
Daman & Diu	0.00	965.60	0.00	0.00	965.60
D & N Haveli	0.00	1503.95	0.00	0.00	1503.95
Andhra Pradesh	30737.44	12681.38	1518.55	68.93	45006.30
Karnataka	19921.32	8549.89	830.00	82.00	29383.21
Kerala	5737.97	6526.10	0.00	35.80	12299.87
Tamil Nadu	28816.38	15032.31	939.95	226.40	45015.04
Pondicherry	260.98	1412.43	0.00	287.45	1960.86
Lakshadweep	20.55	0.00	0.00	0.00	20.55
Bihar	510.55	5054.72	0.00	424.67	5989.94
Jharkhand	3518.42	668.57	0.00	4788.60	8975.59
Orissa	5356.21	5885.03	542.88	743.40	12527.52
West Bengal	20119.72	889.30	0.00	3806.74	24815.76
D.V.C.	7724.27	1369.99	0.00	627.37	9721.63
A & N Islands	134.93	0.00	0.00	0.00	134.93
Sikkim	40.38	77.94	0.00	43.96	162.28
Assam	866.32	2294.17	0.00	17.36	3177.85
Manipur	0.00	491.27	0.00	0.00	491.27
Meghalaya	571.23	364.12	0.00	0.00	935.35
Nagaland	23.08	269.16	0.00	0.00	292.24
Tripura	330.19	344.30	0.00	0.00	674.49
Arunachal Pradesh	26.45	103.29	0.00	0.00	129.74
Mizoram	9.88	230.77	0.00	47.44	278.09

BBMB - Bhakra Beas Management Board, D.V.C. - Damodar Valley Corporation

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Table No. 5.3 (Contd.)
**ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF
 ENERGY UTILISATION OF ENERGY AND SYSTEM LOSSES
 STATEWISE DURING 2002-03**

(GWh)

State/UTs	ENERGY SENT OUT TO SOLD TO			Transformation, Transmission & Distribution Losses & Energy unaccounted for	
	Ultimate consumers within the State	Other States including outside the country	Total (T.S.)	Quantum (GWh)	%age to Column 6
	8	9	10	11	12
Andhra	11721.70	0.00	11721.70	7078.08	37.65
Andhra Pradesh	2529.03	940.98	3470.01	931.49	21.16
Arunachal Pradesh & Kashmir	3325.20	194.80	3520.00	2944.74	45.55
Assam	21113.41	560.63	21674.04	7001.83	24.42
Bihar	14569.32	747.73	15317.05	11372.45	42.61
Chhatisgarh	25184.36	140.38	25324.74	13141.60	34.16
Goa	2464.00	1532.28	3996.28	1344.06	25.17
Gujarat	804.49	0.00	804.49	254.87	24.06
Haryana	10706.35	449.00	11155.35	9435.97	45.82
Jammu & Kashmir	0.00	9973.00	9973.00	517.00	5.20
Northern Region				54052.09	36.42
Gujarat	34427.76	0.00	34427.76	15734.45	28.52
Madhya Pradesh	15175.99	29.26	15205.25	11614.55	43.31
Chhattisgarh	6334.11	635.03	6969.14	4245.27	37.86
Maharashtra	49944.33	23.42	49967.75	25755.33	34.01
Goa	2376.74	532.15	2908.89	1286.36	40.26
Daman & Diu	821.22	0.00	821.22	144.38	14.95
D & N Haveli	898.50	0.00	898.50	605.45	40.26
Western Region				57385.79	34.45
Andhra Pradesh	31345.30	109.11	31454.41	13551.89	30.11
Karnataka	21698.23	465.00	22163.23	7219.98	24.57
Kerala	8783.12	140.52	8923.64	3376.23	27.45
Tamil Nadu	36961.93	262.20	37224.13	7790.91	17.31
Pondicherry	1547.21	0.00	1547.21	413.65	21.10
Lakshadweep	18.23	0.00	18.23	2.32	11.29
Southern Region				32354.98	24.16
Bihar	3612.85	102.03	3714.88	2275.06	37.98
Chhatisgarh	6920.09	153.55	7073.64	1901.95	21.19
Orissa	6800.95	44.17	6845.12	5682.40	45.36
West Bengal	16763.65	1618.15	18381.80	6433.96	25.93
D & C	0.00	9396.79	9396.79	324.84	3.34
A & N Islands	108.24	0.00	108.24	26.69	19.78
Sikkim	73.27	0.00	73.27	89.01	54.85
Eastern Region				16733.91	27.41
Assam	1960.81	0.00	1960.81	1217.04	38.30
Manipur	178.55	0.00	178.55	312.72	63.66
Meghalaya	712.98	17.36	730.34	205.01	21.92
Nagaland	126.52	0.00	126.52	165.72	56.71
Tripura	362.97	37.44	400.41	274.08	40.64
Arunachal Pradesh	79.21	0.00	79.21	50.53	38.95
Mizoram	147.65	0.00	147.65	130.44	46.91
North Eastern Region				2355.54	38.28
All India				162882.31	32.54

Table No. 5.4
**ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF
 ENERGY UTILISATION AND LOSSES BY STATE ELECTRICITY
 BOARDS D.V.C.&B.B.M.B. DURING 2002-03**

in GWh

State / C.T.	Net Generation in own Power House other than jointly owned and Central Govt. Projects	ENERGY RECEIVED FROM			Energy available for supply (including sales outside the States (2+3+4+5))
		Utilities within State jointly owned Central Govt. Projects except DVC & BBMB	Energy received from self generating Industries	Other Board Electric Undertakings (including DVC & BBMB Other countries)	
1	2	3	4	5	6
Himachal Pradesh	1301.66	2298.90	0.00	926.49	4527.05
Punjab	16033.59	7866.17	81.29	4745.23	28726.28
B.B.M.B.	10520.00	0.00	0.00	0.00	10520.00
Gujarat	21221.54	21540.50	1452.00	916.41	45130.45
Madhya Pradesh	12687.17	12910.43	0.00	1231.77	26829.37
Chhattisgarh	7134.66	2993.50	666.25	0.00	10794.41
Maharashtra	44598.04	17396.03	349.62	295.75	62639.44
Kerala	5734.59	7000.89	0.00	35.80	12771.28
Tamil Nadu	22949.25	20428.45	939.95	229.33	44546.98
Bihar	460.57	5094.80	0.00	424.67	5980.04
Jharkhand	1209.94	1928.05	0.00	2307.63	5445.62
West Bengal	506.75	12694.80	0.00	1629.47	14831.02
D.V.C.	7724.26	1369.99	0.00	627.37	9721.62
Assam	728.14	2432.36	0.00	17.36	3177.86
Meghalaya	571.23	364.96	0.00	0.00	936.19

ABBREVIATIONS:

B.B.M.B. - Bhakra Beas Management Board

D.V.C. - Damodar Valley Corporation.

contd

Table No. 5.4 (Contd.)
**ENERGY GENERATION (NET), INTER SYSTEM TRANSFER OF
 ENERGY, UTILISATION AND LOSSES BY STATE ELECTRICITY
 BOARDS, D.V.C. & B.B.M.B. DURING 2002-03**

State/ Board/ Undertaking	ENERGY SOLD TO				: (GWh)	
	Energy sold to ultimate consumers	Licensees within the State	Other Boards/ Undertakings D.V.C. other companies	Total sold : 7+8+9	Transformation, Trans- mission & Distribution losses and energy unaccounted for : (GWh) : 6-10	% of Col.6
	7	8	9	10	11	12
Uttar Pradesh	2519.03	0.00	940.98	3460.01	1067.04	23.57
Punjab	20964.41	0.00	560.63	21525.04	7201.34	25.07
B.B.M.B.	0.00	0.00	9973.00	9973.00	547.00	5.20
Gujarat	27604.00	3313.00	0.00	30917.00	14213.45	31.49
Madhya Pradesh	14851.85	428.55	29.26	15309.66	11519.71	42.94
Chhattisgarh	6259.11	0.00	635.94	6895.05	3899.36	36.12
Maharashtra	38709.67	631.46	22.70	38763.83	23875.61	38.12
Kerala	8686.92	121.12	140.52	8948.56	3822.72	29.93
Tamil Nadu	36077.00	0.00	262.20	36339.20	8207.78	18.42
Bihar	3602.85	0.00	102.03	3704.88	2275.16	38.05
Uttarakhand	2485.32	0.00	136.56	2621.88	2823.74	51.85
West Bengal	8095.35	1278.36	498.45	9872.16	4958.86	33.44
D.V.C.	0.00	0.00	9396.79	9396.79	324.83	3.34
Assam	1960.81	0.00	0.00	1960.81	1217.05	38.30
Meghalaya	712.98	0.00	17.36	730.34	205.85	21.99

Table No. 5.5
**STATEMENT SHOWING PILFERAGE/MISUSE OF ENERGY AS
 REPORTED BY STATE ELECTRICITY BOARDS DURING 2002-03.**

<i>Board</i>	<i>No. of cases where inspec- tions were carried out</i>	<i>No. of cases where theft or misuse was detected</i>	<i>Estimated quan- ty of energy considered as pilferage or misuse</i>
Himachal Pradesh	N.F.	N.F.	N.F.
Punjab	N.F.	N.F.	N.F.
Gujarat	1966657	204147	N.A.
Madhya Pradesh	1370252	411951	N.A.
Chhattisgarh	121810	47538	166.79
Maharashtra	13319	7843	34.90
Kerala	7888	1621	6.21
Tamil Nadu	4465996	468	NA
Bihar	NF	NF	NF
Jharkhand	NF	NF	NF
West Bengal	182233	14135	7.80
Assam	NF	NF	NF
Meghalaya	2265	510	0.54

Note:-

N.F. = Data not furnished

N.A. = Data not Available.

Table No. 5.6
GROSS GENERATION, NET GENERATION AND AUXILIARY CONSUMPTION (UTILITIES ONLY) PRIME-MOVERWISE/STATEWISE DURING 2002-03

Name of the State/UT (GWh)	TOTAL		Auxiliary Consumption	
	Gross Generation (GWh)	Net Generation (GWh)	Total	% of Gross Generation
Andhra Pradesh	9783.14	9091.52	691.62	7.07
Assam	1650.00	1630.34	19.66	1.19
Chhattisgarh	381.00	379.41	1.59	0.42
Goa	22341.37	21094.17	1247.20	5.58
Gujarat	17171.06	15729.97	1441.09	8.39
Haryana	22377.23	20215.11	2162.12	9.66
Jammu & Kashmir	3426.14	3417.91	8.23	0.24
Karnataka	0.00	0.00	0.00	0.00
Kerala	3351.30	3147.70	203.60	6.08
Madhya Pradesh	76303.75	71607.46	4696.29	6.15
Sub-Total(NR)	156784.99	146313.59	10471.40	6.68
Andhra Pradesh	37114.15	33959.37	3154.78	8.50
Madhya Pradesh	15484.72	14165.05	1319.67	8.52
Chhattisgarh	7870.17	7134.66	735.51	9.35
Maharashtra	63449.15	59125.64	4323.51	6.81
Goa	273.05	270.32	2.73	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 (WR)	47164.72	43677.79	3486.93	7.39
Sub-Total(WR)	171355.96	158332.83	13023.13	7.60
Andhra Pradesh	33478.00	31237.81	2240.19	6.69
Karnataka	21011.26	19945.38	1065.88	5.07
Kerala	5785.80	5737.97	47.83	0.83
Tamil Nadu	30821.33	28816.38	2004.95	6.51
Lakshadweep	20.89	20.55	0.34	1.63
Pondicherry	264.00	260.98	3.02	1.14
Central Sector (SR)	43285.88	39810.68	3475.20	8.03
Sub-Total(SR)	134667.16	125829.75	8837.41	6.56
Bihar	594.52	510.55	83.97	14.12
Jharkhand	3906.00	3518.42	387.58	9.92
Orissa	5882.43	5529.42	353.01	6.00
West Bengal	21979.05	20119.72	1859.33	8.46
D.V.C.	8955.59	7724.27	1231.32	13.75
A. & N. Islands	138.80	134.93	3.87	2.79
Sikkim	40.53	40.38	0.15	0.37
Central Sector (ER)	22991.51	21074.74	1916.77	8.34
Sub-Total(ER)	64488.43	58652.43	5836.00	9.05
Assam	884.00	866.32	17.68	2.00
Manipur	0.00	0.00	0.00	0.00
Meghalaya	573.51	571.23	2.28	0.40
Nagaland	23.65	23.08	0.57	2.41
Tripura	336.38	330.19	6.19	1.84
Arunachal Pradesh	27.00	26.45	0.55	2.04
Mizoram	9.95	9.88	0.07	0.70
Central Sector (NER)	3541.93	3480.53	61.40	1.73
Sub-Total(NER)	5396.42	5307.68	88.74	1.64
Total (All India)	532692.96	494436.28	38256.68	7.18

contd.

Table No. 5.6 (Contd.)
GROSS GENERATION, NET GENERATION AND AUXILIARY CONSUMPTION (UTILITIES ONLY) PRIME MOVERWISE/STATEWISE DURING 2002-03

Name of the State/UT (GWh)	HYDRO		Auxiliary Consumption	
	Gross Generation (GWh)	Net Generation (GWh)	Total	% of Gross Generation
Haryana	3660.87	3617.83	43.04	1.18
Himachal Pradesh	1650.00	1630.34	19.66	1.19
Jammu & Kashmir	323.00	322.03	0.97	0.30
Punjab	8691.00	8617.87	73.13	0.84
Rajasthan	2197.36	2150.23	47.13	2.14
Uttar Pradesh	1428.72	1426.22	2.50	0.17
Uttaranchal	3426.14	3417.91	8.23	0.24
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Central Sector (NR)	8957.95	8928.18	29.77	0.33
Sub-Total(NR)	30335.04	30110.61	224.43	0.74
Gujarat	588.45	581.31	7.14	1.21
Madhya Pradesh	1771.34	1766.66	4.68	0.26
Chhattisgarh	276.95	276.46	0.49	0.18
Maharashtra	5535.41	5497.33	38.08	0.69
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 (WR)	0.00	0.00	0.00	0.00
Sub-Total(WR)	8172.15	8121.76	50.39	0.62
Andhra Pradesh	3469.81	3445.48	24.33	0.70
Karnataka	7248.46	7160.23	88.23	1.22
Kerala	4846.14	4821.51	24.63	0.51
Tamil Nadu	2723.38	2705.25	18.13	0.67
Lakshadweep	0.00	0.00	0.00	0.00
Pondicherry	0.00	0.00	0.00	0.00
Central Sector (SR)	0.00	0.00	0.00	0.00
Sub-Total(SR)	18287.79	18132.47	155.32	0.85
Bihar	59.43	57.34	2.09	3.52
Jharkhand	79.00	77.42	1.58	0.00
Orissa	3261.30	3198.17	63.13	1.94
West Bengal	509.90	506.45	3.45	0.68
DVC	294.19	291.12	3.07	1.04
A. & N. Islands	0.00	0.00	0.00	0.00
Sikkim	40.21	40.06	0.15	0.37
Central Sector (ER)	352.84	352.03	0.81	0.23
Sub-Total(ER)	4596.87	4522.59	74.28	1.62
Assam	0.00	0.00	0.00	0.00
Madhya Pradesh	0.00	0.00	0.00	0.00
Meghalaya	573.51	571.23	2.28	0.40
Nagaland	23.45	22.98	0.47	2.00
Tripura	52.10	51.71	0.39	0.75
Assamch Pradesh	10.00	9.80	0.20	2.00
Mizoram	6.87	6.81	0.06	0.87
Central Sector (NER)	1955.93	1925.68	30.25	1.55
Sub-Total(NER)	2621.86	2588.21	33.65	1.28
Total (All India)	64013.71	63475.64	538.07	0.84

Contd.

Table No. 5.6 (Contd.)
GROSS GENERATION, NET GENERATION AND AUXILIARY CONSUMPTION (UTILITIES ONLY) PRIME MOVERWISE/STATEWISE DURING 2002-03

Name of the State / C. T.	STEAM		Auxiliary Consumption	
	Gross Generation (GWh)	Net Generation (GWh)	Total	% of Gross Generation
Andhra Pradesh	6122.27	5473.69	648.58	10.59
Assam	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	0.00	0.00
Chhattisgarh	13650.37	12476.30	1174.07	8.60
Goa	14726.62	13340.09	1386.53	9.42
Gujarat	20948.51	18788.89	2159.62	10.31
Haryana	0.00	0.00	0.00	0.00
Himachal Pradesh	0.00	0.00	0.00	0.00
Jharkhand	1312.08	1147.86	164.22	12.52
Karnataka	43602.31	40296.17	3306.14	7.58
Sub-Total (NR)	100362.16	91523.00	8839.16	8.81
Madhya Pradesh	30522.03	27492.36	3029.67	9.93
Maharashtra	13680.86	12365.87	1314.99	9.61
Madhya Pradesh	7593.22	6858.20	735.02	9.68
Uttar Pradesh	52204.04	48038.39	4165.65	7.98
Orissa	0.00	0.00	0.00	0.00
Punjab & Chandigarh	0.00	0.00	0.00	0.00
Rajasthan	0.00	0.00	0.00	0.00
Tamil Nadu	33391.85	30622.27	2769.58	8.29
Sub-Total (WR)	137392.00	125377.09	12014.91	8.74
Andhra Pradesh	23032.10	20942.63	2089.47	9.07
Karnataka	11263.87	10223.41	940.46	8.42
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	21079.79	19268.40	1811.39	8.59
West Bengal	0.00	0.00	0.00	0.00
Andhra Pradesh	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector (SR)	36777.38	33820.54	2956.84	8.04
Sub-Total (SR)	92053.14	84254.98	7798.16	8.47
Andhra Pradesh	535.09	453.21	81.88	15.30
Chhattisgarh	3827.00	3441.00	386.00	10.00
Orissa	2621.13	2331.25	289.88	11.06
West Bengal	21468.07	19612.19	1855.88	8.64
D.V.C.	8653.07	7425.82	1227.25	14.18
Andaman & Nicobar Islands	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
Central Sector (ER)	22638.67	20722.71	1915.96	8.46
Sub-Total (ER)	59743.03	53986.18	5756.85	9.64
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
Arunchal Pradesh	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Central Sector (NER)	0.00	0.00	0.00	0.00
Sub-Total (NER)	0.00	0.00	0.00	0.00
Total (All India)	389550.33	355141.25	34409.08	8.83

Table No. 5.6 (Contd.)
**GROSS GENERATION, NET GENERATION AND AUXILIARY
 CONSUMPTION (UTILITIES ONLY) PRIME MOVERWISE/STATEWISE
 DURING 2002-03**

Name of the State/U.Ts (GWh)	DIESEL & WIND		Auxiliary Consumption	
	Gross Generation (GWh)	Net Generation (GWh)	Total	% of Gross Generation
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	25.34	25.29	0.05	0.00
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttaranchal	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 (NR)	0.00	0.00	0.00	0.00
Sub-Total(NR)	25.34	25.29	0.05	0.20
Gujarat	179.36	179.36	0.00	0.00
Madhya Pradesh	32.52	32.52	0.00	0.00
Chhattisgarh	0.00	0.00	0.00	0.00
Maharashtra	666.63	666.63	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 (WR)	0.00	0.00	0.00	0.00
Sub-Total(WR)	878.51	878.51	0.00	0.00
Andhra Pradesh	97.94	57.06	0.00	0.00
Karnataka	1318.93	726.16	11.19	0.85
Kerala	804.66	560.78	20.58	2.56
Tamil Nadu	3743.81	2618.75	64.52	1.72
Lakshadweep	20.89	20.55	0.34	1.63
Pondicherry	0.00	0.00	0.00	0.00
Central Sector (SR)	0.00	0.00	0.00	0.00
Sub-Total(SR)	5986.23	5889.60	96.63	1.61
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00
West Bengal	0.89	0.89	0.00	0.00
D.V.C.	0.00	0.00	0.00	0.00
A & N Islands	138.80	134.93	3.87	2.79
Sikkim	0.32	0.32	0.00	0.00
Central Sector (ER)	0.00	0.00	0.00	0.00
Sub-Total(ER)	140.01	136.14	3.87	2.76
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	0.20	0.10	0.10	50.00
Tezpur	2.00	1.85	0.15	7.50
Arumachal Pradesh	17.00	16.65	0.35	2.06
Mizoram	3.08	3.07	0.01	0.32
Central Sector (NER)	0.00	0.00	0.00	0.00
Sub-Total (NER)	22.28	21.67	0.61	2.74
Total (All India)	7052.37	6951.21	101.16	1.43

(Contd.)

