

अखिल भारतीय विद्युत सांख्यिकी
ALL INDIA ELECTRICITY STATISTICS
सामान्य पुनरवलोकन १९९९-२०००
GENERAL REVIEW 1999-2000

भारत सरकार

नई दिल्ली

CENTRAL ELECTRICITY AUTHORITY

MINISTRY OF POWER

GOVERNMENT OF INDIA

NEW DELHI

(In fulfillment of CEA's obligation under Section 3 (1) (iv) of Electricity (Supply) Act 1948)

(विद्युत (आपूर्ति) अधिनियम 1948 की धारा 3(1) (iv) के तहत के. वि. प्रा. के दायित्व की पूर्णता के लिए संतुष्टि)

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प्राक्कथन

केन्द्रीय विद्युत प्राधिकरण (के.वि.प्रा.) की स्थापना वर्ष 1951 में विद्युत (आपूर्ति) अधिनियम, 1948 के तहत एक अंश-कालिक निकाय के रूप में की गई थी तथा वर्ष 1975 में इसे एक पूर्ण-कालिक निकाय बना दिया गया था। के.वि.प्रा. देश में विद्युत क्षेत्र के समग्र विकास के लिए जिम्मेदार है तथा इस दिशा में के.वि.प्रा. उत्पादन की व्यापक प्रणाली, संचारण एवं वितरण सुविधाएं जो देश के एक छोर से दूसरे छोर तक फैली हैं, की आयोजना, विकास एवं संशोधन में महत्वपूर्ण भूमिका अदा कर रहा है। के.वि.प्रा. उत्पादन एवं संचारण आयोजना अनुक्रिया, राष्ट्रीय योजनाओं को तैयार करना, ताप विद्युत, जल विद्युत एवं संचारण परियोजनाओं का मूल्यांकन करना, दीर्घ-कालिक समय-संरचना की लिए उत्पादन तथा संचारण परियोजनाओं की आवश्यकता को अभिज्ञात करना, जैसे अनेक कर्तव्यों का निर्वहन कर रहा है। के.वि.प्रा. द्वारा विकसित विद्युत योजनाओं को भार तथा ऊर्जा प्रक्षेपणों में परिवर्तनों/संशोधनों के साथ-साथ नए परियोजना स्थलों की उपलब्धता/अभिज्ञान को ध्यान में रखते हुए आवधिक रूप में अद्यतन बनाया जाता है।

के.वि.प्रा. सामान्य पुनरवलोकन का नियमित रूप से प्रकाशन कर रहा है। यह के.वि.प्रा. का एक वार्षिक प्रकाशन है जो भारतीय विद्युत उद्योग के महत्वपूर्ण विद्युत आंकड़े देता है। यह प्रकाशन प्रतिष्ठापित उत्पादन क्षमता, ऊर्जा उत्पादन, उद्योगों में केप्टिव संयंत्रों, संचारण एवं वितरण, विद्युत की खपत प्रवृत्ति, विद्युतीकृत गांव तथा ऊर्जित पम्प सेटों आदि पर सांख्यिकी सूचना प्रदान करता है। यह आधारभूत डाटा सभी राज्य विद्युत बोर्डों, सहकारी सोसाइटियों, नगर अनुज्ञप्तिधारकों के साथ-साथ केप्टिव संयंत्र वाले उद्योगों से एकत्रित किया जाता है। वर्ष 1999-2000 के लिए सामान्य पुनरवलोकन को के.वि.प्रा. द्वारा विभिन्न स्रोतों से प्राप्त नवीनतम डाटा के आधार पर अंतिम रूप दिया गया है।

मैं सभी जन-उपयोगी सेवा संस्थाओं (यूटीलिटीज) को के.वि.प्रा. को डाटा उपलब्ध करवाने के लिए धन्यवाद देता हूँ। मैं विभिन्न यूटीलिटीजों से इस सुअवसर पर अनुरोध करता हूँ कि वे डाटा/सूचना त्वरित रूप में तथा समय-बद्ध तरीके से प्रस्तुत करें जिससे हम सामान्य पुनरवलोकन का अगला अंक और जल्दी समेकित करने में सक्षम हों।

मुझे विश्वास है कि सदस्य (योजना) के नेतृत्व में समेकित सामान्य पुनरवलोकन 1999-2000, देश के विद्युत क्षेत्र के विकास से सम्बद्ध व्यक्तियों के लिए बहुत अधिक उपयोगी होगा।

नई दिल्ली

दिनांक 19 दिसम्बर, 2002

हरबंस लाल बजाज

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FOREWORD

Central Electricity Authority (CEA) was established under the Electricity (Supply) Act, 1948 as a part-time body in 1951, and it was made a full-time body in 1975. CEA is responsible for overall development of the power sector in the country and in this direction CEA has been singularly instrumental in planning, developing and nurturing the mammoth system of generation, transmission and distribution facilities that span the length and breadth of the country. CEA has been carrying out a number of functions such as long term generation and transmission planning exercise, preparation of National Power Plans, appraisal of thermal, hydro and transmission projects. The power plans developed by CEA are periodically updated to take care of the changes/revisions in the load and energy projections as well as availability/identification of new project locations.

The planning exercises carried out by CEA are based on the inputs made available by Data Management and Load Forecasting division of CEA. In this direction, CEA has been publishing regularly the Public Electricity Supply-All India Statistics-General Review.

This is a yearly publication of the CEA which gives vital electricity statistics of Indian power sector. The publication gives statistics on installed generating capacity, energy production, captive plants in industries, transmission and distribution, consumption pattern of power, villages electrified, pump sets energized, etc. The basic data is collected from all State Electricity Boards, Cooperative Societies, Municipal Licensees as well as from Industries having captive power plants. The General Review for the year 1999-2000 has been finalized by CEA based on the updated data received from various sources.

Ways and means are being explored for collection of data/information from the utilities in a speedy and time bound manner and cooperation from all concerned authorities is gratefully acknowledged and it is hoped that we would be able to advance the compilation work of the publication of the next issue of this document.

I am sure that General Review of 1999-2000, compiled under the guidance of Shri T.G. Srinivasan, Member (Economic & Commercial and Planning) will be of great use for all those who are involved in the development of Power Sector of the country.

This General Review is in fulfillment of CEA's obligation under Section 3(1)(iv) of the Electricity (Supply) Act, 1948.


(H.L.BAJAJ)

Dated the 11th December, 2002
New Delhi.



