



अखिल भारतीय विद्युत सांख्यिकी All India Electricity Statistics

सामान्य पुनर्विलोकन 2024

(2022-23 के आंकड़े समाविष्ट)

General Review 2024 (Containing Data for the Year 2022-23)

भारत सरकार
विद्युत मंत्रालय
केंद्रीय विद्युत प्राधिकरण
नई दिल्ली
मई 2024

Government of India
Ministry of Power
Central Electricity Authority
New Delhi
May 2024



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घनश्याम प्रसाद
अध्यक्ष तथा पदेन सचिव भारत सरकार
GHANSHYAM PRASAD
Chairperson & Ex-officio Secretary
To the Government Of India



केन्द्रीय विद्युत प्राधिकरण
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सेवा भवन, आर.के, पुरम
नई दिल्ली-110066
Central Electricity Authority
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Sewa Bhawan, R. K. Puram
New Delhi-110066

प्राक्कथन

विद्युत अधिनियम 2003 के प्रावधानों के अनुसार केंद्रीय विद्युत प्राधिकरण द्वारा पर देश के विभिन्न क्षेत्रों द्वारा विद्युत उत्पादन, पारेषण, ट्रेडिंग, वितरण और उपभोग संबंधी वार्षिक आधार पर आंकड़े सार्वजनिक किए जाते हैं। “अखिल भारतीय विद्युत सांख्यिकी – सामान्य पुनर्विलोकन 2024” का प्रकाशन इस दिशा में एक कदम है। इस प्रकाशन में शामिल सूचना, देश में विभिन्न विकास दरों और उपभोग रुझानों के आकलन में उपयोगी होंगी, जिससे केंद्र और राज्य दोनों स्तरों पर भावी योजनाएं बनाने में आसानी होगी। इससे देश में विद्युत के विभिन्न क्षेत्रों की उपलब्धियों का आकलन करने में भी मदद मिलती है।

“अखिल भारतीय विद्युत सांख्यिकी – सामान्य पुनर्विलोकन” के लिए आंकड़े भारतीय विद्युत क्षेत्र के विभिन्न संगठनों से संग्रहित किये गये हैं। इस रिपोर्ट में प्रचुर मात्रा में डेटा शामिल है, जिसमें स्थापित क्षमता, विद्युत ऊर्जा उत्पादन, ट्रांसमिशन और वितरण नेटवर्क क्षमता, कैप्टिव पावर प्लांट और बिजली की खपत आदि शामिल हैं। इसमें विद्युत उपभोग की भिन्न श्रेणियों जैसे घरेलू, कृषि, औद्योगिक विद्युत, स्ट्रीट लाइट, जल पंपिंग की योजनाएं, ट्रेक्शन इत्यादि संबंधी आंकड़े और उपभोक्ताओं की संख्या तथा संबद्ध लोड के ब्यौरे भी शामिल हैं।

उपलब्ध आंकड़ों के अनुसार, वर्ष 2022-23 के दौरान विद्युत उत्पादन क्षमता पिछले वर्ष की तुलना में 3.83 % बढ़ी हैं और इस वर्ष कुल विद्युत ऊर्जा उत्पादन, जिसमें कैप्टिव प्लांट भी शामिल हैं, पिछले वर्ष की तुलना में 8.03 % बढ़ा हैं। वर्ष 2022-23 के दौरान, देश में कुल स्थापित विद्युत उत्पादन क्षमता में, अक्षय ऊर्जा स्रोतों (यूटिलिटी और गैर यूटिलिटी) (25 मेगावाट से अधिक जल विद्युत को छोड़कर) की स्थापित क्षमता की हिस्सेदारी 24.54% से बढ़कर 26.74% रही और इन स्रोतों से उत्पादन की हिस्सेदारी, कुल विद्युत उत्पादन में 10.49 % से बढ़कर 11.60 % रही हैं।

मैं उन सभी यूटिलिटियों /संगठनों के सहयोग के लिए, उनके प्रति आभार प्रकट करता हूँ, जिन्होंने समय पर अपेक्षित सूचना प्रस्तुत करके इस प्रकाशन को सम्भव बनाया। मुझे आशा है कि “अखिल भारतीय विद्युत सांख्यिकी सामान्य पुनर्विलोकन 2024” भारत के, विद्युत क्षेत्र के विकास में शामिल सभी हितधारकों की अपेक्षाओं को पूरी करेगा।


(घनश्याम प्रसाद)

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FOREWORD

In fulfilment of its statutory obligations under the Electricity Act, 2003, Central Electricity Authority publishes the statistics related to generation, transmission, trading, distribution and utilization of electricity by different sectors in the country on annual basis. The publication "All India Electricity Statistics - General Review 2024" is a step in this direction. The information contained in this publication would be useful in working out the various growth rates and consumption trends to facilitate future planning both at Central and State level. It also helps for assessment of the achievement of various sectors of electricity in the country.

The data for this publication has been collected from various organizations of the Indian Electricity Sector. The report contains a wealth of data, including Installed capacity, Electrical Energy Generation, Transmission and Distribution Network capacity, Captive Power Plants and Electricity Consumption etc. It contains data on various categories of Electricity Consumption like domestic, agriculture, industrial power, street lighting, water pumping schemes, traction etc., and also details about the number of consumers and the connected load.

As per the available data, the installed capacity including captive plants during the year 2022-23 has increased by 3.83 % over the previous year and the total electricity generated in the country including that from captive plants during the year 2022-23 has registered a growth of 8.03 % over the previous year. The share of renewable energy resources (Utilities and non-utilities) (excluding Hydro above 25MW) in total installed capacity has increased from 24.54% to 26.74% and the share of generation from these sources in total generation has increased from 10.49 % to 11.60 % in the country during the year 2022-23.

The cooperation of all utilities/ organizations who have furnished the requisite information, making this publication possible, is gratefully acknowledged. I hope that "All India Electricity Statistics - General Review 2024" will fulfill the expectations of all stakeholders who are involved in the development of electricity sector in India.


(Ghanshyam Prasad)



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प्रस्तावना

अखिल भारतीय विद्युत वार्षिक सांख्यिकी का संग्रह, विश्लेषण और संकलन विद्युत अधिनियम, 2003 के तहत अपने दायित्व को पूरा करने में केन्द्रीय विद्युत प्राधिकरण (सीईए) द्वारा किया जाने वाला एक महत्वपूर्ण कार्य है। "अखिल भारतीय विद्युत सांख्यिकी- सामान्य पुनर्विलोकन 2024" में स्थापित क्षमता, विद्युत ऊर्जा उत्पादन और विद्युत ऊर्जा के उपयोग के साथ-साथ पारेषण और वितरण हानि, प्रति व्यक्ति खपत पर महत्वपूर्ण आंकड़े/डेटा शामिल हैं। इस प्रकाशन में घरेलू, वाणिज्यिक, सिंचाई, उद्योग (एलवी/एमवी, एचवी/ईएचवी), ट्रैक्शन, सार्वजनिक प्रकाश व्यवस्था व सार्वजनिक जल कार्य आदि जैसे विद्युत उपभोक्ताओं की विभिन्न श्रेणियों द्वारा ऊर्जा उपयोग भी शामिल है। इस रिपोर्ट में 0.5 मेगावाट और उससे अधिक की मांग वाले उद्योगों में उपयोगिता स्रोतों और कैप्टिव पावर प्लांट से संबंधित डेटा को भी शामिल किया गया है। राज्यवार /क्षेत्रवार /श्रेणीवार / मोड वार डेटा को अपने सभी उपयोगकर्ताओं तक स्पष्ट तरीके से जानकारी पहुंचाने के लिए तालिकाओं, चार्ट / ग्राफ और राईट- अप के रूप में संकलित किया जाता है।

वित्त वर्ष 2022-23 के लिए कुछ उपयोगिताओं के संबंध में पूर्ण डेटा/जानकारी की अनुपलब्धता एक बड़ी बाधा है और इसलिए मैं पावर यूटिलिटीज से अनुरोध करता हूं कि वे प्राथमिकता पर और समय पर अपेक्षित इनपुट डेटा प्रदान करें ताकि "अखिल भारतीय विद्युत सांख्यिकी"- सामान्य पुनर्विलोकन' को समय पर अंतिम रूप दिया जा सके।

वित्त वर्ष 2022-23 के डाटा वाले "अखिल भारतीय विद्युत सांख्यिकी- सामान्य पुनर्विलोकन-2024" को पावर यूटिलिटीज और कैप्टिव पावर प्लांट्स से प्राप्त डेटा/ जानकारी के आधार पर संकलित किया गया है। मुझे विश्वास है कि प्रकाशन में शामिल जानकारी भारत के विद्युत क्षेत्र से जुड़े सभी लोगों के लिए अपनी गतिविधियों की योजना बनाने के लिए अत्यधिक मूल्यवान होगी। इस प्रकाशन में सुधार के लिए टिप्पणियों/ प्रेक्षकों/सुझावों का स्वागत है और अखिल भारतीय सांख्यिकी-सामान्य पुनर्विलोकन के अगले अंक में इन सुझावों को ध्यान में रखा जाएगा।

मई, 2024

(बालन अलगरसामी)



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PREFACE

Collection, analysis and compilation of annual All India Electricity Statistics has been an important task being accomplished by Central Electricity Authority (CEA) in fulfillment of its obligation under the Electricity Act, 2003. The “All India Electricity Statistics-General Review 2024” incorporates important statistics/ data on installed capacity, electric energy generation and utilization of electric energy along with the transmission and distribution losses, per capita consumption. This publication also contain energy utilization by various categories of electricity consumers like domestic, commercial, irrigation, industries (LV /MV, HV /EHV), public lighting, public water works, etc. Data pertaining to utility sources and Captive Power Plants in Industries having demand of 0.5 MW and above have also been included in the Report. The State-wise/ Sector-wise/ Category-wise/ Mode-wise data are compiled in the form of Tables, Charts/Graphs and write-up to convey the information in a clear manner to all its users.

The non-availability of complete data/information in respect of certain utilities for the FY 2022-23 is a major constraint and so I request the Power Utilities to provide the requisite input data on priority and in timely manner so that “All India Electricity Statistics-General Review “could be finalized in time.

The “All India Electricity Statistics- General Review 2024” containing data for FY 2022-23 has been compiled based on the data/information received from Power Utilities and Captive Power Plants. I am sure that the information contained in the publication shall be of immense value to all those associated with Power Sector of India for the planning of their activities. The comments/observations/ suggestions for improvement of this publication would be welcome and the same would be taken care of in our next issue of the report “All India Electricity Statistics-General Review”.

May, 2024


(BALAN ALAGARSAMY)



इरफ़ान अहमद

मुख्य अभियंता (पी.डी.एम.एंड.एल.एफ.)

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आभार

“अखिल भारतीय विद्युत सांख्यिकी सामान्य पुनर्विलोकन-2024” के इस प्रकाशन में विभिन्न क्षेत्रों/श्रेणियों द्वारा विद्युत के उत्पादन, पारेषण, संवितरण और खपत से संबंधित देशव्यापी आंकड़े शामिल हैं। विद्युत अधिनियम, 2003 के तहत अपने दायित्व को पूरा करने के लिए सीईए द्वारा वार्षिक आधार पर अखिल भारतीय विद्युत सांख्यिकी प्रकाशित की जाती है। इस प्रकाशन के लिए आंकड़े सरकारी और निजी दोनों क्षेत्रों में विद्युत क्षेत्र की यूटिलिटीयों, विद्युत विभाग और भारत की गैर-यूटिलिटीयों और विशिष्ट श्रेणी के उपभोक्ताओं से एकत्रित किए गए हैं। विद्युत संगठनों की बड़ी संख्या के साथ आंकड़ा संग्रहण, सत्यापन और विश्लेषण का कार्य एक समय लेने वाली गतिविधि है, जिसे सीईए द्वारा कुशलतापूर्वक किया गया है।

डेटा संग्रह के लिए पावर यूटिलिटीज के साथ नियमित अनुवर्ती कार्रवाई के माध्यम से इस प्रकाशन के संकलन/तैयारी में अपने ईमानदार प्रयास करने के लिए मैं पीडीएम और एलएफ डिवीजन के अधिकारियों को धन्यवाद देना चाहता हूँ। श्री सोवरन सिंह, निदेशक; श्रीमती नगमा फुरकान, उप निदेशक; श्रीमती किरण मीणा, उप निदेशक; श्री गौरव जसूजा, उप निदेशक; श्री लक्ष्मी नारायण, सहायक निदेशक एवं श्री केशव सिंह, सहायक निदेशक द्वारा दिए गए योगदान के लिए मैं उनका आभार प्रकट करता हूँ। इस प्रकाशन को जारी किए जाने में श्री धनंजय कुमार, वरिष्ठ सांख्यिकी अधिकारी ने प्रशासनिक सहयोग किया है।

यह संकलन सभी केंद्रीय, राज्य और निजी क्षेत्र की विद्युत उपयोगिताओं/संगठनों के सक्रिय सहयोग के कारण संभव हुआ है, जिन्होंने समय पर अपेक्षित जानकारी प्रदान की है। हमारी टीम द्वारा विभिन्न विश्लेषणात्मक जांचों और डेटा सत्यापन के माध्यम से विद्युत क्षेत्र के डेटा को शामिल करने और सटीकता बनाए रखने के लिए सभी प्रयास किए गए हैं। यदि कोई विसंगति हो तो हमारे ध्यान में लाने पर उसे कृतज्ञतापूर्वक स्वीकार किया जाएगा और “अखिल भारतीय विद्युत सांख्यिकी - सामान्य पुनर्विलोकन” के अगले अंक में ध्यान दिया जाएगा।

मई, 2024


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This publication "All India Electricity Statistics- General Review 2024" contains countrywide sectoral and category-wise statistics relating to generation, transmission, distribution and consumption of electricity in the country. The All India Electricity Statistics is published by CEA on annual basis in fulfillment of its obligation under the Electricity Act, 2003. The data for this publication are collected from various Power Utilities in public and private sector, Electricity Departments and Non-Utilities of India under specific consumer categories. With large number of organizations, the work of data collection, validation and analysis is a time taking activity but done in CEA in an efficient manner.

I would like to thank the officers of PDM&LF Division who have put their sincere efforts in compilation/preparation of this publication through regular follow-up with Power Utilities for data collection. The contribution made by Shri Sovaran Singh, Director; Ms. Nagma Furqan, Deputy Director; Ms. Kiran Meena, Deputy Director; Shri Gourav Jausja, Deputy Director; Shri Laxmi Narayan, Assistant Director and Shri Keshav Singh, Assistant Director is gratefully acknowledged. Shri Dhananjay Kumar, Sr. Statistical Officer provided administrative support in bringing out this publication.

This compilation has been possible due to active co-operation of all Central, State and Private sector Power utilities/Organizations, who have furnished the requisite information in timely manner. All efforts have been made to incorporate the data on electricity sector and maintain accuracy through various analytical checks and data validation by our team. However, any discrepancy, may be brought to our notice which will be gratefully acknowledged and taken care of in the next issue of "All India Electricity Statistics-General Review".

May, 2024

(IRFAN AHMAD)



GLOSSARY

(Containing Definitions, Expansion of Abbreviations)

A & W	As & When
APPGCL	Andhra Pradesh Power Generation Corporation Limited
APTRANS-CO	Transmission Corporation of Andhra Pradesh Limited
BBMB	Bhakra Beas Management Board
CCGT	Combine Cycle Gas Turbine
Ckt.Kms.	Circuit kilometers
CSP	Central Sector Project
Deptt.	Department
DVC	Damodar Valley Corporation
E	Estimated
ER	Eastern Region
GRIDCO	Grid Corporation of Orissa Limited
GWh	Giga Watt Hour (equivalent to 1 Million Unit (MU) of Electrical Energy)
HPGCL	Haryana Power Generation Corporation Limited
HV	High Voltage
HVPNL	Haryana Vidyut Prasaran Nigam Limited
IPGCL	Indra Prastha Generation Corporation Limited
KL	Kilo Litre
KPTCL	Karnataka Power Transmission Corporation Limited
kV	Kilo Volt
kVA	Kilo Volt Ampere
kW	Kilo Watt
kWh	Kilo Watt Hour
LSHS	Low Sulphur Heavy Stock
LV	Low Voltage
MMSCM	Million Metric Standard Cubic Metre
MPPGCL	Madhya Pradesh Power Generation Corporation Limited
MPPTCL	Madhya Pradesh Power Transmission Corporation Limited
MT	Metric Tonne
MV	Medium Voltage
MVA	Mega Volt Ampere
MW	Mega Watt(equivalent to 1000 Kilo Watt)
NA	Not Available
NEEPCO	North Eastern Electric Power Corporation Limited
NER	North- Eastern Region
NHDC	Narmada Hydro Development Corporation Limited
NHPC	National Hydro Electric Power Corporation Limited
NON-UTILITIES	Non-Utilities shall mean captive generating plant which means a power plant set up by any person to generate electricity primarily for own use and includes power plant set up by any Co-Operative society or association of persons for generating electricity primarily for use of members of such Co-Operative society or association.
NPCIL	Nuclear Power Corporation of India Limited
NR	Northern Region
NTPC	National Thermal Power Corporation Limited



OH	Over Head
OHPCL	Orissa Hydro Power Corporation Limited
OP	Off Peak
OPGCL	Orissa Power Generation Corporation Limited
OPTCL	Orissa Power Transmission Corporation Limited
P	Peak
PDC	Power Development Corporation
PPCL	Pragati Power Corporation Limited
PTCUL	Power Transmission Corporation of Uttarakhand Limited
R	Repeated
RES	Renewable Energy Sources (Includes Electric Generation due to (a) Wind (b) Bio-Mass Power (c) Solar Power (d) Urban & Industrial Wastes & (e) Small Hydro Power Projects of capacity less than or equal to 25 MW.
RRVUNL	Rajasthan Rajya Vidyut Utpadan Nigam Limited
RTC	Round the Clock
RVPNL	Rajasthan Rajya Vidyut Prasaran Nigam Limited
SEB	State Electricity Board
SJVNL	Satluj Jal Vidyut Nigam Limited
SR	Southern Region
SSNNL	Sardar Sarovar Narmada Nigam Limited
STPS	Super Thermal Power Station
THDCIL	Tehri Hydro Development Corporation of India Ltd.
UG	Under Ground
Utg.	Undertaking
UJVNL	Uttaranchal Jal Vidyut Nigam Limited
UN	United Nations
UPCL	Uttarakhand Power Corporation Limited
UPJVUNL	Uttar Pradesh Jal Vidyut Utpadan Nigam Limited
UPPCL	Uttar Pradesh Power Corporation Limited
UPRVUNL	Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited
UT	Union Territory
UTILITIES	Utility means the electric lines or electrical plant, and includes all lands, buildings, works & materials attached thereto belonging to any person acting as a generating company or licensee under the provisions of the Electricity Act, 2003.
VVNL	Vishwesharaiah Vidyut Nigam Limited
WBPDC	West Bengal Power Development Corporation Limited
WR	Western Region
The expansion of other abbreviations are given at the various tables of the publication wherever required.	