Table No. 5.6 (Contd.)
**GROSS GENERATION, NET GENERATION AND AUXILIARY
 CONSUMPTION (UTILITIES ONLY) PRIME MOVERWISE/STATEWISE
 DURING 2002-03**

Name of the State/UT	GAS		Auxiliary Consumption	
	Gross Generation (GWh)	Net Generation (GWh)	Total	% of Gross Generation
Andhra Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Bihar	58.00	57.38	0.62	0.00
Chhattisgarh	0.00	0.00	0.00	0.00
Goa	221.74	214.36	7.38	3.33
Gujarat	0.00	0.00	0.00	0.00
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
Karnataka	2039.22	1999.84	39.38	1.93
Kerala	14943.49	14580.11	363.38	2.43
Sub-Total (NR)	17262.45	16851.69	410.76	2.38
Madhya Pradesh	5824.31	5706.34	117.97	2.03
Maharashtra	0.00	0.00	0.00	0.00
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	5043.07	4923.29	119.78	2.38
Madhya Pradesh	173.05	170.32	2.73	1.00
Madhya Pradesh	0.00	0.00	0.00	0.00
Madhya Pradesh	0.00	0.00	0.00	0.00
Madhya Pradesh	7572.87	7455.52	117.35	1.55
Sub-Total (WR)	18713.30	18355.47	357.83	1.91
Andhra Pradesh	6878.15	6757.76	120.39	1.84
Karnataka	1280.00	1254.00	26.00	2.03
Kerala	135.00	132.38	2.62	1.94
Madhya Pradesh	3274.35	3163.44	110.91	3.39
Madhya Pradesh	0.00	0.00	0.00	0.00
Madhya Pradesh	264.00	260.98	3.02	1.14
Madhya Pradesh	2118.50	2074.14	44.36	2.09
Sub-Total (SR)	13950.00	13636.70	313.30	2.25
Andhra Pradesh	0.00	0.00	0.00	0.00
Andhra Pradesh	0.00	0.00	0.00	0.00
Andhra Pradesh	0.00	0.00	0.00	0.00
Andhra Pradesh	0.19	0.19	0.00	0.00
Andhra Pradesh	8.33	7.33	1.00	12.00
Andhra Pradesh	0.00	0.00	0.00	0.00
Andhra Pradesh	0.00	0.00	0.00	0.00
Andhra Pradesh	0.00	0.00	0.00	0.00
Sub-Total (ER)	8.52	7.52	1.00	11.74
Assam	884.00	866.32	17.68	2.00
Mizoram	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	282.28	276.63	5.65	2.00
Arunachal Pradesh	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Central Sector (NER)	1586.00	1554.85	31.15	1.96
Sub-Total (NER)	2752.28	2697.80	54.48	1.98
Total (All India)	52686.55	51549.18	1137.37	2.16

(Contd.)

Table No. 5.6 (Contd.)
**GROSS GENERATION, NET GENERATION AND AUXILIARY
 CONSUMPTION (UTILITIES ONLY) PRIME MOVERWISE/STATEWISE
 DURING 2002-03**

Name of the State/U.T. (GWh)	NUCLEAR		Auxiliary Consumption	
	Gross Generation (GWh)	Net Generation (GWh)	Total	% of Gross Generation
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
Uttaranchal	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 (NR)	8800.00	7803.00	997.00	11.33
Sub-Total(NR)	8800.00	7803.00	997.00	11.33
Gujarat	0.00	0.00	0.00	0.00
Madhya Pradesh	0.00	0.00	0.00	0.00
Chhatisgarh	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 (WR)	6200.00	5600.00	600.00	9.68
Sub-Total(WR)	6200.00	5600.00	600.00	9.68
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 (SR)	4390.00	3916.00	474.00	10.80
Sub-Total(SR)	4390.00	3916.00	474.00	10.80
Bihar	0.00	0.00	0.00	0.00
Jharkhand	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 (ER)	0.00	0.00	0.00	0.00
Sub-Total(ER)	0.00	0.00	0.00	0.00
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 (NER)	0.00	0.00	0.00	0.00
Sub-Total(NER)	0.00	0.00	0.00	0.00
Total (All India)	19390.00	17319.00	2071.00	10.68

Table No. 5.7
SHARE OF PARTICIPATING STATES IN JOINTLY OWNED POWER STATIONS DURING 2002-03

Name of the Power Station	Name of the participating States	Share of the Participating States		Total capacity (MW)
		%age	I.C. (MW)	
BHAKRA BEAS MANAGEMENT BOARD				
Bhakra Nangal Complex (Hydro)*	Haryana	33.91	459.34	1354.50
	Punjab	50.87	689.00	
	Rajasthan	15.22	206.16	
Behar (Hydro)	Haryana	32.00	316.80	990.00
	Punjab	48.00	475.20	
	Rajasthan	20.00	198.00	
Bong (Hydro)	Haryana	16.60	59.76	360.00
	Punjab	24.90	89.64	
	Rajasthan	58.50	210.60	
INDRAPRASTHA EXTN. (Coal)				
	Delhi	66.67	125.00	187.50
	Haryana	33.33	62.50	
CHAMBAL PROJECTS				
Bansagar (Hydro)	Madhya Pradesh	50.00	57.50	115.00
	Rajasthan	50.00	57.50	
Bawandar (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	
SALPURA (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 & HAMPTI (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	
SARDAR SAROVAR	Gujarat	16.00	16.00	100.00
	Madhya Pradesh	57.00	57.00	
	Maharashtra	27.00	27.00	

* It comprises of capacity of Gangawal 77.25 MW, Kotla 77.25 MW, Bhakra left bank 540.00 MW & Bhakra right bank 660.00 MW
 I.C. = Installed Capacity

contd.

Table No. 5.7 (Contd.)
SHARE OF PARTICIPATING STATES IN JOINTLY OWNED POWER STATIONS DURING 2002-03

Name of the Power Station	Energy Generated		Energy offtake by States*	
	GWh	Nr		
Brakra Nangal Complex Hydro	6524.00	6511.00	Haryana	2905.00
Debra Hydro	3338.00	3245.40	Punjab SEB	4139.00
			Rajasthan	2037.00
			Jammu & Kashmir	0.00
			Himachal Pradesh	238.00
Pong Hydro	806.00	764.00	Chandigarh	505.00
			Irrigation Wing	44.00
Total (BBMB)	10668.00	10520.00	N.E.I.	105.00
			BBMB system Losses	547.00
			Total (BBMB)	10520.00
INDRAPRASTHA EXTN.				
Steam (2,3,4)	470.65	414.41	Delhi	276.29
			Haryana	138.12
CHAMBAL PROJECTS				
Gandla Sagar Hydro	38.92	38.00		
Jawahir Sagar Hydro	16.63	16.16		
Rana Pratap Sagar Hydro	9.82	9.25	Madhya Pradesh	1229.67
Total Chambal Projects	65.37	63.44	Rajasthan	830.35
Sarpna Steam	2197.08	1996.58		
Machkund Hydro	579.00	577.36	Andhra Pradesh	A 303.35
			Orissa	274.01
Ingabhadra Dam & Harpa Hydro	120.78	120.28	Andhra Pradesh	B 87.63
			Karnataka	32.67
Perdi Hydro	338.98	337.87	Madhya Pradesh	225.26
			Maharashtra	112.61

* Including losses & excluding BBMB system

Notes

BBMB - Brakra Beas Management Board

NEI - National Electricity, Nangal Dam

A - Includes Colony consumption of 7.00 GWh

B - Includes Colony consumption of 6.50 GWh

Table No. 5.8
**INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT BY
 CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS
 DURING 2002-03**

Name of the Power Station	Installed Capacity (MW)	Energy generated (GWh)		Energy Offtake by states including losses (GWh)	
		Gross	Net		
Dadrigasi	817.00	5210.97	5068.22	HVPNL	363.39
				H.P.S.E.B.	159.04
				J&K S.E.B.	455.27
				P.S.E.B.	972.56
				R. RVPNL	561.32
				UPPCL. (X)	1410.43
				Chandigarh	23.35
				DVB	564.98
				Northern Railway UPC	422.57 135.31
Tanakpur (Hydro)	120.00	415.01	418.47	HVTN	22.03
				J&K S.E.B.	25.06
				P.S.E.B.	59.12
				R. RVPNL	38.87
				UPPCL.	76.40
				DVB	43.54
				H.P.S.E.B.	13.20
				Chandigarh	6.40
				UPC (G) Nepal	60.90 72.95
Chanderi H.F.P.	540.00	2260.04	2254.20	HVTN	353.03
				H.P.S.E.B.	347.28
				J&K S.E.B.	91.51
				P.S.E.B.	232.07
				R. RVPNL	444.39
				UPPCL	452.33
				DVB	179.43
				Chandigarh	87.36
				UPC	60.80
Utr H.F.P.	480.00	2453.53	2440.43	HVTN	133.57
				H.P.E.B.	66.19
				J&K S.E.B.	838.08
				P.S.E.B.	332.76
				R. RVPNL	220.35
				UPPCL	489.92
				DVB	268.76
				Chandigarh	16.83
				UPC	73.97

contd.

Table No. 5.8 (Contd.)
**INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT
 BY CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS
 DURING 2002-03**

Name of the Power Station	Installed Capacity (MW)	Energy generated (GWh)		Energy Offtake by states including losses (GWh)	
		Gross	Net		
National Capital TPP	840.00	6037.97	5555.23	HVPN	102.09
				HPEB	2.02
				J&K SEB	13.73
				PSEB	75.87
				R RVPNI	12.92
				UPPCL (Y)	442.61
				DVB	4828.69
				Chandigarh	0.36
				BSEB	1.23
				MPSEB	60.81
UPC	14.90				
Radarpur TPS	720.00	5279.83	4798.62	Delhi (A)	4798.62
Baira Sual (Hydro)	180.00	683.19	680.33	DVB	72.97
				H.P	96.47
				Haryana	202.35
				Punjab	308.54
Singrauli (STPS)	2000.00	16164.31	15054.86	J & K PDC	334.09
				HVPNI	2031.48
				RRVPNI	2786.99
				DVB	1465.62
				U.P.P.C.I.	5311.65
				H.P.S.E.B	130.81
				Chandigarh	83.81
				P.S.E.B	1617.82
				Western Grid	643.62
				UPC	648.97
Satal (Hydro) (Sr.I+II)	690.00	3139.68	3134.75	H.P.S.E.B.	31.02
				P.S.E.B	832.56
				HVPN	471.03
				DVB	363.94
				J & K PDC	1077.12
				RVPNI	92.84
				UPPCL	218.01
				Chandigarh	10.21
UPC	38.02				

contd.

Table No. 5.8 (Contd.)
**INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT
 BY CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS
 DURING 2002-03**

Name of the Power Station	Installed Capacity (MW)	Energy generated (GWh)		Energy Offtake by states including losses (GWh)	
		Gross	Net		
Inland (STPS)	1000.00	7752.00	7129.26	H.V.P.N.	853.51
				H.P.S.E.B.	307.99
				J.&K.	682.74
				P.S.E.B.	907.87
				R.V.P.N.L.	995.92
				U.P.P.C.L. (E)	2134.92
				D.V.B.	932.52
				Chandigarh	90.69
				U.P.C.	223.10
R.A.P.P.(Nuclear)	740.00	5200.00	4580.00	H.V.P.N.	408.00
				H.P.S.E.B.	28.00
				J.&K.	619.00
				P.S.E.B.	101.00
				R.R.V.P.N.L. (F)	3140.00
				U.P.P.C.L.	71.00
				D.V.B.	200.00
				Chandigarh	7.00
				U.P.C.	6.00
Unchahar (Steam)	840.00	6149.00	5846.00	H.V.P.N.	651.37
				H.P.S.E.B.	161.51
				J.&K.S.E.B.	520.49
				P.S.E.B.	815.29
				R.V.P.N.L.	641.32
				U.P.P.C.L. (S)	2246.50
				D.V.B.	558.83
				Chandigarh	25.16
				U.P.C.	225.24
Anta (Gas)	413.00	2758.25	2679.10	H.V.P.N.	273.28
				H.P.S.E.B.	116.16
				J.&K.S.E.B.	260.97
				P.S.E.B.	356.93
				R.V.P.N.L.	676.13
				U.P.P.C.L.	493.76
				D.V.B.	343.00
				Chandigarh	37.76
				U.P.C.	121.11

Contd.

Table No. 5.8 (Contd.)
**INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT
 BY CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS
 DURING 2002-03**

Name of the Power Station	Installed Capacity (MW)	Energy generated (GWh)		Energy Offtake by states including losses (GWh)	
		Gross	Net		
Auraya (Gas)	652.00	4272.00	4187.44	H.V.P.N.	461.96
				H.P.S.F.B.	160.92
				J.&K.S.F.B.	402.01
				P.S.F.B.	685.23
				R.V.P.N.I.	549.72
				U.P.P.C.I. (T)	1143.47
				D.V.B.	546.18
				Chandigarh	34.05
				U.P.C.	127.61
				B.S.F.B.	0.48
				M.P.E.B.	33.37
RAILWAYS	42.44				
N.A.P.P. (Nuclear)	440.00	3600.00	3223.00	H.V.P.N.	423.00
				H.P.S.F.B.	127.00
				J.&K.S.F.B.	427.00
				P.S.F.B.	363.00
				R.V.P.N.I.	684.00
				U.P.P.C.I.	792.00
				D.V.B.	311.00
				Chandigarh	33.00
				U.P.C.	63.00
T.A.P.P. (Nuclear)	420.00	2500.00	2300.00	G.F.B.	1150.00
				M.S.F.B.	1150.00
Kakrapar (Nuclear)	340.00	3700.00	3300.00	G.F.B.	1005.00
				C.S.F.B.	290.00
				M.S.F.B.	1792.00
				Daman & Diu	70.00
				Dadra & Nagar	121.00
				GOA	23.00

contd.

Table No. 5.8 (Contd.)

**INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT
BY CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS
DURING 2002-03**

Name of the Project/Station	Installed Capacity (MW)	Energy generated (GWh)		Energy Offtake by states including losses (GWh)	
		Gross	Net		
Sardar Sarbajit (GT&CCST)	648.00	3369.67	3295.37	GFB	1222.70
				M.P.E.B.	741.49
				MSEB	1096.26
				D & Nagar Havch	88.78
				DAMAN & DIU	62.61
				CSEB	52.28
				GOA	31.25
Sankulam	350.00	2118.50	2074.14	KSEB	1857.80
				TNER	216.34
Sardar Sarbajit	440.00	2219.20	1912.08	UTPCL	1912.08
				H.V.P.N.	2645.35
Sardar Sarbajit (CCGT)	430.00	2702.27	2645.35	A.P. TRANSCO	228.00
				KPTCL	852.00
Sardar Sarbajit (APP)	440.00	3317.00	3020.00	KSEB	377.00
				TNER	1463.00
				Pondicherry	105.00
Sardar Sarbajit (S.T.P.S. & Kavas Gas)	5004.00	37595.05	34782.42	M.P.E.B.	8434.81
				M.S.E.B.	11913.81
				G.E.B. (H)	8091.23
				CSEB (H)	3071.22
				Goa	1752.28
				D & N Havch	1294.17
				Daman & Diu	832.99
				H.V.P.N.	3.62
				H.P.S.E.B.	1.46
				J & K PDC	5.02
				P.S.E.B.	5.55
				R.S.E.B.	4.37
				UPPCL	10.00
				DVR	3.95
				Chandigarh	0.28
				UPC	1.28
Ramagundam S.T.P.S.	2100.00	16836.71	15703.10	A.P. TRANSCO	4041.09
				K.P.T.C.I.	3677.83
				K.S.E.B.	2195.44
				T.N.E.B.	449.18
				Goa (WR)	653.40
				Pondicherry	686.16

contd.

Table No. 5.8 (Contd.)
**INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT
 BY CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS
 DURING 2002-03**

Name of the Power Station	Installed Capacity (MW)	Energy generated, (GWh)		Energy Offtake by states including losses (GWh)	
		Gross	Net		
Saveli-I (Steam)	600.00	4378.52	3871.83	Tamil Nadu (T)	3871.83
Saveli-II (Steam)	1470.00	10503.03	9488.18	A.P. TRANSCO K.P.T.C.L. K.S.E.B. Tamil Nadu (T) Pondicherry	2035.60 2271.69 1238.99 3435.83 506.07
Calpakkam (Nuclear)	340.00	1073.00	896.00	A.P. TRANSCO K.P.T.C.L. K.S.E.B. Tamil Nadu (M) Pondicherry	163.00 159.00 93.00 452.00 29.00
A.P. Gas Power Corpn.	99.00	715.03	700.78	Andhra Pradesh (N)	700.78
Saveli-I (SI) Espo	210.00	86.87	86.20	K.S.E.B. Tamil Nadu	16.07 70.13
Sone East&West Canal	9.00	27.00	26.46	B.S.E.B.	26.46
Excoadak Canal	15.00	24.00	23.52	BSEB	23.52
Tenghata/Barkhanda	420.00	1369.00	1259.48	ISEB	1259.48
UB Valley, O.P.G.C.	420.00	2621.13	2331.25	GRIDCO	2331.25
NTPC's Stations in Eastern Region	4410.00	22638.67	20979.68	BSEB (V) GRIDCO WBSEB KSEB DVC GER A.P. TRANSCO ASFB/NER MPB/WR K.P.T.C.L. UPPCL TNEB/SR Pondicherry HPSB RRVTNI HVTNI I&K/PDC Chandigarh INB Sikkim	4954.10 5611.02 531.88 747.80 429.00 365.50 1156.50 846.50 2152.50 1556.70 342.00 1074.20 86.70 95.60 94.00 63.20 95.30 98.10 646.86 32.72

contd.

Table No. 5.8 (Contd.)
**INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT
 BY CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS
 DURING 2002-03**

Name of the Power Station	Installed Capacity (MW)	Energy generated (GWh)		Energy Offtake by states including losses (GWh)	
		Gross	Net		
Chokali (P.C.L.)	32.50	264.00	249.82	TNEB	0.00
				Ponicherry	249.82
Chhadu	1000.00	4972.25	4671.25	APTRANSCO	4671.25
Chungapur Projects Ltd.	395.00	1359.01	1208.69	W.P.S.E.B. (Q)	1208.69
CRPDC	1890.00	13535.00	12452.20	West Bengal	11337.50
				HV TNL	303.80
				Delhi	523.20
				MPSEB	220.80
				MSSEB	36.40
				KPCL	2.90
				KSEB	52.60
D.V.C. (a)	2871.50	8955.58	7724.26	GRIDCO	510.96
			(a) (a)	Jharkhand (P)	5665.88
				West Bengal (Q)	3145.90
				NTPC	74.05
Ringar	60.00	352.84	352.03	BSEB	99.01
				WBSL&B	127.47
				Sikkim	45.23
				D.V.C.	58.69
				ISEB	21.71

contd.

Table No. 5.8 (Contd.)