टी०जी० श्रीनिवासन

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प्रस्तावना

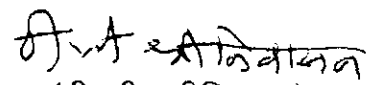
लगभग 50 वर्ष पूर्व आरंभ हुए योजना युग के साथ ही भारत में विद्युत शक्ति क्षेत्र ने तीव्र गति से प्रगति की है। प्रतिष्ठापित क्षमता तथा निर्मित संचारण लाइनों की लंबाई दोनों में ही विद्युत क्षेत्र का विकास महत्वपूर्ण है। यद्यपि, तीव्र विकास के साथ ही वृद्धि में कदम मिलाना मुख्यतः संसाधनों के अवरोधों के कारण संभव नहीं हो सका। देश में विद्युत क्षेत्र के विकास में के०वि०प्रा० का योगदान जिसमें कि प्रति वष 7% से 8% तक सकल दर से वृद्धि हुई है, वर्षों से महत्वपूर्ण रहा है। के०वि०प्रा० ने देश की विद्युत जनपयोगिताओं को विभिन्न क्षेत्रों में जैसे कि नवीन प्रौद्योगिकी का प्रवेश, उत्पादन संचारण योजना परामर्श, संचारण प्रणाली विकास आदि में मार्गदर्शन किया।

सूचना ही शक्ति है, फिर विद्युत संबंधी सूचना आधार स्तर तक नहीं पहुँचती है। विद्युत क्षेत्र से संबंधित वृहद सत्यापित आंकड़ों का समेकन, विश्लेषण तथा प्रकाशन एक वृहद कार्य है। इन अवरोधों में भी के०वि०प्रा० अपने कर्तव्य का निर्वाह कर रहा है तथा अनेक रिपोर्टों, दैनिक, मासिक तथा वार्षिक आधार पर विश्लेषणों को प्रकाशित कर रहा है। चूंकि संशोधित प्रणाली में अधिकांश आंकड़ों का स्रोत जनपयोगिताओं/कारपोरेशन या संबंधित संगठन है अतः उनके प्रणाली में भी उर्निधारण की आवश्यकता है। पावरनेट के माध्यम से आंकड़े प्राप्त करने के लिए एक समग्र स्कीम केन्द्रीय विद्युत प्राधिकरण के सक्रिय विचाराधीन है तथा इस दिशा में संबंधित अभिकरणों से विचार विमर्श किया जा रहा है।

विद्युत क्षेत्र में विभिन्न जनपयोगिताओं द्वारा प्रस्तुत सूचना/आंकड़ों के आधार पर केन्द्रीय विद्युत प्राधिकरण प्रतिवर्ष सामान्य पुर्नवालोकन प्रकाशित करता है, तथा वर्तमान वर्ष 1999-2000 के लिए सामान्य पुर्नवालोकन इस सीरिज के क्रम में है।

जिन जनपयोगिताओं तथा गैर-जनपयोगिताओं ने आंकड़े प्रस्तुत नहीं किए हैं वहाँ भारतीय छवि को पूरा करने के लिए तर्कसम्मत अनुमान लगाए गए हैं तथा प्रकाशन के प्रत्येक भाग में इनका उल्लेख किया गया है।

यह आंकड़े/सूचना श्री वी०बी० गुप्ता, मुख्य अभियन्ता के सक्रिय नेतृत्व तथा श्री ऐ०के० शर्मा, निर्देशक, के दिशा निर्देशन में छान-बीन तथा विशेषण के पश्चात समेकित की गई है।


(टी०जी० श्रीनिवासन)

दिनांक-11 दिसम्बर, 2002

नई दिल्ली - 110 066



दूरभाष (का०)

Telephone (O)

अध्यक्ष

तथा पेदन अतिरिक्त सचिव भारत सरकार

केन्द्रीय विद्युत प्राधिकरण

सेवा भवन, रामाकृष्णा पुरम

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PREFACE

The Electric Power Sector in India has made rapid progress since the beginning of the planning era about 50 years ago. Both in terms of installed capacity and length of transmission lines constructed, the growth of the power sector has been significant. Notwithstanding the above, it has not been possible to keep pace with the rapid growth in load increase, primarily due to resources constraints. The contribution of CEA to the development of the power sector in the country which has grown at a compound rate of 7% to 8% per annum, has been significant over the years. CEA has guided the power utilities in the country in various sectors such as induction of new technologies, generation & transmission planning, consultancy, transmission system development etc.

Information is power, yet information on power does not percolate to the grassroot level. Collection, analysis and publication of enormous authentic data pertaining to power sector is a gigantic task. Within the system constraints, CEA has been discharging this duty and bringing out many reports and analysis on daily, monthly and yearly basis. As the sources of bulk of the data are the utilities/corporations or the respective organizations in the reformed setup, there is a need for upgradation of their system. A comprehensive scheme for obtaining data through POWER-NET is under the active consideration of Central Electricity Authority and discussions in this direction are being held with the concerned agencies.

Central Electricity Authority has been publishing "Public Electricity Supply-All India Statistics-General Review" every year on the basis of information/data furnished by various utilities/non-utilities in the power sector and the present General Review for the year 1999-2000 is in continuation of the series. Most of the utilities and non-utilities have furnished the data to the Authority. Wherever the data were not furnished by some of the utilities, reasonable estimates have been made to complete All India picture of the salient features covered in the publication and mention of the same has been made under each Section of the publication.

The data information has been compiled after sifting and analyzing the same in the Data Management Division of CEA under the expert guidance of Shri Vishnu.B.Gupta Chief Engineer and supervision of Sh. A.K.Sharma, Director.

(T.G.SRINIVASAN)

Dated the 11th December, 2002.

परिचय

सार्वजनिक विद्युत आपूर्ति-अखिल भारतीय सांख्यिकी के सम्बन्ध में सामान्य पुर्नवालोकेन केन्द्रीय विद्युत 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 १९९९-२००० के दौरान देश में प्रत्येक राज्य तथा संघशासित क्षेत्रों की विद्युत आपूर्ति उद्योग द्वारा प्राप्त की गई प्रगति के विभिन्न पक्ष दर्शाता है। प्रचालन आँकड़े जैसे ईंधन खपत, शीर्ष मांग तथा मानव बल भी विद्युत क्षेत्र में पुर्नवालोकेन में सम्मिलित है।

३१ मार्च २००० तक विद्युत विकास का एक संक्षिप्त 'उपरी अवलोकेन' इस दस्तावेज के प्रारम्भ में दिया गया है। प्रतिष्ठापित क्षमता की वर्षवार, योजनावार वृद्धि, उत्पादन खपत, नमूना, ग्राम विद्युतीकरण, प्रतिव्यक्ति खपत इत्यादि ३१ मार्च २००० तक तिथिपर्यन्त किए गए हैं। वर्ष १९९९-२००० के दौरान विद्युत क्षेत्र द्वारा की गई प्रगति की मुख्य विशेषताएं नीचे दी गई हैं।