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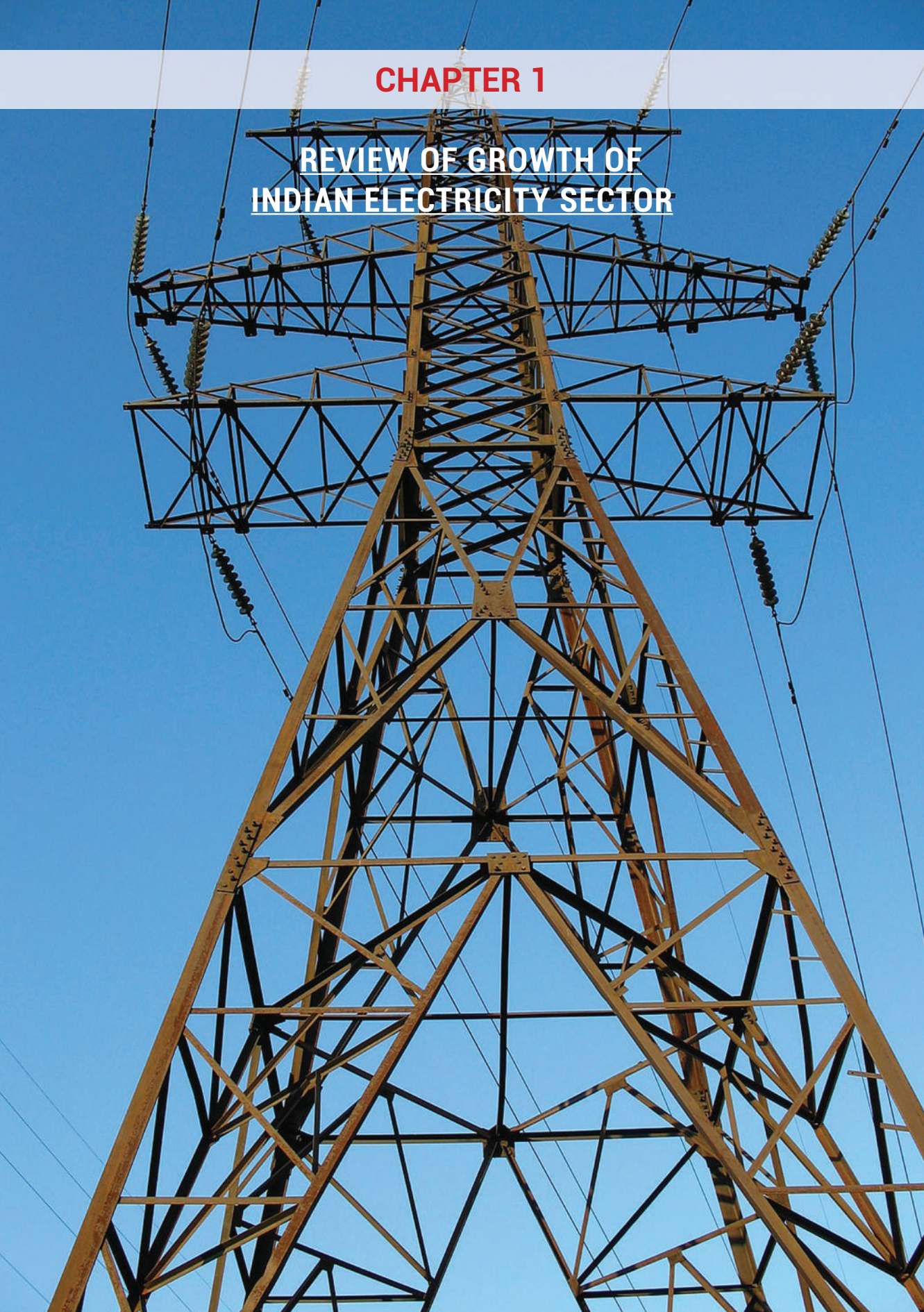


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CHAPTER 1

REVIEW OF GROWTH OF INDIAN ELECTRICITY SECTOR





**CHAPTER 1****REVIEW OF GROWTH OF INDIAN
ELECTRICITY SECTOR**

In the pre-independence era, the power supply was mainly in the hands of Private Sector that too restricted to the urban areas. Power development in India commenced with the Commissioning of first hydro unit of 130 kW (2x65 kW) generators at Sidrapong in Darjeeling during 1897, followed by first steam driven power plant rated 1000 kW (3x500 HP boilers) two years later at Calcutta in 1899 by CESC.

After independence, with the formation of State Electricity Boards (SEBs) in the various states of the country in the early 50s, a significant step was taken in bringing out systematic growth of power supply industry all over the country. A number of multipurpose hydro projects and installation of thermal and nuclear stations were taken up and thus power generation activity started increasing significantly.

The participation of Central Govt. in power generation programme started with the creation of two generating corporations viz. National Thermal Power Corporation (NTPC) for coal/gas based capacity addition and National Hydro Power Corporation (NHPC) for Hydro development during the year 1975, which gave a fillip to the growth of power sector in the country. The setting up of Nuclear Power Corporation Ltd. (NPCIL) started the addition of nuclear based Capacity. In transmission Sector, Power Grid Corporation of India Ltd. (PGCIL) gave further boost to the power development programme. The Central Government has historically played a leading role in providing for energy needs of the nation.

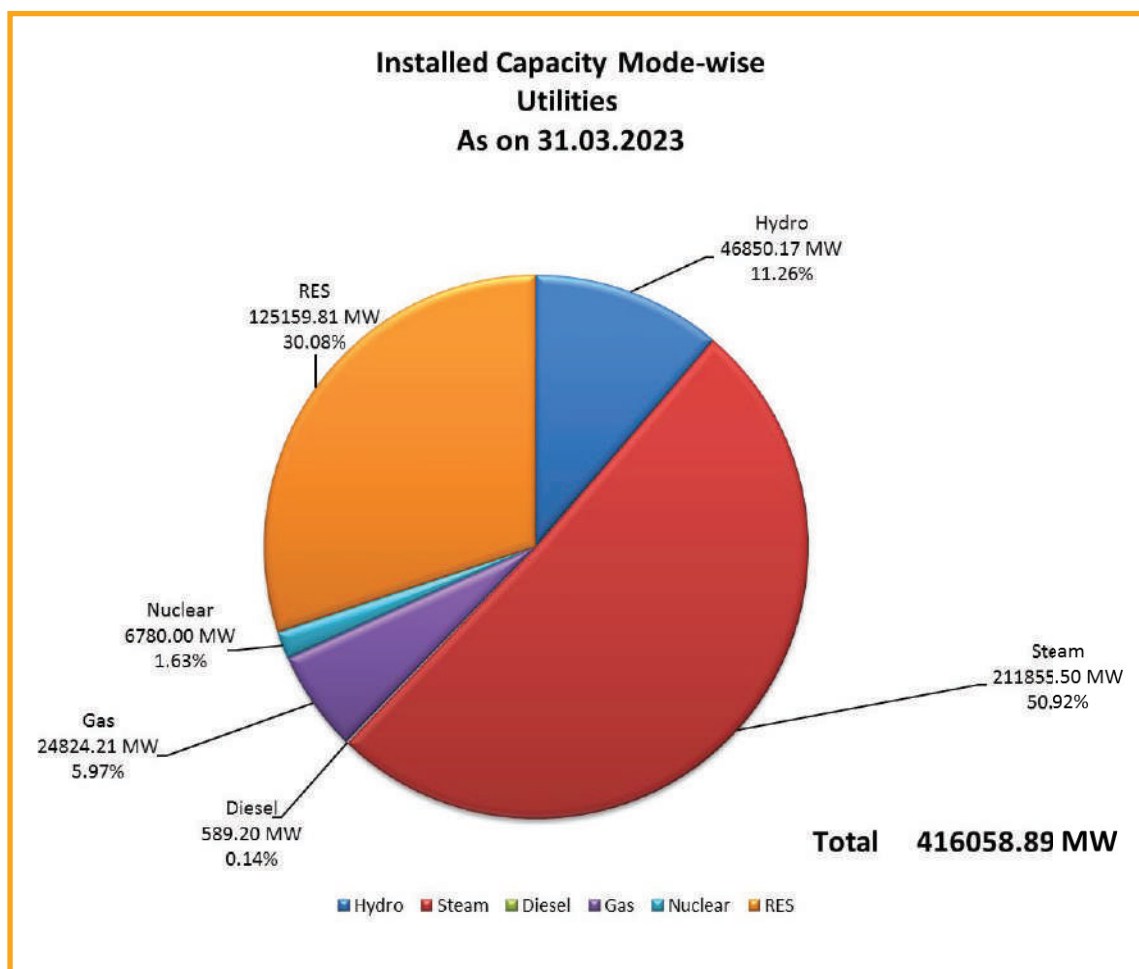
To liberalize the development of power sector, the Government brought Electricity Act-2003 into force in June, 2003. It replaced the three existing legislations namely, Indian Electricity Act 1910, the Electricity (Supply) Act 1948 and Electricity Regulatory Commission Act, 1998.

The Electricity Act-2003 consolidates laws relating to generation, transmission, distribution, trading and use of electricity and generally for taking measures conducive to development of electricity industry, promoting competition therein, protecting interest of consumers and supply of electricity to all areas, rationalization of electricity tariff, ensuring transparent policies regarding subsidies, promotion of efficient and environmentally benign policies, constitution of Central Electricity Authority, Regulatory Commissions and establishment of Appellate Tribunal and for matters connected therewith or incidental thereto. In the recent times there has been a growing realization of necessity to involve private enterprises in the development of industry.

Major growth analyses of the power sector in the country from 1950 up to 31st March, 2023 is reviewed below:

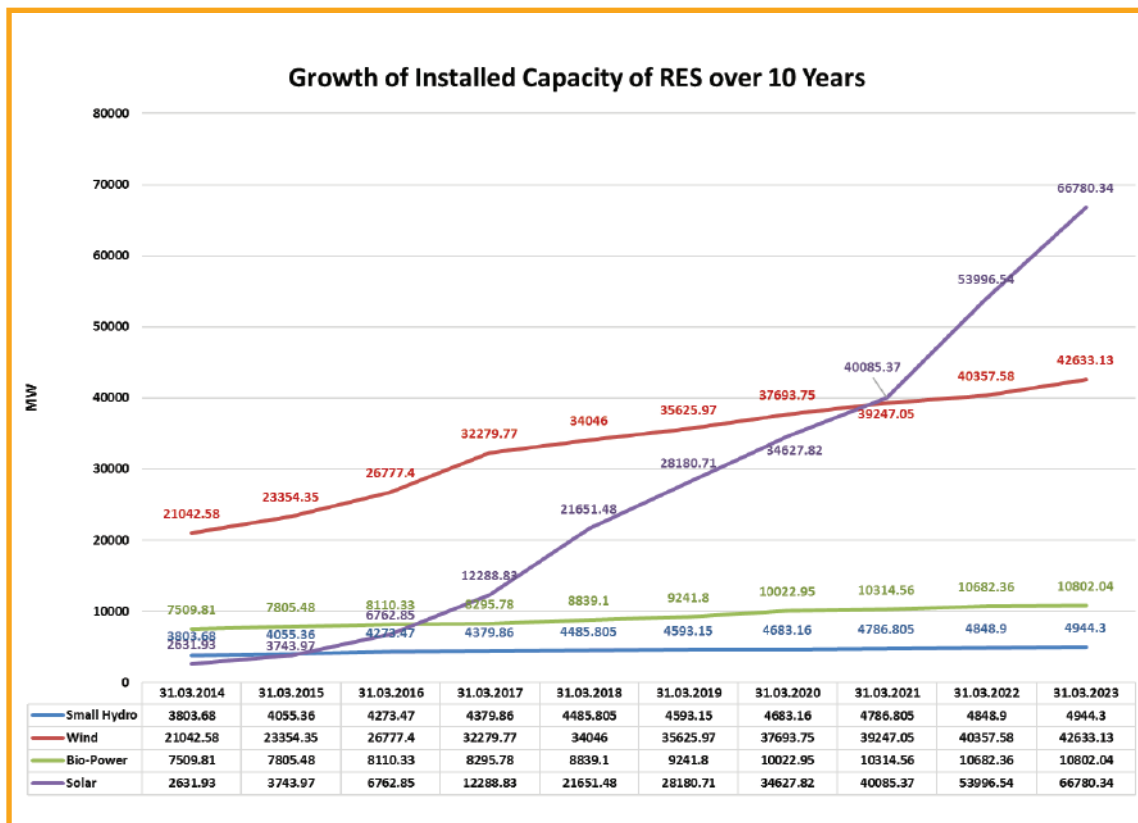
1. INSTALLED ELECTRICITY GENERATION CAPACITY

- The total installed capacity of utilities was only 1713 MW as on 31.12.1950.
- As on 31st March 2023, the All India installed capacity (excluding captive capacity) has increased to 416058.89 MW consisting of 46850.17 MW hydro, 237268.91MW thermal, 6780 MW nuclear and 125159.81 MW renewable energy taking into account the addition of new capacity and up-ration/de-ration of existing capacity and retirement of old and inefficient units at the end of the year 2022-23.

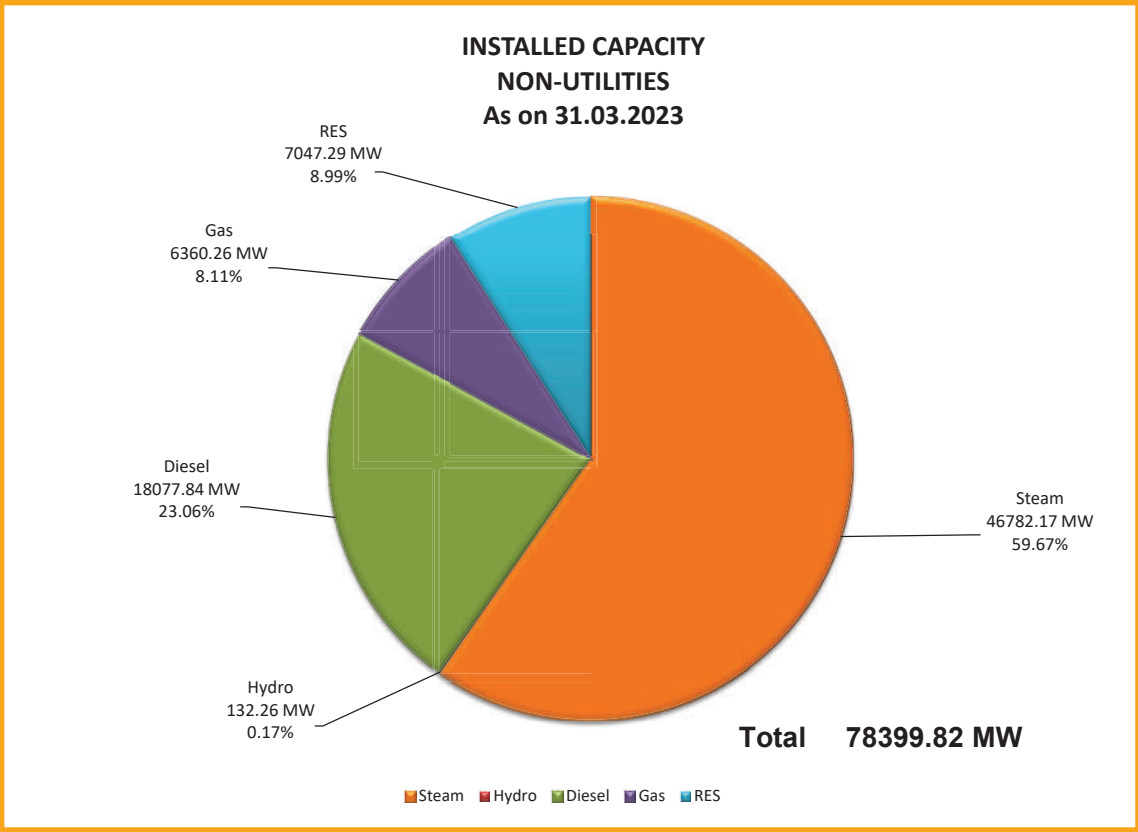


The details of growth of installed capacity (conventional & RES) is given at **Table 1.2**.

- During the period 2014-23 the Installed Capacity of RES (excluding large Hydro) has grown from 34988.00 MW as on 31.03.2014 to 125159.81 MW as on 31.03.2023 registering a CAGR of 16.34%.



- The total installed capacity of captive power plants in industries having demand of 0.5 MW & above, at the end of the fiscal year 2022-23 has grown to 78399.82 MW out of which the contribution of hydro was 132.26 MW, steam 46782.17 MW, diesel 18077.84 MW, gas 6360.26 MW, and RES 7047.29 MW.

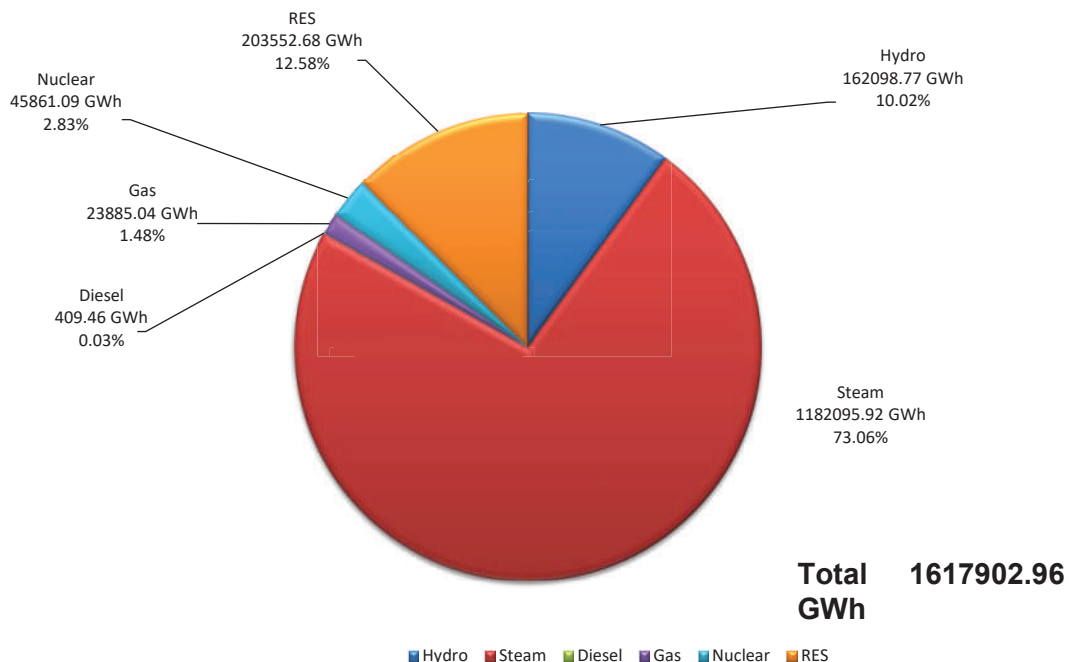


Growth of captive power plant details are given at **Table 1.5**.