**INSTALLED CAPACITY, ENERGY GENERATED, ENERGY SENT OUT
BY CENTRAL GOVT. PROJECTS, DVC & STATE GOVT. PROJECTS
DURING 2002-03**

Name of the Power Station	Installed Capacity (MW)	Energy generated (GWh)		Energy Outtake by states including losses (GWh)	
		Gross	Net		
NEEPCO	1105.00	2990.00	2930.77	Assam	1302.23
				Manipur	314.50
				Meghalaya	319.16
				Nagaland	229.55
				Tripura	265.63
				Mizoram	194.71
				Arunachal Pradesh	74.98
				WRSEB	229.95
Loktak (Hydro)	105.00	551.93	549.76	Assam S.E.B.	145.44
				Manipur	176.71
				Nagaland	39.61
				Tripura	78.67
				Arunachal Pradesh	28.31
				Mizoram	36.06
				Meghalaya	44.96

Table No. 5.9
**STATEMENT SHOWING INTERSTATE TRANSFER OF ENERGY
 STATEWISE DURING 2002-03.**

<i>Name of the supplier</i>	<i>Name of the Purchaser</i>	<i>Energy Transferred (GWh)</i>
NORTHERN REGION		
Himachal Pradesh S.E.B.	Haryana V.P.N.	141.30
Himachal Pradesh S.E.B.	D.V.B.	627.40
Himachal Pradesh S.E.B.	Punjab S.E.B.	172.28
J&K S.E.B.	Punjab S.E.B.	194.80
Punjab S.E.B.	Himachal Pradesh S.E.B.	221.79
Punjab S.E.B.	Haryana V.P.N.	4.80
Punjab S.E.B.	J&K S.E.B.	237.94
Punjab S.E.B.	RRVPNL	34.20
Punjab S.E.B.	UPPCL	12.10
Punjab S.E.B.	Uttaranchal P.C.	32.90
UPPCL	D.V.B.	34.80
UPPCL	Himachal Pradesh S.E.B.	82.10
Uttaranchal P.C.	Haryana V.P.N.	31.00
Uttaranchal P.C.	D.V.B.	775.00
Uttaranchal P.C.	Himachal Pradesh S.E.B.	384.60
Uttaranchal P.C.	Punjab S.E.B.	205.95
Uttaranchal P.C.	RRVPNL	18.00
Uttaranchal P.C.	UPPCL	19.20
D.V.B.	Haryana V.P.N.	138.20
WESTERN REGION		
Chhattisgarh S.E.B.	G.F.B.	616.46
M.P.E.B.	Maharashtra S.E.B.	1.41
Goa	G.F.B.	299.95
Goa	M.P.E.B.	72.10
Goa	Maharashtra S.E.B.	70.50
SOUTHERN REGION		
A.P.TRANS.CO.	Tamil Nadu S.E.B.	107.29
Tamil Nadu S.E.B.	Pondicherry	262.20
Kerala S.E.B.	K.P.T.C.L.	0.33
Kerala S.E.B.	Tamil Nadu S.E.B.	114.94
Kerala S.E.B.	Pondicherry	25.25
EASTERN REGION		
Jharkhand S.E.B.	Damodar Valley Corpn	153.55
GRIDCO	Damodar Valley Corpn	2.51
West Bengal S.E.B.	Sikkim	77.14

contd

Table No. 5.9 (Contd.)
**STATEMENT SHOWING INTERSTATE TRANSFER OF ENERGY
 STATEWISE DURING 2002-03.**

<i>Name of the supplier</i>	<i>Name of the Purchaser</i>	<i>Energy Transferred (GWh)</i>	
EASTERN REGION (Contd.)			
West Bengal S.E.B.	Damodar Valley Corpn.	471.31	
Damodar Valley Corpn.	GRIDCO	510.96	
Damodar Valley Corpn.	Jharkhand	2281.11	
Damodar Valley Corpn.	West Bengal S.E.B. & DPL	1042.68	
Damodar Valley Corpn.	Lacuneses in West Bengal	630.84	
Durgapur Project Limited..	West Bengal S.E.B.	335.95	
Damodar Valley Corpn.	N.T.P.C.	74.05	
NORTH EASTERN REGION			
Meghalaya S.E.B.	Assam S.E.B.	17.36	
Tripura	Mizoram	37.44	
INTER-REGIONAL TRANSFER OF ENERGY			
NORTHERN REGION		WESTERN REGION	
PSEB		M.P.S.E.B.	16.90
RRVPL		M.P.S.E.B.	747.73
UPPCL		M.P.S.E.B.	23.48
UPC		M.P.S.E.B.	15.84
UPC		Maharashtra S.E.B.	9.74
DVB		M.P.S.E.B.	133.10
DVB		Maharashtra S.E.B.	177.70
WESTERN REGION		NORTHERN REGION	
M.P.S.E.B.		RRVPL	8.90
C.S.E.B.		DVB	1.19
Goa		PSEB	33.20
WESTERN REGION		SOUTHERN REGION	
C.S.E.B.		A.P.TRANSCO	1.82
C.S.E.B.		KPTCL	16.47
M.P.S.E.B.		A.P.TRANSCO	18.95
Maharashtra S.E.B.		A.P.TRANSCO	6.50
Maharashtra S.E.B.		KPTCL	5.90
Maharashtra S.E.B.		Tamil Nadu E.B.	7.10
Maharashtra S.E.B.		Kerala SFB	3.20
Goa		KPTCL	56.40
		<i>cont.</i>	

Table No. 5.9 (Contd.)
**STATEMENT SHOWING INTERSTATE TRANSFER OF ENERGY
 STATEWISE DURING 2002-03.**

<i>Name of the supplier</i>	<i>Name of the Purchaser</i>	<i>Energy Transferred (GWh)</i>
SOUTHERN REGION	WESTERN REGION	
A.P. TRANSCO	M.P.S.E.B.	1.82
KPTCL	Goa	465.00
SOUTHERN REGION	EASTERN REGION	
A.P. TRANSCO	GRIDCO	100.80
EASTERN REGION	NORTHERN REGION	
WBPDCL	D.V.B.	523.20
WBPDCL	H.V.P.N.L.	303.80
EASTERN REGION	WESTERN REGION	
WBPDCL	M.P.S.E.B.	220.80
WBPDCL	M.S.E.B.	36.40
EASTERN REGION	SOUTHERN REGION	
GRIDCO	A.P. TRANSCO	41.66
WBPDCL	KPTCL	2.90
WBPDCL	KSEB	32.60
OUT SIDE THE COUNTRY		
EXPORT		
Bihar S.E.B.	Nepal	102.03
Tanakpur CGP	Nepal	72.95
Sub-Total		174.98
IMPORT		
Bhutan	D.V.C.	272.34
Bhutan	Bihar S.E.B.	424.67
Bhutan	West Bengal S.E.B.	586.79
Bhutan	Sikkim	16.82
Bhutan	GRIDCO	232.44
Bhutan	Jharkhand S.E.B.	26.52
Sub-Total		1519.58

- 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.

Haryana V.P.N. - Haryana Vidyut Prasaran Nigam.
 GRIDCO - Grid Power Corporation of Orissa Ltd.
 A.P. TRANSCO - Transmission Corp. of AP Limited
 C.G.P. - Central Government Project
 KPTCL - Karnataka Power Transmission Corpn. Ltd.
 D.V.B. - Durgam Chhaya Vidhyut Prasaran Nigam
 M.P.S.E.B. - Madhya Pradesh Power Corpn. Ltd.
 M.S.E.B. - Madhya Pradesh State Electricity Board
 U.P.C. - Uttaranchal Power Corpn.
 CSEB - Chhattisgarh State Electricity Board
 JSEB - Jharkhand State Electricity Board

Table No. 5.9 (Contd.)

**STATEMENT SHOWING INTERSTATE TRANSFER OF ENERGY
STATEWISE DURING 2002-03.**

Note:

(@)	DVC is owned by three partners viz Central, Bihar and West Bengal Governments.
(@/@)	Net generation does not tally with the total energy offtake by States as it includes energy purchased
(IGCAR)	Indira Gandhi Centre for Atomic Research.
(GRIDCO)	GRIDCO - Grid Power Corp. of Orissa Ltd.
(BHPC)	BHPC - Bihar Hydro Power Corp. Ltd.
(PPCL)	Pondicherry Power Corporation Ltd.
(A)	Includes 15.00 GWh of colony consumption
(B)	Includes colony consumption of 15.00 GWh
(F)	Includes heavy water plant consumption of 80.00 GWh
(G)	Includes colony consumption of 1.55 GWh
(H)	Includes colony consumption of 5.00 GWh
(I)	Includes colony consumption of 70.00 GWh
(J)	Includes energy consumed by Neyveli Lignite Corporation within works of 262.00GWh.
(K)	Includes colony consumption of 20.00 GWh
(L)	Includes 572.72 GWh energy used at Neyveli Mines
(M)	Includes 50.00 GWh energy used for I.G.C.A.R.
(N)	Includes energy sold to industrial units of 250.00 GWh
(O)	Includes energy sales to direct consumers of 811.38 GWh
(P)	Includes 3384.77 GWh energy direct sales by DVC to ultimate consumers in Jharkhand area.
(Q)	Includes 1472.38 GWh energy direct sales by DVC to ultimate consumers in West Bengal area.
(R)	Includes colony consumption of 15.00 GWh
(S)	Includes colony consumption of 10.00 GWh
(T)	Includes colony consumption of 5.00 GWh
(V)	Includes colony & Construction of 9.00 GWh
(X)	Includes colony consumption of 11.26 GWh
(Y)	Includes colony consumption of 15.00 GWh

Section - 6
Operating Data
(Utilities)

SECTION - 6

OPERATING DATA (UTILITIES)

The coal consumption by various steam stations in the country during the year 2002-03 was 271.09 million tonnes as compared to 252.63 million metric tonnes during the previous year. Consumption of Lignite and Diesel oil increased. The consumption of FO & LSFO decreased. The specific coal consumption in 2002-03 was 0.7 kg/per unit of electricity generated.

Out of 106 coal fired steam turbine power stations, 18 power stations having aggregate operating capacity of 7,928 MW reported an overall thermal efficiency of less than 25% during 2002-03. The group of stations produced 22248 GWh i.e. 6% of the total energy produced by the steam turbine power stations.

36 power stations with an aggregate installed capacity of 19,868 MW reported an overall thermal efficiency ranging between 25% to 30% and generated 84,925 GWh, i.e. 22% of total energy generation from steam turbine prime mover power plants in the country during 2002-03.

52 Power Station/s with an aggregate installed capacity of 38,454 MW had an overall thermal efficiency above 30% and produced 282377 GWh representing 72% of total energy produced by steam turbine prime mover plants during 2002-03.

The highest plant load factor was 90.5% in Central Sector Thermal Power Stations in Andhra Pradesh which indicates highest standard of plant maintenance and operational efficiency where as lowest plant factor was 11.4% in State Sector Thermal Power Station in Bihar which indicates as percentages of actual capacity of production hours in the years. All India Plant Load factor of Central Sector of Thermal & Nuclear power stations were 77.1% and 79.3% respectively and also the all India plant load factor of states and private sector of Thermal power stations were 68.7% & 78.9% respectively.

Table No. 6.1
**CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY
 GENERATION FOR THERMAL STATIONS (BY KIND OF FUELS) DUR-
 ING 2002-03**

State/UTs	STEAM STATIONS						Gross Generation (GWh)
	Coal (000MT)	Petrol (000KL)	Lignite/Peat (00,000MT)	LSR/SBS (AJ)	Gas (MT)	Lignite (000MT)	
Haryana	4598	0	1367	17633	0	0	6122.3
Himachal Pradesh	0	0	0	0	0	0	0
Jammu & Kashmir	0	0	0	0	0	0	0
Punjab	9001	0	3232	11686	0	0	13650.4
Arunachal Pradesh	8535	9118	1321	0	0	0	13726.6
Uttar Pradesh	16286	32650	47009	0	0	0	20948.5
Uttarakhand	0	0	0	0	0	0	0
Chandigarh	0	0	0	0	0	0	0
Delhi	1202	0	7282	3442	0	0	1312.1
Central Sector (NR)	28972	15898	0	0	0	0	43602.3
Sub Total (NR)	68594	57666	60211	32761	0	0	100362.2
Gujarat	19298	3111	12996	435312	0	19311	30522
Madhya Pradesh	11798	33518	8322	0	0	0	13680.9
Chhattisgarh	6097	6725	0	0	0	0	7593
Maharashtra	32067	74317	25065	1571034	204166	0	52204
Goa	0	0	0	0	0	0	0
D. & N. Haveli	0	0	0	0	0	0	0
Daman & Diu	0	0	0	0	0	0	0
Central Sector (WR)	22090	18115	0	0	0	0	33391.9
Sub Total (WR)	91350	135786	46383	2006346	204166	19311	137392
Andhra Pradesh	16659	12308	1465	0	0	0	23032.1
Karnataka	7890	6495	174	0	0	0	11163.9
Kerala	0	0	0	0	0	0	0
Tamil Nadu	19409	42465	6768	0	0	0	21079.8
Lakshadweep	0	0	0	0	0	0	0
Pondicherry	0	0	0	0	0	0	0
Central Sector (SR)	22039	54646	0	6093	0	17738	36690.5
Sub Total (SR)	65997	115914	8407	6093	0	17738	92053.1
Bihar	556	11825	4000	0	0	0	535.1
Jharkhand	3023	0	7586	0	0	0	9
Orissa	2228	4385	0	0	0	0	2621.1
West Bengal	14049	11438	14210	0	0	0	21468.1
D.A.C.	6814	0	72812	0	0	0	8653.1
A & N. Islands	0	0	0	0	0	0	0
Sikkim	0	0	0	0	0	0	0
Central Sector (ER)	18476	24862	0	0	0	0	22638.7
Sub Total (ER)	45146	52510	98608	0	0	0	59743.1
Assam	0	0	0	0	0	0	0
Mizoram	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	0
Nagaland	0	0	0	0	0	0	0
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
Central Sector (NER)	0	0	0	0	0	0	0
Sub Total (NER)	0	0	0	0	0	0	0
Total (All India)	271087	361876	213609	2045200	204166	37049	389550.4

contd.

Table No. 6.1 (Contd.)
**CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY
 GENERATION FOR THERMAL STATIONS (BY KIND OF FUELS)
 DURING 2002-03**

State/U.Ts.	GAS STATIONS				DIESEL STATIONS	
	Natural Gas (M.Cu.Mts.)	H.S.D. (Kilo Ltrs.)	Naphtha (Kilo Ltrs.)	Generation (GWh)	Diesel Oil (Kilo Ltrs.)	Generation (GWh)
Jaryana	0	0	0	0	0	0
Jharkhand	0	0	0	0	0	0
Jammu & Kashmir	0	12726	0	58	0	0
Jhansi	0	0	0	0	0	0
Jharkhand	49	287	0	221.7	0	0
Jharkhand	0	0	0	0	0	0
Jharkhand	0	0	0	0	0	0
Jharkhand	0	0	0	0	0	0
Jharkhand	61.7	0	0	2039.2	0	0
Central Sector (NR)	328.7	388244	0	14943.5	0	0
Sub Total (NR)	3953	401257	0	17262.4	0	0
Jharkhand	851	759	426280	5824.3	0	0
Madhya Pradesh	0	0	0	0	0	0
Chhattisgarh	0	0	0	0	0	0
Maharashtra	939	0	0	5043.1	0	0
Goa	49	0	0	273.1	0	0
D. & N. Haveli	0	0	0	0	0	0
Daman & Diu	0	0	0	0	0	0
Central Sector (WR)	1666	696250	0	7572.9	0	0
Sub Total (WR)	3505	697009	426280	18713.4	0	0
Andhra Pradesh	1316	0	0	6878.2	700	2
Karnataka	281	0	0	1280	129472	1134
Kerala	1440	0	0	135	196138	802.2
Tamil Nadu	30	274729	116125	3274.4	532400	2420.3
Lakshadweep	0	0	0	0	7228	20.9
Pondicherry	63	0	0	264	0	0
Central Sector (SR)	0	393	369371	2118.5	0	0
Sub Total (SR)	3130	275122	485496	13950.1	865938	4379.4
Bihar	0	0	0	0	0	0
Jharkhand	0	0	0	0	0	0
Orissa	0	0	0	0	0	0
West Bengal	0	163	0	0.2	85	0.6
D.V.C.	0	3260	0	8.3	0	0
A & N. Islands	0	0	0	0	14720	138.8
Sikkim	0	0	0	0	42	0.3
Central Sector (ER)	0	0	0	0	0	0
Sub Total (ER)	0	3423	0	8.5	14847	139.7
Assam	340	0	0	884	0	0
Manipur	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0
Nagaland	0	0	0	0	14	0.1
Tripura	23	0	0	282.3	700	2
Arunachal Pradesh	0	0	0	0	3156	17
Mizoram	0	0	0	0	1078	3.1
Central Sector (NER)	567	0	0	1586	0	0
Sub Total (NER)	930	0	0	2752.3	4948	22.2
Total (All India)	11518	1376811	911776	52686.6	885733	4541.3

Table No. 6.2
**CLASSIFICATION OF STEAM STATIONS - EFFICIENCYWISE
 DURING 2002-03**

<i>Thermal Efficiency</i>	<i>No. of Generating Stations</i>	<i>Installed Capacity (MW)</i>	<i>Energy Generated (GWh)</i>
Above 15% & Up to 20%	7	2164.0	3868.0
Above 20% & Up to 25%	11	5764.0	18380.0
Above 25% & Up to 30%	36	19568.0	84925.0
Above 30%	52	36454.0	282377.0
Total	106	63950.0	389550.0

Notes:- 1. The above classification includes Lignite & units below 20 MW.
 2. There is no power stations having efficiency below 15%.

Table No. 6.3
**SALIENT OPERATING DATA FOR STEAM POWER STATIONS
 (UTILITIES) DURING 2002-03**

No.	Item	Coal	Lignite	Furnace Oil	Diesel	LSHS & IHS
	Total Consumption Stations. (Million Metric Tonnes)	271.0	37.0	361876.0 (K.Ltrs.)	213609.0 (K.Ltrs.)	2045200.0 (K.Ltrs.)
	Average calorific value K.Cal./Kg.	4171	2686	10726.0	9760.0	10524.0
3	Specific Coal Consumption Kg./Kwh	0.7	1.8	N.A.	N.A.	N.A.

Table No. 6.4
**ACTUAL SIMULTANEOUS PEAK DEMAND REGIONWISE
 DURING 2002-03**

<i>Region</i>	<i>Month in which demand was (Maximum)</i>	<i>Actual Peak Demand (MW) simultaneous</i>	<i>Peak Demand in March, 2003 (MW)</i>
Northern	July, 2002	24092	20522
Western	October, 2002	24319	22954
Southern	December, 2002	20428	20392
Eastern	October, 2002	8050	7676
North Eastern	November, 2002	1178	1141
All India	December, 2002	74993 *	72683*

(1) Annual Reports of Regional Electricity Boards.

(*) This is non-coincident aggregate of simultaneous Peak demand of various regions in the country.

Table No. 6.5
MANPOWER ENGAGED IN STATE ELECTRICITY BOARDS, DVC &
POWER CORPORATIONS AS ON 31.3.2003. (AS REPORTED)

Name of the Board/ Undertaking	REGULAR					
	Managerial and higher executive	Technical & Scientific Officers	Technical Supervi sory Staff	Technicians & Operating Staff	Non- Technical	Total (Regular)
	1	2	3	4	5	6
NORTHERN REGION						
Uttar Pradesh (HVPN, HPGC)	12	652	5259	4706	3911	14540
Uttar Pradesh & K	N.A.	N.A.	N.A.	48	N.A.	48
Punjab	3085	0	82052	N.A.	N.A.	85137
Rajasthan	10	1150	1145	9940	7183	19428
NRVUNL JUVN. VVNL						
Uttar Pradesh	4639	4639	6012	75628	46363	137281
Uttaranchal						
Delhi (DTL)	6	222	308	972	525	2033
WESTERN REGION						
Gujarat	18	2695	2660	28660	16654	50687
Madhya Pradesh	50	3591	3479	44889	22650	74659
Maharashtra	48	1024	8491	66621	22110	98294
Chhattisgarh	19	908	874	10218	5018	17037
SOUTHERN REGION						
Andhra Pradesh (APPGC, APTRA)	40	2035	3906	40009	16070	62060
Karnataka	35	821	832	44889	1445	48022
Kerala	12	3117	2451		66621	1426
Tamil Nadu	38	8682	7353	46754	24666	87493
EASTERN REGION						
Bihar & Jharkhand	37	3042	609	17239	229	21156
Orissa (GCOL, OPGC)	12	852	190	3098	1875	6027
West Bengal	8	1803	9476	3211	294	14792
D.V.C.	25	1199	742	3177	6954	12097
NORTH EASTERN REGION						
Assam	11	902	1203	9748	6332	18196
Meghalaya	73	0	192	911	2626	3802

1- N.A.: Information not available.

Table No. 6.5 (Contd.)
**MANPOWER ENGAGED IN STATE ELECTRICITY BOARDS, DVC &
 POWER CORPORATIONS AS ON 31.3.2003. (AS REPORTED)**

Name of the Board/ Undertaking	NON - REGULAR				Total Regular & Non-Regular (7+11)
	Technical Trainees and Apprentices	Worked Charges Staff	Casual	Total Non- Regular (8+9+10)	
	8	9	10	11	12
NORTHERN REGION					
Haryana	8	40	0	48	14588
Himachal Pradesh	5	4485	967	5457	29722
J&K	14	N.A.	N.A.	14	62
Punjab	1476	9264	36	10776	95913
Rajasthan Rewari, Jvni, Avunli	0	0	0	0	19428
Uttar Pradesh & Uttaranchal	N.A.	35277	N.A.	35277	172558
D.V.B.	N.A.	N.A.	N.A.	N.A.	2033
WESTERN REGION					
Gujarat	N.A.	N.A.	N.A.	N.A.	50687
Madhya Pradesh	N.A.	N.A.	N.A.	N.A.	74659
Maharashtra	N.A.	N.A.	N.A.	7554	105848
Chattisgarh	532	40	0	572	17609
SOUTHERN REGION					
Andhra Pradesh	6927	74	N.A.	7001	69052
Karnataka	158	N.A.	N.A.	158	7206
Kerala	N.A.	N.A.	N.A.	N.A.	N.A.
Tamil Nadu	N.A.	N.A.	N.A.	0	87493
EASTERN REGION					
Bihar & Jharkhand	N.A.	N.A.	N.A.	10191	31347
Orissa	54	18	4	76	6103
West Bengal	N.A.	21107	N.A.	21107	35899
D.V.C.	N.A.	N.A.	N.A.	0	12097
NORTHEASTERN REGION					
Assam	N.A.	N.A.	N.A.	N.A.	18196
Meghalaya	N.A.	N.A.	N.A.	N.A.	3802

1- N.A.: Information not available.