- ◆ उत्पादन क्षमता में अभिवृद्धि ५८३६ में (४५९१ में वा जनउपयोगिताओं में तथा १२४५ में वा गैर-जनउपयोगिताओं) की है। देश में संचयी प्रतिष्ठापित क्षमता ११३२२० में वा तक बढ़ गई है। पिछले वर्ष की तुलना में प्रतिशतता वृद्धि, सार्वजनिक जनउपयोगिताओं के मामले में ४.९२ प्रतिशत तथा गैर जनउपयोगिताओं के मामले में ८.८४ प्रतिशत थी।
- ◆ पिछले वर्ष की तुलना में वर्ष १९९९-२००० के दौरान विद्युत जनउपयोगिताओं में विद्युत उत्पादन में बढ़ोतरी ७.२५ प्रतिशत थी। भाप शक्ति संयन्त्र में ७.६१ प्रतिशत की वृद्धि हुई जबकि विद्युत संयन्त्रों से उत्पादन में २.६ प्रतिशत की कमी हुई।
- ◆ पिछले वर्ष के दौरान ४.३८ प्रतिशत की तुलना में वर्ष के दौरान सार्वजनिक जनउपयोगिताओं द्वारा विभिन्न उपभोक्ताओं को विद्युत बेचने में १.०० प्रतिशत की वृद्धि हुई। पिछले वर्ष के दौरान ३३.९३ औद्योगिक क्षेत्र में उर्जा खपत हिस्सा ३४.१२ प्रतिशत था।
- ◆ पिछले वर्ष के दौरान ४.०२ मिलियन नए उपभोक्ताओं की अभिवृद्धि हुई जिससे सभी श्रेणियों के उपभोक्ताओं की कुल संख्या १११.२६ मिलियन हो गई। वर्ष के अंत में कुल संयुक्त भार २१४८१४ मेगावाट था प्रतिव्यक्ति बिजली की खपत पिछले वर्ष की तुलना में ३६०.१ किलो वाट से वर्ष के दौरान ३६४.४५ किलोवाट प्रतिघंटा तक बढ़ गई।
- ◆ वर्ष के दौरान ग्रामीण क्षेत्रों के विद्युतीकरण पर निरन्तर महत्व दिया गया है। १९९१ की जनगणना के आधार देश से ३१-३-२०० तक कुल विद्युतीकृत गांवों की संख्या ५०६९१६ थी जोकि कुल गांवों का ८६.३० प्रतिशत थी।

प्रसारण तथा वितरण तन्त्र की नई प्रसारण एवम् वितरण लाईनाओं का जोड़ने में आगे वृद्धि हुई थी। पिछले वर्ष के अंत में ५७१०३९६ सर्किट कि०मी० से ३१-३-२००० को प्रसारण एवम् वितरण लाईनाओं की लम्बाई ५७२८२७७ सर्किट कि०मी० बढ़ गई।

नई दिल्ली

दिनांक ११/१२/२००२

विष्णु भगवान गुप्ता

(विष्णु भगवान गुप्ता)

मुख्य अभियंता

INTRODUCTION

The **General Review** in respect of "**All India Electricity Statistics**" is being published yearly by the Central Electricity Authority. This publication presents salient features of the progress and development of electricity supply industry in the country. It is divided into 10 Sections presenting various aspects of the progress achieved by the electricity supply industry in each of the States and Union Territories in the country during the year 1999-2000. The operating data like fuel consumption, peak demand and man-power engaged in the Power Sector are also included in the review.

A brief «Overview» of the power development upto 31st March, 2000 is given in the beginning of the document. Year-wise / plan-wise growth of installed capacity, generation, consumption pattern, rural electrification, per capita consumption etc. have been updated upto 31.3.2000. Salient features of progress made by Power Sector during 1999-2000 are as follows:

The addition to generating capacity is 5836 MW (4591 MW in utilities and 1245 MW in non-utilities) raising the cumulative installed capacity in the country to 113220 MW. Percentage growth over the previous year was 4.92% in the case of Public Utilities and 8.84% in the case of Non-Utilities.

The increase in electricity generation in utilities during 1999-2000 was 7.25% over that of previous year. Steam power plants registered an increase in generation of 7.61%, while generation from hydro plants decreased by 2.61%.

There has been increase of 1.00% in electricity sold to various consumers by Public Utilities during the year as compared to 4.38% during the previous year. The share of energy consumed by the Industrial Sector was 34.12% as compared to 33.93% during the last year.

There has been an addition of 4.02 millions new consumers during the year, increasing the total number of consumers of all categories to 111.26 million. The total connected load at the end of the year was 214814 MW. The per capita consumption of electricity during the year increased to 364.45 Kwh from 360.01 Kwh as compared to the previous year.

The emphasis on electrification of rural areas continued during the year. The total number of villages electrified as on 31.3.2000 was 506916 representing 86.30% of the total villages in the country based on 1991 Census.

The transmission and distribution network was further augmented by adding new T&D lines. The total length of T&D lines increased to 5728277 Ckt. Kms. as on 31.3.2000 from 5710396 Ckt. Kms. at the end of the previous year.



(Vishnu Bhagwan Gupta)
Chief Engineer

आभारोक्ति

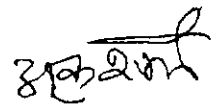
वर्ष १९९९-२००० के लिए 'सामान्य पुर्नवलोकन' श्री टी०जी० श्रीनिवासन, सदस्य (आर्थिक एवं वाणिज्य और योजना स्कन्ध) तथा श्री वी०बी० गुप्ता, मुख्य अभियंता, (आंकड़ा प्रबन्धन एवं भार पूर्वानुमान प्रभाग) के सक्रिय नेतृत्व में समेकित किया गया है। उनका सतत् सहयोग तथा मार्गदर्शन इस रिपोर्ट को कम से कम समय में प्रकाशित करने में एक सतत् प्रेरणा स्रोत रहा है। हम राज्य विद्युत बोर्डों एवम् निगम, सार्वजनिक उपक्रमों के अध्यक्षों एवं प्रबन्ध निर्देशकों, अनुज्ञप्तिधरियों के अध्यक्षों के, उनके राज्यों/केन्द्र शासित प्रदेशों में विद्युत क्षेत्र के सम्बन्ध में आंकड़े प्रस्तुत करने के लिए बहुत आभारी हैं। हालांकि, पुराने राज्य विद्युत बोर्डों के उत्पादन, संचारण तथा वितरण कम्पनियों में पुर्नगठन के कारण आंकड़ों के समेकन में काफी समस्याओं का सामना करना पड़ा, फिर भी सभी ने समय पर आंकड़े प्रस्तुत करने में सहयोग किया है।