2. GROSS ELECTRICITY GENERATION

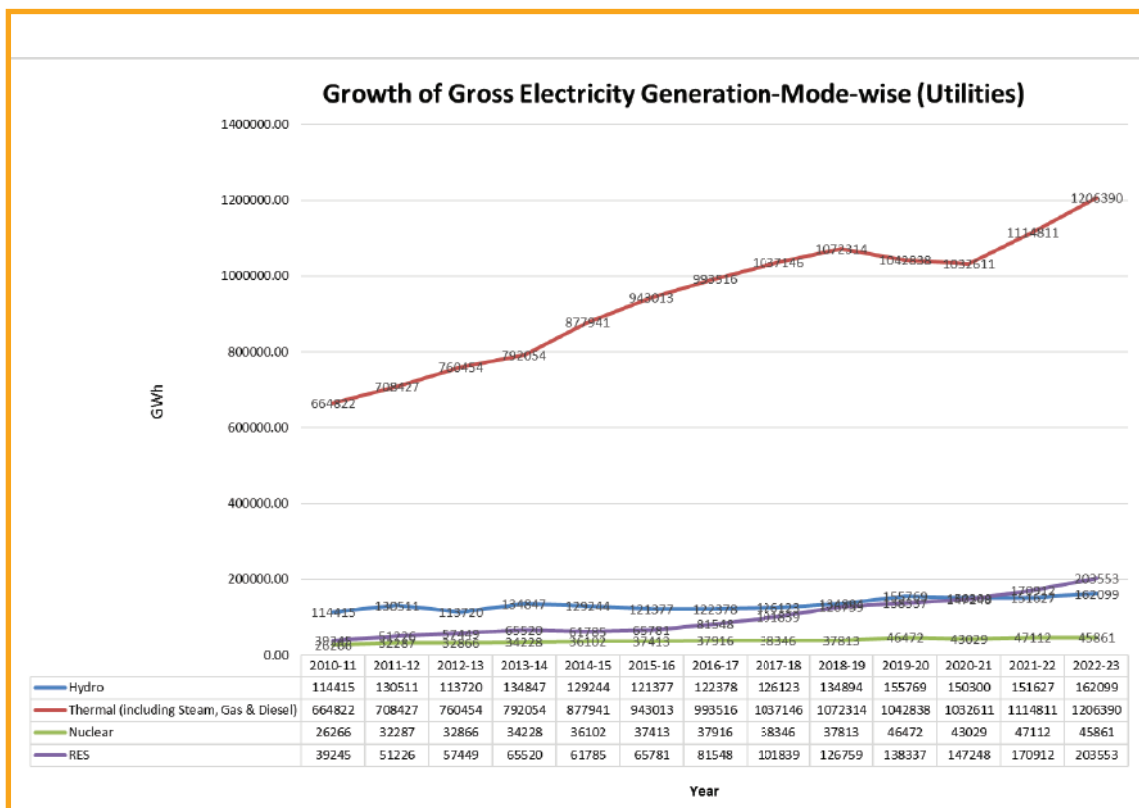
- All India gross electricity generation which was 5106 GWh during the year ending 31.12.1950 grew up to 1617902.96 GWh (excluding generation from captive plants) during the year 2022-23 constituting 162098.77 GWh hydro, 1206390.42 GWh thermal, 45861.09 GWh nuclear and 203552.68 GWh RES (Renewable Energy Sources).

ALL INDIA GROSS ELECTRICITY GENERATION UTILITIES 2022-23

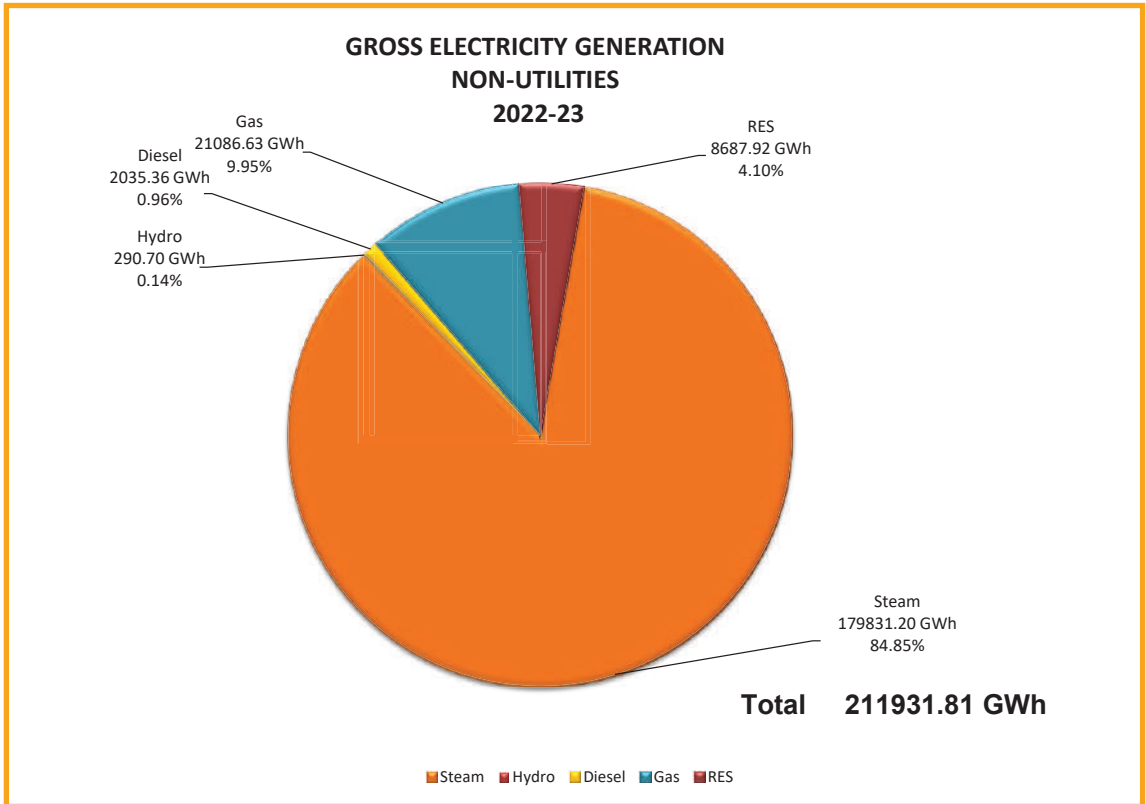


Yearly details of generation growth are given at **Table 1.3**.

- During the period 2014-23 the Generation from RES (excluding large Hydro) has grown from 65520 GWh during FY 2013-14 to 203552.68 GWh during FY2022-23 registering a CAGR of **13.49%**.



- Electricity generated from the captive electricity generation plants during the year 2022-23 was 211931.81 GWh, constituting 290.70 GWh from hydro, 179831.20 GWh from steam, 2035.36 GWh from diesel, 21086.63 GWh from gas and 8687.92 GWh from RES.



Details are given at **Table 1.6.**

3. ELECTRIC POWER SYSTEM LOSSES

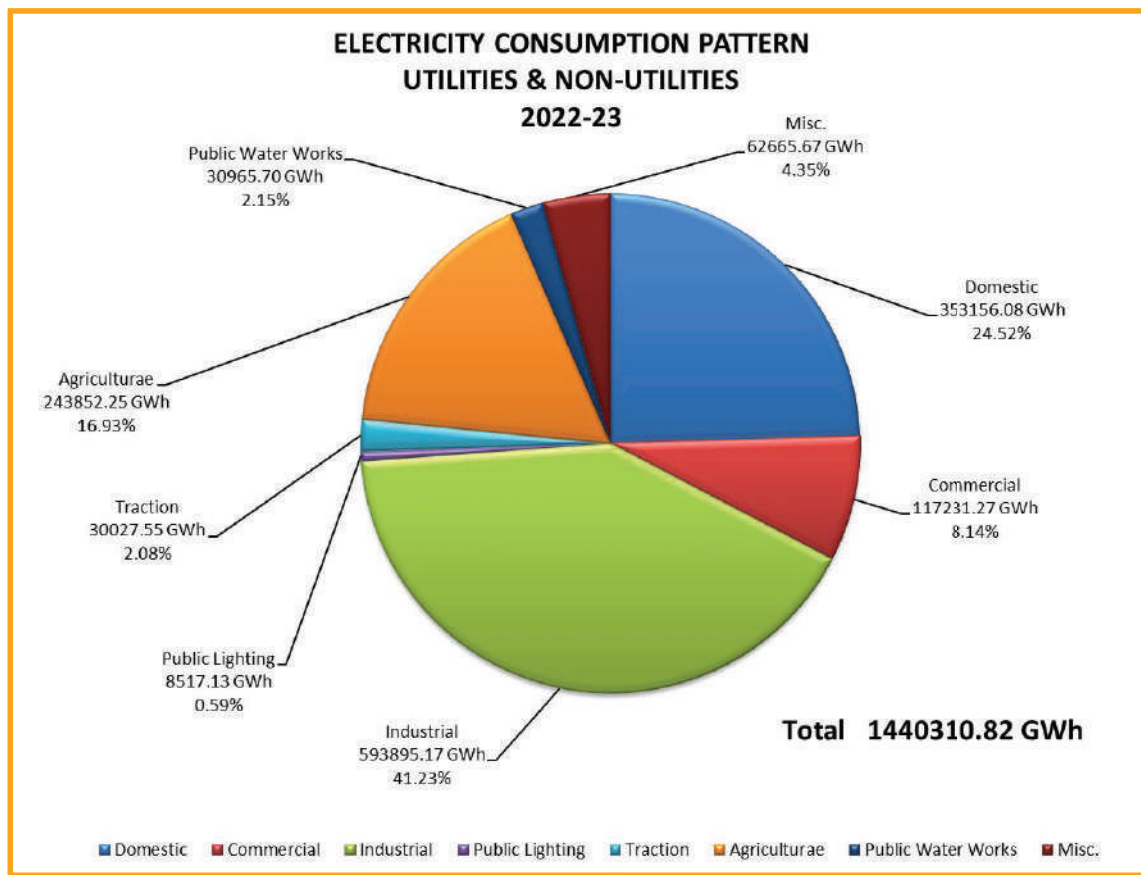
- The electricity lost in transformation, transmission and distribution system and electricity unaccounted worked out to 271561.34 GWh representing 17.68% of the total available electricity.
- Amongst all the regions percentage system losses were maximum in Eastern Region i.e. 21.45%.
- This was followed by North-Eastern Region 20.75%, Northern Region with 19.72%, Western Region with 16.61% and Southern Region with 14.52% losses.
- The percentage losses in transmission & distribution network correspond to ultimate consumption within various States/Union Territories.

4. ELECTRICITY CONSUMPTION

- The consumption of electricity was 5610 GWh as on 31.12.1950. The consumption has been increased to 1440310.82 GWh during the year 2022-23.

Details are given at **Table 1.4 & 1.7.**

- The Industrial, Domestic and Agricultural categories constitute the major categories of consumers of electricity with a total of more than 82%, comprising of about 41.23%, 24.52% and 16.93% respectively of the total consumption including non-utilities.



5. RURAL ELECTRIFICATION

- The total number of villages electrified as on 31.12.1950 was 3061.
- The total number of villages electrified as on 31.03.2023 rose to 597464 representing 100% of the total number of villages so far as per new definition of villages electrification reported in February 2004.

Details are given at **Table 1.1.**

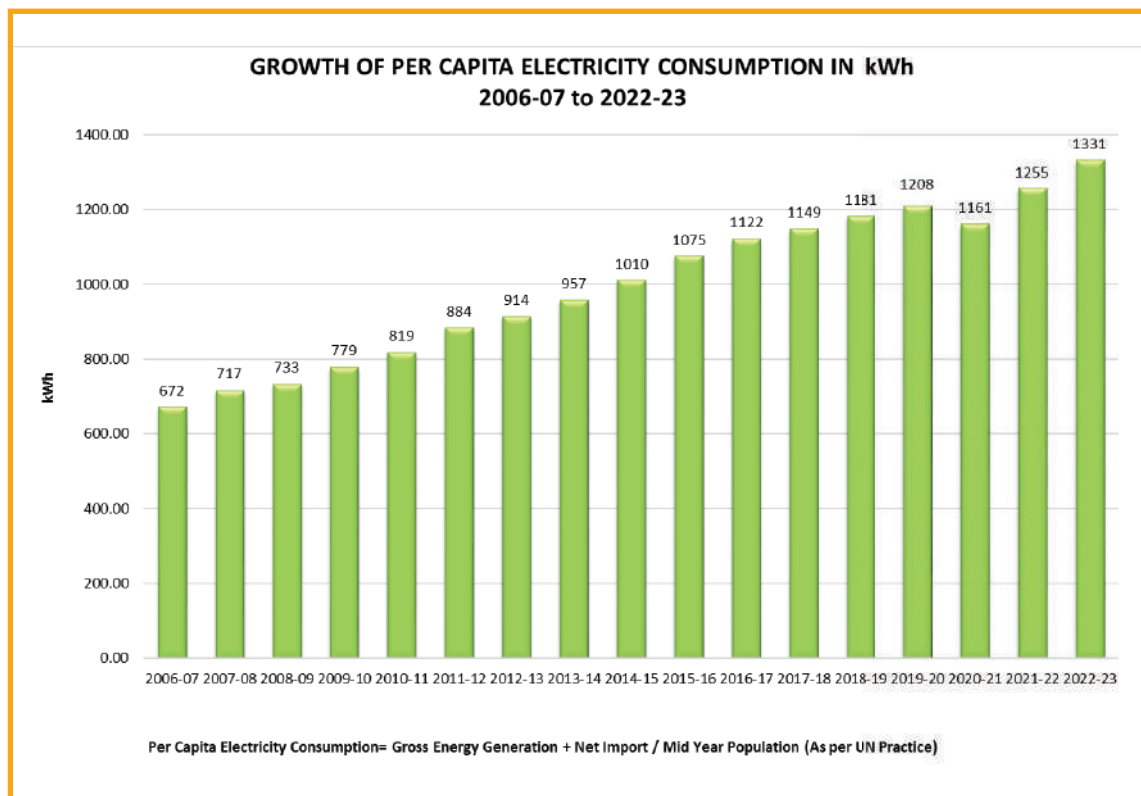
6. TRANSMISSION & DISTRIBUTION LINES

- The length of transmission and distribution lines which was 29271 ckt. kms as on 31.12.1950 rose to 14423639 ckt. kms as on 31st March 2023.

Details are given at **Table 1.1**.

7. PER CAPITA ELECTRICITY CONSUMPTION

- The per capita electricity consumption which was 18.17 kWh during 1950, has increased to 1331 kWh during the year 2022-23.



Details are given at **Table 1.1**.

Key indices of plan-wise growth of the Indian Electricity Sector are given in the tables contained in the next part of this Chapter.



TABLE 1.0
OVERVIEW OF ALL INDIA INSTALLED CAPACITY, GENERATION AND PER CAPITA CONSUMPTION OF
ELECTRICITY
2022-23

A Installed Capacity as on 31.03.2023								
(i) Utilities								(MW)
Sector		Thermal						
	Hydro	Steam	Gas	Diesel	Total Thermal	Nuclear	RES	Grand Total
1	2	3	4	5	6	7	8	9
					(3+4+5)			(2+6+7+8)
State Sector	27254.45	68687.50	7012.06	280.31	75979.87	0.00	2492.11	105726.43
Central Sector	15664.72	68740.00	7237.91	0.00	75977.91	6780.00	1632.30	100054.93
Private Sector	3931.00	74428.00	10574.24	308.89	85311.14	0.00	121035.39	210277.53
All India Total	46850.17	211855.50	14249.97	589.20	237268.91	6780.00	125159.81	416058.89
(ii) Non-Utilities								78399.82
(iii) Total All India Installed Capacity (Utilities + Non-Utilities)								494458.71
B Generation for 2022-23								
(i) Utilities								(GWh)
Sector		Thermal						
	Hydro	Steam	Gas	Diesel	Total Thermal	Nuclear	RES	Grand Total
1	2	3	4	5	6	7	8	9
					(3+4+5)			(2+6+7+8)
State Sector	83209.08	368153.21	11048.21	156.71	379358.13	0.00	5175.17	467742.38
Central Sector	62961.33	446021.00	10112.13	0.00	456133.13	45861.09	5764.91	570720.46
Private Sector	15928.36	367921.71	2724.70	252.75	370899.16	0.00	192612.60	579440.12
All India Total	162098.77	1182095.92	23885.04	409.46	1206390.42	45861.09	203552.68	1617902.96
(ii) Non-Utilities								211931.81
(iii) All India Total Generation (Utilities + Non-Utilities)								1829834.78
(iv) Net Import (+)/Export (-) outside the Country								-6152.16
(v) Total Energy available in the Country								1823682.61
C Per Capita Consumption for 2022-23(KWh)								1331
D Growth								
	2020-21		2021-22		2022-23			
	Value	% Growth	Value	% Growth	Value	% Growth		
1. Installed Capacity (MW)	382151.22	3.25	399496.61	4.54	416058.89	4.15		
2. Generation (GWh)	1373186.88	-0.74	1484463.08	8.10	1617902.96	8.99		
3. Per Capita Consumption (KWh)	1161	-3.92	1255	8.15	1331	6.06		

Note:

(i) RES-Renewable Energy Sources

(ii) % Growth is calculated over previous year



TABLE 1.1
PLAN-WISE GROWTH OF ELECTRICITY SECTOR

Sl. No.	As on	Installed Capacity (MW)	Installed Capacity (MW)	No. of villages electrified	Length of T & D Lines (Ckt. Kms.)	Per capita Electricity Consumption (kWh)
		Utilities	Non-Utilities			
1	31.12.1950	1713	588	3061	29271	18
2	31.03.1956 (End of 1st Plan)	2886	760	7294	85427	31
3	31.03.1961 (End of 2nd Plan)	4653	1001	21754	157887	46
4	31.03.1966 (End of 3rd Plan)	9027	1146	45148	541704	74
5	31.03.1969 (End of 3 Annual Plans)	12957	1339	73739	886301	98
6	31.03.1974 (End of 4th Plan)	16664	1793	156729	1546097	126
7	31.03.1979 (End of 5th Plan)	26680	2618	232770	2145919	172
8	31.03.1980 (End of Annual Plan)	28448	2860	249799	2351609	172
9	31.03.1985 (End of 6th Plan)	42585	5120	370332	3211956	229
10	31.03.1990 (End of 7th Plan)	63636	8116	470838	4407501	329
11	31.03.1992 (End of 2 Annual Plans)	69065	9301	487170	4574200	348
12	31.03.1997 (End of 8th Plan)	85795	12079	498836	5140993	465
13	31.03.2002 (End of 9th Plan)	105046	17145	512153	6030148	559
14	31.03.2007 (End of 10th Plan)	132329	22335	482864	6939894	672
15	31.03.2008 (1st year of 11th Plan)	143061	24986	487347	7287413	717
16	31.03.2009 (2nd year of 11th Plan)	147965	26674	497236	7487977	734
17	31.03.2010 (3rd year of 11th Plan)	159398	31517	500920	7801098	779
18	31.03.2011 (4th year of 11th Plan)	173626	34444	547034	8365301	819
19	31.03.2012 (End of 11th Plan)	199877	39375	556633	8726092	884
20	31.03.2013 (1st year of 12th Plan)	223344	40726	560552	9080556	914
21	31.03.2014 (2nd year of 12th Plan)	249416	42258	571782	9312634	957
22	31.03.2015 (3rd year of 12th Plan)	275895	44657	578957	9972918	1010
23	31.03.2016 (4th year of 12th Plan)	306330	48279	586065	10316547	1075
24	31.03.2017 (End of 12th Plan)	328146	51529	592972	10686448	1122
25	31.03.2018 (End of Annual Plan)	345631	54933	597121	11958511	1149
26	31.03.2019 (End of Annual Plan)	357871	75207	597464	12682649	1181
27	31.03.2020 (End of Annual Plan)	371334	76239	597464	13279315	1208
28	31.03.2021 (End of Annual Plan)	383521	78508	597464	13679477	1161
29	31.03.2022 (End of Annual Plan)	399497	76732	597464	13979990	1255
30	31.03.2023 (End of Annual Plan)	416059	78400	597464	14423639	1331