Table No. 6.6
**PLANT LOAD FACTOR OF THERMAL/NUCLEAR
 POWER STATIONS DURING 2002-03**

State/U.T.	Central Sector		State Sector	Private Sector
	Thermal	Nuclear	Thermal	Thermal
NORTHERN REGION				
Jaryana	0.0	0.0	66.5	0.0
Himachal Pradesh	0.0	0.0	0.0	0.0
Jammu & Kashmir	0.0	0.0	0.0	0.0
Punjab	0.0	0.0	73.5	0.0
Rajasthan	0.0	72.9	88.4	0.0
Uttar Pradesh	85.5	93.3	61.1	0.0
Uttaranchal	0.0	0.0	0.0	0.0
Chandigarh	0.0	0.0	0.0	0.0
Delhi	85.6	0.0	43.5	0.0
WESTERN REGION				
Gujarat	0.0	94.9	71.8	86.7
Madhya Pradesh	85.5	0.0	73.1	0.0
Chhattisgarh	89.5	0.0	69.9	0.0
Maharashtra	0.0	90.8	72.0	81.9
Goa	0.0	0.0	0.0	0.0
D. & N. Haveli	0.0	0.0	0.0	0.0
Daman & Diu	0.0	0.0	0.0	0.0
SOUTHERN REGION				
Andhra Pradesh	90.5	0.0	89.4	0.0
Karnataka	0.0	86.1	90.4	0.0
Kerala	0.0	0.0	0.0	0.0
Tamil Nadu	82.3	36.0	81.0	0.0
Lakshadweep	0.0	0.0	0.0	0.0
Pondicherry	0.0	0.0	0.0	0.0
EASTERN REGION				
Bihar	67.9	0.0	11.4	0.0
Jharkhand	0.0	0.0	24.9	0.0
Orissa	67.9	0.0	71.0	0.0
West Bengal	63.9	0.0	53.5	71.0
D.V.C.	39.0	0.0	0.0	0.0
A. & N. Islands	0.0	0.0	0.0	0.0
Sikkim	0.0	0.0	0.0	0.0
NORTH EASTEN REGION				
Assam	0.0	0.0	14.8	0.0
Manipur	0.0	0.0	0.0	0.0
Meghalaya	0.0	0.0	0.0	0.0
Nagaland	0.0	0.0	0.0	0.0
Tripura	0.0	0.0	0.0	0.0
Arunachal Pradesh	0.0	0.0	0.0	0.0
Mizoram	0.0	0.0	0.0	0.0
Total (All India)	77.1	79.3	68.7	78.9

NB PLF is not calculate for Gas/liquid fuel based stations.

Section – 7
Transmission
and
Distribution

SECTION -7**TRANSMISSION AND DISTRIBUTION****C. Transmission and 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 lines have been introduced by all the SEBs, Power, transmission and distribution utilities including Central Sector.

The standard voltage of operation on the distribution side are 33 KV, 22 KV, 11KV, 400/230 Volts besides 6.6 KV, 3.3 KV and 2.2 KV. The low voltage system has 3 phase 4 wires supply giving 400/420 volts between 2 phases and 220/240 volts between phase and neutral. This has been universally adopted throughout the country.

The following table depicts the length of lines operating at various voltages as on 31.3.2003 with percentage increase over previous year.

Voltages	Length of Lines (Ckt.Kms.)		
	31.3.03	31.3.02	% Increase
HVDC	7400	4104	80.31
400 KV	51785	40887	26.65
230/220 KV	99779	97238	2.61
132/110/90 KV	120958	118180	2.35
78/66 KV	43202	43849	- 1.48
33/22 KV	302981	288226	5.12
15/11 KV	1936689	1753331	10.46
6.6/3.3/2.2 KV	4558	4737	- 3.78
Distribution lines			
Upto 500 volts	3985909	3679596	8.32
Total (All India)	6553261	6030148	8.67

The State of Andhra Pradesh has the largest Transmission and Distribution network of 1005599 Ckt. Kms in the country. Apart from Maharashtra the States of Haryana, Punjab, Rajasthan, Uttar Pradesh, Gujarat, Madhya Pradesh, Chhattisgarh, Karnataka, Kerala, Tamil Nadu, Bihar, Orissa and West Bengal have more than 1 Lakh Ckt. Kms. of T&D lines.

II. Transformers

The total number of step up transformers installed at various generating stations and sub stations in the country as on 31st March, 2003 were 2009 having aggregate capacity of 1,17,862.6 MVA. The number and capacity of step down and distribution transformers as on the same date were 29,624 and 23,64,709 numbers with aggregate capacity of 4,10,287.6 MVA and 1,96,685.9 MVA respectively.

Table No. 7.1
LENGTH OF TRANSMISSION AND DISTRIBUTION LINES STATEWISE
- AS ON 31ST MARCH, 2003.

(Ckt. Kms.)

Name of the State / U.T.	HVDC (O.H.)	400KV (O.H.)	230KV (O.H.)	220KV (O.H.)	132KV (O.H.)	110/90KV (O.H.)
Jarvaia	0	0	0	1586	2225	0
Arnachal Pradesh	0	0	0	393	1304	0
Jammu & Kashmir	0	0	0	224	659	0
Punjab	0	581	0	6927	3035	0
Rajasthan	0	287	0	7095	10949	0
Uttar Pradesh	409	3555	0	6144	10734	0
Uttaranchal	0	99	0	526	996	0
Chandigarh	0	0	0	54	0	0
Dellii	0	122	0	454	0	0
Central Sector (NR)	2193	8094	0	4171	0	0
Sub-Total (NR)	2602	12738	0	27574	29902	0
Gujarat	0	1764	0	10393	4587	0
Madhya Pradesh	0	1706	0	6496	9342	0
Chhattisgarh	360	277	0	1603	3129	0
Maharashtra	1504	6231	0	11255	9190	3064
Goa	0	0	0	42	0	198
Daman & Diu	0	0	0	19	0	0
D&N Haveli	0	0	0	0	0	0
Central Sector (WR)	0	8923	0	1012	0	0
Sub-Total (WR)	1864	18901	0	30820	26248	3262
Andhra Pradesh	196	2033	0	11863	14243	0
Karnataka	0	1976	0	7740	0	6276
Kerala	0	0	0	2583	0	3633
Tamil Nadu	0	0	6348	0	0	12089
Lakshadweep	0	0	0	0	0	0
Pondicherry	0	0	134	0	36	206
Central Sector (SR)	2738	8164	116	250	0	0
Sub-Total (SR)	2934	12173	6598	22436	14279	22204
Bihar	0	72	0	963	6658	0
Jharkhand	0	160	0	621	0	0
Orissa	0	242	0	4163	4462	0
West Bengal	0	706	0	2371	4522	0
D.V.C.	0	0	0	1352	3277	0
A. & N. Islands	0	0	0	0	0	0
Sikkim	0	0	0	0	0	0
Central Sector (ER)	0	5255	0	1156	302	0
Sub-Total (ER)	0	6435	0	10626	19221	0
Assam	0	0	0	1174	1895	0
Manipur	0	0	0	0	389	0
Meghalaya	0	0	0	0	671	0
Nagaland	0	0	0	0	240	0
Impura	0	0	0	0	388	0
Arunachal Pradesh	0	0	0	0	0	0
Mizoram	0	0	0	0	513	0
Central Sector (NER)	0	1538	0	551	1746	0
Sub-Total (NER)	0	1538	0	1725	5842	0
Total (ALL INDIA)	7400	51785	6598	93181	95492	25466

contd

Table No. 7.1 (Contd.)

**LENGTH OF TRANSMISSION AND DISTRIBUTION LINES STATEWISE
- AS ON 31ST MARCH, 2003.**

(Ckt. Kms.)

Name of the State/U.T.	78/66KV	33KV		22/20KV		15/11KV	
	(O.H.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)
Haryana	1649	3718	0	0	0	59048	0
Himachal Pradesh	363	2324	7	5066	0	14917	114
Jammu & Kashmir	0	1693	0	0	0	11428	0
Punjab	4865	1657	0	0	0	102533	0
Rajasthan	303	27220	0	0	0	165417	0
Uttar Pradesh	3139	28407	0	0	0	199303	0
Uttaranchal	0	2881	0	0	0	22529	0
Chandigarh	79	28	0	0	0	748	0
Delhi	660	1021	60	0	0	7247	0
Central Sector (NR)	0	0	0	0	0	0	0
Sub-Total (NR)	11058	69449	67	5066	0	583170	114
Gujarat	15097	120	0	6130	0	144025	3146
Madhya Pradesh	61	29535	0	0	0	174073	0
Chhattisgarh	0	8232	0	0	0	42950	0
Maharashtra	3264	26527	340	22225	604	159466	4136
Goa	0	858	0	0	0	1608	0
Daman & Diu	81	0	0	0	0	270	8
D&N Haveli	59	0	0	0	0	355	0
Central Sector (WR)	0	0	0	0	0	0	0
Sub-Total (WR)	18562	65272	340	28355	604	522747	7290
Andhra Pradesh	633	46787	0	0	0	283920	515
Karnataka	6310	6864	0	0	0	136241	1292
Kerala	3066	441	0	121	0	31427	0
Tamil Nadu	1581	4955	359	34275	16	82230	1774
Lakshadweep	0	0	0	0	0	43	0
Pondicherry	0	0	0	723	42	311	1
Central Sector (SR)	0	0	0	0	0	0	0
Sub-Total (SR)	11590	59047	359	35119	58	534172	3582
Bihar	0	6347	0	0	0	54755	0
Jharkhand	0	2704	0	0	0	19809	0
Orissa	40	10199	0	0	0	61101	192
West Bengal	528	8478	972	0	50	73539	1046
D.V.C.	0	1502	0	0	0	11152	0
A. & N. Islands	0	282	0	0	0	701	0
Sikkim	273	0	0	0	0	2109	24
Central Sector (ER)	37	0	0	0	0	0	0
Sub-Total (ER)	878	29512	972	0	50	223166	1262
Assam	363	467	0	0	0	32159	0
Mizoram	0	528	0	0	0	4936	0
Meghalaya	0	1064	0	0	0	6369	0
Nagaland	236	1874	0	0	0	4007	0
Tripura	378	676	0	0	0	5501	0
Arunachal Pradesh	0	3222	0	0	0	4006	0
Mizoram	137	880	0	0	0	4208	0
Central Sector (NER)	0	0	0	0	0	0	0
Sub-Total (NER)	1114	8711	0	0	0	61186	0
Total (ALL INDIA)	43202	231991	1738	68540	712	1924441	12248

contd.

Table No. 7.1 (Contd.)

**LENGTH OF TRANSMISSION AND DISTRIBUTION LINES STATEWISE
- AS ON 31ST MARCH, 2003.**

(Ckt. Kms.)

Name of the State/U.Ts.	6.6 KV		3.3/2.2 KV		Distribution lines upto 500 volts	Total
	(O.H.)	(U.G.)	(O.H.)	(U.G.)		
Haryana	0	0	0	0	107695	175921
Himachal Pradesh	0	0	5	41	47318	71852
Jammu & Kashmir	0	0	0	0	27770	41774
Punjab	0	0	0	0	162037	281635
Rajasthan	0	0	6	0	221317	433094
Uttar Pradesh	0	0	0	0	236945	488636
Uttaranchal	0	0	0	0	31969	59000
Chandigarh	0	0	0	0	1167	2076
Delhi	0	0	0	0	25370	34934
Central Sector (NR)	0	0	0	0	0	14458
Sub-Total (NR)	0	0	11	41	861588	1603380
Gujarat	0	0	5	27	222951	408245
Madhya Pradesh	0	0	0	0	369406	590619
Chhattisgarh	0	0	0	0	57664	114215
Maharashtra	150	1580	0	0	456847	704803
Goa	0	0	0	0	4550	7256
Daman & Diu	0	0	0	0	656	1034
D&N Haveli	0	0	0	0	900	1314
Central Sector (WR)	0	0	0	0	0	9935
Sub-Total (WR)	150	1580	5	27	1112974	1839151
Andhra Pradesh	0	0	0	0	645409	1005599
Karnataka	0	0	0	0	370702	537401
Kerala	0	0	0	0	194685	235956
Tamil Nadu	0	0	0	0	467199	610826
Lakshadweep	0	0	0	0	243	286
Pondicherry	0	0	0	0	4265	5718
Central Sector (SR)	0	0	0	0	0	11268
Sub-Total (SR)	0	0	0	0	1682503	2407054
Bihar	0	0	0	0	66506	135301
Jharkhand	0	0	0	0	23287	46581
Orissa	0	0	0	0	58755	139154
West Bengal	78	2605	12	34	88857	183798
D.V.C.	0	0	0	0	13932	31215
A. & N. Islands	0	0	0	0	2301	3284
Sikkim	0	0	15	0	2735	5156
Central Sector (ER)	0	0	0	0	0	6750
Sub-Total (ER)	78	2605	27	34	256373	551239
Assam	0	0	0	0	42554	78612
Manipur	0	0	0	0	6104	11957
Meghalaya	0	0	0	0	5076	13180
Nagaland	0	0	0	0	4318	10675
Tripura	0	0	0	0	4779	11722
Arunachal Pradesh	0	0	0	0	6988	14216
Mizoram	0	0	0	0	2652	8390
Central Sector (NER)	0	0	0	0	0	3835
Sub-Total (NER)	0	0	0	0	72471	152587
Total (ALL INDIA)	228	4185	43	102	3985909	6553261

Note - 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

contd

Table No. 7.2 (Contd.)

**LENGTH OF TRANSMISSION AND DISTRIBUTION LINES IN
STATE ELECTRICITY BOARDS - AS ON 31ST MARCH, 2003**

(Ckt. Kms.)

Name of the Board	78.66 KV		33KV		22.20KV		15.11KV	
	(O.H.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)	
Himachal Pradesh	363	2324	7	5066	0	14917	114	
Punjab	4745	1657	0	0	0	102533	0	
Sub-Total (NR)	5108	3981	7	5066	0	117450	114	
Gujarat	14950	120	0	6130	0	143504	0	
Madhya Pradesh	61	29535	0	0	0	159696	0	
Chhattisgarh	0	8232	0	0	0	42950	0	
Maharashtra	3264	26093	57	21075	350	159308	1844	
Sub-Total (WR)	18275	63980	57	27205	350	505458	1844	
Kerala	3066	441	0	121	0	31262	0	
Tamil Nadu	1581	4955	359	34255	16	82230	1774	
Sub-Total (SR)	4647	5396	359	34376	16	113492	1774	
Bihar	0	6338	0	0	0	54755	0	
Jharkhand	0	2704	0	0	0	19809	0	
West Bengal	528	8368	0	0	0	72550	100	
Sub-Total (ER)	528	16056	0	0	0	147114	100	
Assam	363	467	0	0	0	32159	0	
Meghalaya	0	1064	0	0	0	6369	0	
Sub-Total (NER)	363	1531	0	0	0	38528	0	
Total (All Boards)	28921	90944	423	66647	366	922042	3832	

cont.

Table No. 7.3
**NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY
 (UTILITIES ONLY) STATEWISE AS ON 31.3.2003**

Name of the State / U.R.	STEP UP		STEP DOWN	
	Number	Aggregate Capacity (KVA)	Number	Aggregate Capacity (KVA)
Haryana	16	1327000	1011	15970570
Himachal Pradesh	67	425157	342	2261470
Jammu & Kashmir	58	341000	116	609950
Punjab	118	6923808	685	27363900
Rajasthan	41	2859255	3439	26196130
Uttar Pradesh	73	6970240	5267	36019240
Uttaranchal	35	1165000	96	2501100
Chandigarh	1	1500	38	450500
Delhi	24	1788000	454	13858600
Central Sector (NR)	118	13487700	153	15883350
Sub-Total (NR)	551	35288660	9601	141111810
Gujarat	83	8228000	1835	40366350
Madhya Pradesh	49	3734955	3052	26689600
Chhattisgarh	16	2147100	657	6756050
Maharashtra	109	13579030	3132	43248700
Goa	0	0	72	1181300
Daman & Diu	0	0	20	25200
D. & N. Haveli	0	0	-	60000
Central Sector (WR)	35	937000	35	1564000
Sub-Total (WR)	292	28626085	8810	119891200
Andhra Pradesh	152	7113900	3758	41269550
Karnataka	138	5825310	1438	23250290
Kerala	86	2349476	546	11148700
Tamil Nadu	181	6477481	1862	29949520
Lakshadweep	18	7390	0	0
Pondicherry	0	0	32	760000
Central Sector (SR)	36	6505600	66	1423000
Sub-Total (SR)	611	28279157	7702	107801060
Bihar	18	1121000	129	3872850
Jharkhand	13	1358000	938	4267200
Orissa	45	4415400	1000	5451800
West Bengal	191	11859289	825	16562600
D.V.C.	35	474200	73	3146040
A. & N. Islands	27	74430	5	18550
Sikkim	34	38125	19	59750
Central Sector (ER)	9	3270000	45	6377000
Sub-Total (ER)	372	22610444	3034	39755790
Assam	41	1015480	271	864500
Manipur	4	2800	65	410400
Meghalaya	12	228600	81	368340
Nagaland	7	6850	63	268450
Tripura	17	164140	79	454520
Arunachal Pradesh	21	19710	60	61115
Mizoram	25	15700	59	240460
Central Sector (NER)	56	1604970	1	60000
Sub-Total (NER)	183	3058250	679	2727785
Total (All India)	2009	117862596	29826	411287645

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

Table No. 7.3 (Contd.)

**NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY
(UTILITIES ONLY) STATEWISE AS ON 31.3.2003**

Name of the State / U.T.	DISTRIBUTION	
	Number	Aggregate Capacity (KVA)
Andhra Pradesh	124809	8939692
Assam	14096	1075261
Bihar & Jharkhand	5661	883910
Chhattisgarh	191955	12675924
Goa	229563	14420354
Gujarat	315146	17518011
Haryana	21750	1331249
Karnataka	1256	483465
Kerala	14135	7669197
Central Sector - NR	327	377735
NR-Total	918698	62372698
Andhra Pradesh	234238	19227627
Madhya Pradesh	168980	14595914
Uttar Pradesh	33479	2341520
Rajasthan	203483	24368983
West Bengal	3133	320193
Manipur & Mizoram	344	79454
North East - NE	407	78980
Central Sector - WR	20	31830
WR-Total	644084	61044501
Andhra Pradesh	264962	19233286
Madhya Pradesh	158212	13618012
Uttar Pradesh	33593	4460564
Rajasthan	148752	18085141
West Bengal	64	5247
Madhya Pradesh	1479	285329
Central Sector - SR	209	221690
SR-Total	607269	55929239
Andhra Pradesh	37208	3053568
Madhya Pradesh	11694	910432
Uttar Pradesh	31290	4837950
West Bengal	77451	5147083
Madhya Pradesh	1360	104605
Central Sector - ER	463	59596
Madhya Pradesh	1274	63337
Central Sector - ER	43	54760
ER-Total	160783	14231331
Andhra Pradesh	19082	1797080
Madhya Pradesh	2365	269230
Uttar Pradesh	3268	307827
Madhya Pradesh	1362	87627
Uttar Pradesh	5104	395128
Madhya Pradesh	1607	117946
Madhya Pradesh	1087	133324
Central Sector - NER	0	0
NER-Total	33875	3108162
Total (All India)	2364709	196685931

Contd.

Table No. 54
**NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY
 IN STATE ELECTRICITY BOARDS AS ON 31ST MARCH, 2003**

<i>Name of the State U.T.</i>	<i>STEP UP</i>		<i>STEP DOWN</i>	
	<i>Number</i>	<i>Aggregate Capacity (KVA)</i>	<i>Number</i>	<i>Aggregate Capacity (KVA)</i>
Uttarakhand	67	425157	342	2261470
Punjab	72	3348808	569	21831000
Sub-Total (NR)	139	3773965	911	24092470
Uttar Pradesh	43	6255000	1720	37568000
Madhya Pradesh	49	3734955	3052	26689600
Chhattisgarh	16	2147100	657	6756050
Maharashtra	79	10207030	2399	11184000
Sub-Total (WR)	187	22344085	7828	82197650
Kerala	86	2349476	546	11148700
Tamil Nadu	135	2436972	1862	29923870
Sub-Total (SR)	221	4786448	2408	41072570
Bihar	10	696000	121	3712350
Jharkhand	13	1358000	938	4267200
West Bengal	41	397169	628	12471600
Sub-Total (ER)	64	2451169	1687	20451150
Assam	40	890480	271	864500
Meghalaya	12	228600	81	368340
Sub-Total (NER)	52	1119080	352	1232840
Total (All Boards)	663	34474747	13186	169046680

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

cont.

*Scientific
Lithography*

SECTION -8

UTILISATION

1. Energy Consumption

Electricity consumption by various categories of consumers served by utilities during the year under review was 3,39,598.27 Twh registering an increase of 5.32% over previous year.