हम श्री आर० राय०, उप निर्देशक, उत्तरी क्षेत्रीय विद्युत सर्वेक्षण कार्यालय, श्री के० रामामूर्ति, उप निर्देशक, पश्चिमी क्षेत्रीय विद्युत सर्वेक्षण कार्यालय, श्री टी०आर० रेड्डी, उप निर्देशक, दक्षिणी क्षेत्रीय विद्युत सर्वेक्षण कार्यालय, के आभारी हैं, तथा श्री एस०के० भट्टाचार्य, उप निर्देशक, पूर्वी क्षेत्रीय विद्युत सर्वेक्षण कार्यालय, के आभारी हैं जिन्होंने ने राज्य विद्युत बोर्डों एवम् अन्य विद्युत जनउपयोगिताओं से सम्पर्क करके एवम् उनके साथ विचार-विमर्श करने के उपरान्त हमें कैप्टिव पावर के आंकड़े उपलब्ध कराने में प्रयास किए हैं। श्री एस०एन० तोबरिया, निर्देशक, तथा उनके अभियंताओं को विशेष धन्यवाद देते हैं, जिन्होंने देश में कैप्टिव विद्युत उत्पादन पर अध्याय तैयार किया है। केन्द्रीय विद्युत प्राधिकरण के श्री के०के० सिंह, श्री जी०डी० ढींगरा, श्री डी०पी० राठी उप निर्देशक, एस०सी० दास, श्री एस०सी० मित्तल तथा श्री के०के० पुरी सहायक निर्देशकों के आंकड़ों के समेकन तथा विश्लेषण प्रशंसनीय है। श्री आर०एस० भाटिया तथा श्री पी०के० होम, अतिरिक्त सहायक निर्देशकों (वाज्यिक), को 'डी बे' प्रोग्रामिंग के माध्यम से कम्प्यूटर पर आंकड़े देने के विशेष प्रयत्नों के लिए धन्यवाद करते हैं। श्री डी०सी० डबराल, श्री अशोक कुमार सांख्यिकी सहायक, श्री राजेश कुमार व्यवसायिक सहायक तथा श्री आर०के० अरोड़ा, वैयक्तिक सहायक को उनके विशेष प्रयत्नों के द्वारा 'सामान्य पुर्नवलोकन' को प्रकाशित करने के लिए धन्यवाद देते हैं।

अंत में हम श्री गुरदयाल सिंह, सचिव, केन्द्रीय विद्युत प्राधिकरण तथा विद्युत शक्ति सूचना समिति के द्वारा हमारे प्रकाशन 'सामान्य पुर्नवलोकन १९९९-२०००' को प्रकाशित कराने के लिए भी बहुत आभारी हैं।

नई दिल्ली - ११००६६

दिनांक ११-१२-२००२



(ए० के० शर्मा)

निर्देशक

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

POWER DEVELOPMENT IN THE COUNTRY

AN OVERVIEW

Power Development in India commenced at the end of 19th Century with the Commissioning of Electricity Supply in Darjeeling during 1897, followed by Commissioning of Hydel Power station at Sivasamudram in Karnataka during 1902. In the pre-independence era, the power supply was mainly in the hands of Private Sector that too restricted to the urban areas. After independence, the Government of India felt the need for restructuring electricity supply industry with a view to rationalise its growth all over the country. The Electricity (Supply) Act was enacted in 1948. With the formation of State Electricity Boards in various parts of the country in the early 50s, and with the advent of the Five Year Plans, a significant step was taken in bringing about systematic growth of power supply industry all over the country. A number of multi-purpose projects came into being and with the setting up of Thermal, Hydro and Nuclear Power Stations, Power Generation started increasing significantly. The Central participation in the expansion of Power Generation Program 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 Program. The growth of the power sector in the country from 1950 to the end of 1999-2000 has been brought out in the present general review 1999-2000

I. INSTALLED CAPACITY

The Installed Capacity which was only 1713 MW as on 31.12.1950 rose to 85795 MW at the end of VIIIth Plan period, constituting 61010 MW thermal i.e. 71.12%, 21658 MW hydel i.e. 25.24% , Nuclear 2225 MW i.e. 2.59% and wind 902.01MW i.e. 1.05% of the total installed capacity. The gross addition was 16422.5 MW during 1992-97 against the target of 30537.7 MW. Besides this there are some plants retired/ uprated and capacity added from small diesel sets, mini hydro and wind in each year of the Plan. Summary is given below:

TYPE	HYDRO	THERMAL	NUCLEAR	TOTAL
Major Plants	2427.65	13554.82	440.00	16422.47
Mini Hydro/Diesel/ Wind.Addition	36.18	912.96	-	949.14
Retirement/ Deletion	(-) 0.06	(-) 531.37	-	(-)531.43
Reporting difference/ Uprrating.	-	(-) 110.00	-	(-) 110.00
Net Addition	2463.77	13826.41	440.00	16730.18

The total Installed Capacity rose to 97885 MW at the end of March, 2000.

II. GROSS GENERATION

The gross electricity generation which was 5,107 Gwh during the year ending 31.12.1950 rose to 395889 Gwh during the year 1996-97 (last year of the VIIIth plan). The contribution from thermal capacity is 317042 Gwh i.e.80.09%, from hydel 68901 Gwh i.e.17.40% from Nuclear 9071 Gwh i.e.2.29%and from Wind Capacity 875 Gwh i.e. 0.22% of the total generation. The total generation rose to 481055 Gwh in 1999-00 constituting thermal 385605 Gwh i.e.80.16%, hydel 80755 Gwh i.e. 16.79%, nuclear 13249 Gwh i.e. 2.75% and wind 1446 Gwh i.e. 0.30% of the total generation.

III. CONSUMPTION

The consumption of 4157 Gwh as on 31.12.1950 rose to 280206 Gwh during the year 1996-97 the last year of the VIII Plan. It is further increased to 312841 Gwh during the year 1999-00 (the third year of the IXth Plan). There has been substantial growth in the consumption of electricity during every plan. The industrial and agricultural categories constitute the major consumers of electricity. The percentage consumption in the industrial sector has gone up to 34.12% during the year 1999-00 from 33.93% during the year 1998-99. However in the agricultural sector the percentage consumption has come down to 29.07% during the year 1999-00 as compared to 31.38% during the year 1998-99. Similarly there is a rising trend in the domestic sector from 20.98% to 22.54% in the same period.

IV. RURAL ELECTRIFICATION

The total number of villages electrified as on 31.3.1951 was 3061 which constitute 0.54% of the total villages existing at that time. The total number of villages electrified at the end of VIII Plan i.e. 31.3.1997 was 498836 based on 1991 census. It further rose to 506916 as on 31-3-00 based on 1991 census representing 86.30% of the total villages electrified.

V. TRANSMISSION & DISTRIBUTION LINES

The length of transmission and distribution lines which was 29271 Ckt. Kms. as on 31.12.1950 rose to 51,40,993 Ckt. Kms. as on 31st March 1997 (end of VIII Plan). It further rose to 57,28,277 Ckt. Kms. as on 31.3.2000.

VI. PER CAPITA CONSUMPTION

An important index of Power development is the per capita consumption of electricity which reflects the quantity of energy utilised by each habitat. The per capita consumption which was 15.6 Kwh during 1950 increased to 283.10 Kwh during the years 1996-97 the last year of VIIIth Plan. This went up further to 364.45 Kwh during the year 1999-00.