Note: Installed Capacity has been revised from 2014 onwards due to revised RES installed capacity figures issued by MNRE



TABLE 1.2
GROWTH OF INSTALLED CAPACITY - MODE-WISE
UTILITIES ONLY

(MW)

Sl. No.	As on	HYDRO	THERMAL (including Steam, Gas & Diesel)	Nuclear	RES	Total
1	31.12.1950	560	1153	0	0	1713
2	31.03.1956 (End of 1st Plan)	1061	1825	0	0	2886
3	31.03.1961 (End of 2nd Plan)	1917	2736	0	0	4653
4	31.03.1966 (End of 3rd Plan)	4124	4903	0	0	9027
5	31.03.1969 (End of 3 Annual Plans)	5907	7050	0	0	12957
6	31.03.1974 (End of 4th Plan)	6966	9058	640	0	16664
7	31.03.1979 (End of 5th Plan)	10833	15207	640	0	26680
8	31.03.1980 (End of Annual Plan)	11384	16424	640	0	28448
9	31.03.1985 (End of 6th Plan)	14460	27030	1095	0	42585
10	31.03.1990 (End of 7th Plan)	18307	43746	1565	18	63636
11	31.03.1992 (End of 2 Annual Plans)	19194	48054	1785	32	69065
12	31.03.1997 (End of 8th Plan)	21658	61010	2225	902	85795
13	31.03.2002 (End of 9th Plan)	26269	74429	2720	1628	105046
14	31.03.2007 (End of 10th Plan)	34654	86014	3900	7761	132329
15	31.03.2008 (1st year of 11th Plan)	35909	91907	4120	11125	143061
16	31.03.2009 (2nd year of 11th Plan)	36878	93725	4120	13242	147965
17	31.03.2010 (3rd year of 11th Plan)	36863	102454	4560	15521	159398
18	31.03.2011 (4th year of 11th Plan)	37567	112824	4780	18455	173626
19	31.03.2012 (End of 11th Plan)	38990	131603	4780	24504	199877
20	31.03.2013 (1st year of 12th Plan)	39491	151531	4780	27542	223344
21	31.03.2014 (2nd year of 12th Plan)	40531	168255	4780	35850	249416
22	31.03.2015 (3rd year of 12th Plan)	41267	188898	5780	39950	275895
23	31.03.2016 (4th year of 12th Plan)	42783	210675	5780	47091	306330
24	31.03.2017 (End of 12th Plan)	44478	218330	6780	58558	328146
25	31.03.2018 (End of Annual Plan)	45293	222907	6780	70651	345631
26	31.03.2019 (End of Annual Plan)	45399	226279	6780	79412	357871
27	31.03.2020 (End of Annual Plan)	45699	230600	6780	88255	371334
28	31.03.2021 (End of Annual Plan)	46209	234728	6780	95803	383521
29	31.03.2022 (End of Annual Plan)	46723	236109	6780	109885	399497
30	31.03.2023 (End of Annual Plan)	46850	237269	6780	125160	416059

RES : Renewable Energy Sources. Includes Solar, Small Hydro Projects, Wind, Bio Power Baggasse, Bio Power-Waste to Energy

Note: Installed Capacity has been revised from 2014 onwards due to revised RES installed capacity figures issued by MNRE



TABLE 1.3
GROWTH OF GROSS ELECTRICITY GENERATION - MODE-WISE
UTILITIES ONLY

(GWh)

Sl. No.	During financial year	HYDRO	THERMAL (including Steam, Gas & Diesel)	Nuclear	RES	Total
1	1950	2519	2587	0	0	5106
2	1955-56 (End of 1st Plan)	4295	5367	0	0	9662
3	1960-61 (End of 2nd Plan)	7837	9100	0	0	16937
4	1965-66 (End of 3rd Plan)	15225	17765	0	0	32990
5	1968-69 (End of 3 Annual Plans)	20723	26711	0	0	47434
6	1973-74 (End of 4th Plan)	28972	35321	2396	0	66689
7	1978-79 (End of 5th Plan)	47159	52594	2770	0	102523
8	1979-80 (End of Annual Plan)	45478	56273	2876	0	104627
9	1984-85 (End of 6th Plan)	53948	98836	4075	0	156859
10	1989-90 (End of 7th Plan)	62116	178690	4625	6	245438
11	1991-92 (End of 2 Annual Plans)	72757	208708	5525	38	287029
12	1996-97 (End of 8th Plan)	68901	317042	9071	876	395889
13	2001-02 (End of 9th Plan)	73580	422300	19475	2085	517439
14	2006-07 (End of 10th Plan)	113502	528490	18802	9860	670654
15	2007-08 (1st year of 11th Plan)	120877	560072	16957	25210	723116
16	2008-09 (2nd year of 11th Plan)	110098	588282	14927	27860	741167
17	2009-10 (3rd year of 11th Plan)	104059	640208	18636	36947	799850
18	2010-11 (4th year of 11th Plan)	114415	664822	26266	39245	844748
19	2011-12 (End of 11th Plan)	130511	708427	32287	51226	922451
20	2012-13 (1st year of 12th Plan)	113720	760454	32866	57449	964489
21	2013-14 (2nd year of 12th Plan)	134847	792054	34228	65520	1026649
22	2014-15 (3rd year of 12th Plan)	129244	877941	36102	61719	1105006
23	2015-16 (4th year of 11th Plan)	121377	943013	37413	65781	1167584
24	2016-17 (End of 12th Plan)	122378	993516	37916	81548	1235358
25	2017-18 (End of Annual Plan)	126123	1037146	38346	101839	1303455
26	2018-19 (End of Annual Plan)	134894	1072314	37813	126759	1371779
27	2019-20 (End of Annual Plan)	155769	1042838	46472	138337	1383417
28	2020-21 (End of Annual Plan)	150300	1032611	43029	147248	1373187
29	2021-22 (End of Annual Plan)	151627	1114811	47112	170912	1484463
30	2022-23 (End of Annual Plan)	162099	1206390	45861	203553	1617903

Note: 1. RES Generation upto 2013-2014 as per normative generation. RES Generation during 2014-2015 onwards are as per actual generation received from utilities.



TABLE 1.4
PLAN-WISE GROWTH OF ELECTRICITY CONSUMPTION - CATEGORY WISE
UTILITIES & NON-UTILITIES

(GWh)

Sl. No.	During financial year	Domestic	Commercial	Industrial	Traction	Agriculture	Others	Total
1	1950	525	309	4057	308	162	249	5610
2	1955-56 (End of 1st Plan)	934	546	7514	405	316	435	10150
3	1960-61 (End of 2nd Plan)	1492	848	12547	454	833	630	16804
4	1965-66 (End of 3rd Plan)	2355	1650	22596	1057	1892	905	30455
5	1968-69 (End of 3 Annual Plans)	3184	2126	29931	1247	3465	1439	41392
6	1973-74 (End of 4th Plan)	4645	2988	37791	1531	6310	2292	55557
7	1978-79 (End of 5th Plan)	7576	4330	54440	2186	12028	3445	84005
8	1979-80 (End of Annual Plan)	8402	4657	53206	2301	13452	3316	85334
9	1984-85 (End of 6th Plan)	15506	6937	73520	2880	20961	4765	124569
10	1989-90 (End of 7th Plan)	29577	9548	100373	4070	44056	7474	195098
11	1991-92 (End of 2 Annual Plans)	35854	12032	110844	4520	58557	9394	231201
12	1996-97 (End of 8th Plan)	55267	17519	139253	6594	84019	12642	315294
13	2001-02 (End of 9th Plan)	79694	24139	159507	8106	81673	21551	374670
14	2002-03 (1st year of 10th Plan)	83355	25437	168821	8797	84486	22564	393460
15	2003-04 (2nd year of 10th Plan)	89736	28201	181970	9210	87089	22128	418334
16	2004-05 (3rd year of 10th Plan)	95659	31381	199448	9495	88555	23455	447993
17	2005-06 (4th year of 10th Plan)	100090	35965	214121	9943	90292	24040	474451
18	2006-07 (End of 10th Plan)	111002	40220	241216	10800	99023	23411	525672
19	2007-08 (1st year of 11th Plan)	120918	46685	265407	11108	104182	29660	577960
20	2008-09 (2nd year of 11th Plan)	130495	54199	281663	11813	107767	28590	614527
21	2009-10 (3rd year of 11th Plan)	141845	58971	297621	12390	119492	27712	658031
22	2010-11 (4th year of 11th Plan)	155301	63912	225019	13323	126377	33037	616969
23	2011-12 (End of 11th Plan)	171104	65381	352291	14206	140960	41252	785195
24	2012-13 (1st year of 12th Plan)	183700	72794	365989	14100	147462	40256	824301
25	2013-14 (2nd year of 12th Plan)	199842	74247	384418	15540	152744	47418	874209
26	2014-15 (3rd year of 12th Plan)	217405	78391	418346	16177	168913	49290	948522
27	2015-16 (4th year of 12th Plan)	238876	86037	423523	16594	173185	62976	1001191
28	2016-17 (5th year of 12th Plan)	255826	89825	440206	15683	191151	68493	1061183
29	2017-18 (Annual Plan)	273545	93755	468613	17433	199247	70834	1123427
30	2018-19 (Annual Plan)	288243	98228	519196	18837	213409	72058	1209972
31	2019-20 (Annual Plan)	308745	106047	532820	19148	211295	70031	1248086
32	2020-21 (Annual Plan)	330809	86950	508776	14668	221303	67701	1230208
33	2021-22 (Annual Plan)	339780	97121	556481	21935	228451	72996	1316765
34	2022-23 (Annual Plan)	353156	117231	593895	30028	243852	102148	1440311
	Percentage Share (2022-23)	24.52	8.14	41.23	2.08	16.93	7.09	100.00



TABLE 1.5
GROWTH OF INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW AND ABOVE
MODE-WISE

Sl. No.	As on	HYDRO	STEAM	DIESEL	GAS	RES	SUB – TOTAL	RAILWAYS	TOTAL
1	2	3	4	5	6	7	8	9	10
1	31.12.1950*						587.85		587.85
2	31.03.1956* (End of 1st Plan)						759.65		759.65
3	31.03.1961* (End of 2nd Plan)						1001.37		1001.37
4	31.03.1966* (End of 3rd Plan)						1082.36		1082.36
5	31.03.1969* (End of 3 Annual Plan)						1277.47		1277.47
6	31.03.1974* (End of 4th Plan)						1732.70		1732.70
7	31.03.1979 (End of 5th Plan)	2.61	1949.23	559.17	44.27	0.00	2555.28	62.31	2617.59
8	31.03.1980 (End of Annual Plan)	2.61	2021.61	720.58	54.27	0.00	2799.07	60.44	2859.51
9	31.03.1985 (End of 6th Plan)	2.91	2803.18	2077.06	155.31	0.00	5038.46	81.80	5120.26
10	31.03.1990 (End of 7th Plan)	3.60	4822.85	2754.48	425.51	0.00	8006.44	109.29	8115.73
11	31.03.1992 (End of 2 Annual Plans)	4.30	5377.10	3291.06	495.72	0.00	9168.18	133.23	9301.41
12	31.03.1997 (End of 8th Plan)	3.50	6151.69	4529.91	1166.38	64.83	11916.31	162.62	12078.93
13	31.03.2002 (End of 9th Plan)	51.10	8354.03	6521.95	2125.91	92.21	17145.20	NA	17145.20
14	31.03.2007 (End of 10th Plan)	60.50	11397.52	7723.35	2976.00	177.67	22335.04	NA	22335.04
15	31.03.2008 (End of 1st year of 11th Plan)	60.50	11763.99	8647.92	4209.23	304.75	24986.39	NA	24986.39
16	31.03.2009 (End of 2nd year of 11th Plan)	110.79	13817.53	8749.67	3621.05	374.63	26673.68	NA	26673.68
17	31.03.2010 (End of 3rd year of 11th Plan)	55.01	17183.34	9456.61	4368.02	453.89	31516.87	NA	31516.87
18	31.03.2011 (End of 4th year of 11th Plan)	56.88	19111.54	9655.25	5053.76	566.69	34444.12	NA	34444.12
19	31.03.2012 (End of 11th Plan)	47.59	22615.39	9955.23	5884.95	872.21	39375.37	NA	39375.37
20	31.03.2013 (End of 1st year of 12th Plan)	66.90	23889.61	11148.14	4497.69	1124.05	40726.39	NA	40726.39
21	31.03.2014 (End of 2nd year of 12th Plan)	63.59	24751.58	11432.35	4751.35	1259.00	42257.87	NA	42257.87
22	31.03.2015 (End of 3rd year of 12th Plan)	65.09	26088.59	12008.89	5193.44	1300.84	44656.85	NA	44656.85
23	31.03.2016 (End of 4th year of 12th Plan)	59.09	28687.59	12346.61	5818.62	1367.58	48279.48	NA	48279.48
24	31.03.2017 (End of 12th Plan)	65.29	30571.95	13349.69	6109.21	1433.06	51529.19	NA	51529.19
25	31.03.2018 (End of Annual Plan)	50.96	32854.41	13144.60	7156.37	1726.17	54932.51	NA	54932.51
26	31.03.2019 (End of Annual Plan)	103.39	47679.04	15570.97	8787.13	3066.59	75207.13	NA	75207.13
27	31.03.2020 (End of Annual Plan)	130.77	51542.77	12774.66	7315.87	4475.29	76239.36	NA	76239.36
28	31.03.2021 (End of Annual Plan)	130.70	47759.52	17562.86	7361.11	5693.78	78507.97	NA	78507.97
29	31.03.2022 (End of Annual Plan)	134.60	45302.73	18648.78	5685.25	6961.08	76732.43	NA	76732.43
	31.03.2023 (End of Annual Plan)	132.26	46782.17	18077.84	6360.26	7047.29	78399.82	NA	78399.82

Note:
1. *Break-up not available
2. NA - Not Available
3. Data prior to FY2021-22 includes demand of 1MW and above



TABLE 1.6
GROWTH OF ELECTRICITY GENERATION FROM CAPTIVE POWER PLANTS
IN INDUSTRIES HAVING DEMAND OF 0.5 MW AND ABOVE
MODE-WISE

(GWh)

Sl. No.	During financial year	HYDRO	STEAM	DIESEL	GAS	RES	SUB – TOTAL	RAILWAYS	TOTAL
1	2	3	4	5	6	7	8	9	10
1	1950*						1467.81		1467.81
2	1955-56*						2184.82		2184.82
3	1960-61*						3186.10		3186.10
4	1965-66*						3733.19		3733.19
5	1968-69*						4136.06		4136.06
6	1973-74*						6067.47		6067.47
7	1978-79	13.22	7211.30	299.13	48.97	0.00	7572.62	34.47	7607.09
8	1979-80	15.06	7225.60	825.71	90.67	0.00	8157.04	35.67	8192.71
9	1984-85	18.29	9966.55	2001.18	317.03	0.00	12303.05	42.80	12345.85
10	1989-90	15.83	19110.46	2757.27	1313.29	0.00	23196.85	29.07	23225.92
11	1991-92	17.57	23409.35	3247.81	1905.24	0.00	28579.97	22.52	28602.49
12	1996-97	28.84	29127.94	6573.38	5039.22	45.63	40815.01	25.07	40840.08
13	2000-01	99.85	40256.24	11397.99	7782.34	101.54	59637.96	NA	59637.96
14	2001-02	116.59	41853.85	10719.66	8835.19	155.53	61680.82	NA	61680.82
15	2002-03	90.32	42229.66	11155.33	10198.16	1176.43	63849.90	NA	63849.90
16	2003-04	97.49	39610.29	13403.31	14874.38	187.65	68173.12	NA	68173.12
17	2004-05	112.77	44016.99	12039.86	15052.05	194.95	71416.62	NA	71416.62
18	2005-06	236.47	46264.87	12253.22	14664.72	220.42	73639.70	NA	73639.70
19	2006-07	217.81	56184.04	9974.85	15207.17	215.88	81799.76	NA	81799.76
20	2007-08	202.21	53568.52	10737.96	25584.58	383.43	90476.69	NA	90476.69
21	2008-09	146.01	73626.49	10082.14	15306.09	560.43	99721.16	NA	99721.16
22	2009-10	151.78	77416.34	8217.22	19738.71	609.05	106133.10	NA	106133.10
23	2010-11	148.79	96657.13	7753.53	15435.17	922.29	120916.91	NA	120916.91
24	2011-12	131.28	104862.65	6244.32	21971.57	1178.17	134387.98	NA	134387.98
25	2012-13	118.18	113166.95	8205.22	20768.88	1750.42	144009.65	NA	144009.65
26	2013-14	129.06	118178.44	8866.47	19911.64	1902.62	148988.22	NA	148988.22
27	2014-15	144.69	128401.06	9919.57	21135.25	2656.43	162257.00	NA	162257.00
28	2015-16	110.09	136720.54	8412.16	21083.29	2046.08	168372.16	NA	168372.16
29	2016-17	143.64	137588.31	9181.74	22855.31	2277.02	172046.03	NA	172046.03
30	2017-18	112.48	143867.68	8106.89	25362.17	2328.17	179777.39	NA	179777.39
31	2018-19	270.04	184250.36	5334.32	19545.09	3673.92	213073.73	NA	213073.73
32	2019-20	348.04	205545.78	1919.32	25443.15	6310.47	239566.76	NA	239566.76
33	2020-21	339.12	193142.60	2504.19	21683.55	7157.94	224827.40	NA	224827.40
34	2021-22	356.66	179235.45	2104.51	20801.17	6812.98	209310.77	NA	209310.77
35	2022-23	290.70	179831.20	2035.36	21086.63	8687.92	211931.81	NA	211931.81