As in the preceding year, the major portion of electricity viz. 2,97,517.87 Gwh representing 87.61% of the total energy consumption was distributed by the Public Sector and remaining 12.39% was distributed by the private sector. Out of 87.61% of energy distributed by the Public Sector, 63.63% was supplied by the 13 State Electricity Boards and balance 36.98% was supplied by the Municipalities and Electricity Departments of the States and Union Territories. Out of 12.39% of energy distributed by the whole Private Sector (including Co-operative Societies), the four major private Licensees viz. Tata Electric Companies, Calcutta Electric Supply Corporation, Ahmedabad Electricity Supply Company and BSES Ltd. distributed 0.62%, 1.04%, 1.97% and 3.70% of total energy to its consumers respectively. The details of energy sold by various agencies during 2002-03 are tabulated below:-

Sl. No	Agency	Energy sold to ultimate consumers.		
		Quantum (GWh)	% to total Consumption	% increase over 2001-02
1.	State Electricity Boards	2,97,517.87	87.61	5.32
2.	Electricity Deptt. of Municipalities	1,12,441.9	33.13	5.14
3.	Municipalities	4,17.11	1.23	10.34
4.	Electricity Deptt. of Municipalities	4,17.11	1.23	14.34
	Total	3,39,598.27	100.00	5.32

Table No. 8.1
ALL INDIA ENERGY SALES (UTILITIES ONLY) DURING 2002-03
 (GWh)

<i>Category</i>	<i>Energy sold during 2002-03</i>	<i>% to total sales in 2002-03</i>	<i>Energy sold during 2001-02</i>	<i>% to total sales in 2001-02</i>	<i>% increase in sales over previous year 2001-02</i>
Domestic	83353.08	24.55	79694.38	24.71	4.59
Commercial	25437.25	7.49	24139.78	7.49	5.37
Industrial Power	114958.76	33.85	107295.60	33.27	7.14
Public Lighting	3974.92	1.17	3587.30	1.11	10.81
Railways Tramways	8796.91	2.59	8105.65	2.51	8.53
Agriculture	84485.95	24.88	81673.39	25.33	3.44
Public Water Works & Sewage Pumping	7898.70	2.33	7369.79	2.29	7.18
Miscellaneous	10690.70	3.15	10593.44	3.29	0.92
Total	339598.27	100.00	322459.33	100.00	5.32

Table No. 8.2
ENERGY SALES TO ULTIMATE CONSUMERS (UTILITIES ONLY)
OWNERSHIPWISE/STATEWISE
DURING THE YEAR 2002-03

(GWh)

State U.Ts.	S.F.B.s	Municipalities	Govt. Depres. Undertakings Corporations	Private Sector	Total
Haryana	0.00	0.00	11721.70	0.00	11721.70
Himachal Pradesh	2519.03	0.00	10.00	0.00	2529.03
Jammu & Kashmir	0.00	0.00	3325.20	0.00	3325.20
Punjab	20964.41	0.00	149.00	0.00	21113.41
Rajasthan	0.00	0.00	14569.32	0.00	14569.32
Uttar Pradesh	0.00	0.00	24985.57	198.79	25184.36
Uttaranchal	0.00	0.00	2464.00	0.00	2464.00
Chandigarh	0.00	0.00	804.49	0.00	804.49
Delhi	0.00	798.00	191.50	9716.85	10706.35
Sub-Total(NR)	23483.44	798.00	58220.78	9915.64	92417.86
Gujarat	27604.00	0.00	5.00	6818.76	34427.76
Madhya Pradesh	14851.85	0.00	0.00	324.14	15175.99
Chhatisgarh	6259.41	0.00	75.00	0.00	6334.41
Maharashtra	38109.67	3318.53	0.00	8516.13	49944.33
Goa	0.00	0.00	1376.74	0.00	1376.74
Daman & Diu	0.00	0.00	821.22	0.00	821.22
D. & N. Haveli	0.00	0.00	898.50	0.00	898.50
Sub-Total(WR)	86824.63	3318.53	3176.46	15659.03	108978.65
Andhra Pradesh	0.00	0.00	30470.50	874.80	31345.30
Karnataka	0.00	0.00	20316.94	1381.29	21698.23
Kerala	8686.92	67.06	0.00	29.20	8783.12
Tamil Nadu	36077.00	0.00	884.93	0.00	36961.93
Pondicherry	0.00	0.00	1547.21	0.00	1547.21
Lakshadweep	0.00	0.00	18.23	0.00	18.23
Sub-Total(SR)	44763.92	67.00	53237.81	2285.29	100354.02
Bihar	3612.85	0.00	10.00	0.00	3622.85
Jharkhand	2485.32	0.00	3384.77	1050.00	6920.09
Orissa	0.00	0.00	0.00	6800.95	6800.95
West Bengal	8095.35	0.00	2298.76	6369.54	16763.65
A. & N. Islands	0.00	0.00	108.24	0.00	108.24
Sikkim	0.00	0.00	73.27	0.00	73.27
Sub-Total(ER)	14183.52	0.00	5875.04	14220.49	34279.05
Assam	1960.81	0.00	0.00	0.00	1960.81
Manipur	0.00	0.00	178.55	0.00	178.55
Meghalaya	712.98	0.00	0.00	0.00	712.98
Nagaland	0.00	0.00	126.52	0.00	126.52
Tripura	0.00	0.00	362.97	0.00	362.97
Arundhul Pradesh	0.00	0.00	79.21	0.00	79.21
Mizoram	0.00	0.00	147.65	0.00	147.65
Sub-Total(NER)	2673.79	0.00	894.90	0.00	3568.69
Total (All India)	171929.30	4183.53	121404.99	42080.45	339598.27

Table No. 8.3
ENERGY SALES TO ULTIMATE CONSUMERS (UTILITIES ONLY)
CATEGORYWISE/STATEWISE DURING THE YEAR 2002-03
(GWh)

<i>State U.T.s.</i>	<i>Domestic</i>	<i>Commercial</i>	<i>Industrial Power (Low & Med. Voltage)</i>	<i>Industrial Power (High Voltage)</i>	<i>Public Lighting</i>
Haryana	2367.97	599.31	856.95	1928.33	33.44
Himachal Pradesh	704.66	199.85	1203.96	(A)	9.46
Jammu & Kashmir	1300.78	397.20	660.38	(A)	41.86
Punjab	4787.85	1123.82	1948.54	(B)6173.23	85.08
Rajasthan	3029.20	938.61	1269.38	3455.90	96.81
Uttar Pradesh	8659.79	1824.59	2121.66	3501.48	392.62
Uttaranchal	1085.63	277.93	89.32	456.78	24.07
Chandigarh	293.61	204.96	81.04	123.24	12.35
Delhi	4492.23	1907.82	1590.97	198.59	172.41
Sub-Total(NR)	26721.72	7474.09	9822.20	15837.55	868.10
Gujarat	4503.76	1628.71	5042.04	8881.15	173.81
Madhya Pradesh	3301.05	661.39	686.95	3501.54	122.23
Chhattisgarh	1093.84	186.36	270.29	1569.81	34.60
Maharashtra	12230.26	4500.39	4110.26	14339.24	670.64
Goa	351.48	93.14	52.74	641.17	19.88
Daman & Diu	36.93	22.48	120.34	628.31	4.37
D. & N Haveli	25.00	8.50	36.00	825.00	2.00
Sub-Total(WR)	21542.32	7100.97	10318.62	30356.22	1027.53
Andhra Pradesh	7117.00	1573.20	1927.50	5676.00	721.50
Karnataka	4251.95	1162.76	1391.70	5113.08	495.63
Kerala	3835.75	1114.96	631.79	2357.58	155.82
Tamil Nadu	8837.00	3632.00	4112.00	8934.93	353.00
Pondicherry	244.37	70.76	66.51	1035.31	12.42
Lakshadweep	12.71	4.08	0.44	0.00	1.00
Sub-Total(SR)	24298.78	7557.76	8129.94	23116.90	1739.37

Contd.

Table No. 8.3 (Contd.)

**ENERGY SALES TO ULTIMATE CONSUMERS (UTILITIES ONLY)
CATEGORYWISE/STATEWISE DURING THE YEAR 2002-03**

(GWh)

State/U.Ts.	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Haryana	345.46	5165.08	269.47	155.69	11721.70
Himachal Pradesh	0.00	19.55	250.00	141.55	2529.03
Jammu & Kashmir	0.00	109.01	268.93	547.04	3325.20
Punjab	68.94	5818.46	230.42	877.07	21113.41
Rajasthan	230.81	4326.11	839.28	383.22	14569.32
Uttar Pradesh	607.97	4820.86	577.70	2677.69	25184.36
Uttarakhal	0.00	369.14	161.13	0.00	2464.00
Chandigarh	0.00	2.30	(C.)	86.99	804.49
Delhi	192.28	1490.29	270.58	391.18	10706.35
Sub-Total(NR)	1445.46	22120.80	2867.51	5260.43	92417.86
Gujarat	409.00	12965.55	715.02	138.72	34427.76
Madhya Pradesh	1256.72	5196.07	441.04	10.00	15175.99
Chhattisgarh	494.58	734.14	62.60	1887.89	6334.11
Maharashtra	1679.25	10641.48	1417.05	355.76	49944.33
Goa	0.00	18.09	100.00	100.24	1376.74
Daman & Diu	0.00	1.92	1.19	5.68	821.22
D. & N. Haveli	0.00	1.50	0.50	0.00	898.50
Sub-Total(WR)	3838.55	29558.75	2737.40	2498.29	108978.65
Andhra Pradesh	1069.00	12912.10	(C.)	349.00	31345.30
Karnataka	40.75	8507.91	456.48	277.97	21698.23
Kerala	46.50	183.97	215.88	240.87	8783.12
Tamil Nadu	426.00	9030.00	685.00	952.00	36961.93
Pondicherry	0.00	97.63	20.21	0.00	1547.21
Lakshadweep	0.00	0.00	0.00	0.00	18.23
Sub-Total(SR)	1582.25	30731.61	1377.57	1819.84	100354.02
Bihar	266.87	993.58	177.75	7.91	3612.85
Jharkhand (S)	655.71	50.12	45.58	43.84	6920.09
Orissa	238.52	171.76	127.76	306.16	6800.95
West Bengal (S)	789.55	724.58	386.10	263.70	16763.65
A & N. Islands	0.00	0.00	0.86	13.67	108.24
Sikkim	0.00	0.00	0.00	0.00	73.27
Sub-Total(EK)	1930.65	1940.04	738.05	635.28	34279.05
Assam	0.00	51.55	60.97	236.05	1960.81
Manipur	0.00	0.85	9.50	43.50	178.55
Meghalaya	0.00	0.35	35.94	139.58	712.98
Nagaland	0.00	0.00	2.81	19.48	126.52
Tripura	0.00	82.00	52.43	0.00	362.97
Arunchal Pradesh	0.00	0.00	3.50	28.78	79.21
Mizoram	0.00	0.00	13.02	9.47	147.65
Sub-Total(NER)	0.00	134.75	178.17	476.86	3568.69
Total (All India)	8796.91	84485.95	7898.70	10690.70	339598.27

Table No. 8.4 (Contd.)
ENERGY SALES BY STATE ELECTRICITY BOARDS
CATEGORYWISE DURING 2002-03

(GWh)

<i>Electricity Board</i>	<i>Traction</i>	<i>Agriculture</i>	<i>Public Water Works</i>	<i>Miscellaneous</i>	<i>Total Energy Sold</i>
Himachal Pradesh	0.00	19.55	250.00	131.55	2519.03
Punjab	68.94	5818.46	230.42	833.07	20964.41
Sub-Total(NR)	68.94	5838.01	480.42	964.62	23483.44
Gujarat	409.00	12940.00	565.00	31.00	27604.00
Madhya Pradesh	1255.72	4974.18	434.96	0.00	14851.85
Chhattisgarh	494.58	734.14	62.60	1887.89	6259.11
Maharashtra	943.13	10201.69	1387.13	355.73	38109.67
Sub-Total(WR)	3102.43	28850.01	2449.69	2274.62	86824.63
Kerala	46.50	183.47	215.88	237.87	8686.92
Tamil Nadu	426.00	9030.00	685.00	952.00	36077.00
Sub-Total(SR)	472.50	9213.47	900.88	1189.87	44763.92
Bihar	266.87	993.58	177.75	7.91	3602.85
Jharkhand	316.58	50.12	45.58	0.00	2485.32
West Bengal	572.25	710.58	119.17	46.73	8095.35
Sub-Total(ER)	1155.70	1754.28	342.50	54.64	14183.52
Assam	0.00	51.55	60.97	236.05	1960.81
Meghalaya	0.00	0.35	35.94	139.58	712.98
Sub-Total(NER)	1155.70	1806.18	439.41	430.27	5980.91
Total (All Boards)	4799.57	45655.77	4173.49	4483.75	169255.51

Table No. 8.5 (Contd.)
ENERGY SALES BY PRIVATE LICENSEES CATEGORYWISE
STATEWISE DURING 2002-03

State/Ts.	(GWh)				
	Traction	Agricultural	Public Water Works & Sewage Pumping	Miscellaneous	Total energy sold to ultimate consumers
Delhi	192.28	1490.29	270.58	212.18	9716.85
Uttar Pradesh	0.00	15.54	1.10	4.95	198.79
Sub-Total (NR)	192.28	1505.83	271.68	217.13	9915.64
Gujarat	0.00	25.55	150.02	107.72	6818.76
Madhya Pradesh	0.00	221.89	6.08	10.00	324.14
Maharashtra	736.12	439.79	14.63	0.03	8516.13
Sub-Total (WR)	736.12	687.23	170.73	117.75	15659.03
Andhra Pradesh	0.00	675.10	0.00	2.00	874.80
Karnataka	0.00	85.00	4.50	0.05	1381.29
Kerala	0.00	0.00	0.00	0.00	29.20
Sub-Total (SR)	0.00	760.10	4.50	2.05	2285.29
Jharkhand	0.00	0.00	0.00	0.00	1050.00
Orissa	238.52	171.76	127.76	306.16	6800.95
West Bengal	77.00	14.00	250.72	216.92	6369.54
Sub-Total (ER)	315.52	185.76	378.48	523.08	14220.49
Assam	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00	0.00
Sub-Total (NER)	0.00	0.00	0.00	0.00	0.00
Total (All India)	1243.92	3138.92	825.39	860.01	42080.45

Table No. 8.6 (Contd.)

**ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY
DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.
UNDERTAKINGS AND MUNICIPALITIES CATEGORYWISE/
STATEWISE DURING 2002-03.**

State U.Ts.	(GWh)				
	Domestic	Commer- cial	Industrial Power (L. & MV)	Industrial Power (HV)	Public Lighting
Gujarat (Kawas CCGT)	5.00	0.00	0.00	0.00	0.00
Andhra Pradesh (Transco)	6947.00	1558.00	1885.00	5426.00	718.00
A.P. (Centrl+It Proj.)	33.50	0.00	0.00	250.00	0.00
Pondicherry	244.37	70.76	66.51	1035.31	12.42
Lakshadweep	12.71	4.08	0.44	0.00	1.00
Tamil Nadu (Newch I&II + MAPS)	0.00	0.00	0.00	884.93	0.00
Karnataka (KPTCL)	4235.45	1160.26	1387.70	3846.09	493.88
D.V.C. (in Jharkhand)	0.00	0.05	0.00	3021.75	0.00
Kabugaon STPS	10.00	0.00	0.00	0.00	0.00
B.H.P.C.	0.00	0.00	0.00	0.00	0.00
D.V.C. (in West Bengal)	0.00	0.08	0.00	1332.00	0.00
WBPDCL	0.00	0.00	0.00	0.00	0.00
West Bengal (D.P.L.)	32.91	5.90	5.58	748.51	2.22
West Bengal (Eirakka)	15.00	0.00	0.00	0.00	0.00
Andaman & Nicobar Islands	57.63	25.57	4.55	0.00	5.96
Sikkim	32.20	17.95	8.60	0.00	14.52
Manipur	94.45	14.50	9.75	2.15	3.85
Nagaland	71.41	8.53	19.95	0.00	4.34
Tripura	142.24	31.30	48.00	0.00	7.00
Arunachal Pradesh	34.72	6.17	1.67	0.00	4.37
Mizoram	109.23	10.58	1.59	0.00	3.76
Meghalaya (NEEPCO)	0.00	0.00	0.00	0.00	0.00
Sub-Total	29285.90	7277.90	7886.52	28084.31	1893.20
Total (I&II)	30976.93	8968.93	8063.91	28236.97	1947.16

Table No. 8.6 (Contd.)

**ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY
DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.
UNDERTAKINGS AND MUNICIPALITIES CATEGORYWISE/
STATEWISE DURING 2002-03.**

(GWh)

State/ U.T.	Traction	Agriculture	Public Water Works	Miscellaneous	Total Energy Sold
MUNICIPALITIES					
N.D.M.C.	0.00	0.00	0.00	0.00	480.00
Maharashtra	0.00	0.00	19.52	0.00	3235.59
Kerala	0.00	0.50	0.00	3.00	73.50
Sub-Total-(I)	0.00	0.50	19.52	3.00	3789.09
GOVT. DEPTT./ CENTRAL SECTOR UNDERTAKINGS/ CORPORATIONS					
Haryana	345.46	5165.08	269.47	155.69	10892.75
Delhi (M.E.S.)	0.00	0.00	0.00	179.00	179.00
Punjab (B.B.M.B.)	0.00	0.00	0.00	44.00	149.00
H.P. (Barasahi)	0.00	0.00	0.00	10.00	10.00
H.P. (Chamera)	0.00	0.00	0.00	0.00	0.00
Rajasthan (R.A.P.S. + ANTA)	0.00	0.00	0.00	0.00	95.00
Rajasthan (RVPNL)	230.81	4326.11	839.28	383.22	14474.32
Chandigarh	0.00	2.30	0.00	86.99	804.49
U.P. Power Corpn. Ltd.	607.97	4805.32	576.60	2672.74	24904.48
Delhi (B.T.P.S.)	0.00	0.00	0.00	0.00	12.50
U.P.C. Sector Projects	0.00	0.00	0.00	0.00	81.09
Uttaranchal Power Corpn.	0.00	369.14	161.13	0.00	2462.45
Uttaranchal (Tanakpur)	0.00	0.00	0.00	0.00	1.55
J&K (Satal)	0.00	0.00	0.00	0.00	0.00
J&K Power Dev. Corpn.	0.00	109.01	268.93	547.04	3325.20
Goa	0.00	18.09	100.00	100.24	1376.74
Daman & Diu	0.00	1.92	1.19	5.68	821.22
Dadra & Nagar Haveli	0.00	1.50	0.50	0.00	898.50
Chhatisgarh (K.S.P.S. + V.S.P.S.)	0.00	0.00	0.00	0.00	75.00
Gujarat (Kawas CCGT)	0.00	0.00	0.00	0.00	5.00
Andhra Pradesh Transco	1069.00	12237.00	0.00	347.00	30187.00
Andhra Pradesh (Centrl + Ir Proj.)	0.00	0.00	0.00	0.00	283.50
Pondicherry	0.00	97.63	20.21	0.00	1547.21
Lakshadweep	0.00	0.00	0.00	0.00	18.23
Tamil Nadu (Neyveli I&II + M.A.P.S.)	0.00	0.00	0.00	0.00	884.93
Karnataka (KPTCL)	40.75	8422.91	451.98	277.92	20316.94
D.V.C. (in Jharkhand)	319.13	0.00	0.00	43.84	3384.77
Kahalgazi S.P.S.	0.00	0.00	0.00	0.00	10.00
B.H.P.C.	0.00	0.00	0.00	0.00	0.00
D.V.C. (in West Bengal)	140.30	0.00	0.00	0.00	1472.38
WBPDCL	0.00	0.00	0.00	0.00	0.00
West Bengal (D.P.L.)	0.00	0.00	16.21	0.05	811.38
West Bengal (Farakka)	0.00	0.00	0.00	0.00	15.00
Andaman & Nicobar Islands	0.00	0.00	0.86	13.67	108.24
Sikkim	0.00	0.00	0.00	0.00	73.27
Manipur	0.00	0.85	9.50	43.50	178.55
Nagaland	0.00	0.00	2.81	19.48	126.52
Tripura	0.00	82.00	52.43	0.00	362.97
Assam (A.P. Prad.)	0.00	0.00	3.50	28.78	79.21
Mizoram	0.00	0.00	13.02	9.47	147.65
Meghalaya (NEEPCO)	0.00	0.00	0.00	0.00	0.00
Sub-Total- (II)	2753.42	35638.86	2787.62	4968.31	120576.04
Total (I&II)	2753.42	35639.36	2807.14	4971.31	124365.13

Table No. 8.7
**PATTERN OF ENERGY SALES (CATEGORYWISE) STATEWISE
 DURING 2002-03 (UTILITIES ONLY)**

Name of the State/UTs	% age to Total Sales				
	Domestic	commercial	Industrial Power	Public Lighting	Traction
Haryana	20.20	5.11	23.76	0.29	2.95
Himachal Pradesh	27.86	7.90	47.61	0.37	0.00
Jammu & Kashmir	39.12	11.95	19.86	1.26	0.00
Punjab	22.68	5.32	38.47	0.40	0.33
Rajasthan	20.79	6.44	32.43	0.66	1.58
Uttar Pradesh	34.39	7.24	22.33	1.56	2.41
Uttaranchal	44.06	11.28	22.16	0.98	0.00
Chandigarh	36.50	25.48	25.39	1.54	0.00
Delhi	41.96	17.82	16.71	1.61	1.80
Sub-Total(NR)	28.91	8.09	27.76	0.94	1.56
Gujarat	13.08	4.73	40.35	0.50	1.19
Madhya Pradesh	21.75	4.36	27.60	0.81	8.27
Chhattisgarh	17.27	2.94	29.05	0.55	7.81
Maharashtra	24.49	9.01	36.94	1.34	3.36
Goa	25.53	6.77	50.40	1.44	0.00
Daman & Diu	4.50	2.74	91.16	0.53	0.00
D. & N. Haveli	2.78	0.95	95.83	0.22	0.00
Sub-Total(WR)	19.77	6.52	37.32	0.94	3.52
Andhra Pradesh	22.71	5.02	24.26	2.30	3.41
Karnataka	19.60	5.36	29.98	2.28	0.19
Kerala	43.67	12.69	34.04	1.77	0.53
Tamil Nadu	23.91	9.83	35.30	0.96	1.15
Pondicherry	15.79	4.57	71.21	0.80	0.00
Lakshadweep	69.72	22.38	2.41	5.49	0.00
Sub-Total(SR)	24.21	7.53	31.14	1.73	1.58
Bihar	30.69	7.59	20.95	0.74	7.39
Jharkhand	7.79	2.57	77.95	0.49	9.19
Orissa	36.71	7.24	43.01	0.63	3.51
West Bengal	31.07	11.61	43.37	1.04	4.71
A.& N. Islands	53.24	23.62	4.20	5.51	0.00
Sikkim	43.95	24.50	11.74	19.82	0.00
Sub-Total(ER)	27.55	8.56	47.72	0.87	5.63
Assam	36.28	11.95	33.18	0.82	0.00
Mizoram	52.90	8.12	6.66	2.16	0.00
Meghalaya	26.07	8.94	39.88	0.44	0.00
Nagaland	56.44	6.74	15.77	3.43	0.00
Tripura	39.19	8.62	13.22	1.93	0.00
Arunachal Pradesh	43.83	7.79	2.11	5.52	0.00
Mizoram	73.98	7.17	1.08	2.55	0.00
Sub-Total(NER)	37.81	10.34	28.53	1.19	0.00
Total (All India)	24.55	7.49	33.85	1.17	2.59