TABLE NO.1
PLANWISE GROWTH OF POWER SECTOR IN THE COUNTRY-UTILITIES ONLY

	Installed Capacity (MW)	Gross Generation (GWH) (A)	Consumption (GWH) (A)	No. of villages electrified	Length of T & D Lines (CKt. Kms.)	Per capita consumption (Utilities+ Non-Utilities) (KWH) (A)
31.12.50	1713	5107	4157	\$ 3061	@ 29271	15.55
1st Plan ending on *31.03.56	2695 (57.3)	8592 (68.2)	7111 (71.1)	7294 (138.3)	@ 66421 (126.9)	26.4 (69.8)
IIInd Plan ending on **31.03.61	4653 (72.7)	16937 (97.1)	13841 (94.6)	21754 (198.2)	@ 157887 (137.7)	37.9 (43.6)
IIIrd Plan ending on 31.03.66	9027 (94.0)	32990 (94.8)	26735 (93.2)	45148 (107.6)	541704 (243.1)	61.3 (61.7)
Three Annual Plans ending on 31.03.69	12957 (43.5)	47434 (43.8)	37352 (39.7)	73739 (63.3)	836307 (54.4)	77.88 (27.0)
IVth Plan ending on 31.03.74	16664 (28.6)	66689 (40.6)	50246 (34.5)	156729 (112.5)	1546097 (84.9)	97.48 (25.2)
Vth Plan ending on 31.03.79	26682 (60.1)	102523 (53.7)	77293 (53.8)	232770 (48.5)	2145919 (38.3)	130.94 (34.3)
Annual Plan ending on 31.03.80	28448 (6.6)	104627 (2.1)	78084 (1.0)	249799 (7.3)	2351609 (9.6)	130.49 (-0.3)
VIth Plan ending on 31.03.85	42585 (49.7)	156859 (49.9)	114068 (46.1)	370332 (48.2)	3211956 (36.6)	168.52 (29.1)
VIIth Plan ending on 31.03.90	63636 (49.4)	245438 (56.5)	175419 (53.8)	470838 (27.1)	4407501 (37.2)	237.95 (41.4)
Two Annual Plans ending on 31.03.92	69065 (7.9)	287029 (8.9)	207645 (8.7)	487170 (5.1)	4574200 (5.4)	269.98 (6.7)
VIIIth Plan ending on 31.03.97	85795 (34.8)	395889 (61.3)	280206 (59.7)	498836 (5.9)	5140993 (16.6)	334.26 (40.5)

Note -

* Figures for the 1st Plan period are from 1.1.51 to 31.12.55.

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

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

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

(\$) Figures ending March, 1951.

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

TABLE NO.II
INSTALLED GENERATING CAPACITY IN THE COUNTRY
PRIMEMOVERWISE (UTILITIES ONLY)

YEAR	(MW)			
	TOTAL	HYDRO	THERMAL (including Diesel Wind, Gas & Steam)	NUCLEAR
1950	1712.52 (100.00)	559.29 (32.66)	1153.23 (67.34)	0.00 0.00
1951	1835.43 (100.00)	575.18 (31.34)	1260.25 (68.66)	0.00 0.00
1952	2061.76 (100.00)	715.18 (34.69)	1346.58 (65.31)	0.00 0.00
1953	2305.19 (100.00)	731.18 (31.72)	1574.01 (68.28)	0.00 0.00
1954	2494.00 (100.00)	793.35 (31.81)	1700.65 (68.19)	0.00 0.00
1955	2694.82 (100.00)	939.48 (34.86)	1755.34 (65.14)	0.00 0.00
1956	2886.14 (100.00)	1061.44 (36.78)	1824.70 (63.22)	0.00 0.00
1957-58	3223.11 (100.00)	1213.92 (37.66)	2009.19 (62.34)	0.00 0.00
1958-59	3511.59 (100.00)	1361.44 (38.78)	2149.84 (61.22)	0.00 0.00
1959-60	3873.17 (100.00)	1530.15 (39.51)	2343.02 (60.49)	0.00 0.00
1960-61	4653.05 (100.00)	1916.66 (41.19)	2736.39 (58.81)	0.00 0.00
1961-62	5218.82 (100.00)	2419.10 (46.35)	2799.72 (53.65)	0.00 0.00
1962-63	5801.19 (100.00)	2936.35 (50.62)	2864.84 (49.38)	0.00 0.00
1963-64	6576.94 (100.00)	3167.02 (48.16)	3403.92 (51.84)	0.00 0.00
1964-65	7396.67 (100.00)	3388.73 (45.81)	4007.94 (54.19)	0.00 0.00
1965-66	9027.02 (100.00)	4123.74 (45.68)	4903.28 (54.32)	0.00 0.00

Note -Figures in brackets indicate % to total installed capacity

TABLE NO.II (Contd.)
INSTALLED GENERATING CAPACITY IN THE COUNTRY
PRIMEMOVERWISE (UTILITIES ONLY)

(MW)

YEAR	TOTAL	HYDRO	THERMAL (including Diesel, Wind, Gas & Steam)	NUCLEAR
1966-67	10092.17 (100.00)	4757.22 (47.14)	5334.95 (52.86)	0.00 0.00
1967-68	11888.16 (100.00)	5486.92 (46.17)	3396.24 (53.83)	0.00 0.00
1968-69	12957.27 (100.00)	5906.91 (45.59)	7050.36 (54.41)	0.00 0.00
1969-70	14102.45 (100.00)	6134.77 (43.50)	7547.68 (53.52)	420.00 (2.98)
1970-71	14708.95 (100.00)	6383.23 (43.40)	7905.72 (53.74)	420.00 (2.86)
1971-72	15254.37 (100.00)	6611.61 (43.34)	8222.76 (53.91)	420.00 (2.75)
1972-73	16301.71 (100.00)	6785.41 (41.62)	8876.30 (54.45)	640.00 (3.93)
1973-74	16663.56 (100.00)	6965.30 (41.80)	9058.26 (54.36)	640.00 (3.84)
1974-75	18316.68 (100.00)	7529.24 (41.11)	10147.44 (55.40)	640.00 (3.49)
1975-76	20117.06 (100.00)	8463.60 (42.07)	11013.46 (54.75)	640.00 (3.18)
1976-77	21468.59 (100.00)	9024.90 (42.04)	11803.69 (54.98)	640.00 (2.98)
1977-78	23668.71 (100.00)	10020.22 (42.34)	13008.49 (54.96)	640.00 (2.70)
1978-79	26680.06 (100.00)	10833.07 (40.60)	15206.99 (57.00)	640.00 (2.40)
1979-80	28447.83 (100.00)	11383.97 (40.02)	16423.86 (57.73)	640.00 (2.25)

Note -Figures in brackets indicate % to total installed capacity.