Note: 1. *Break-up not available

2. NA - Not Available

3. Data prior to FY2021-22 includes demand of 1MW and above



TABLE 1.7
GROWTH OF TOTAL ELECTRICITY CONSUMPTION (GWH) BY ULTIMATE CONSUMERS
STATE-WISE
UTILITIES ONLY

State/UTs	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Chandigarh	1365	1419	1472	1497	1589	1574	1535	1604	1349	1409	1646
Delhi	23144	23981	24775	25658	26604	28488	29169	29812	26319	27625	34107
Haryana	26258	29083	32197	35092	34501	38215	41017	43382	41944	46231	55241
Himachal Pradesh	7358	7649	7842	7958	7974	8405	9041	9124	8635	10198	10976
Jammu & Kashmir	5163	5754	6372	7144	7902	8395	9633	10623	9984	10231	9769
Punjab	35825	37557	39384	40843	44050	47027	50120	49168	50286	53489	58532
Rajasthan	42160	43151	49920	50359	51027	53618	60151	61942	64888	69831	79615
Uttar Pradesh	55550	59177	64707	70967	81068	90395	91355	94932	93600	98730	115675
Uttarakhand	8574	9597	9980	10298	11162	11210	11543	12021	11225	12519	13509
Sub-Total (NR)	205397	217368	236648	249816	265878	287327	303565	312608	308231	330264	379071
Chhattisgarh	14115	14791	17102	18887	19159	20363	22210	22793	23361	25161	30477
Gujarat	63427	66878	73890	77028	85556	90719	95970	92245	92276	106469	124101
Madhy Pradesh	32936	36770	41757	46384	45681	52523	56972	58628	60954	65502	70422
Maharashtra	100285	100842	108496	115356	121051	124921	132619	125645	126423	142088	155518
Dadar & Nagar Haveli and Diu	1814	1819	1595	1692	1737	2377	2431	2496	2137	2482	9335
Goa	2998	3085	3151	3391	3475	3618	3787	4104	3700	4014	4508.32
Sub-Total (WR)	220170	229375	251154	268286	282397	300193	320056	312199	314138	352096	394361
Andhra Pradesh	68439	72919	41914	44353	47761	51001	55407	57119	51756	63269	62913
Telangana			39639	41289	44446	51198	58366	59365	57896	62102	67828
Karnataka	51439	53716	55166	57223	58152	59236	62405	61131	62783	61064	66357
Kerala	16833	18025	18786	19829	20218	21354	21414	23149	22599	23931	24906
Tamil Nadu	62077	71772	77618	80083	83936	86654	91788	95919	94592	101908	103679
Puducherry	2492	2532	2441	2468	2556	2540	2654	2714	2603	2774	2908
Lakshadweep	38	41	45	46	48	49	49	48	53	50	52
Sub-Total (SR)	201318	219005	235608	245291	257118	272031	292083	299444	292283	315098	328642
Bihar	6721	7980	9807	13250	17251	18713	20856	22709	24108	26064	30338
Jharkhand	17124	18175	16533	17542	19549	19950	21184	21997	21375	23139	26408
Orissa	13552	14411	15440	16053	16988	17714	19373	20716	20610	29541	30449
West Bengal	36320	36592	39059	42497	43946	45478	48290	50482	48394	50881	58579
Sikkim	385	405	405	354	437	344	381	411	415	441	486
A & N Islands	206	216	229	242	266	266	255	269	245	267	284
Sub-Total (ER)	74309	77778	81473	89938	98436	102464	110339	116583	115147	130333	146544
Arunachal Pradesh	471	481	543	375	371	437	447	419	405	518	582
Assam	4205	4763	5484	6199	6525	7064	7268	7109	7356	8521	10004
Manipur	379	398	465	475	512	564	613	631	651	732	845
Meghalaya	1259	1322	1233	1283	972	1064	1105	1259	1326	1507	1719
Mizoram	287	303	327	339	354	396	408	486	454	661	494
Nagaland	328	395	529	549	635	664	679	693	683	704	687
Tripura	721	722	786	813	895	928	956	914	982	1051	1154
Sub-Total (NER)	7649	8383	9367	10033	10264	11116	11475	11512	11858	13694	15485
Total(All India)	708843	751908	814250	863364	914093	973131	1037518	1052346	1041656	1141485	1264103



TABLE 1.8
ALL INDIA CAPACITY ADDITION (CONVENTIONAL) TARGETS & ACHIEVEMENTS
DURING VARIOUS PLANS

PLAN	Targets (MW)	Achievements (MW)	Achievements (%)
1st Plan (1951-1956)	1300	1100	84.6
2nd Plan (1956-1961)	3500	2250	64.3
3rd Plan (1961-1966)	7040	4520	64.2
3 Annual Plans (1966-1969)	5430	4120	75.9
4th Plan (1969-1974)	9264	4579	49.4
5th Plan (1974-1979)	12499	10202	81.6
Annual Plan (1979-1980)	2813	1799	64.0
6th Plan (1980-1985)	19666	14266	72.5
7th Plan (1985-1990)	22245	21402	96.2
Annual Plan (1990-1991)	4212	2776	65.9
Annual Plan (1991-1992)	3811	3027	79.4
8th Plan (1992-1997)	30538	16423	53.8
9th Plan (1997-2002)	40245	19119	47.5
10th Plan (2002-2007)	41110	21180	51.5
11th Plan (2007-12)	78700	54965	69.8
12th Plan (2012-17)	88537	99209	112.1
Annual Plan (2017-2018)	13171	9505	72.2
Annual Plan (2018-2019)	8106	5922	73.1
Annual Plan (2019-2020)	12186	7065	58.0
Annual Plan (2020-2021)	11197	5436	48.5
Annual Plan (2021-2022)	11478	4878	42.5
Annual Plan (2022-2023)	8830	1580	17.9

CHAPTER 2

ORGANIZATIONAL STRUCTURE OF ELECTRICITY SUPPLY INDUSTRY IN INDIA







CHAPTER 2

ORGANIZATIONAL STRUCTURE OF ELECTRICITY SUPPLY INDUSTRY IN INDIA

Formation of State Electricity Boards in various parts of the country started in the early 1950s to bring about systematic growth of power supply industry all over the country. In the year 1996-97, there were 18(eighteen) State Electricity Boards and 37(thirty-seven) State/ Central/ UTs owned undertakings/ corporations/ electricity departments dealing in generation/ transmission/distribution of Electricity. The process of unbundling of SEBs first started in Odisha with the formation of GRIDCO & OHPC Ltd. in the year 1996-97. With the promulgation of the Electricity Act 2003, all the SEBs have been unbundled.

- As on 31st March 2023, there were one hundred fifty-one (151) Companies, Power Corporations, Management Boards under Central, State or Joint partnership existing in the country which are engaged in Generation, Transmission and Distribution apart from eleven (11) Electricity Departments in the States and Union Territories.
- As on 31.03.2023, there were forty-seven (47) Power Trading Companies and one hundred fifty-nine (159) private licensees including Electric Supply Co-operative Societies existing.

The list of various utilities in the public as well as in the private sector responsible for electricity generation, transmission, distribution and trading in the country is given in **Tables 2.1 to 2.5.**



TABLE 2.1
COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY
FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION

Sl. No.	Name	Head Quarter	Ownership by Govt.
(A) Generation Undertakings			
1	A.P. Gas Power Corporation Ltd.	Hyderabad	J.V. of AP & Pvt. Industries*
2	Andhra Pradesh Power Development company Ltd.	Hyderabad	Andhra Pradesh
3	Andhra Pradesh Power Generation Corpn. Ltd.	Vijaywada	Andhra Pradesh.
4	Aravali Power Company Pvt. Ltd.	New Delhi	Central Sector (JV)
5	Assam Power Generation Corporation. Ltd.	Guwahati	Assam
6	Bhartiya Rail Bijlee Company Ltd.	Patna	Central Sector (JV)
7	Bhavnagar Energy Co. Ltd.	Gandhinagar	Gujarat
8	Bihar State Power Generation Co. Ltd.	Patna	Bihar
9	Chhattisgarh State Power Generation Co. Ltd.	Raipur	Chhattisgarh
10	GSPC Pipavav Power company Ltd.	Gandhinagar	Gujarat
11	Gujarat Mineral Development Corpn. Ltd.	Ahmedabad	Gujarat
12	Gujarat State Electricity Corpn. Ltd.	Vadodara	Gujarat
13	Gujarat State Energy Generation Ltd.	Gandhinagar	Gujarat
14	Haryana Power Generation Corp. Ltd.	Panchkula	Haryana
15	Himachal Pradesh Power Corporation Limited	Shimla	Himachal Pradesh
16	Indraprastha Power Generation Co. Ltd.	Delhi	Delhi
17	J & K State Power Development Corporation Ltd.	Srinagar	J & K Govt.
18	Jharkhand Urja Utpadan Nigam Ltd.	Ranchi	Jharkhand
19	Kanti Bijlee Utpadan Nigam Ltd.	New Delhi	Central Sector (JV)
20	Karnataka Power Corp. Ltd.	Bengaluru	Karnataka
21	M.P. Power Generating Co. Ltd.	Jabalpur	Madhya Pradesh
22	Machkund Hydro Electric Project	Vishakhapatnam	A.P. /Odisha
23	Maharashtra State Power Generation Co. Ltd.	Mumbai	Maharashtra
24	Meghalaya Power Generation Corporation Ltd.	Shillong	Meghalaya
25	Meja Urja Nigam Pvt Limited	Delhi	Central Sector (JV)
26	Nabinagar Power Generating Company Pvt. Ltd.	New Delhi	Central
27	Narmada Hydroelectric Development Corpn. Ltd	Bhopal	Central
28	National Hydroelectric Power Corp. Ltd.	Faridabad	Central
29	National Thermal Power Corp. Ltd.	New Delhi	Central
30	Neyveli Lignite Corporation Ltd.	Neyveli	Central
31	NLC Tamil Nadu Power Ltd.	Chennai	Tamil Nadu
32	North-Eastern Electric Power Corpn. Ltd.	Shillong	Central
33	NTPC-Sail Power Company Ltd.	New delhi	Central Sector (JV)
34	NTPC-Tamil Nadu Energy Company Ltd.	Chennai	Central Sector (JV)
35	Nuclear Power Corporation of India Ltd.	Mumbai	Central
36	Odisha Hydro Power Corpn. Ltd.	Bhubaneswar	Odisha
37	Odisha Power Generation Corpn. Ltd.	Bhubaneswar	Odisha
38	ONGC Tripura Power Company Ltd	New Delhi	Central Sector (JV)
39	Pench Hydel Power Station	Totladoh	M.P. & Maharashtra
40	Pragati Power Corporation Ltd.	Delhi	Delhi



TABLE 2.1 (CONTD.)
COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY
FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION
31.03.2023

Sl. No.	Name	Head Quarter	Ownership by Govt.
41	Puducherry Power Corporation Ltd.	Puducherry	Puducherry
42	Raichur power Corporation Limited	Bengaluru	State(JV)
43	Rajasthan Rajya Vidyut Utpadan Nigam Ltd.	Jaipur	Rajasthan
44	Ratnagiri Gas & Power Pvt. Limited	New Delhi	Central Sector (JV)
45	Sardar Sarovar Narmada Nigam Ltd.	Gandhinagar	Gujarat
46	Satluj Jal Vidyut Nigam Ltd.	Shimla	Central Sector (JV)
47	Sikkim Power Development Corporation Ltd.	Gangtok	Sikkim
48	Singareni Collieries Company Ltd	Kothagudem	Telanganana
49	TB Dam Tungabhadra Board	Bellary	A.P., Karnataka
50	Teesta Urja limited	New Delhi	State Sector (JV)
51	Tehri Hydro Development Corpn. Ltd.	Rishikesh	Uttarakhand
52	Telangana State Power Generation Corpn. Ltd.	Hyderabad	Telangana
53	Tenughat Vidyut Nigam Ltd.	Ranchi	Jharkhand
54	The Durgapur Projects Ltd.	Durgapur	West Bengal
55	Uttar Pradesh Jal Vidyut Nigam Ltd.	Lucknow	Uttar Pradesh
56	Uttar Pradesh Rajya Vidyut Utpadan Nigam Ltd.	Lucknow	Uttar Pradesh
57	Uttarakhand Jal Vidyut Nigam Ltd.	Dehradun	Uttarakhand
58	West Bengal Power Development Corpn. Ltd.	Kolkata	West Bengal. Govt.
(B) Distribution Undertakings			
1	Ajmer Vidyut Vitran Nigam Ltd.	Ajmer	Rajasthan
2	Andhra Pradesh Central Power Distribution Corporation Ltd.	Vijaywada	Andhra Pradesh
3	Assam Power Distribution Company Ltd.	Guwahati	Assam
4	Bangalore Electricity Supply Co. Ltd.	Bengaluru	Karnataka
5	Brihan Mumbai Electric supply & Transport undertaking	Mumbai	Maharashtra
6	Chamundeshwari Electricity Supply Corpn. Ltd.	Mysore	Karnataka
7	Chhattisgarh State Power Distribution Co. Ltd.	Raipur	Chhattisgarh
8	Cochin Port Trust, Kochi	Kochi	Kerala
9	Cochin Special Economic Zone Authority (CSEZA), Kochi	Kochi	Kerala
10	Cochin Special Economic Zone (CSEZ), Kochi	Kochi	Kerala
11	Dakshin Gujarat Vij Company Ltd.	Surat	Gujarat
12	Dakshin Haryana Bijli Vitran Nigam Ltd.	Hisar	Haryana
13	Dakshinanchal Vidyut Vitran Nigam Ltd.	Agra	Uttar Pradesh
14	Deendayal Port Trust	Gandhidham, Kutch	Gujarat
15	DNH Power Distribution Corpon. Ltd.	Silvassa	Dadra Nagar Haveli
16	Eastern Power Distribution Co. of A.P. Ltd.,	Visakhapatnam	Andhra Pradesh.
17	Gulbarga Electricity Supply Co. Ltd.	Kalaburgi	Karnataka
18	Hubli Electricity Supply Co. Ltd.	Hubli	Karnataka
19	Infopark	Kochi	Kerala
20	Jaipur Vidyut Vitran Nigam Ltd.	Jaipur	Rajasthan
21	Jammu Power Distribution Corporation Ltd	Jammu	Jammu & Kashmir



TABLE 2.1 (CONTD.)
COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY
FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION
31.03.2023

Sl. No.	Name	Head Quarter	Ownership by Govt.
22	Jharkhand Bijli Vitran Nigam Ltd.	Ranchi	Jharkhand
23	Jodhpur Vidyut Vitran Nigam Ltd.	Jodhpur	Rajasthan
24	Kanpur Electricity Supply Co. Ltd.	Kanpur	Uttar Pradesh
25	Kashmir Power Distribution Corporation Limited	Srinagar	Jammu & Kashmir
26	M.P. Madhya Kshetra Vidyut Vitran Corp. Ltd.	Bhopal	Madhya Pradesh
27	M.P. Pashchim Kshetra Vidyut Vitran Co. Ltd.	Indore	Madhya Pradesh
28	M.P. Poorv Kshetra Vidyut Vitran Corp. Ltd.	Jabalpur	Madhya Pradesh
29	Madhya Gujarat Vij Co. Ltd.	Vadodara	Gujarat
30	Madhyanchal Vidyut Vitran Nigam Ltd.	Lucknow	Uttar Pradesh
31	Maharashtra State Electricity Distribution Co. Ltd.	Mumbai	Maharashtra
32	Mangalore Electricity Supply Co. Ltd.	Mangalore	Karnataka
33	Manipur State Power Distribution Company Ltd.	Imphal	Manipur
34	Meghalaya Power Distribution Corporation Ltd.	Shillong	Meghalaya
35	Military Engineering Services	Delhi	Delhi
36	Military Engineering Services	Ranchi	Jharkhand
37	New Delhi Municipal Council	New Delhi	Delhi
38	North Bihar Power Distribution Co. Ltd.	Patna	Bihar
39	Northern Power Distribution Corpn. of Telangana Ltd.	Warangal	Telangana
40	Paschim Gujarat Vij Co. Ltd.	Rajkot	Gujarat
41	Paschimanchal Vidyut Vitran Nigam Ltd.	Meerut	Uttar Pradesh
42	Purvanchal Vidyut Vitran Nigam Ltd.	Varanasi	Uttar Pradesh
43	Rubber Park India Pvt. Ltd.	Ernakulam	Kerala
44	South Bihar Power Distribution Co. Ltd.	Patna	Bihar
45	Southern Power Distribution Co. of A.P. Ltd.	Tirupati	Andhra Pradesh
46	Southern Power Distribution co. of Telangana Ltd.	Hyderabad	Telangana
47	TechnoPark	Trivandrum	Kerala
48	Thrissur Corporation	Thrissur	Kerala
49	Uttar Gujarat Vij Company Ltd.	Mehsana	Gujarat
50	Uttar Haryana Bijli Vitran Nigam Ltd.	Panchkula	Haryana
51	Uttarakhand Power Corporation Ltd.	Dehradun	Uttarakhand
52	West Bengal State Electricity Distribution Co. Ltd.	Kolkata	West Bengal. Govt.
(C) Transmission Undertakings			
1	Assam Electricity Grid Corporation. Ltd.	Guwahati	Assam
2	Bihar State Power Transmission Co. Ltd.	Patna	Bihar
3	Chhattisgarh State Power Transmission Co. Ltd.	Raipur	Chhattisgarh
4	Delhi Transco Ltd.	Delhi	Delhi
5	Gujarat Energy Transmission Corp. Ltd	Vadodara	Gujarat
6	Haryana Vidyut Prasaran Nigam Ltd.	Panchkula	Haryana
7	Jharkhand Urja Sancharan Nigam Ltd.	Ranchi	Jharkhand
8	Jammu and Kashmir Power Transmission Corporation Ltd	Srinagar	Jammu & Kashmir



TABLE 2.1 (CONTD.)
COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY
FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION
31.03.2023

Sl. No.	Name	Head Quarter	Ownership by Govt.
9	Karnataka Power Transmission Corp. Ltd.	Bengaluru	Karnataka
10	M.P. Power Transmission Corp. Ltd.	Jabalpur	Madhya Pradesh
11	Maharashtra State Electricity Transmission Co. Ltd.	Mumbai	Maharashtra
12	Meghalaya Power Transmission Corporation Ltd.	Shillong	Meghalaya
13	Odisha Power Transmission Corporation Ltd.	Bhubneshwar	Odisha
14	Power Grid Corporation of India Ltd.	Gurugram	Central
15	Power Transmission Corporation of Uttarakhand Ltd.	Dehradun	Uttarakhand
16	Punjab Power Transmission Corporation Ltd	Patiala	Punjab
17	Rajasthan Rajya Vidyut Prasaran Nigam Ltd.	Jaipur	Rajasthan
18	Tamil Nadu Transmission Corpn. Ltd.	Chennai	Tamil Nadu
19	Transmission Corp. of Andhra Pradesh Ltd.	Vijaywada	Andhra Pradesh
20	Transmission Corpn. Of Telangana Ltd.	Hyderabad	Telangana
21	Uttar Pradesh Power Transmission Corporation Ltd (UPPTCL)	Lucknow	Uttar Pradesh
22	West Bengal State Electricity Transmission Co. Ltd.	Kolkata	West Bengal. Govt.
(D) Holding Undertakings			
1	Bihar State Power Holding Co. Ltd.	Patna	Bihar
2	Chhattisgarh State Power Holding Co. Ltd.	Raipur	Chhattisgarh
3	Gujarat Urja Vikas Nigam Ltd.	Vadodara	Gujarat
4	Jammu & Kashmir Power Corporation Ltd	Srinagar	Jammu & Kashmir
5	Jharkhand Urja Vikas Nigam Ltd.	Ranchi	Jharkhand
6	Maharashtra SEB Holding Co. Ltd.	Mumbai	Maharashtra
7	Meghalaya Energy Corporation Ltd.	Shillong	Meghalaya
(E) Generation + Distribution Undertakings			
1	Ladakh Power Company Limited	Leh	Ladakh
2	Punjab State Power Corporation Ltd	Patiala	Punjab
3	Tamil Nadu Generation & Distribution Corpn. Ltd.	Chennai	Tamil Nadu
(F) Generation + Transmission Undertakings			
1	Bhakra Beas Management Board	Chandigarh	Punjab, Haryana & Rajasthan
2	Damodar Valley Corporation.	Kolkata	Central
(G) Generating + Distribution + Transmission Undertakings			
1	Himachal Pradesh State Electricity Board Limited	Shimla	Himachal Pradesh
2	Kerala State Electricity Board Ltd.	Thiruvananthapuram	Kerala
3	Tripura State Electricity Corporation Limited	Agartala	Tripura
(H) Generating + Distribution + Holding Undertakings			
1	Manipur State Power Company Ltd.	Imphal	Manipur



TABLE 2.1 (CONTD.)
COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY
FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION
31.03.2023

(I) Holding Companies for Distribution Undertakings			
1	Grid Corporation. of Orissa Ltd.(GRIDCO)	Bhubaneswar	Odisha
2	M.P. Power Mangement Co. Ltd.	Jabalpur	Madhya Pradesh
3	Uttar Pradesh Power Corp. Ltd.	Lucknow	Uttar Pradesh
(J) State/ UT Electricity Departments			
(i) STATE ELECTRICITY DEPARTMENTS			
1	Arunachal Pradesh	Itanagar	State
2	Goa	Panaji	State
3	Mizoram	Aizawal	State
4	Nagaland	Kohima	State
5	Sikkim	Gangtok	State
(ii) UNION TERRITORIES ELECTRICITY DEPARTMENTS			
1	Andaman & Nicobar Islands	Port Blair	Electricity Deptt
2	Chandigarh	Chandigarh	Electricity Deptt.
3	Daman & Diu	Daman	Electricity Deptt.
4	Ladakh	Leh	Power Deptt.
5	Lakshadweep	Kavaratti	Electricity Deptt.
6	Puducherry	Puducherry	Electricity Deptt.