Table No. 8.7 (Contd.)
**PATTERN OF ENERGY SALES (CATEGORYWISE) STATEWISE
 DURING 2002-03 (UTILITIES ONLY)**

Name of the State/UTs	% age to Total Sales			Total Energy sold (GWh)
	Agriculture	Public Water Works	Miscellaneous	
Haryana	44.06	2.30	1.33	11721.70
Himachal Pradesh	0.77	9.89	5.60	2529.03
Jammu & Kashmir	3.28	8.09	16.45	3325.20
Punjab	27.56	1.09	4.15	21113.41
Rajasthan	29.69	5.76	2.63	14569.32
Uttar Pradesh	19.14	2.29	10.63	25184.36
Uttaranchal	14.98	6.54	0.00	2464.00
Chandigarh	0.29	0.00	10.81	804.49
Delhi	13.92	2.53	3.65	10706.35
Sub-Total(NR)	23.94	3.10	5.69	92417.86
Gujarat	37.66	2.08	0.40	34427.76
Madhya Pradesh	34.24	2.91	0.07	15175.99
Chhattisgarh	11.59	0.99	29.81	6334.11
Maharashtra	21.31	2.84	0.71	49944.33
Goa	1.31	7.26	7.28	1376.74
Daman & Diu	0.23	0.14	0.69	821.22
D. & N Haveli	0.17	0.06	0.00	898.50
Sub-Total(WR)	27.12	2.51	2.29	108978.65
Andhra Pradesh	41.19	0.00	1.11	31345.30
Karnataka	39.21	2.10	1.28	21698.23
Kerala	2.09	2.46	2.74	8783.12
Tamil Nadu	24.43	1.85	2.58	36961.93
Pondicherry	6.31	1.31	0.00	1547.21
Lakshadweep	0.00	0.00	0.00	18.23
Sub-Total(SR)	30.62	1.37	1.81	100354.02
Bihar	27.50	4.92	0.22	3612.85
Jharkhand	0.72	0.66	0.63	6920.09
Orissa	2.53	1.88	4.50	6800.95
West Bengal	4.32	2.30	1.57	16763.65
A. & N. Islands	0.00	0.79	12.63	108.24
Sikkim	0.00	0.00	0.00	73.27
Sub-Total(ER)	5.66	2.15	1.85	34279.05
Assam	2.63	3.11	12.04	1960.81
Manipur	0.48	5.32	24.36	178.55
Meghalaya	0.05	5.04	19.58	712.98
Nagaland	0.00	2.22	15.40	126.52
Tripura	22.59	14.44	0.00	362.97
Arunachal Pradesh	0.00	4.42	36.33	79.21
Mizoram	0.00	8.82	6.41	147.65
Sub-Total(NER)	3.78	4.99	13.36	3568.69
Total (All India)	24.88	2.33	3.15	339598.27

cont.

Table No. 8.8

**ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY (UTILITIES
+ NON-UTILITIES) CATEGORYWISE/STATEWISE DURING 2002-03**
(kWh)

Name of the State U.Ts.	Population* (Million)	PER CAPITA CONSUMPTION OF ELECTRICITY (AS PER CEA PRACTICE)					
		Domestic	Commercial	Industrial (LV&MV)	Industrial (H.V.)	Public Lighting	Traction
Haryana	21.74	108.92	27.57	39.42	88.70	1.54	15.89
Himachal Pradesh	6.20	113.65	32.23	194.19	0.00	1.53	0.00
Jammu & Kashmir	10.51	123.77	37.79	62.83	0.00	3.98	0.00
Punjab	24.86	192.59	45.21	78.38	248.32	3.42	2.77
Rajasthan	58.43	51.84	16.06	21.72	59.15	1.66	3.95
Uttar Pradesh	171.70	50.44	10.63	12.36	20.39	2.29	3.54
Uttaranchal	8.71	124.64	31.91	10.25	52.44	2.76	0.00
Chandigarh	0.94	312.35	218.04	86.21	131.11	13.14	0.00
Delhi	14.49	310.02	6.15	109.80	13.71	11.90	13.27
Sub-Total(NR)	317.58	84.14	23.53	30.93	49.87	2.73	4.55
Gujarat	52.00	86.61	31.32	96.96	170.21	3.34	7.87
Madhya Pradesh	62.39	52.91	10.60	11.01	56.12	1.96	20.13
Chhattisgarh	21.41	51.09	8.70	12.62	73.32	1.62	23.10
Maharashtra	99.20	123.29	45.37	41.43	144.55	6.76	16.93
Goa	1.40	251.06	66.53	37.67	457.98	14.20	0.00
Daman & Diu	0.17	217.24	132.24	707.88	3695.94	25.71	0.00
D. & N. Haveli	0.23	108.70	0.08	156.52	3586.96	8.70	0.00
Sub-Total(WR)	236.80	90.97	29.99	43.58	128.19	4.34	16.21
Andhra Pradesh	77.15	92.25	20.39	24.98	73.57	9.35	13.86
Karnataka	53.85	78.96	21.59	25.84	94.95	9.20	0.76
Kerala	32.36	118.53	34.45	19.52	72.85	4.82	1.44
Tamil Nadu	63.10	140.05	57.56	65.17	141.60	5.59	6.75
Pondicherry	0.99	246.84	71.47	67.18	1045.77	12.55	0.00
Lakshadweep	0.06	211.83	68.00	7.33	0.00	16.67	0.00
Sub-Total(SR)	227.51	106.80	33.22	35.73	101.61	7.65	6.95
Bihar	85.58	12.96	3.21	1.52	7.32	0.31	3.12
Jharkhand	27.66	19.49	6.44	3.96	191.05	1.22	22.98
Orissa	37.46	66.65	13.14	6.68	71.41	1.14	6.37
West Bengal	81.99	63.53	23.75	19.32	69.36	2.12	9.63
A. & N. Islands	0.37	155.76	69.11	12.30	0.00	16.11	0.00
Sikkim	0.56	57.50	0.31	15.36	0.00	25.93	0.00
Sub-Total(ER)	233.62	40.42	12.56	8.93	61.09	1.27	8.26
Assam	27.37	25.99	8.56	4.64	19.13	0.59	0.00
Manipur	2.45	38.55	5.92	3.98	0.88	1.57	0.00
Meghalaya	2.37	78.43	26.89	2.67	117.32	1.32	0.00
Nagaland	2.06	34.67	4.14	9.68	0.00	2.11	0.00
Tripura	3.26	43.63	9.60	14.72	0.00	2.15	0.00
Arunachal Pradesh	1.12	31.00	5.51	1.49	0.00	3.90	0.00
Mizoram	0.91	120.03	11.63	1.75	0.00	4.13	0.00
Sub-Total(NER)	39.54	34.12	9.33	5.42	20.33	1.08	0.00
Total (All India)	1055.05	79.01	24.11	28.98	79.98	3.77	8.34

*Estimated population as on 1st October, 2002

contd.

Table No. 8.8 (Contd.)

**CATEGORYWISE/STATEWISE ANNUAL PER CAPITA CONSUMPTION
OF ELECTRICITY DURING 2002-03.**

(kWh)

Name of the State/UTs	PER CAPITA CONSUMPTION OF ELECTRICITY (AS PER CEA PRACTICE)					
	Agri-culture	Public Water works	Miscellaneous	Total		Total (Utilities & Non-Util.)
				Utilities	Non-Utilities	
Haryana	237.58	12.40	7.16	539.2	40.9	580.0
Himachal Pradesh	3.15	40.32	22.83	407.9	12.5	420.4
Jammu & Kashmir	10.37	25.59	52.05	316.4	0.0	316.4
Punjab	234.05	9.27	35.28	849.3	21.1	870.4
Rajasthan	74.04	14.36	6.56	249.3	41.6	290.9
Uttar Pradesh	28.08	3.36	15.60	146.7	41.1	187.7
Uttaranchal	42.38	18.50	0.00	282.9	28.8	311.7
Chandigarh	2.45	0.00	92.54	855.8	3.0	858.8
Delhi	102.85	18.67	27.00	738.9	0.1	739.0
Sub-Total(NR)	69.65	9.03	16.56	291.0	35.3	326.3
Gujarat	249.34	13.75	2.67	662.1	175.9	838.0
Madhya Pradesh	83.28	7.07	0.16	243.2	34.9	278.2
Chhattisgarh	34.29	2.92	88.18	295.8	219.9	515.8
Maharashtra	107.27	14.28	3.59	503.5	35.1	538.5
Goa	12.92	71.43	71.60	983.4	177.2	1160.6
Daman & Diu	11.29	7.00	33.41	4830.7	0.0	4830.7
D. & N. Haveli	6.52	2.17	0.00	3906.5	172.2	4078.7
Sub-Total(WR)	124.83	11.56	10.55	460.2	83.6	543.8
Andhra Pradesh	167.36	0.00	4.52	406.3	61.7	468.0
Karnataka	157.99	8.48	5.16	402.9	59.9	462.8
Kerala	5.69	6.67	7.44	271.4	13.1	284.5
Tamil Nadu	143.11	10.86	15.09	585.8	59.7	645.4
Pondicherry	98.62	20.41	0.00	1562.8	42.3	1605.2
Jharkhand	0.00	0.00	0.00	303.8	0.0	303.8
Sub-Total(SR)	135.08	6.05	8.00	441.1	53.7	494.8
Chhatisgarh	11.61	2.08	0.09	42.2	2.7	44.9
Jharkhand	1.81	1.65	1.58	250.2	59.8	310.0
Orissa	4.59	3.41	8.17	181.6	164.4	346.0
West Bengal	8.84	4.71	3.22	204.5	20.1	224.6
A. & N. Islands	0.00	2.32	36.95	292.5	0.0	292.5
Andhra	0.00	0.00	0.00	130.8	0.0	130.8
Sub-Total(ER)	8.30	3.16	2.72	146.7	41.5	188.2
Assam	1.88	2.23	8.62	71.6	33.9	105.5
Manipur	0.35	3.88	17.76	72.9	0.0	72.9
Meghalaya	0.15	15.16	58.89	300.8	0.0	300.8
Nagaland	0.00	1.36	9.46	61.4	0.0	61.4
Mizoram	25.15	16.08	0.00	111.3	0.0	111.3
West Bengal	0.00	3.13	25.70	70.7	0.0	70.7
Mizoram	0.00	14.31	10.41	162.3	0.0	162.3
Sub-Total(NER)	3.41	4.51	12.06	90.3	23.5	113.7
Total (All India)	80.08	7.49	10.13	321.9	51.1	373.0

Table No. 8.9
**ENERGY CONSUMPTION PER SQUARE KILOMETER AND
 PERTHOUSAND POPULATION (UTILITIES ONLY) STATEWISE
 DURING 2002-03.**

<i>Name of the State / U.Ts</i>	<i>Population (Million) ^a</i>	<i>Area in 1000 Sq. Kms. ^S</i>	<i>Total Energy Sold (GWh)</i>	<i>Energy Consumed per thousand population (kwh)</i>	<i>Energy Consumed per Sq. Kms. (kwh)</i>
Haryana	21.74	44.21	11721.70	5391.77	265137
Himachal Pradesh	6.20	55.67	2529.03	407908	45429
Jammu & Kashmir	10.51	222.24	3325.20	316384	14962
Punjab	24.86	50.36	21113.41	849292	419250
Rajasthan	58.43	342.24	14569.32	249347	42570
Uttar Pradesh	171.70	240.93	25184.36	146677	104530
Uttaranchal	8.71	53.48	2464.00	282893	46073
Chandigarh	0.94	0.11	804.49	855840	7313545
Delhi	14.49	1.48	10706.35	738879	7234020
Sub-Total(NR)	317.58	1010.72	92417.86	291007	91438
Gujarat	52.00	196.02	34427.76	662072	175634
Madhya Pradesh	62.39	308.25	15175.99	243244	49233
Chhattisgarh	21.41	135.19	6334.11	295848	46853
Maharashtra	99.20	307.71	49944.33	503471	162310
Goa	1.40	3.70	1376.74	983386	372092
Daman & Diu	0.17	0.11	821.22	4830706	7465636
D. & N. Haveli	0.23	0.49	898.50	3906522	1833673
Sub-Total(WR)	236.80	951.47	108978.65	460214	114537
Andhra Pradesh	77.15	275.05	31345.30	406290	113962
Karnataka	53.85	191.79	21698.23	402938	113135
Kerala	32.36	38.86	8783.12	271419	226020
Tamil Nadu	63.10	130.06	36961.93	585768	284191
Pondicherry	0.99	0.49	1547.21	1562838	3157571
Lakshadweep	0.06	0.03	18.23	303833	607667
Sub-Total(SR)	227.51	636.28	100354.02	441097	157720
Bihar	85.58	94.16	3612.85	42216	38369
Jharkhand (A)	27.66	79.71	6920.09	250184	86816
Orissa	57.46	155.71	6800.95	181552	43677
West Bengal (A)	81.99	88.75	16763.65	204460	188886
A & N Islands	0.37	8.25	108.24	292541	13120
Sikkim	0.56	7.10	73.27	130839	10320
Sub-Total(ER)	233.62	433.68	34279.05	146730	79042
Assam	27.37	78.44	1960.81	71641	24998
Manipur	2.45	22.33	178.55	72878	7996
Meghalaya	2.37	22.43	712.98	300835	31787
Nagaland	2.06	16.58	126.52	61417	7631
Tripura	3.26	10.49	362.97	111340	34602
Arunachal Pradesh	1.12	83.74	79.21	70723	946
Mizoram	0.91	21.08	147.65	162253	7004
Sub-Total(NER)	39.54	255.09	3568.69	90255	13990
Total (All India)	1055.05	3287.24	339598.27	321879	103308

Note: (S) - Source for area figures is "Statistical Abstract INDIA published by Central Statistical Organisation.

^a - Office of the Registrar General of India.

A - Includes consumption by ultimate consumers of DVC in Jharkhand & West Bengal respectively.

Table No. 8.10
GROSS ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY
DURING THE YEAR 2002-03

Name of the State / U.Ts	Population Million ^a	Gross Generation* (GWh)	Actual Drawal incl. Aux. Share from CGPS/DVC	Gross Gen. by self-generating Industries (GWh)
1	2	3	4	5
Haryana	21.74	9783.14	10739.12	1154.30
Himachal Pradesh	6.20	1650.00	1981.99	80.01
Jammu & Kashmir	10.51	381.00	5844.83	0.39
Punjab	24.86	22341.37	7604.35	567.13
Rajasthan	58.43	17171.06	13348.06	2560.69
Uttar Pradesh	171.70	22377.23	23945.62	7957.14
Uttaranchal	8.71	3426.14	424.71	260.95
Chandigarh	0.94	0.00	606.73	2.82
Delhi	14.49	3351.30	17312.03	1.80
Sub-Total(NR)	317.58	80481.24	81807.45	12585.23
Gujarat	52.00	37114.15	14783.99	10131.19
Madhya Pradesh	62.39	15484.72	14642.42	2337.43
Chhattisgarh	21.41	7870.17	1334.81	5265.14
Maharashtra	99.20	63449.15	17008.67	3665.42
Goa	1.40	273.05	2042.66	264.07
Daman & Diu	0.17	0.00	1253.91	0.00
D. & N. Haveli	0.23	0	910.10	40.99
Sub-Total(WR)	236.80	124191.24	51976.55	21704.24
Andhra Pradesh	77.15	33478.00	11224.51	7191.77
Karnataka	53.85	21011.26	8190.86	3709.07
Kerala	32.36	5785.8	5986.40	444.99
Tamil Nadu	63.10	30821.33	15734.53	4887.16
Lakshadweep	0.06	20.89	0.00	0.00
Pondicherry	0.99	264.00	1435.93	43.70
Sub-Total(SR)	227.51	91381.28	42572.23	16276.69
Bihar	85.58	594.52	5804.39	257.57
Jharkhand	27.66	3906.00	6815.60	2048.49
Orissa	37.46	5882.43	3377.46	8108.08
West Bengal	81.99	21979.05	5581.92	1822.35
A & N Islands	0.37	138.80	0.00	0.00
Sikkim	0.56	40.53	80.90	0.00
Sub-Total(ER)	233.62	32541.33	21660.27	12236.49
Assam	27.37	884.00	2447.14	1047.26
Mizoram	2.45	0.00	505.61	0.00
Meghalaya	2.37	573.51	222.47	0.00
Nagaland	2.06	23.65	262.92	0.00
Tripura	3.26	336.38	404.49	0.00
Arunachal Pradesh	1.12	27.00	121.35	0.00
Mizoram	0.91	9.95	262.92	0.00
Sub-Total(NER)	39.54	1854.49	4226.89	1047.26
Total (All India)	1055.05	330449.58	202243.38	63849.91

^a - Estimated population as on 1st October, 2002

* - Excludes Gross Generation from Central Govt. Projects & DVC - CGPS - Central Govt. Projects
DVC - Damodar Valley Corpn

contd.

Table No. 8.10 (Contd.)
**GROSS ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY
 DURING THE YEAR 2002-03**

Name of the State / U.Ts	Import from Other Countries	Export to Other Countries	Total (5 to 6 + 7)	Per Capita Consumption* (kWh)
	6	7	8	9
Haryana	0.00	0.00	21676.56	997.08
Himachal Pradesh	0.00	0.00	3712.00	598.71
Jammu & Kashmir	0.00	0.00	6226.22	592.41
Punjab	0.00	0.00	30512.85	1227.39
Rajasthan	0.00	0.00	33079.81	566.14
Uttar Pradesh	0.00	0.00	54279.99	316.13
Uttarakhand	0.00	72.95	4038.85	463.70
Chandigarh	0.00	0.00	609.55	648.46
Delhi	0.00	0.00	20665.13	1426.17
Sub-Total(NR)	0.00	-2.95	174800.97	550.42
Gujarat	0.00	0.00	62029.33	1192.87
Madhya Pradesh	0.00	0.00	32464.57	520.33
Chhattisgarh	0.00	0.00	14470.12	675.86
Maharashtra	0.00	0.00	84123.24	848.02
Goa	0.00	0.00	2579.78	1842.70
Daman & Diu	0.00	0.00	1253.91	7375.94
D. & N. Haveli	0.00	0.00	951.09	4135.15
Sub-Total(WR)	0.00	0.00	197872.03	835.61
Andhra Pradesh	0.00	0.00	51894.28	672.64
Karnataka	0.00	0.00	32911.19	611.16
Kerala	0.00	0.00	12217.19	377.54
Tamil Nadu	0.00	0.00	51443.02	815.26
Lakshadweep	0.00	0.00	20.89	348.17
Pondicherry	0.00	0.00	1743.63	1761.24
Sub-Total(SR)	0.00	0.00	150230.20	660.32
Bihar	424.67	102.03	6979.12	81.53
Jharkhand	166.61	0.00	12936.70	467.70
Orissa	245.07	0.00	17613.04	470.18
West Bengal	666.40	0.00	30049.72	366.50
A. & N. Islands	0.00	0.00	138.80	375.14
Sikkim	16.82	0.00	138.25	246.87
Sub-Total(ER)	1519.57	102.03	67855.63	290.43
Assam	0.00	0.00	4378.40	159.97
Mizoram	0.00	0.00	505.61	206.37
Meghalaya	0.00	0.00	795.98	335.86
Nagaland	0.00	0.00	286.57	139.11
Tripura	0.00	0.00	740.87	227.26
Arunachal Pradesh	0.00	0.00	148.35	132.43
Mizoram	0.00	0.00	272.87	299.85
Sub-Total(NER)	0.00	0.00	7128.64	180.29
Total (All India)	1519.57	174.98	597887.46	566.69

*As per UN methodology - Per Capita Consumption equal to gross generation (col. No. 8) population (col. No. 2).

Section - 9
Consumers
and
Connected Load

SECTION-9

CONSUMERS AND CONNECTED LOAD

The 4.50 million additional electric connections were given during the year 2002-03 to different categories of consumers, bringing the total number of consumers to 126.96 millions up to 31st March 2003. The corresponding connected load of all categories of consumers was 2,44,420 MW as compared to 2,29,233 MW as on 31.3.2002.