**TABLE NO.II (Contd.)
INSTALLED GENERATING CAPACITY IN THE COUNTRY
PRIMEMOVERWISE (UTILITIES ONLY)**

(MW)

YEAR	TOTAL	HYDRO	THERMAL (including Diesel, Wind, Gas & Steam)	NUCLEAR
1980-81	30213.68 (100.00)	11791.22 (39.02)	17562.46 (58.13)	860.00 (2.85)
1981-82	32345.09 (100.00)	12172.81 (37.63)	19312.28 (59.71)	860.00 (2.66)
1982-83	35363.27 (100.00)	13055.86 (36.92)	21447.41 (60.65)	860.00 (2.43)
1983-84	39338.86 (100.00)	13855.56 (35.23)	24388.3 (61.99)	1095.00 (2.78)
1984-85	42584.72 (100.00)	14460.02 (33.96)	27029.7 (63.47)	1095.00 (2.57)
1985-86	46769.03 (100.00)	15471.6 (33.08)	29967.43 (64.08)	1330.00 (2.84)
1986-87	49265.86 (100.00)	16195.64 (32.87)	31740.22 (64.43)	1330.00 (2.70)
1987-88	54155.17 (100.00)	17265.33 (31.88)	35559.84 (65.66)	1330.00 (2.46)
1988-89	59040.38 (100.00)	17798.05 (30.15)	39677.33 (67.20)	1565.00 (2.65)
1989-90	63636.34 (100.00)	18307.63 (28.77)	43763.71 (68.77)	1565.00 (2.46)
1990-91	66086.33 (100.00)	18753.42 (28.38)	45767.91 (69.25)	1565.00 (2.37)
1991-92	69065.19 (100.00)	19194.31 (27.99)	48085.88 (69.62)	1785.00 (2.59)
1992-93	72330.37 (100.00)	19575.94 (27.07)	50749.43 (70.16)	2005.00 (2.77)
1993-94	76753.41 (100.00)	20379.04 (26.55)	54369.37 (70.84)	2005.00 (2.61)
1994-95	81171.33 (100.00)	20832.79 (25.67)	58113.54 (71.59)	2225.00 (2.74)
1995-96	83293.52 (100.00)	20985.58 (25.20)	60082.94 (72.13)	2225.00 (2.67)

Note:-Figures in brackets indicate % to total installed capacity.

**TABLE NO.II (Contd.)
INSTALLED GENERATING CAPACITY IN THE COUNTRY
PRIME-MOVERWISE (UTILITIES ONLY)**

YEAR	TOTAL (H+T+N+W)	HYDRO (H)	THERMAL (T)			NUCLEAR (N)	Sub- Total (H+T+N)	WIND (W)		
									Steam	Gas
1996-97	85795.37	21658.08	61010.28	54154.48	6561.90	293.90	2225.00	84893.36	902.01	
1997-98	89102.27 100.00	21904.51 24.58	64004.64	71.83	55969.48	7661.40	373.76	2225.00	88134.15 98.91	968.12 1.09
1998-99	93293.55 100.00	22479.13 24.10	67565.41	72.42	57954.48	8998.90	612.03	2225.00	92269.54 98.90	1024.01 1.10
1999-00	97884.47 100.00	23856.78 24.37	70492.81	71.71	59855.88	9596.90	740.03	2680.00	96729.59 98.82	1154.88 1.18

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

(GWH)

YEAR	TOTAL	HYDRO	THERMAL (including Diesel, Wind, Gas & Steam)	NUCLEAR
1950	5106.70 (100.00)	2519.17 (49.34)	2586.93 (50.66)	0.00 0.00
1951	5858.40 (100.00)	2859.7 (48.81)	2998.70 (51.19)	0.00 0.00
1952	6120.35 (100.00)	2799.13 (45.73)	3321.22 (54.27)	0.00 0.00
1953	6697.19 (100.00)	2913.86 (43.51)	3783.33 (56.49)	0.00 0.00
1954	7521.78 (100.00)	3236.52 (43.03)	4285.26 (56.97)	0.00 0.00
1955	8592.45 (100.00)	3742.24 (43.55)	4850.21 (56.45)	0.00 0.00
1956	9662.13 (100.00)	4294.87 (44.45)	5367.26 (55.55)	0.00 0.00
1957-58	11369.14 (100.00)	5072.24 (44.61)	6296.90 (55.39)	0.00 0.00
1958-59	12993.89 (100.00)	5848.1 (45.01)	7145.79 (54.99)	0.00 0.00
1959-60	15032.95 (100.00)	7027.42 (46.75)	8005.53 (53.25)	0.00 0.00
1960-61	16937.01 (100.00)	7836.58 (46.27)	9100.43 (53.73)	0.00 0.00
1961-62	19669.95 (100.00)	9814.38 (49.90)	9855.57 (50.10)	0.00 0.00
1962-63	22364.97 (100.00)	11804.54 (52.78)	10560.43 (47.22)	0.00 0.00
1963-64	26817.57 (100.00)	13956.7 (52.04)	12860.87 (47.96)	0.00 0.00
1964-65	29563.08 (100.00)	14798.85 (50.56)	14764.23 (49.94)	0.00 0.00
1965-66	32990.12 (100.00)	15224.97 (46.15)	17765.15 (53.85)	0.00 0.00

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

(GWH)

YEAR	TOTAL	HYDRO	THERMAL (including Diesel, Wind, Gas & Steam)	NUCLEAR
1966-67	36375.59 (100.00)	16734.1 (46.00)	19641.49 (54.00)	0.00 0.00
1967-68	41194.64 (100.00)	18658.06 (45.29)	22536.58 (54.71)	0.00 0.00
1969-70	51988.72 (100.00)	23046.05 (44.33)	27603.67 (53.10)	1339.00 (2.57)
1970-71	55827.64 (100.00)	25248.24 (45.23)	28162.02 (50.44)	2417.38 (4.33)
1971-72	60925.63 (100.00)	28024.22 (46.00)	31712.09 (52.05)	1189.32 (1.95)
1972-73	64546 (100.00)	27195.95 (42.13)	36217.31 (56.11)	1132.74 (1.76)
1973-74	66689.03 (100.00)	28971.84 (43.45)	35320.83 (52.96)	2396.36 (3.59)
1974-75	70190.53 (100.00)	27875.18 (39.72)	40109.26 (57.14)	2206.09 (3.14)
1975-76	79230.92 (100.00)	33301.77 (42.03)	43302.64 (54.65)	2626.51 (3.32)
1976-77	88333.31 (100.00)	34836.13 (39.43)	50244.9 (56.89)	3252.28 (3.68)
1977-78	91369.03 (100.00)	38007.16 (41.60)	51089.7 (55.91)	2272.17 (2.49)
1978-79	102522.52 (100.00)	47158.86 (46.00)	52593.98 (51.30)	2769.68 (2.70)
1979-80	104627.26 (100.00)	45477.55 (43.47)	56273.12 (53.78)	2876.59 (2.75)