TABLE 2.2
CLASSIFICATION OF COMPANIES IN PRIVATE SECTOR
EXISTING IN THE COUNTRY
AS ON 31.03.2023

Sl. No.	Name of the State	No. of Companies & Co-operatives				Total
		Generation	Generation* & Distribution	Distribution\$	Transmission	
(A) NORTHERN REGION						
1	Haryana	1	0	0	1	2
2	Himachal Pradesh	8	0	0	0	8
3	Punjab	3	0	0	0	3
4	Delhi	0	1	2	0	3
5	Rajasthan	2	0	0	1	3
6	Uttar Pradesh	5	0	1	0	6
7	Uttarakhand	5	0	0	0	5
(B) WESTERN REGION						
1	Chhattisgarh	15	0	1	0	16
2	Goa	1	1	0	0	2
3	Gujarat	6	1	5	2	14
4	Madhya pradesh	6	0	0	0	6
5	Maharashtra	16	2	4	5	27
(C) SOUTHERN REGION						
1	Andhra Pradesh	15	0	1	0	16
2	Telangana	0	0	1	1	2
3	Karnataka	4	1	1	3	9
4	Kerala	1	0	2	0	3
5	Tamil Nadu	11	0	0	0	11
(D) EASTERN REGION						
1	Jharkhand	3	0	2	0	5
2	Odisha	4	0	4	0	8
3	West Bengal	2	2	0	1	5
4	A. & N. Islands	1	0	0	0	1
5	Sikkim	4	0	0	0	4
(E) NORTH EASTERN REGION						0
1	Assam	0	0	0	0	0
	ALL INDIA	113	8	24	14	159

* Includes private utilities which are engaged in generation and distribution of electricity.

\$ Includes private utilities including Rural Electric Co-operatives which are engaged in Distribution of Electricity.



TABLE 2.3
DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2023
(UTILITIES)

Sl. No.	Name of Company	Name of State
A. Generation(Conventional)		
1	CLP India Pvt. Ltd.	Haryana
2	AD Hydro Power Limited	Himachal Pradesh
3	Everest Power Pvt. Ltd.	Himachal Pradesh
4	Himachal Baspa Power Company Ltd.	Himachal Pradesh
5	IA Energy Pvt Ltd	Himachal Pradesh
6	Lanco Budhil Hydro Power Ltd.	Himachal Pradesh
7	Malana Power Company	Himachal Pradesh
8	GMR Bajoli Holi Hydro Power Private Limited	Himachal Pradesh
9	Himachal Sorang Power Private Limited	Himachal Pradesh
10	GVK Power (Goindwal Sahib) Ltd.	Punjab
11	Nabha Power Ltd.	Punjab
12	Talwandi Sabo Power Ltd.	Punjab
13	Adani Power Rajasthan Ltd.	Rajasthan
14	Rajwest Power Ltd.	Rajasthan
15	Bajaj Energy Pvt. Ltd.	Uttar Pradesh
16	Lalitpur Power Generation Co. Ltd.	Uttar Pradesh
17	Lanco Anpara Power Ltd.	Uttar Pradesh
18	Prayagraj Power Generation Co. Ltd.	Uttar Pradesh
19	Rosa Power Supply Co. Ltd.	Uttar Pradesh
20	Alaknanda Hydro Power Co. Ltd.	Uttarakhand
21	Gama Infraprop Pvt. Ltd.	Uttarakhand
22	Jai Prakash Power Venture Ltd.	Uttarakhand
23	L&T Uttaranchal Hydropower Limited	Uttarakhand
24	Sravanthi Energy Pvt. Ltd.	Uttarakhand
25	ACB(India) Ltd.	Chhattisgarh
26	Bharat Aluminium Co. Ltd.	Chhattisgarh
27	DB Power Ltd.	Chhattisgarh
28	GMR Chhattisgarh Energy Ltd.	Chhattisgarh
29	Jindal Power Ltd.	Chhattisgarh
30	Korba West Power Co. Ltd.	Chhattisgarh
31	KSK Mahanadi Power Co. Ltd.	Chhattisgarh
32	Lanco Amarkantak Power Ltd.	Chhattisgarh
33	Maruti Clean Coal & Power Ltd.	Chhattisgarh
34	RKM Powergen Pvt. Ltd.	Chhattisgarh
35	Spectrum Coal & Power Ltd.	Chhattisgarh
36	SV Power Pvt. Ltd.	Chhattisgarh
37	TRN Energy Pvt. Ltd.	Chhattisgarh
38	Vandana Energy & Steel Pvt. Ltd.	Chhattisgarh
39	Vandana Vidyut Ltd.	Chhattisgarh
40	Adani Power Ltd.	Gujarat



TABLE 2.3 (CONTD.)
DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2023
(UTILITIES)

Sl. No.	Name of Company	Name of State
41	CGPL(Tata Power)	Gujarat
42	CLP(India) Pvt. Ltd.	Gujarat
43	Essar Power Gujarat Ltd.	Gujarat
44	Essar Power Ltd.	Gujarat
45	Gujarat Industries Power Company Ltd.	Gujarat
46	BLA Power Pvt. Ltd.	Madhya Pradesh
47	Essar Power MP Ltd.	Madhya Pradesh
48	Jai Prakash Power Venture Ltd.	Madhya Pradesh
49	Jhabua Power Ltd.	Madhya Pradesh
50	MB Power Madhya Pradesh Ltd.	Madhya Pradesh
51	Sasan Power Ltd.	Madhya Pradesh
52	Abhijeet MADC Nagpur Energy Pvt. Ltd.	Maharashtra
53	Adani Power Ltd.	Maharashtra
54	Dhariwal Infrastructure Ltd.	Maharashtra
55	Dodson Lindobolm Hydro Power Pvt. Ltd.	Maharashtra
56	GMR Warora Energy Ltd.	Maharashtra
57	Gupta Energy Pvt. Ltd.	Maharashtra
58	Ideal Energy Projects Ltd.	Maharashtra
59	JSW Energy Ltd.	Maharashtra
60	Pioneer Gas Power Ltd.	Maharashtra
61	Sinnar Thermal Power Limited	Maharashtra
62	Rattan India Power Ltd.	Maharashtra
63	Reliance Infrastructure Ltd.	Maharashtra
64	Shirpur Power Private Limited	Maharashtra
65	Tata Hydro Power Company Ltd.	Maharashtra
66	Vidarbha Industries Power Ltd.	Maharashtra
67	Wardha Power Company Limited	Maharashtra
68	Reliance Salgaocar Power Co. Ltd.	Goa
69	Gautami Power Ltd.	Andhra Pradesh
70	GMR Energy Ltd.	Andhra Pradesh
71	GMR Rajahmundry Energy Ltd.	Andhra Pradesh
72	GMR Vemagiri Power Generation Ltd.	Andhra Pradesh
73	GVK Industries Ltd.	Andhra Pradesh
74	Hinduja National Power Corp. Ltd.	Andhra Pradesh
75	Konaseema Gas Power Ltd.	Andhra Pradesh
76	Lanco Kondapalli Power Ltd.	Andhra Pradesh
77	LVS Power Ltd.	Andhra Pradesh
78	Meenakshi Energy Pvt. Ltd.	Andhra Pradesh
79	Reliance Infrastructure Ltd.	Andhra Pradesh
80	Sembcorp Energy India Ltd.	Andhra Pradesh



TABLE 2.3 (CONTD.)
DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2023
(UTILITIES)

Sl. No.	Name of Company	Name of State
81	Sembcorp Gayatri Power Ltd.	Andhra Pradesh
82	Simhapuri Energy Ltd.	Andhra Pradesh
83	Spectrum Power Generation Ltd.	Andhra Pradesh
84	JSW Energy Ltd.	Karnataka
85	Sree Rayalseema Alkalies and Allied Chemical Ltd.	Karnataka
86	Tata Power Company Ltd.	Karnataka
87	Udupi Power Corporation Ltd.	Karnataka
88	BSES Kerala Power Ltd.	Kerala
89	ARKAY Energy Limited	Tamil Nadu
90	Costal Energen Pvt. Ltd.	Tamil Nadu
91	IL&FS Tamil Nadu Power Company Ltd.	Tamil Nadu
92	India Barath Power Infra Ltd.	Tamil Nadu
93	Lanco Tanjore Power Co. Ltd.	Tamil Nadu
94	Madurai Power Corpn. Pvt. Ltd.	Tamil Nadu
95	Penna Power Ltd.	Tamil Nadu
96	PPN Power Generating Company Pvt. Ltd.	Tamil Nadu
97	Samalpatti Power Company Pvt. Ltd.	Tamil Nadu
98	ST-CMS Electric Company Pvt. Ltd.	Tamil Nadu
99	SEPC Power Private Limited	Tamil Nadu
100	Adhunik Power & Natural Resources Ltd.	Jharkhand
101	Maithon Power Ltd.	Jharkhand
102	Tata Power Company Ltd.	Jharkhand
103	GMR Energy Ltd.	Odisha
104	India Barath Power Infra Ltd.	Odisha
105	Jindal India Thermal Power Ltd.	Odisha
106	Vedanta Limited	Odisha
107	Suryachakra Power Company Ltd.	A&N Islands
108	Dans Energy Pvt. Ltd.	Sikkim
109	Gati Infrastructure Ltd.	Sikkim
110	Sneha Kinetic Projects Ltd.	Sikkim
111	Madhya bharat power corporation Ltd	Sikkim
112	Haldia Energy Ltd.	West Bengal
113	Hiranmaye Energy Limited	West Bengal
B. Distribution		
1	BSES Rajdhani Power Ltd.	Delhi
2	BSES Yamuna Power Ltd.	Delhi
3	Noida Power Company Ltd.	Uttar Pradesh
4	Jindal Steel & Power Ltd (JSPL)	Chhattisgarh
5	K. Raheja Corp.	Maharashtra
6	Maharashtra Airport Development Corporation (MIHAN Nagpur)	Maharashtra
7	Nidar Utilities Panvel LLP	Maharashtra
8	Rajiv Gandhi Info Tech Park Phase-II (SEZ IT Park Hinjewadi, Pune)	Maharashtra



TABLE 2.3 (CONTD.)
DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2023
(UTILITIES)

Sl. No.	Name of Company	Name of State
9	Aspen Infrastructure Ltd. (Synefra), SEZ, Vadodara	Gujarat
10	Gift Power Co Ltd, Gandhinagar	Gujarat
11	Jubilant Infrastructure Ltd., Industrial Estate, Bharuch	Gujarat
12	Mundra Port SEZ Utilities Pvt Ltd. (MUPL)	Gujarat
13	Dahej SEZ Ltd.	Gujarat
14	Kuppam Rural Electric Cooperative Society Ltd.	Andhra Pradesh
15	Cooperative Electric Supply Society Ltd Sircilla	Telangana
16	Hukkeri Rural Electric Cooperative Society Ltd.	Karnataka
17	Kanan Devan Hills Plantations Company (P) Ltd.	Kerala
18	KINESCO Power Utility Ltd, Kochi	Kerala
19	Tata Steel Utilites and Infrastructure Servicea Ltd (TSUISL)	Jharkhand
20	Tata Steel Limited	Jharkhand
21	Tata Power Central Odisha Distribution Ltd.	Odisha
22	Tata Power Northern Odisha Distribution Ltd.	Odisha
23	Tata Power Southern Odisha Distribution Ltd.	Odisha
24	Tata Power Western Odisha Distribution Ltd.	Odisha
C. Generation(Conventional) & Distribution		
1	Tata Power Delhi Distribution Ltd.	Delhi
2	Torrent Power Ltd.	Gujarat
3	Tata Power Company Ltd.	Maharashtra
4	Adani Electricity Mumbai Limited	Maharashtra
5	Reliance Energy Ltd.	Goa
6	JSW Energy Ltd.	Karnataka
7	CESC Ltd.	West Bengal
8	India Power Corporation Ltd.	West Bengal
D. Transmission		
1	Adani Transmission Ltd	Gujarat
2	Apraava Energy Private Limited	Rajasthan
3	Essel Infra	Telangana
4	G R Infra Projects Limited	Haryana
5	Indi Grid Limited	Maharashtra
6	Kalptaru	Gujarat
7	L&T	Karnataka
8	Megha Engineering & Infra	Karnataka
9	ReNew Transmission Ventures Private Limited	Karnataka
10	Resurgent Power Venture Ltd	Maharashtra
11	RSTCL	Maharashtra
12	Sterlite Power Ltd.	Maharashtra
13	Tata Power Limited	Maharashtra
14	Techno Electric	West Bengal



TABLE 2.4
CLASSIFICATION OF MUNICIPAL UNDERTAKINGS
31.03.2023

Sl. 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 2.5
NAME OF POWER TRADING COMPANIES EXISTING
AS ON 31.03.2023

Sl. No.	Name of the Trading Licensee	Date of Issue	Present Category of License
1	Adani Enterprises Ltd	09.06.2004	I
2	GMR Energy Trading Ltd	14.10.2008	I
3	Manikaran Power Ltd	29.06.2012	I
4	NHPC Limited	23.04.2018	I
5	NLC India Ltd.	13.07.2018	I
6	NTPC Limited	08.07.2019	I
7	NTPC Vidyut Vyapar Nigam Ltd	23.07.2004	I
8	PTC India Ltd	30.06.2004	I
9	Refex Energy Ltd.	30.08.2018	I
10	Refex Industries Ltd.	21.03.2022	I
11	SJVN Limited	10.01.2022	I
12	Solar Energy Corporation of India	01.04.2014	I
13	Statkraft Markets (P) Ltd	21.06.2012	I
14	Tata Power Trading Company Ltd	09.06.2004	I
15	Arunachal Pradesh Power Corporation (P) Ltd	11.09.2012	II
16	Kreate Energy (I) Pvt. Ltd.	12.02.2009	II
17	Kundan International Private Ltd.	29.04.2022	II
18	RPG Power Trading Company Ltd	23.09.2008	II
19	ABJA Power Pvt. Ltd.	26.04.2011	III
20	AEI New Energy Trading Pvt. Ltd.	25.03.2022	III
21	Greenko Energies (P) Ltd	22.01.2008	III
22	Instinct Infra & Power Ltd	07.09.2005	III
23	National Energy Trading & Services Ltd	23.07.2004	III
24	Visual Percept Solar Projects Private Ltd.	27.11.2022	III
25	Ambitious Power Trading Company Ltd	16.09.2008	IV
26	JSW Power Trading Company Ltd.	25.04.2006	IV
27	Knowledge Infrastructure Systems (P) Ltd	18.12.2008	IV
28	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
29	ReNew Energy markets Pvt. Ltd.	28.11.2021	IV
30	Shree Cement Ltd	16.03.2010	IV
31	VEH Global India Private Ltd.	26.12.2022	IV
32	Altilium Energies Pvt. Ltd.	23.05.2021	V
33	Amp Energy Markets India Pvt. Ltd.	15.04.2021	V
34	Atria Energy Services Private Limited	20.06.2017	V
35	Customised Energy Solutions India (P) Ltd	08.06.2011	V
36	Gita Power Infrastructure (P) Ltd.	20.10.2015	V
37	Ideal Energy Solutions Pvt. Ltd.	22.03.2022	V
38	Instant Ventures Pvt. Ltd.	09.02.2022	V
39	Powerfull Energy Trading Private Ltd.	09.08.2022	V
40	REL Power Trading LLP	13.12.2022	V
41	Reneurja Power LLP	31.07.2021	V
42	Saini Power Transctor	06.07.2022	V
43	Shell Energy Marketing and Trading India Pvt. Ltd.	22.12.2021	V
44	Shubheksha Advisors Pvt. Ltd.	31.07.2021	V
45	Essar Electric Power Development Corporation Ltd.*	14.12.2005	*
46	Vedprakash Power (P) Ltd.*	19.08.2013	*
47	Sarayu Power Trading Private Limited	10.02.2015	*

* License category is provisional due to pending litigation(s).