Domestic category continued to have the maximum number of consumers benefited from electricity followed by agricultural and commercial categories. The domestic consumers had the maximum connected load of 88,115 MW followed by total industrial (LV, MV&HV) and agricultural sectors having connected load of 69,487 MW and 51,626 MW respectively.

The All India average electricity consumption per consumer was 2,671 kWh during 2001-02, the highest being in the Traction category 2,40,85,210 kWh followed by industrial (H.V) 18,14,337 kWh. It was the lowest in the Domestic sector being 897 kWh only.

The All India average connected load per consumer worked out to 1.91 KW only. In Traction category connected load was the highest followed by industrial (H.V). It was lowest in case of Domestic category 1.91 KW.

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



Table No. 9.1
**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD
 (UTILITIES) STATEWISE AS ON 31.3.2003**

State/UTs	DOMESTIC		COMMERCIAL		INDUSTRIAL	
	(TUSMV)					
	Connected load - KW	Consumers	Connected load - KW	Consumers	Connected load - KW	Consumers
Haryana	2744274	2822384	430349	354489	1069358	61587
Himachal Pradesh	1500050	1363129	362870	180291	565170	31022
Jammu & Kashmir	190973	578708	56798	78886	94615	7000
Punjab	6540010	3917128	1461786	658918	1806490	98510
Rajasthan	3028518	4008515	1024627	634099	1693279	120786
Uttar Pradesh	9103565	6690018	1601831	759048	1501413	143661
Uttaranchal	947784	751992	199123	89854	86936	7951
Chandigarh	449269	169874	195467	20504	47195	2114
Delhi	2592262	2181296	1720532	510037	890523	108677
Sub-Total(NR)	27096705	22483044	7053383	3286126	7754979	581308
Gujarat	5121523	7285820	1627775	1266883	3185837	251946
Madhya Pradesh	1898400	4663235	663584	586166	812253	89434
Chattisgarh	523383	1760003	151555	152630	279329	18936
Maharashtra	12114081	12177869	3605636	1582923	4891420	365142
Goa	367615	318133	278239	49627	537750	7753
D. & N Haveli	8347	14572	3929	2642	21989	736
Daman & Diu	40926	57494	26332	6905	102420	2255
Sub-Total(WR)	20074285	26257126	6197050	3647776	9830998	736202
Andhra Pradesh	7017286	11547509	961287	1033288	3092330	284620
Karnataka	9874697	9396977	900560	977220	2001550	234295
Kerala	5611243	5885687	1133541	1001981	1092300	103341
Tamil Nadu	10199007	11731263	2364095	1771776	4140886	38405
Pondicherry	146571	192856	45775	30517	80324	4888
Lakshadweep	16358	14763	9292	2914	2588	256
Sub-Total (SR)	32965162	38372049	5414550	4817696	10409978	565805

Contd.

Table No. 9.1 (Contd.)
**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD
 (UTILITIES) STATEWISE AS ON 31.3.2003**

State/UTs.	DOMESTIC		COMMERCIAL		INDUSTRIAL	
	(LV&MV)					
	Connected load (KW)	Consumers	Connected load (KW)	Consumers	Connected load (KW)	Consumers
Bihar	1180221	1344408	1111935	249947	1175125	71554
Jharkhand	491306	554729	463835	53474	375083	10812
Orissa	1561501	1573743	270182	183316	267289	21784
West Bengal	3256960	4921186	921877	936011	592291	170195
D.V.C.	0	0	30	2	0	0
A&N Island	34569	50990	12732	12082	5790	482
Sikkim	18300	49049	7600	5846	8000	204
Sub-Total (ER)	6542857	8494105	2788191	1440678	2423578	275031
Assam	850287	842384	204549	124909	195072	9556
Manipur	81725	153092	11671	8154	13479	1921
Meghalaya	127177	157208	40027	16861	10073	847
Nagaland	33824	96640	4990	14256	7284	1242
Tripura	140800	219446	24786	23099	49706	3058
Arunachal Pradesh	45668	93221	9719	9154	3516	156
Mizoram	156045	113918	13166	3091	4218	132
Sub-Total(NER)	1435526	1675909	308908	199524	283348	16912
Total (All India)	88114535	97282233	21762082	13391800	30702881	2175258

Contd.

Table No. 9.1 (Contd.)
**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD
 (UTILITIES) STATEWISE AS ON 31.3.2003**

State/UT	INDUSTRIAL (H.V.)		PUBLIC LIGHTING		TRACTION	
	Connected load (KW)	Consumers	Connected load (KW)	Consumers	Connected load (KW)	Consumers
Haryana	1611629	3723	10168	978	85023	75
Himachal Pradesh	-	-	2793	514	0	0
Jammu & Kashmir	42000	100	22000	150	0	0
Punjab	2855872	3886	21344	1604	42328	4
Rajasthan	1882127	2281	141984	6607	95500	8
Uttar Pradesh	1290723	4110	103610	17208	244675	9
Uttaranchal	161038	200	7475	245	0	0
Chandigarh	54441	89	3521	488	0	0
Delhi	795544	927	268452	4083	24350	5
Sub-Total (NR)	8693374	15316	581347	31877	491876	101
Gujarat	2702088	5073	98149	17414	114394	19
Madhya Pradesh	1266117	1772	45411	16012	487400	32
Chattisgarh	553121	386	10071	5239	190710	21
Maharashtra	7936208	9260	280107	71973	505670	54
Goa	37577	537	17736	989	0	0
D. & N. Haveli	78460	257	110	145	0	0
Daman & Diu	199009	626	940	94	0	0
Sub-Total (WR)	12772580	17911	452524	111866	1298174	126
Andhra Pradesh	2247000	3053	260378	80871	298000	38
Karnataka	1226473	3397	98691	47353	14450	2
Kerala	619508	887	89402	8791	24552	5
Tamil Nadu	4331486	4824	129367	210403	92000	10
Pondicherry	314752	306	4215	916	0	0
Lasshadvceep	0	0	233	821	0	0
Sub-Total (SR)	8739219	12467	582286	349155	429002	55
Bihar	269066	825	10192	4147	54017	7
Jharkhand	479684	728	3170	671	139468	16
Orissa	717338	572	10226	1369	134178	15
West Bengal	5805842	2601	143566	1727	468287	35
D.V.C.	725528	68	0	0	132000	11
A&N Island	0	0	35	276	0	0
Sikkim	0	0	8000	200	0	0
Sub-Total (ER)	7997458	4794	173189	8390	927950	84
Assam	509281	991	3180	569	0	0
Mizoram	1673	11	899	333	0	0
Meghalaya	70265	84	371	116	0	0
Nagaland	0	0	1043	717	0	0
Tripura	0	0	20920	241	0	0
Arunchal Pradesh	0	0	4011	133	0	0
Mizoram	0	0	3700	15	0	0
Sub-Total (NER)	581217	1086	34124	2124	0	0
Total (All India)	38783848	51574	1823470	503412	3147002	366

* Included under Industrial, M&TV.

Contd.

Table No.9.1 (Contd.)
**CLASSIFICATION OF CONSUMERS AND CONNECTED
LOAD(UTILITIES) STATEWISE AS ON 31.3.2003**

State/UTs	AGRICULTURE		PUBLIC WATER WORKS	
	Connected load (KW)	Consumers	Connected load (KW)	Consumers
Haryana	2250349	369875	118408	7559
Himachal Pradesh	51294	7532	105324	1966
Jammu & Kashmir	114375	3235	122860	2400
Punjab	3294615	857559	111564	5401
Rajasthan	4053880	622786	347417	23143
Uttar Pradesh	3554188	664143	164269	5152
Uttaranchal	112394	17618	31582	563
Chandigarh	1254	219	9554	335
Delhi	92782	23878	748357	135
Sub-Total (NR)	13525131	2566845	1759335	46654
Gujarat	4615488	609918	406233	27779
Madhya Pradesh	3401065	1167691	156657	15694
Chattisgarh	280922	87245	21542	3064
Maharashtra	7626776	2260479	471039	65026
Goa	23417	6827	77952	58
D. & N Haveli	1754	633	171	86
Daman & Diu	3749	1249	664	77
Sub-Total (WR)	15953171	4134042	1134258	111784
Andhra Pradesh	8054176	2252914	F	F
Karnataka	6775534	1395278	450728	59594
Kerala	712300	391078	80500	2080
Tamil Nadu	6314920	1676113	377770	86044
Pondicherry	52899	10418	7569	31
Lakshadweep	0	0	0	0
Sub-Total (SR)	21909829	5725801	916567	147749
Bihar	1085436	256000	39748	1210
Jharkhand	113053	7078	20075	187
Orissa	189808	43680	50968	1918
West Bengal	691904	139955	141654	12710
D.V.C.	0	0	0	0
A&N Island	1460	118	0	0
Sikkim	0	0	0	0
Sub-Total (ER)	2081661	446831	252445	16025
Assam	71611	2310	71453	1512
Manipur	811	60	5628	108
Meghalaya	338	25	10052	252
Nagaland	1080	108	1435	41
Tripura	82038	2197	22486	1218
Arunachal Pradesh	0	0	1224	43
Mizoram	0	0	1781	4
Sub-Total (NER)	155878	4700	114059	3178
Total (All India)	53625670	12878219	4176664	325390

F:- Included under Industrial(H.V.).

contd.

Table No.9.1(Contd.)
**CLASSIFICATION OF CONSUMERS AND CONNECTED
LOAD(UTILITIES) STATEWISE AS ON 31.3.2003**

State/UTs	MISCELLANEOUS		TOTAL	
	Connected load (KW)	Consumers	Connected load (KW)	Consumers
Haryana	55481	245	8375039	3620915
Himachal Pradesh	81914	124	2669415	1584578
Jammu & Kashmir	75321	8322	718942	678801
Punjab	188363	452	16322372	5543462
Rajasthan	188011	9271	12455343	5427496
Uttar Pradesh	51092	1898	17615366	8285247
Uttaranchal	0	0	1546332	868423
Chandigarh	9936	91	770637	193714
Delhi	0	0	7132802	2829038
Sub-Total (NR)	650118	20403	67606248	29031674
Gujarat	75513	1234	17947000	9466086
Madhya Pradesh	6315	1007	8737202	6541043
Chattisgarh	84330	16070	2094973	2043594
Maharashtra	220690	938	37651627	16533664
Goa	0	0	1180286	383924
D. & N. Haveli	355	8858	115115	27929
Daman & Diu	0	0	374040	48700
Sub-Total (WR)	387203	28107	68100243	35044940
Andhra Pradesh	589698	99938	22520155	15202231
Karnataka	19733	209	21462416	12114325
Kerala	45900	465	9409246	6997309
Tamil Nadu	205940	147747	28155471	15666585
Pondicherry	0	0	652105	239932
Lakshadweep	0	0	28471	18754
Sub-Total (SR)	861271	248359	82227864	50239136
Bihar	0	0	4925740	1928098
Jharkhand	0	0	2085674	627695
Orissa	119610	30904	3321100	1857301
West Bengal	27886	31	12048267	6184451
D.V.C.	5000	3	862558	84
A&N Island	2397	1248	56983	65196
Sikkim	0	0	41900	55299
Sub-Total (ER)	154893	32186	23342222	10718124
Assam	140192	13731	2065625	995962
Manipur	24050	323	139934	164002
Meghalaya	39479	2181	297782	177574
Nagaland	5545	155	55201	113159
Tripura	0	0	218355	249259
Arunachal Pradesh	1372	4007	65510	106714
Mizoram	156	102	179066	117262
Sub-Total (NER)	230794	20499	3143854	1923932
Total (All India)	2284279	349554	244420431	126957806

Table No. 9.2
ELECTRICITY CONSUMPTION PER CONSUMER
STATEWISE/CATEGORYWISE DURING 2002-03
(IN THOUSAND kWh)

<i>State/UTs</i>	<i>Domestic</i>	<i>Commer- cial</i>	<i>Industrial (L.V&M.V)</i>	<i>Industrial (H.V)</i>	<i>Public Lighting</i>
Haryana	0.84	1.69	13.91	517.95	34.19
Himachal Pradesh	0.52	1.11	38.81	0.00	18.40
Jammu & Kashmir	2.25	5.04	94.34	0.00	279.07
Punjab	1.22	1.71	19.78	1588.58	53.04
Rajasthan	0.76	1.48	10.51	1515.08	14.65
Uttar Pradesh	1.29	2.40	14.77	851.94	22.82
Uttaranchal	1.44	3.09	11.23	2283.90	98.24
Chandigarh	1.73	10.00	38.33	1384.72	25.31
Delhi	2.06	3.74	14.64	214.23	42.23
Sub-Total(NR)	1.19	2.27	16.90	1034.05	27.23
Gujarat	0.62	1.29	20.01	1744.76	9.98
Madhya Pradesh	0.71	1.13	7.68	1976.04	7.63
Chattisgarh	0.62	1.22	14.27	4066.87	6.60
Maharashtra	1.00	2.84	11.26	1548.51	9.32
Goa	1.10	1.88	6.80	1193.99	20.10
D. & N Haveli	2.53	8.51	163.51	2444.79	30.14
Daman & Diu	0.67	1.23	15.96	1317.89	21.28
Sub-Total(WR)	0.82	1.95	14.02	1694.84	9.19
Andhra Pradesh	0.62	1.52	10.44	1859.15	8.92
Karnataka	0.45	1.19	5.94	1505.18	10.47
Kerala	0.70	1.11	6.11	2657.93	17.72
Tamil Nadu	0.75	2.05	107.07	1852.18	1.68
Pondicherry	1.27	2.32	13.61	3383.37	13.56
Lakshadweep	0.86	1.40	1.72	0.00	1.22
Sub-Total (SR)	0.63	1.57	14.37	1854.25	4.98
Bihar	0.82	1.10	1.82	759.38	6.42
Jharkhand	0.97	3.33	10.14	7258.70	50.13
Orissa	1.59	2.69	11.48	4676.78	31.15
West Bengal	1.06	2.08	9.31	2186.27	100.76
A&N Island	1.13	2.12	9.44	0.00	21.59
Sikkim	0.66	3.07	42.16	0.00	72.60
Sub-Total (ER)	1.11	2.04	7.59	2977.14	35.45
Assam	0.84	1.88	13.30	528.23	28.24
Manipur	0.62	1.78	5.08	195.45	11.56
Meghalaya	1.18	3.78	7.47	3310.00	26.98
Nagaland	0.74	0.60	16.06	0.00	6.05
Tripura	0.65	1.36	15.70	0.00	29.05
Arunachal Pradesh	0.37	0.67	10.71	0.00	32.86
Mizoram	0.96	3.42	12.05	0.00	250.67
Sub-Total(NFR)	0.81	1.85	12.67	740.03	20.02
Total (All India)	0.86	1.90	14.05	1636.23	7.90

Cont.

Table No. 9.2 (Contd.)
ELECTRICITY CONSUMPTION PER CONSUMER
STATEWISE/CATEGORYWISE DURING 2002-03
(IN THOUSAND kWh)

<i>State/U.T.</i>	<i>Traction</i>	<i>Agricultural</i>	<i>Public Water Works</i>	<i>Miscellaneous</i>	<i>Total Average all categories</i>
Haryana	4606.13	13.96	35.65	635.47	3.24
Himachal Pradesh	0.00	2.60	127.16	1141.53	1.60
Jammu & Kashmir	0.00	33.70	112.05	65.73	4.90
Punjab	17235.00	6.78	42.66	1940.42	3.81
Rajasthan	28851.25	6.95	36.26	41.34	2.68
Uttar Pradesh	67552.22	7.26	112.13	1410.80	3.04
Uttaranchal	0.00	20.95	286.20	0.00	2.84
Chandigarh	0.00	10.50	0.00	955.93	4.15
Delhi	38456.00	62.41	2004.30	0.00	3.78
Sub-Total(NR)	14311.49	8.62	61.46	257.83	3.18
Gujarat	21526.32	21.26	25.74	112.41	3.64
Madhya Pradesh	39241.25	4.45	28.10	9.93	2.32
Chhattisgarh	23551.43	8.41	20.43	117.48	3.10
Maharashtra	31097.22	4.71	21.79	379.28	3.02
Goa	0.00	2.65	1724.14	0.00	3.59
D. & N Havelk	0.00	3.03	13.84	0.64	29.40
Daman & Diu	0.00	1.20	6.49	0.00	18.45
Sub-Total(WR)	30464.68	7.15	24.49	88.88	3.11
Andhra Pradesh	28131.58	5.73	0.00	3.49	2.06
Karnataka	20375.00	6.10	7.66	0.00	1.79
Kerala	9300.00	0.47	103.79	518.00	1.26
Tamil Nadu	42600.00	5.39	7.96	6.44	2.36
Pondicherry	0.00	9.37	651.94	0.00	6.45
Lakshadweep	0.00	0.00	0.00	0.00	0.97
Sub-Total(SR)	28768.18	5.37	9.32	7.33	2.00
Bihar	38124.29	3.88	146.90	0.00	1.87
Jharkhand	39731.88	7.08	243.74	0.00	11.02
Orissa	15901.33	3.93	66.61	9.91	3.66
West Bengal	22558.57	5.18	30.38	8506.45	2.71
A&N Island	0.00	0.00	0.00	10.95	1.66
Sikkim	0.00	0.00	0.00	0.00	1.32
Sub-Total(ER)	22983.93	4.34	46.06	19.74	3.20
Assam	0.00	22.32	40.32	17.19	1.97
Manipur	0.00	14.17	87.96	134.67	1.09
Meghalaya	0.00	14.00	142.62	64.00	4.02
Nagaland	0.00	0.00	68.54	125.68	1.12
Tripura	0.00	37.32	43.05	0.00	1.46
Arunachal Pradesh	0.00	0.00	81.40	7.18	0.74
Mizoram	0.00	0.00	3255.00	0.00	1.26
Sub-Total(NER)	0.00	28.67	56.06	23.26	1.85
Total (All India)	24035.27	6.56	24.27	30.58	2.67

Table No. 9.3
**CONNECTED LOAD PER CONSUMER STATEWISE/
 CATEGORYWISE AS ON 31.3.2003**

<i>State/U. T.</i>	<i>Domestic</i>	<i>Commer- cial</i>	<i>Industrial (L.V.&M.V)</i>	<i>Industrial (H.V)</i>	<i>Public Lighting</i>
Haryana	0.97	1.21	17.36	432.88	10.40
Himachal Pradesh	1.10	2.01	18.22	0.00	5.43
Jammu & Kashmir	0.33	0.72	13.52	420.00	146.67
Punjab	1.67	2.22	18.34	734.91	13.31
Rajasthan	0.76	1.62	14.02	825.13	21.49
Uttar Pradesh	1.36	2.11	10.45	314.04	6.02
Uttaranchal	1.26	2.22	10.93	805.19	30.51
Chandigarh	2.64	9.53	22.32	611.70	7.22
Delhi	1.19	3.37	8.19	858.19	65.75
Sub-Total(NR)	1.21	2.15	13.34	567.60	18.24
Gujarat	0.70	1.28	12.64	532.64	5.64
Madhya Pradesh	0.41	1.13	9.08	714.51	2.84
Chattisgarh	0.30	0.99	14.75	1432.96	1.92
Maharashtra	0.99	2.28	13.40	857.04	3.89
Goa	1.16	2.38	69.36	69.98	17.93
D. & N Haveli	0.57	1.49	29.88	305.29	0.76
Daman & Diu	1.09	3.81	45.42	317.91	10.00
Sub-Total(WR)	0.76	1.70	13.35	713.11	4.05
Andhra Pradesh	0.61	0.93	16.75	736.00	3.22
Karnataka	1.06	0.92	8.54	361.05	2.08
Kerala	1.02	1.13	10.57	698.43	10.17
Tamil Nadu	0.87	1.33	107.82	897.90	0.61
Pondicherry	0.76	1.50	16.43	1028.60	4.60
Lakshadweep	1.11	3.19	10.11	0.00	0.28
Sub-Total(SR)	0.86	1.12	18.40	700.99	1.67
Bihar	0.88	4.45	16.42	326.14	2.46
Jharkhand	0.89	8.67	34.69	1300.58	4.72
Orissa	0.99	1.47	12.27	1254.09	7.47
West Bengal	0.66	0.98	3.48	2289.89	81.97
A&N Island	0.68	1.05	12.01	0.00	0.13
Sikkim	0.37	1.30	39.22	0.00	40.00
Sub-Total(E.R)	0.77	1.94	8.81	1668.22	20.64
Assam	1.01	1.64	20.41	513.91	5.59
Manipur	0.53	1.43	7.02	151.91	2.70
Meghalaya	0.81	2.37	11.89	836.49	3.20
Nagaland	0.35	0.35	5.86	0.00	1.45
Tripura	0.64	1.07	16.25	0.00	86.80
Arunachal Pradesh	0.49	1.06	22.54	0.00	30.16
Mizoram	1.37	4.26	31.95	0.00	0.00
Sub-Total(NER)	0.86	1.55	16.75	535.19	16.07
Total (All India)	0.91	1.63	14.11	752.00	3.62

Contd.