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

TABLE NO.III (Contd.)
GROSS ELECTRICITY GENERATION IN THE COUNTRY
PRIMEMOVERWISE (UTILITIES)

(GWH)

YEAR	TOTAL	HYDRO	THERMAL (including Diesel, Wind, Gas & Steam)	NUCLEAR
1980-81	110843.96 (100.00)	46541.76 (41.99)	61300.86 (55.30)	3001.34 (2.71)
1981-82	122101.43 (100.00)	49564.93 (40.60)	69515.61 (56.93)	3020.89 (2.47)
1982-83	130263.58 (100.00)	48373.38 (37.13)	79868.26 (61.32)	2021.94 (1.55)
1983-84	140177.36 (100.00)	49954.27 (35.64)	86677.03 (61.83)	3546.06 (2.53)
1984-85	156859.38 (100.00)	53948.25 (34.39)	98836.3 (63.01)	4074.83 (2.60)
1985-86	170350.13 (100.00)	51020.78 (29.95)	114347.47 (67.12)	4981.88 (2.93)
1986-87	187713.99 (100.00)	53840.86 (28.68)	128851.39 (68.65)	5021.74 (2.67)
1987-88	202092.7 (100.00)	47444.37 (23.48)	149613.61 (74.03)	5034.72 (2.49)
1988-89	221396.13 (100.00)	57867.89 (26.14)	157711.13 (71.23)	5817.11 (2.63)
1989-90	245437.92 (100.00)	62116.09 (25.31)	178696.45 (72.81)	4625.38 (1.88)
1990-91	264328.61 (100.00)	71641.31 (27.11)	186546.20 (70.57)	6141.1 (2.32)
1991-92	287028.58 (100.00)	72757.09 (25.35)	208747.09 (72.73)	5524.4 (1.92)
1992-93	301361.72 (100.00)	69869.25 (23.19)	224766.18 (74.58)	6726.29 (2.23)
1993-94	324049.55 (100.00)	70462.63 (21.74)	248189.2 (76.59)	5397.72 (1.67)
1994-95	350490.36 (100.00)	82711.95 (23.60)	262130.19 (74.79)	5648.22 (1.61)
1995-96	379877.19 (100.00)	72579.19 (19.11)	299316.35 (78.79)	7981.65 (2.10)

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

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

(GWH)

YEAR	TOTAL	HYDRO	THERMAL (including Diesel, Wind, Gas & Steam)	NUCLEAR
1966-67	36375.59 (100.00)	16734.1 (46.00)	19641.49 (54.00)	0.00 0.00
1967-68	41194.64 (100.00)	18658.06 (45.29)	22536.58 (54.71)	0.00 0.00
1969-70	51988.72 (100.00)	23046.05 (44.33)	27603.67 (53.10)	1339.00 (2.57)
1970-71	55827.64 (100.00)	25248.24 (45.23)	28162.02 (50.44)	2417.38 (4.33)
1971-72	60925.63 (100.00)	28024.22 (46.00)	31712.09 (52.05)	1189.32 (1.95)
1972-73	64546 (100.00)	27195.95 (42.13)	36217.31 (56.11)	1132.74 (1.76)
1973-74	66689.03 (100.00)	28971.84 (43.45)	35320.83 (52.96)	2396.36 (3.59)
1974-75	70190.53 (100.00)	27875.18 (39.72)	40109.26 (57.14)	2206.09 (3.14)
1975-76	79230.92 (100.00)	33301.77 (42.03)	43302.64 (54.65)	2626.51 (3.32)
1976-77	88333.31 (100.00)	34836.13 (39.43)	50244.9 (56.89)	3252.28 (3.68)
1977-78	91369.03 (100.00)	38007.16 (41.60)	51089.7 (55.91)	2272.17 (2.49)
1978-79	102522.52 (100.00)	47158.86 (46.00)	52593.98 (51.30)	2769.68 (2.70)
1979-80	104627.26 (100.00)	45477.55 (43.47)	56273.12 (53.78)	2876.59 (2.75)

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

TABLE NO.III (Contd.)
GROSS ELECTRICITY GENERATION IN THE COUNTRY
PRIMEMOVERWISE (UTILITIES)

(GWH)

YEAR	TOTAL	HYDRO	THERMAL (including Diesel, Wind, Gas & Steam)	NUCLEAR
1980-81	110843.96 (100.00)	46541.76 (41.99)	61300.86 (55.30)	3001.34 (2.71)
1981-82	122101.43 (100.00)	49564.93 (40.60)	69515.61 (56.93)	3020.89 (2.47)
1982-83	130263.58 (100.00)	48373.38 (37.13)	79868.26 (61.32)	2021.94 (1.55)
1983-84	140177.36 (100.00)	49954.27 (35.64)	86677.03 (61.83)	3546.06 (2.53)
1984-85	156859.38 (100.00)	53948.25 (34.39)	98836.3 (63.01)	4074.83 (2.60)
1985-86	170350.13 (100.00)	51020.78 (29.95)	114347.47 (67.12)	4981.88 (2.93)
1986-87	187713.99 (100.00)	53840.86 (28.68)	128851.39 (68.65)	5021.74 (2.67)
1987-88	202092.7 (100.00)	47444.37 (23.48)	149613.61 (74.03)	5034.72 (2.49)
1988-89	221396.13 (100.00)	57867.89 (26.14)	157711.13 (71.23)	5817.11 (2.63)
1989-90	245437.92 (100.00)	62116.09 (25.31)	178696.45 (72.81)	4625.38 (1.88)
1990-91	264328.61 (100.00)	71641.31 (27.11)	186546.20 (70.57)	6141.1 (2.32)
1991-92	287028.58 (100.00)	72757.09 (25.35)	208747.09 (72.73)	5524.4 (1.92)
1992-93	301361.72 (100.00)	69869.25 (23.19)	224766.18 (74.58)	6726.29 (2.23)
1993-94	324049.55 (100.00)	70462.63 (21.74)	248189.2 (76.59)	5397.72 (1.67)
1994-95	350490.36 (100.00)	82711.95 (23.60)	262130.19 (74.79)	5648.22 (1.61)
1995-96	379877.19 (100.00)	72579.19 (19.11)	299316.35 (78.79)	7981.65 (2.10)

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

TABLE NO.III (Contd.)
GROSS ELECTRICITY GENERATION IN THE COUNTRY
PRIMEMOVERWISE (UTILITIES)

(GWH)