Trading Limit for Category of License

Category I : Above 7,000 Mus

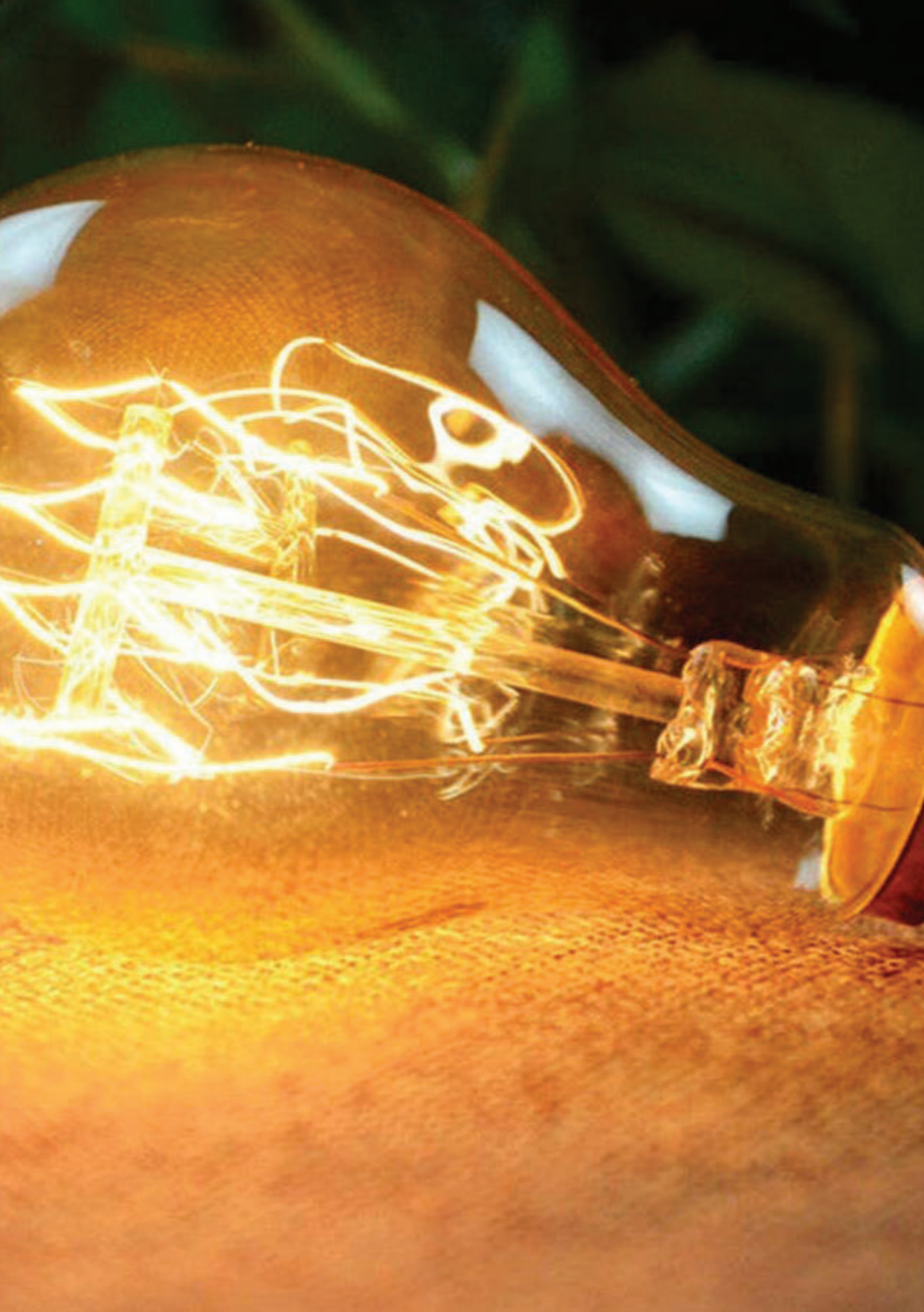
Category II : Not more than 7,000 MUs

Category III : Not more than 4,000 MUs

Category IV : Not more than 2,000 MUs

Category V : Not more than 500 MUs

Source – CERC



CHAPTER 3

INSTALLED CAPACITY





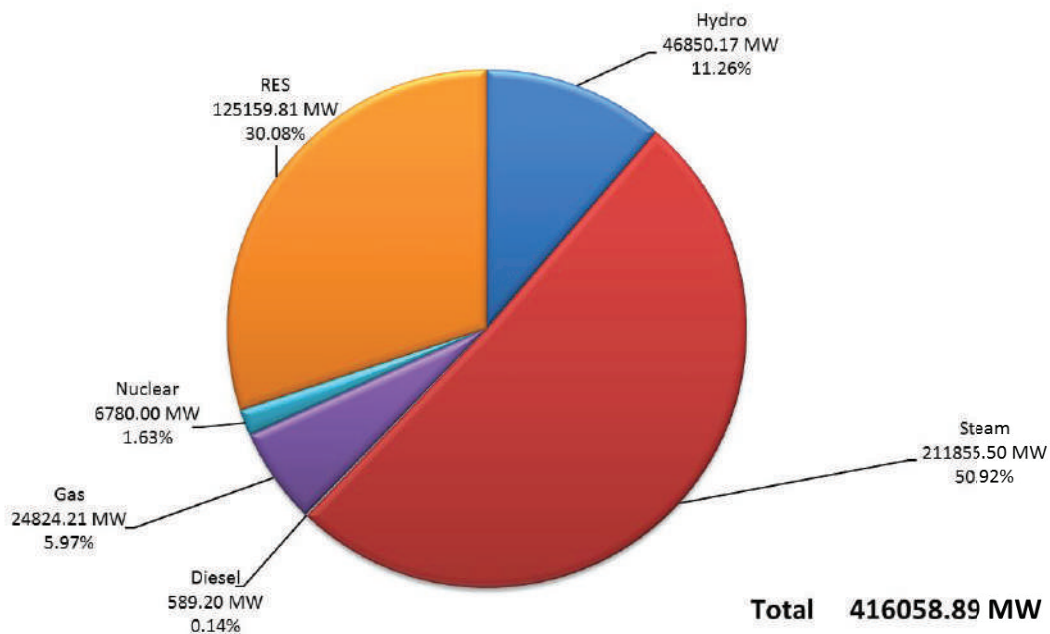
**CHAPTER 3****INSTALLED CAPACITY**

- The total installed capacity in the country including captive power plant (Industries having demand of 0.5 MW and above) increased to 494458.71 MW as on 31.03.2023 as compared to 476229.05 MW as on 31.03.2022.
- The net addition in generating capacity amounted to 18229.66 MW (Hydro-125.32 MW, Thermal-2743.70 MW & Renewable Energy Sources-15360.64 MW).
- The increase in All India Installed Capacity including captive power plant capacity over the last year was 3.83%.
- The total installed capacity comprises 290899.08 MW from conventional sources (Utilities), 125159.81 MW from Renewable Energy Sources and 78399.82 MW from Industrial and Non-Industrial Captive power plants.

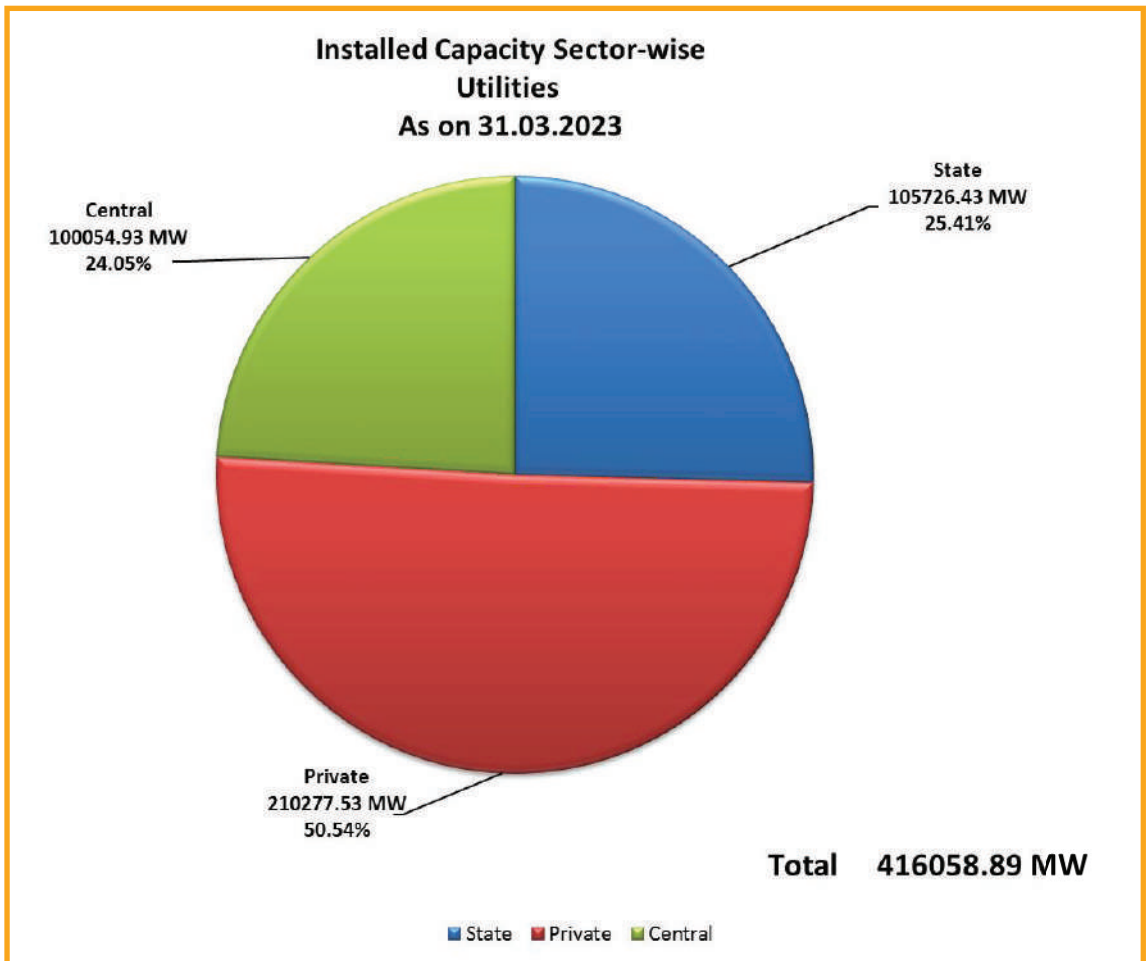
UTILITIES

- Installed capacity (Utilities) in the country increased to 416058.89 MW as on 31.03.2023 as compared to 399496.61 MW as on 31.03.2022 thereby registering an increase of 4.15% over the previous year.
- The total net addition in generating capacity amounted to 16562.28 MW with a majority share from Renewable Energy Sources (RES).
- The total net addition in generating capacity from conventional sources viz Hydro, Thermal & Nuclear amounts 1287.84 MW.
- The total net addition in generating capacity from Renewable Energy Sources amounts to 15274.43 MW. Addition of installed generating capacity from renewable energy sources has been taken into account as per the data received from Ministry of New and Renewable Energy.
- The installed capacity of thermal generating units continued to form the largest share of the installed generating capacity followed by RES.
- The relative percentage of capacity of hydro, thermal, nuclear and renewable energy sources has been 11.26%, 57.03%, 1.63% and 30.08% respectively as on 31.03.2023.

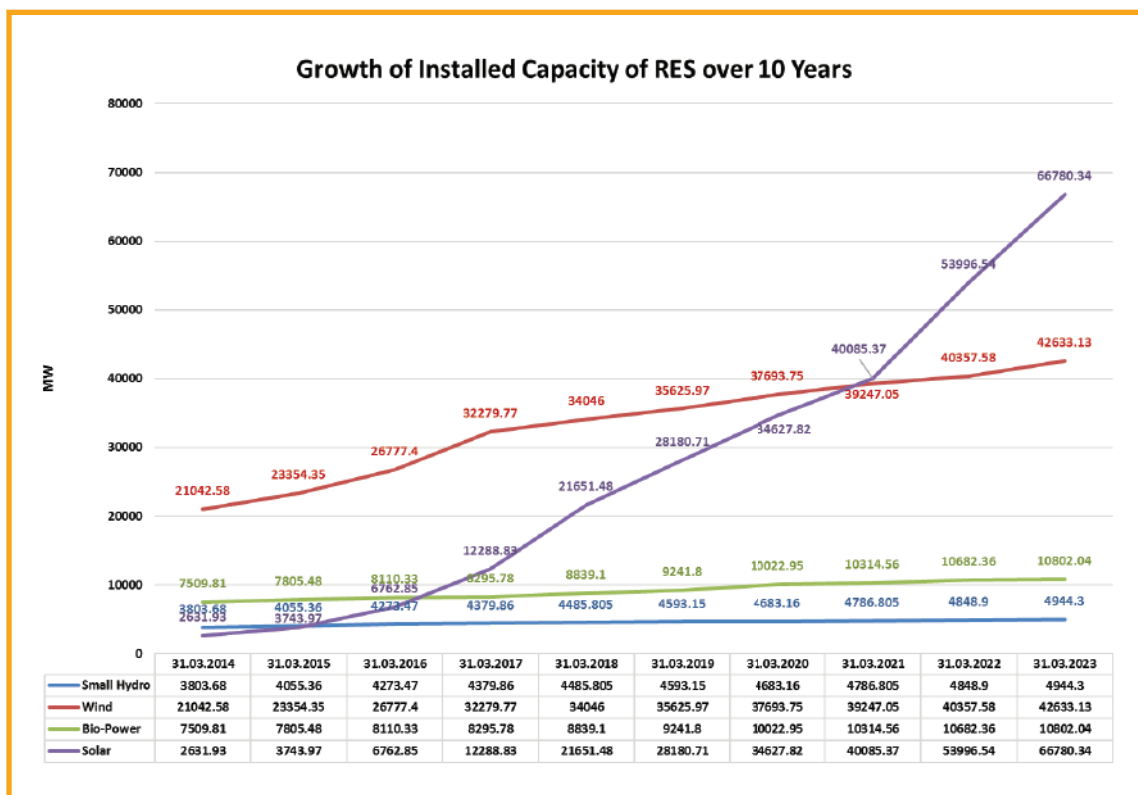
**Installed Capacity Mode-wise
Utilities
As on 31.03.2023**



- Further, the total capacity of RES (including large hydro) 172009.98 MW comprises of 46850.17 MW of Large Hydro, 4944.30 MW of Small Hydro, 42633.13 MW of Wind Power, 10802.04 MW of Bio-Power and 66780.34 MW of Solar Power.

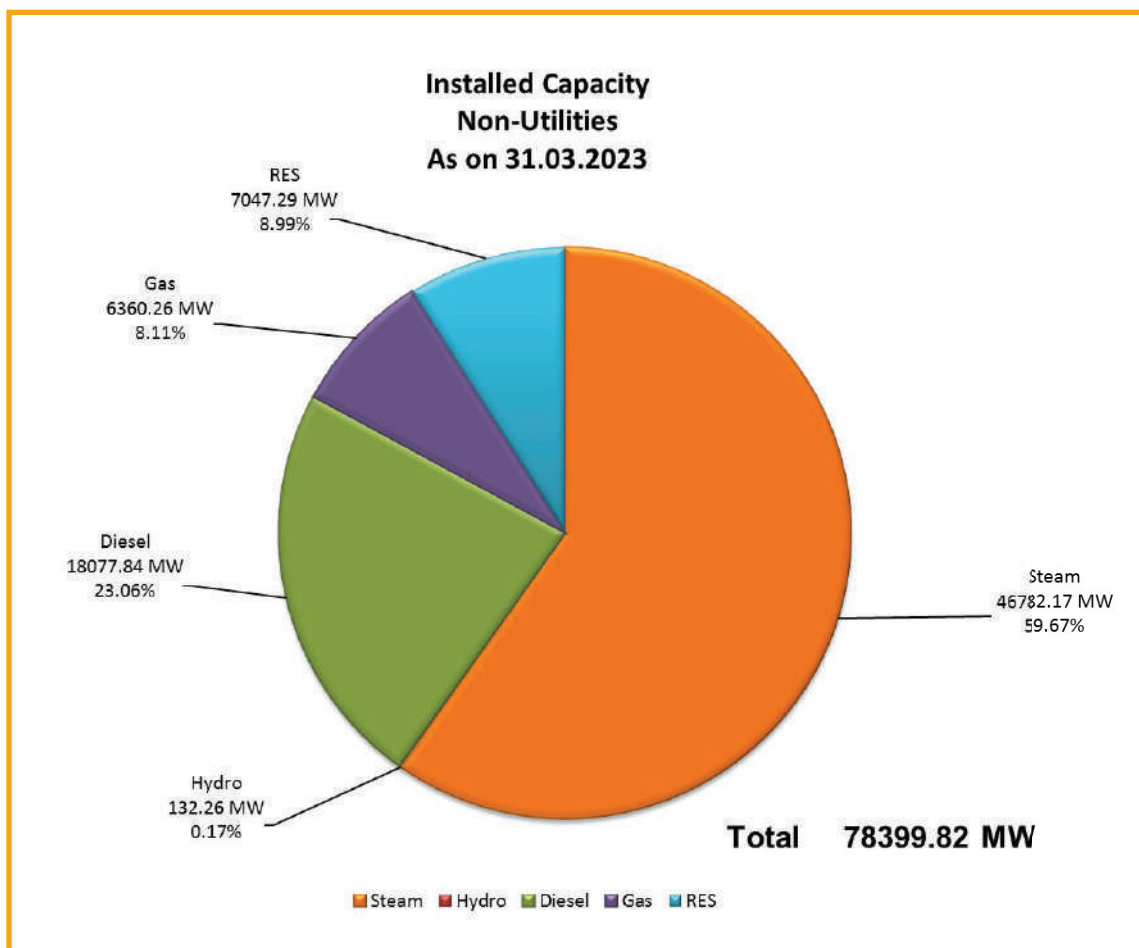


- During the period of 10 years the Installed Capacity of RES (excluding large Hydro) has grown from 34988 MW as on 31.03.2014 to 125160 MW as on 31.03.2023 registering a CAGR of 16.34%.



NON-UTILITIES (CAPTIVE POWER PLANTS)

- The installed capacity (Non-Utilities) in respect of Industries having demand of 0.5 MW and above in the country increased to 78399.82 MW as on 31.03.2023 as compared to 76732.43 MW as on 31.03.2022 thereby registering an increase of 2.17% over the previous year.
- In the total capacity of non-utilities, the contribution of hydro, steam, diesel, gas and RES capacity had been recorded as 0.17%, 59.67%, 23.06%, 8.11% & 8.99% respectively.



The various tables in the chapter from 3.1 to 3.11 gives the salient features of the Installed Capacity in the country as on 31st March, 2023.