Table No. 9.3 (Contd.)
CONNECTED LOAD PER CONSUMER STATEWISE/
CATEGORYWISE AS ON 31.3.2003

State/U.T.	Traction	Agricultural	Public Water Works	Miscellaneous	Total Average all categories
Haryana	1133.64	6.08	15.66	226.45	2.31
Himachal Pradesh	0.00	6.81	53.57	660.60	1.68
Jammu & Kashmir	0.00	35.36	51.19	9.05	1.06
Punjab	10582.00	3.84	20.66	416.73	2.94
Rajasthan	11937.50	6.51	15.01	20.28	2.29
Uttar Pradesh	27186.11	5.35	31.88	0.00	2.13
Uttarakhand	0.00	6.38	56.10	0.00	1.78
Chandigarh	0.00	5.73	28.52	0.00	3.98
Delhi	4870.00	3.89	5543.39	0.00	2.52
Sub-Total (NR)	4870.06	5.27	37.71	31.86	2.33
Gujarat	6020.74	7.57	14.62	61.19	1.90
Madhya Pradesh	15231.25	2.91	9.98	6.27	1.34
Chhattisgarh	9081.43	3.22	7.03	5.25	1.03
Maharashtra	9364.26	3.37	7.24	235.28	2.28
Goa	0.00	3.43	1344.00	0.00	3.07
D. & N Haveli	0.00	2.77	1.99	0.04	4.12
Daman & Diu	0.00	3.00	8.62	0.00	7.68
Sub-Total (WR)	10302.97	3.86	10.15	13.78	1.94
Andhra Pradesh	7842.11	3.58	0.00	5.90	1.48
Karnataka	7225.00	4.86	7.56	0.00	1.77
Kerala	4910.40	1.82	38.70	0.00	1.34
Tamil Nadu	9200.00	3.77	4.39	1.39	1.80
Pondicherry	0.00	5.08	244.16	0.00	2.72
Lakshadweep	0.00	0.00	0.00	0.00	1.52
Sub-Total (SR)	7800.04	3.83	6.20	3.47	1.64
Bihar	7716.71	4.24	32.85	0.00	2.55
Jharkhand	9727.83	15.97	107.35	1666.67	4.32
Orissa	8945.20	4.35	26.57	3.87	1.79
West Bengal	13323.34	4.97	11.15	899.55	1.99
A&N Island	0.00	12.37	0.00	1.92	0.87
Sikkim	0.00	0.00	0.00	0.00	0.76
Sub-Total (ER)	11047.02	4.66	15.75	4.81	2.18
Assam	0.00	31.00	47.26	11.67	2.07
Mizoram	0.00	13.52	52.11	74.46	0.85
Meghalaya	0.00	13.52	39.89	18.10	1.68
Nagaland	0.00	10.00	35.00	35.77	0.49
Tripura	0.00	37.34	18.46	11.68	0.88
Arunachal Pradesh	0.00	0.00	28.47	0.34	0.61
Mizoram	0.00	0.00	445.25	0.00	1.53
Sub-Total (NER)	0.00	33.17	35.89	11.26	1.63
Total (All India)	8598.37	4.16	12.84	6.53	1.93

Section - 10
Urban & Rural
Electrification

SECTION -10

URBAN & RURAL ELECTRIFICATION

High Priority continued to be attached to the implementation of rural electrification work. The programme included among other measures, maximisation of power generation, electrification of all villages as speedily as possible and the 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.

2626 villages were electrified during the year 2002-03 bringing the total number of villages electrified to 4,92,325 as on 31st March, 2003 which represents 83.8% of the total villages in the country. The States of Haryana, Punjab, Delhi, Gujarat, Maharashtra, Goa, Andhra Pradesh, Kerala, Tamil Nadu, Sikkim, Nagaland and the Union Territories of Chandigarh, Daman & Diu, Dadra & Nagar Haveli, Pondicherry, Lakshadweep Islands and Andaman & Nicobar Islands have already achieved 100% electrification of villages in their territories.

On the regional basis, the Southern Region tops with 99.6% of villages electrified followed by Western Region (97.7%), Eastern Region (76.7%) Northern Region (76.2%) and North Eastern Region

74.4%). All the towns in the country stand electrified.

The energisation of irrigation pumpsets also progressed satisfactorily. The total number of energized irrigation pumpsets/tube wells in the country was 1,37,92,427 as on 31st March, 2003. Maharashtra has maximum number of energised pump sets (24,17,075) followed by Andhra Pradesh (22,49,894). The average capacity and electricity consumption per pumpset is 3.89 KW and 6126 kWh respectively. The electricity consumption during 2002-03 in agriculture sector is second highest being 24.9% of total consumption of electricity of 3,39,898 Gwh in the country during 2002-03.

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

Table No. 10.1
TOWNS ELECTRIFIED AS ON 31.03.2003

Name of the State U. T.	Total no. of Towns as per (1991 Census)	Towns Electrified
Haryana	94	94
Himachal Pradesh	58	58
Jammu & Kashmir	58	58
Punjab	120	120
Rajasthan	222	222
Uttar Pradesh	753	753
Chandigarh	5	5
Delhi	32	32
Sub-Total (NR)	1342	1342
Gujarat	264	264
Madhya Pradesh	465	465
Maharashtra	336	336
Goa	31	31
Daman & Diu	2	2
D. & N Haveli	1	1
Sub-Total(WR)	1099	1099
Andhra Pradesh	264	264
Karnataka	306	306
Kerala	197	197
Tamil Nadu	469	469
Pondicherry	11	11
Lakshadweep	4	4
Sub-Total(SR)	1251	1251
Bihar	271	271
Orissa	124	124
West Bengal	382	382
A.& N. Islands	1	1
Sikkim	8	8
Sub-Total(ER)	786	786
Assam	93	93
Manipur	31	31
Meghalaya	12	12
Nagaland	9	9
Tripura	18	18
Arunachal Pradesh	10	10
Mizoram	22	22
Sub-Total (NER)	195	195
Total (All India)	4673	4673

Table No. 10.2
**VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS
 (1991 CENSUS) AND RURAL POPULATION BENEFITTED BY
 ELECTRICITY STATEWISE AS ON 31ST MARCH, 2003**

Name of the State/UTs	Total No. of Villages	Villages Electrified in Various Population Groups					
		Below 500	500 to 999	1000 to 1999	2000 to 4999	5000 to 9999	10,000 & Above
Haryana	6759	1083	3566	0	1702	364	44
Himachal Pradesh	16997	14677	1593	488	125	7	0
Jammu & Kashmir (+)	6477	Break up not available					
Punjab	12428	3839	3611	3130	1626	208	14
Rajasthan	37889	Break up not available					
Uttar Pradesh (+)	97122	Break up not available					
Uttaranchal	15681	Break up not available					
Chandigarh	25	5	2	6	8	3	1
Delhi	199	16	13	44	86	19	21
Sub-Total (NR)	193577						
Gujarat (+)	18028	3806	10065	0	3419	575	75
Madhya Pradesh	51806	24796	15133	7878	2394	195	4
Chattisgarh	19720	7578	6312	3530	838	60	3
Maharashtra (+)	40412	Break up not available					
Goa	360	92	64	78	94	31	1
Daman & Diu	24	3	6	6	6	2	1
D. & N. Haveli	71	12	15	17	25	1	1
Sub-Total (WR)	130421						
Andhra Pradesh (+)	26586	7071	4764	6433	6510	1474	313
Karnataka	27066	Break up not available					
Kerala	1384	6	3	18	98	255	1004
Tamil Nadu	15822	2064	2851	4625	4764	1247	271
Pondicherry	263	99	75	48	38	3	0
Lakshadweep	7	2	0	0	0	4	1
Sub-Total (SR)	71128						

contd.

Table No. 10.2 (Contd.)

**VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS
(1991 CENSUS) AND RURAL POPULATION BENEFITTED BY
ELECTRICITY STATEWISE AS ON 31ST MARCH, 2003**

Name of the State/U.T.	Total No. of Villages	Villages Electrified in Various Population Groups					
		Below 500	500 to 999	1000 to 1999	2000 to 4999	5000 to 9999	10,000 & Above
Bihar	67513		Break up	not available			
Jharkhand (a)(*)			Break up	not available			
Orissa	46989		Break up	not available			
West Bengal	37910		Break up	not available			
A.& N. Islands (*)	504	377	65	44	15	0	0
Sikkim (**) (\$)	447		Break up	not available			
Sub-Total (ER)	153363						
Assam	24685		Break up	not available			
Manipur	2182		Break up	not available			
Meghalaya	5484		Break up	not available			
Nagaland	1216	660	275	168	105	8	0
Tripura	855		Break up	not available			
Arunachal Pradesh	3649		Break up	not available			
Mizoram	698	429	180	60	19	3	0
Sub-Total (NER)	38769						
Total (All India)	587258						

(*) Fully electrified. Balance not feasible for electrification.

(\$) :- 42 forest villages not electrified.

(+) Achievement as per 1971 census. 1991 census not held.

(a) Since the States have been bifurcated, separate figures are not available.

(#) Cumulative achievement has been recast by UPPCL as per definition of village electrification notified by Govt. of India in October, 1997. As a result there has been a downward revision from the earlier figure of 77405 (Which was based on old definition) to 55230. The definition of village electrification as per the order of 28th Oct., 1997 is reproduced below: "A village will be deemed to be electrified if electricity is used in the inhabited locality, within the revenue boundary of the village for any purpose whatsoever".

Table No. 10.2 (Contd.)

**VILLAGES ELECTRIFIED IN VARIOUS POPULATION GROUPS
(1991 CENSUS) AND RURAL POPULATION BENEFITTED BY
ELECTRICITY STATEWISE AS ON 31ST MARCH, 2003**

<i>Name of the State/UT</i>	<i>Villages electrified</i>	<i>% age electrified</i>	<i>Villages electrified during 2002-03</i>
Haryana	6759	100.0	0
Himachal Pradesh	16890	99.4	0
Jammu & Kashmir (†)	6300	97.3	5
Punjab	12428	100.0	0
Rajasthan	36885	97.4	482
Uttar Pradesh (‡)	55230	56.9	279
Uttaranchal	12863	82.0	218
Chandigarh	25	100.0	0
Delhi	199	100.0	0
Sub-Total (NR)	147579	76.2	984
Gujarat (*)	17940	100.0	0
Madhya Pradesh	50400	97.3	94
Chattisgarh	18321	92.9	120
Maharashtra(*)	40351	100.0	0
Goa	360	100.0	0
Daman & Diu	24	100.0	0
D. & N Haveli	71	100.0	0
Sub-Total (WR)	127467	97.7	214
Andhra Pradesh(*)	26565	100.0	0
Karnataka	26767	98.9	3
Kerala	1384	100.0	0
Andhra Pradesh	15822	100.0	0
Pondicherry	263	100.0	0
Lakshadweep	-	100.0	0
Sub-Total (SR)	70808	99.6	3
Bihar	48048	71.2	94
Jharkhand (††)	0		0
Orissa	37307	79.4	271
West Bengal	31367	82.7	866
A & N Islands (**)	501	100.0	0
Sikkim (†††)	405	100.0	0
Sub-Total (ER)	117628	76.7	1231
Assam	19039	77.1	9
Mizoram	2007	92.0	6
Meghalaya	2757	50.3	177
Nagaland	1216	100.0	0
Tripura	817	95.6	2
Arunachal Pradesh	2316	63.5	0
Mizoram	691	99.0	0
Sub-Total (NER)	28843	74.4	194
Total (All India)	492325	83.8	2626

Table No. 10.3
**IRRIGATION PUMPSETS/TUBEWELLS ENERGISED/STATEWISE
AS ON 31ST MARCH, 2003**

<i>Name of the State/U.Ts.</i>	<i>AGRICULTURAL CONSUMPTION</i>		
	<i>No. of Pumpsets Energised</i>	<i>Quantum (GWh)</i>	<i>% to total consumption in the State</i>
Haryana	435537	5165.1	44.1
Himachal Pradesh	7389	19.6	0.8
Jammu & Kashmir	9123	109.0	3.3
Punjab	835651	5818.5	27.6
Rajasthan	678466	4326.1	29.7
Uttar Pradesh	835642	4820.9	19.1
Uttaranchal	17007	369.1	15.0
Chandigarh	623	2.3	0.3
Delhi	25883	1490.3	13.9
Sub-Total(NR)	2845321	22120.8	23.9
Gujarat	764564	12965.6	37.7
Madhya Pradesh	1320923	5196.1	34.2
Chhattisgarh	90519	734.1	11.6
Maharashtra	2417075	10641.5	21.3
Goa	7206	18.1	1.3
Daman & Diu	1006	1.9	0.2
D. & N. Haveli	953	1.5	0.2
Sub-Total(WR)	4602246	29558.8	27.1
Andhra Pradesh	2249894	12912.1	41.2
Karnataka	1402209	8507.9	39.2
Kerala	417640	184.0	2.1
Tamil Nadu	1793948	9030.0	24.4
Pondicherry	10418	97.6	6.3
Lakshadweep	0	0.0	0.0
Sub-Total (SR)	5874109	30731.6	30.6
Bihar	277085	993.6	27.5
Jharkhand	0	50.1	0.7
Orissa	74625	171.8	2.5
West Bengal	112322	724.6	4.3
A & N. Islands	1	0.0	0.0
Sikkim	0	0.0	0.0
Sub-Total(ER)	464033	1940.0	5.7
Assam	3675	51.6	2.6
Manipur	45	0.9	0.5
Meghalaya	65	0.4	0.0
Nagaland	176	0.0	0.0
Tripura	2757	82.0	22.6
Arunachal Pradesh	0	0.0	0.0
Mizoram	0	0.0	0.0
Sub-Total(NER)	6718	134.8	3.8
Total (All India)	13792427	84486.0	24.9

Table No. 10.3 (Contd.)
**IRRIGATION PUMPSETS/TUREWELLS ENERGISED-REGIONWISE/
 STATEWISE AS ON 31ST MARCH, 2003**

<i>Name of the State/U.Ts.</i>	<i>Agricultural Connected Load (KWh)</i>	<i>Average Capacity per Pumpset (KWh)</i>	<i>Av. consumption per Pumpset (KWh)</i>
Haryana	2250349	5.17	11859
Himachal Pradesh	51294	6.94	2646
Jammu & Kashmir	114375	12.54	11949
Punjab	3294615	3.94	6963
Rajasthan	4053880	5.98	6376
Uttar Pradesh	3554188	4.25	5769
Uttaranchal	112394	6.61	21705
Chandigarh	1254	2.01	3692
Delhi	92782	3.58	57578
Sub-Total (NR)	13525131	4.75	7774
Gujarat	4615488	6.04	16958
Madhya Pradesh	3401065	2.57	3934
Chhattisgarh	280922	3.10	8110
Maharashtra	7626776	3.16	4403
Goa	23417	3.25	2510
Daman & Diu	1754	1.74	1909
D. & N. Haveli	3749	3.93	1574
Sub-Total (WR)	15953171	3.47	6423
Andhra Pradesh	8054176	3.58	5739
Karnataka	6775534	4.83	6068
Kerala	712300	1.71	440
Tamil Nadu	6314920	3.52	5034
Pondicherry	52899	5.08	9371
Lakshadweep	0	0.00	0
Sub-Total (SR)	21909829	3.73	5232
Bihar	1085436	3.92	3586
Jharkhand	113053	0.00	0
Orissa	189808	2.54	2302
West Bengal	691904	6.16	6451
A & N Islands	1460	1460.00	0
Sikkim	0	0.00	0
Sub-Total (ER)	2081661	4.49	4181
Assam	71611	19.49	14027
Mizoram	811	18.02	18889
Meghalaya	338	12.48	5385
Nagaland	1080	1.92	0
Imphal	82038	0.39	29742
Arunachal Pradesh	0	0.00	0
Mizoram	0	0.00	0
Sub-Total (NER)	155878	23.20	20058
Total (All India)	53625670	3.89	6126

LIST OF PUBLICATIONS OF CEA DOCUMENTS

Electric Power Information Society which is established under aegis of CEA has published the under mentioned priced documents prepared by CEA containing important Data/Information in regard to the Power Sector in India.

S.No.	Name of the publication	Price (Rs.)	Postage (Rs.)
1.	Investment opportunities for private participation in Power Sector, Dec. 1997	300	90
2.	Supplement to Investment opportunities for private participation in Power Sector, Jan. 1999	300	60
3.	Average Rates for Electricity Supply & Electricity Duty in India, June, 1999	100	35
4.	Average Rates for Electricity Supply & Electricity Duty in India, Dec., 2001	200	50
5.	Average Rates for Electricity Supply & Electricity Duty in India, March, 2003	140	50
6.	Report on Small Hydro Potential of India	400	50
7.	Financial Performance Review of S.E.B.'s during 1991-92 to 1994-95	300	55
8.	CEA and Indian Power Sector	150	25
9.	Fifteenth Electric Power Survey of India	300	50
10.	Sixteenth Electric Power Survey of India (English/Hindi Version)	500	70
11.	Electric Supply Industry – Salient Data 1994-1995	150	25
12.	Electric Supply Industry – Salient Data 1995-1996	150	25
13.	Electric Supply Industry – Salient Data 1999-2000	260	50

S.No.	Name of the publication	Price (Rs.)	Postage (Rs.)
14.	Power Supply Industry in India – Highlights, August, 196	100	35
15.	Power Supply Industry in India – Highlights, 1999-2000	100	35
16.	Public Electricity Supply – All India Statistics – GENERAL REVIEW 1995-96	300	80
17.	Public Electricity Supply – All India Statistics – GENERAL REVIEW 1996-97	300	80
18.	Public Electricity Supply – All India Statistics – GENERAL REVIEW 1997-98	600	80
19.	All India Electricity Statistics – General Review 1998-99	600	80
20.	All India Electricity Statistics – General Review 1999-2000	600	80
21.	All India Electricity Statistics – General Review 2000-01	600	80
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24.	Report on Perspective Plan for Generating Capacity Addition- Integrated Operation of Regional Power Grids (With System Diversity) (Free run studies using EGEAS Model)	500	70
25.	Civil Cost Appraisal of Hydro Projects	50	20
26.	Performance Review of Thermal Power Stations, 1994-95	400	60
27.	Performance Review of Thermal Power Stations, 1995-96	300	60
28.	Performance Review of Thermal Power Stations, 1997-98	800	80
29.	Fly Ash Utilisation	50	20
30.	Guidelines for R&M of Thermal Power Stations (English Hindi Version)	400	50
31.	Performance Review of Hydro Power Stations, 1993-94	450	60
32.	Performance Review of Hydro Power Stations, 1994-95	350	70
33.	Performance Review of Hydro Power Stations, 1995-96	300	60

S.No.	Name of the publication	Price (Rs.)	Postage (Rs.)
34.	Transmission Tower Foundation	50	20
35.	Guidelines for Formulation of Project Reports for Power Projects (Hydro, Thermal & Transmission) Oct., 2002	615	90
36.	Hydro Ranking Study Publications – I to VII Volumes (General Report, Indus Basin, Ganga Basin, Brahmaputra Basin, East Flowing River System, West Flowing River System, and Central Indian River system)	300	50

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(By Order)

Indian Electricity Sector Review

Central Electricity Authority, on the advise of Ministry of Power, Govt. of India has set a goal of connecting all the five regions of the country through National Grid by 2012. This is very much necessary for ensuring reliable and secure power to all the people of India. The inter-regional transmission capacity, which is presently 8000 MW, would increase to 30,000 MW by 2012. This would enable transmitting of power from surplus regions to any power deficient areas of the country.

The Hon'ble Prime Minister Shri Atal Bihari Vajpayee dedicated to the nation on 9th February 2004, the 1000 MW Simhadri Thermal Power Station of NHPC located in of Andhra Pradesh. The second major power project dedicated to the nation was 300 MW Hydro Electric power station at Chamara. The project has been constructed by NHPC in Himachal Pradesh. The project will generate 1500 Million Units of power annually and is run of the river scheme on river Ravi. The third project dedicated to the Nation was North Eastern Regional Unified Load Despatch and communication system commissioned by Power Grid at a cost of Rs. 214 crores.

The year 2003 saw a new light in the Indian Electricity sector when long awaited Electricity Act 2003 was enacted on 26th May 2003. The Act provided integrated measures conducive to development of electricity industry, promoting competition therein, protecting interest of consumers, etc. through de-licensing of generation, licensing for electricity transmission, distribution & trading, rationalization of tariff, availability based tariff, non-discriminatory open access.

The increasing demand of electricity and fossil fuel substantially increased due to preference for commercial energy. By adopting energy efficiency measures, as envisaged in the Energy Conservation Act, 2001 energy consumption can be reduced to a large extent. Energy efficiency will reduce the need to create new capacity requiring mobilization of huge resources as well as result in substantial environmental benefits in terms of reduced green house gas emissions.

The Accelerated Electrification Programme of one-lakh villages and 50 lakh households is set to usher a new life across rural India. In last 5 years, 13 lakh households were given new electricity connections and in the coming 2 years, 100 lakhs new households are targeted. To achieve the goal of providing electricity to all by 2012, Prime Minister of India also launched a 50,000 MW Hydro initiative, in May 2003.