YEAR	TOTAL (H+T+N+W)	HYDRO (H)	THERMAL (T) Steam Gas Diesel	NUCLEAR (N)	Sub- Total (H+T+N)	WIND (W)
1996-97	395889.45 (100.00)	68900.8 (17.40)	317041.87 (80.09) 289378.32 26984.91 678.64	9071.11 (2.29)	395013.78 (99.78)	875.67 (0.22)
1997-98	421747.28 (100.00)	74581.71 (17.69)	336094.54 (79.69) 300730.48 34423.22 940.84	10082.6 (2.39)	420758.85 (99.77)	988.43 (0.23)
1998-99	448544.06 100.00	82922.60 18.49	352619.76 78.61 310013.57 41302.53 1303.66	11922.88 2.66	447465.24 99.76	1078.82 0.24
1999-00	481055.19 100.00	80755.47 16.79	385604.79 80.16 333617.24 49077.14 2910.41	13249.12 2.75	479575.58 99.7	1445.81 0.30

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

ENERGY SALES (GWH)							
YEAR	TOTAL	DOMESTIC	COMMERCIAL	INDUSTRIAL	TRACTION	AGRICULTURE	OTHERS
1	2	3	4	5	6	7	8
1950	4156.66	524.59 (12.60)	308.75 (7.50)	2603.81 (62.60)	308.41 (7.40)	161.68 (3.90)	249.42 (6.00)
1951	4793.34	594.99 (12.40)	331.54 (6.90)	3054.67 (63.70)	329.6 (6.90)	203.04 (4.30)	279.5 (5.80)
1952	5005.68	628.88 (12.60)	336.63 (6.70)	3206.52 (64.00)	324.75 (6.50)	215.18 (4.30)	293.72 (5.90)
1953	5597.08	690.52 (12.30)	399.1 (7.10)	3613.22 (64.60)	358.32 (6.40)	214.12 (3.80)	321.8 (5.80)
1954	6252.5	759.16 (12.10)	446.15 (7.10)	4075.97 (65.20)	378.41 (6.10)	231.39 (3.70)	361.42 (5.80)
1955	7111.01	850.43 (12.00)	514.43 (7.20)	4698.3 (66.00)	403.31 (5.70)	254.79 (3.60)	389.75 (5.50)
1956-57	7959.34	934.11 (11.70)	545.84 (6.80)	5323.43 (66.90)	404.93 (5.10)	316.18 (4.00)	434.85 (5.50)
1957-58	9345.22	1093.63 (11.70)	609.81 (6.50)	6166.8 (66.00)	423.29 (4.50)	544.64 (6.00)	507.05 (5.40)
1958-59	10718.61	1238.03 (11.50)	682.81 (6.30)	7224.05 (67.50)	441.56 (4.10)	583.48 (5.50)	548.68 (5.10)
1959-60	12406.94	1378.54 (11.10)	766.17 (6.20)	8455.52 (68.20)	440.6 (3.60)	753.95 (6.10)	612.16 (4.80)
1960-61	13840.64	1492.29 (10.70)	847.74 (6.10)	9584.32 (69.40)	453.93 (3.30)	832.93 (6.00)	629.43 (4.50)
1961-62	16448.29	1698.08 (10.30)	934.09 (5.70)	11545.6 (70.20)	584.76 (3.60)	991.14 (6.00)	695.22 (4.20)
1962-63	18679.02	1917.85 (10.30)	1048.62 (5.60)	13109.81 (70.20)	723.84 (3.90)	1103.52 (5.90)	775.38 (4.10)
1963-64	21793.98	2062.41 (9.70)	1179.72 (5.50)	15841.84 (73.50)	755.58 (2.20)	1153.17 (5.40)	801.26 (3.70)
1964-65	24219.27	2246.21 (9.20)	1427.48 (5.90)	17378.58 (71.80)	898.33 (3.70)	1396.69 (5.80)	871.98 (3.60)
1965-66	26734.94	2355.15 (8.80)	1650.06 (6.20)	18875.87 (70.60)	1057.29 (4.00)	1891.84 (7.10)	904.73 (3.30)

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

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

ENERGY SALES (GWH)							
YEAR	TOTAL	DOMESTIC	COMMERCIAL	INDUSTRIAL	TRACTION	AGRICULTURE	OTHERS
1	2	3	4	5	6	7	8
1966-67	29127.64	2626.72 (9.00)	1819.62 (6.20)	20390.80 (70.00)	1180.22 (4.10)	2106.50 (7.20)	1003.78 (3.50)
1967-68	32686.87	2927.97 (8.90)	1750.19 (5.40)	22852.24 (69.90)	1301.66 (4.00)	2585.25 (7.90)	1269.56 (3.90)
1968-69	37352.25	3184.19 (8.50)	2125.74 (5.70)	25891.23 (69.30)	1246.58 (3.30)	3465.44 (9.30)	1439.07 (3.90)
1969-70	41061.70	3491.00 (8.60)	2333.33 (5.70)	28378.66 (69.10)	1448.32 (3.50)	3774.11 (9.20)	1636.28 (3.90)
1970-71	43724.16	3839.76 (8.80)	2572.66 (5.90)	29579.10 (67.60)	1364.57 (3.20)	4470.23 (10.20)	1897.84 (4.30)
1971-72	47063.20	4107.46 (8.70)	2952.78 (6.30)	31637.18 (67.20)	1632.69 (3.50)	5005.62 (10.60)	1737.47 (3.70)
1972-73	49088.06	4309.01 (8.80)	2782.19 (5.70)	32244.21 (65.70)	1830.57 (3.70)	5918.10 (12.00)	2003.98 (4.10)
1973-74	50246.38	4644.55 (9.20)	2987.52 (6.00)	32481.38 (64.60)	1530.76 (3.00)	6310.21 (12.60)	2291.96 (4.60)
1974-75	52631.64	5172.79 (9.80)	3081.57 (5.90)	32690.28 (62.10)	1531.17 (2.90)	7762.73 (14.70)	2393.10 (4.60)
1975-76	60245.81	5821.35 (9.66)	3506.76 (5.82)	37568.12 (62.36)	1855.32 (3.08)	8721.06 (14.48)	2773.20 (4.60)
1976-77	66608.57	6336.56 (9.51)	4141.92 (6.22)	41605.63 (62.47)	2167.72 (3.25)	9620.63 (14.44)	2763.11 (4.11)
1977-78	69255.03	6821.31 (9.85)	4427.59 (6.39)	42635.20 (61.57)	2296.81 (3.32)	10107.36 (14.59)	2966.76 (4.28)
1978-79	77292.82	7575.66 (9.80)	4330.58 (5.60)	47727.70 (61.75)	2185.58 (2.83)	12027.85 (15.56)	3445.45 (4.46)
1979-80	78083.62	8402.23 (10.76)	4656.58 (5.95)	45955.48 (58.86)	2301.15 (2.95)	13452.00 (17.23)	3316.18 (4.25)
1980-81	82367.18	9246.43 (11.23)	4681.84 (5.68)	48069.35 (58.36)	2265.91 (2.75)	14489.03 (17.59)	3614.62 (4.39)
1981-82	90245.33	10439.62 (11.57)	5194.41 (5.76)	53063.79 (58.80)	2504.72 (2.78)	15201.16 (16.84)	3041.63 (4.25)

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