TABLE 3.1
ALL INDIA INSTALLED CAPACITY MODE-WISE
UTILITIES AND NON-UTILITIES
AS ON 31.03.2023

(MW)

Year	Installed Capacity									
	Hydro	Thermal			Nuclear	R E S	Total (3+7+8+9)			
		Steam	Diesel	Gas				Total(Thermal) (4+5+6)		
2	3	4	5	6	7	8	9	10		
Installed Capacity: Utilities										
31.03.2022	46722.52	210699.50	509.71	24899.51	236108.72	6780.00	109885.38			399496.61
31.03.2023	46850.17	211855.50	589.20	24824.21	237268.91	6780.00	125159.81			416058.89
% Increase	0.27	0.55	15.60	-0.30	0.49	0.00	13.90			4.15
Installed Capacity :	Non-Utilities (Industries having demand of 0.5 MW & above)									
31.03.2022	134.60	45302.73	18648.78	5685.25	69636.76	0.00	6961.08			76732.43
31.03.2023	132.26	46782.17	18077.84	6360.26	71220.27	0.00	7047.29			78399.82
% Increase	-1.73	3.27	-3.06	11.87	2.27	0.00	1.24			2.17
Installed Capacity :	Total (i+ii)									
31.03.2022	46857.12	256002.23	19158.49	30584.75	305745.48	6780.00	116846.46			476229.05
31.03.2023	46982.43	258637.67	18667.04	31184.47	308489.18	6780.00	132207.10			494458.71
% Increase	0.27	1.03	-2.57	1.96	0.90	0.00	13.15			3.83



Installed Capacity Mode-wise
Utilities
As on 31.03.2023

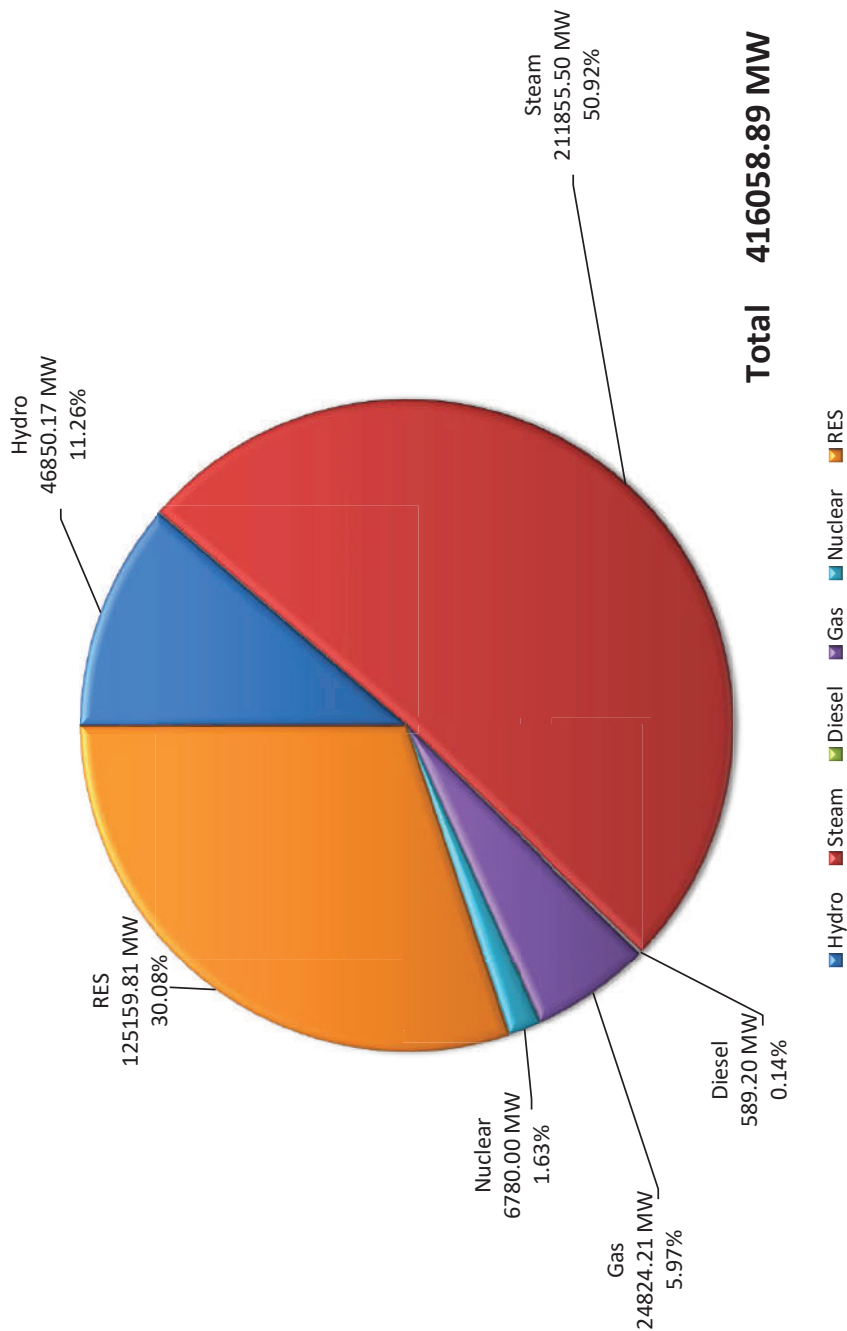




TABLE 3.2
ALL INDIA INSTALLED CAPACITY OWNERSHIP-WISE AND MODE-WISE
UTILITIES
AS ON 31.03.2023

(MW)

Sl. No.	Sector	Installed Capacity							Total (2+6+7+8)
		Hydro	Thermal				Nuclear	R E S	
			Steam	Diesel	Gas	Total (Thermal) (3+4+5)			
	1	2	3	4	5	6	7	8	9
1	Public Sector								
1.1	Elect. Deptt./Govt./ Corpsns./Joint Ventures	27254.45	68687.50	280.31	7012.06	75979.87	0.00	2492.11	105726.43
1.2	Central Sector	15664.72	68740.00	0.00	7237.91	75977.91	6780.00	1632.30	100054.93
	Sub-total Public Sector	42919.17	137427.50	280.31	14249.97	151957.78	6780.00	4124.41	205781.36
2	Private Sector								
2.1	Private Companies	3931.00	74428.00	308.89	10574.24	85311.14	0.00	121035.39	210277.53
	Sub total Private Sector	3931.00	74428.00	308.89	10574.24	85311.14	0.00	121035.39	210277.53
	Total All India	46850.17	211855.50	589.20	24824.21	237268.91	6780.00	125159.81	416058.89

Note: BBMB & DVC installed capacity are considered under central sector



Installed Capacity Sector-wise
Utilities
As on 31.03.2023

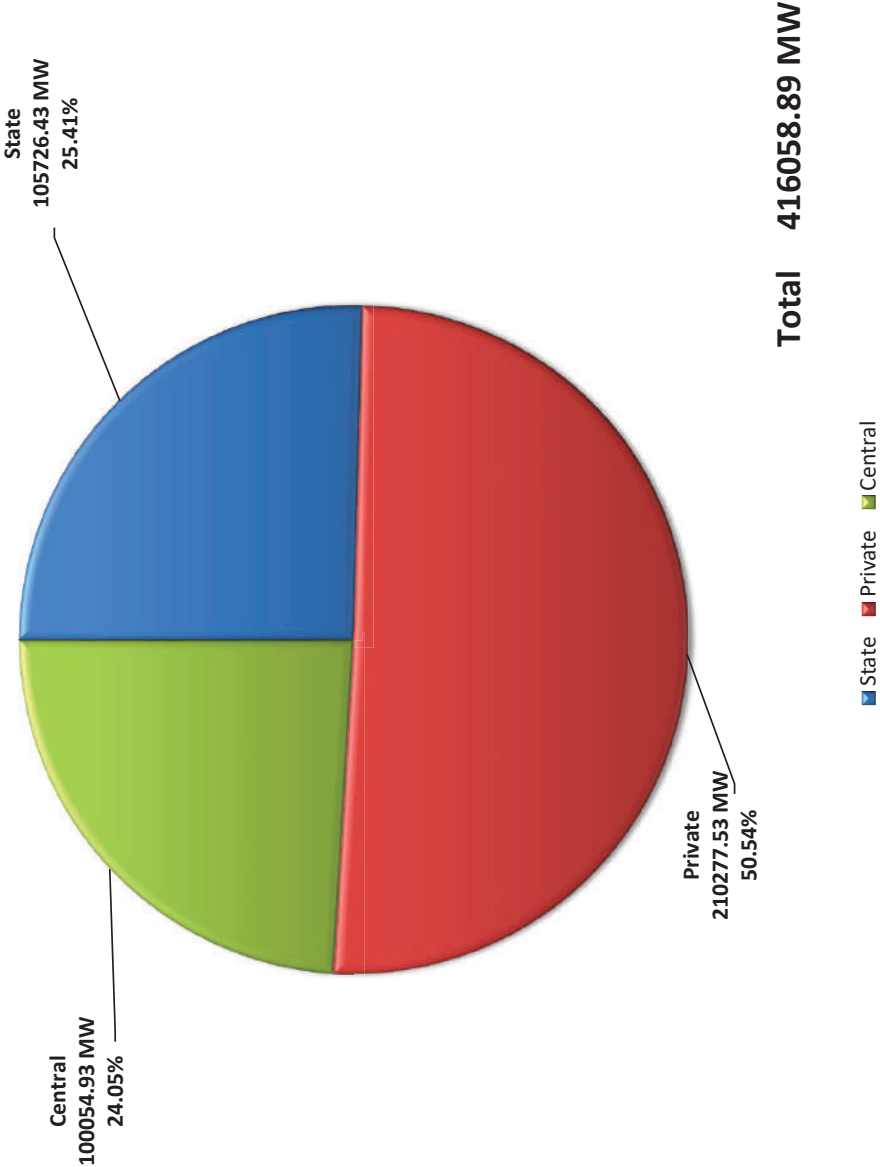




TABLE 3.3
ALL INDIA INSTALLED CAPACITY STATE-WISE
UTILITIES
31.03.2023

(MW)

State/UT	31.03.2022	31.03.2023	% INCREASE
Chandigarh	55.17	58.69	6.38
Delhi	2625.52	2657.74	1.23
Haryana	6261.13	6381.01	1.91
Himachal Pradesh	3955.07	3982.00	0.68
UT of J&K and Ladakh	1644.05	1649.91	0.36
Punjab	9935.22	10033.03	0.98
Rajasthan	28759.42	34116.55	18.63
Uttar Pradesh	18611.62	18815.15	1.09
Uttarakhand	3561.95	3683.94	3.42
Central Sector (NR)	29077.58	29077.58	0.00
Sub-Total (NR)	104486.73	110455.60	5.71
Chhattisgarh	16997.08	17427.82	2.53
Gujarat	37346.42	40194.37	7.63
Madhya Pradesh	18667.54	18503.74	-0.88
Maharashtra	36121.92	38222.34	5.81
Daman & Diu	40.72	41.01	0.71
D. & N. Haveli	5.46	5.46	0.00
Goa	68.34	74.88	9.57
Central Sector (WR)	26306.97	26906.97	2.28
Sub-Total (WR)	135554.45	141376.59	4.30
Andhra Pradesh	22939.23	23887.85	4.14
Telangana	14892.89	15039.07	0.98
Karnataka	26641.39	27456.03	3.06
Kerala	2811.16	3241.06	15.29
Tamil Nadu	27128.79	28949.84	6.71
Puducherry	46.19	68.03	47.28
Lakshadweep	3.27	30.10	820.49
Central Sector (SR)	17111.48	17111.48	0.00
Sub-Total (SR)	111574.41	115783.47	3.77
Bihar	387.35	389.60	0.58
Jharkhand	2477.14	2494.19	0.69
Odisha	7621.31	7632.24	0.14
West Bengal	8519.95	8534.57	0.17
Sikkim	928.79	931.80	0.32
A. & N. Islands	69.69	122.77	76.18
Central Sector (ER)	22870.30	23320.30	1.97
Sub-Total (ER)	42874.53	43425.47	1.29
Arunachal Pradesh	142.34	144.75	1.69
Assam	558.41	565.40	1.25
Manipur	53.70	53.73	0.06
Meghalaya	372.48	372.48	0.00
Mizoram	44.37	73.49	65.63
Nagaland	33.71	35.71	5.93
Tripura	162.90	133.61	-17.98
Central Sector (NER)	3638.60	3638.60	0.00
Sub-Total (NER)	5006.50	5017.76	0.22
Central Sector All India	99004.93	100054.93	1.06
Total All India	399496.61	416058.89	4.15

Note: (1) (-ve) figures in the states & region sub-total are either due to retirements or change of sector.

(2) State wise Installed Capacity includes State Sector and Private Sector power plant capacity.

(3) BBMB & DVC installed capacity are considered under central sector



TABLE 3.4
ALL INDIA GROSS INSTALLED CAPACITY MODEWISE/REGIONWISE/STATEWISE
UTILITIES
AS ON 31.03.2023

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	58.69	58.69
Delhi	0.00	447.08	0.00	1908.40	2355.48	0.00	302.26	2657.74
Haryana	200.00	4673.92	0.00	150.00	4823.92	0.00	1357.09	6381.01
Himachal Pradesh	2914.60	0.00	0.00	0.00	0.00	0.00	1067.40	3982.00
UT of J&K and Ladakh	1230.00	0.00	0.00	175.00	175.00	0.00	244.91	1649.91
Punjab	1243.40	6774.00	0.00	150.00	6924.00	0.00	1865.63	10033.03
Rajasthan	433.00	11026.00	0.00	603.50	11629.50	0.00	22054.05	34116.55
Uttar Pradesh	724.10	13340.00	0.00	0.00	13340.00	0.00	4751.05	18815.15
Uttarakhand	2201.15	99.00	0.00	450.00	549.00	0.00	933.79	3683.94
Central Sector (NR)	11534.52	13200.00	0.00	2344.06	15544.06	1620.00	379.00	29077.58
Sub-Total (NR)	20480.77	49560.00	0.00	5780.96	55340.96	1620.00	33013.87	110455.60
Chhattisgarh	120.00	16008.00	0.00	0.00	16008.00	0.00	1299.82	17427.82
Gujarat	772.00	13992.00	0.00	6237.82	20229.82	0.00	19192.55	40194.37
Madhya Pradesh	1703.66	11195.00	0.00	0.00	11195.00	0.00	5605.08	18503.74
Maharashtra	3331.84	21016.00	0.00	1240.00	22256.00	0.00	12634.50	38222.34
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	41.01	41.01
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	5.46	5.46
Goa	0.00	0.00	0.00	48.00	48.00	0.00	26.88	74.88
Central Sector (WR)	1520.00	19600.00	0.00	3280.67	22880.67	1840.00	666.30	26906.97
Sub-Total (WR)	7447.50	81811.00	0.00	10806.49	92617.49	1840.00	39471.60	141376.59
Andhra Pradesh	1673.60	9000.55	36.80	4066.72	13104.07	0.00	9110.18	23887.85
Telangana	2479.93	6631.95	0.00	831.82	7463.77	0.00	5095.37	15039.07
Karnataka	3631.60	7080.00	25.20	0.00	7105.20	0.00	16719.23	27456.03
Kerala	1864.15	0.00	159.96	174.00	333.96	0.00	1042.95	3241.06
Tamil Nadu	2178.20	7795.00	211.70	1027.18	9033.88	0.00	17737.76	28949.84
Puducherry	0.00	0.00	0.00	32.50	32.50	0.00	35.53	68.03
Lakshadweep	0.00	0.00	26.83	0.00	26.83	0.00	3.27	30.10
Central Sector (SR)	0.00	12890.00	0.00	359.58	13249.58	3320.00	541.90	17111.48
Sub-Total (SR)	11827.48	43397.50	460.49	6491.80	50349.80	3320.00	50286.19	115783.47
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	389.60	389.60
Jharkhand	130.00	2250.00	0.00	0.00	2250.00	0.00	114.19	2494.19
Odisha	2074.22	4940.00	0.00	0.00	4940.00	0.00	618.02	7632.24
West Bengal	986.00	6847.00	0.00	80.00	6927.00	0.00	621.57	8534.57
Sikkim	872.00	0.00	0.00	0.00	0.00	0.00	59.80	931.80
A. & N. Islands	0.00	0.00	92.71	0.00	92.71	0.00	30.06	122.77
Central Sector (ER)	1005.20	22300.00	0.00	0.00	22300.00	0.00	15.10	23320.30
Sub-Total (ER)	5067.42	36337.00	92.71	80.00	36509.713	0.00	1848.34	43425.47
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	144.75	144.75
Assam	100.00	0.00	0.00	306.36	306.36	0.00	159.04	565.40
Manipur	0.00	0.00	36.00	0.00	36.00	0.00	17.73	53.73
Meghalaya	322.00	0.00	0.00	0.00	0.00	0.00	50.48	372.48
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	73.49	73.49
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	35.71	35.71
Tripura	0.00	0.00	0.00	105.00	105.00	0.00	28.61	133.61
Central Sector (NER)	1605.00	750.00	0.00	1253.60	2003.60	0.00	30.00	3638.60
Sub-Total (NER)	2027.00	750.00	36.00	1664.96	2450.96	0.00	539.81	5017.76
Central Sector All India	15664.72	68740.00	0.00	7237.91	75977.91	6780.00	1632.30	100054.93
Total All India	46850.17	211855.50	589.20	24824.21	237268.91	6780.00	125159.81	416058.89

Note: BBMB & DVC installed capacity are considered under central sector



TABLE 3.5
ALL INDIA GROSS INSTALLED CAPACITY OF ELECTRICITY DEPARTMENTS, GOVT.
UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES AND PRIVATE SECTOR
MODEWISE
AS ON 31.03.2023

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
ELECTRICITY DEPARTMENTS/GOVERNMENT UNDERTAKINGS/CORPORATIONS/CENTRAL SECTOR								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	1800.40	1800.40	0.00	0.00	1800.40
Haryana	200.00	2510.00	0.00	150.00	2660.00	0.00	69.30	2929.30
Himachal Pradesh	805.60	0.00	0.00	0.00	0.00	0.00	256.61	1062.21
UT of J&K and Ladakh	1230.00	0.00	0.00	175.00	175.00	0.00	138.17	1543.17
Punjab	1243.40	1760.00	0.00	150.00	1910.00	0.00	127.80	3281.20
Rajasthan	433.00	7830.00	0.00	603.50	8433.50	0.00	23.85	8890.35
Uttar Pradesh	724.1	6035.00	0.00	0.00	6035.00	0.00	49.10	6808.20
Uttarakhand	1372.15	0.00	0.00	0.00	0.00	0.00	72.37	1444.52
Central Sector (NR)	11534.52	13200.00	0.00	2344.06	15544.06	1620.00	379.00	29077.58
Sub Total (NR)	17542.77	31335.00	0.00	5222.96	36557.96	1620.00	1116.20	56836.93
Chhattisgarh	120.00	2840.00	0.00	0.00	2840.00	0.00	11.05	2971.05
Gujarat	772.00	5410.00	0.00	2177.82	7587.82	0.00	95.04	8454.86
Madhya Pradesh	1703.66	5400.00	0.00	0.00	5400.00	0.00	107.96	7211.62
Maharashtra	2850.84	9540.00	0.00	672.00	10212.00	0.00	388.13	13450.97
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
Central Sector (WR)	1520.00	19600.00	0.00	3280.67	22880.67	1840.00	666.30	26906.97
Sub Total (WR)	6966.50	42790.00	0.00	6130.49	48920.49	1840.00	1268.53	58995.52
Andhra Pradesh	1673.60	5810.00	0.00	235.40	6045.40	0.00	57.38	7776.38
Telangana	2479.93	5242.50	0.00	0.00	5242.50	0.00	41.22	7763.65
Karnataka	3631.60	5020.00	0.00	0.00	5020.00	0.00	193.89	8845.49
Kerala	1864.15	0.00	159.96	0.00	159.96	0.00	207.90	2232.01
Tamil Nadu	2178.20	4320.00	0.00	524.08	4844.08	0.00	122.70	7144.98
Puducherry	0.00	0.00	0.00	32.50	32.50	0.00	0.00	32.50
Lakshadweep	0.00	0.00	26.83	0.00	26.83	0.00	0.00	26.83
Central Sector (SR)	0.00	12890.00	0.00	359.58	13249.58	3320.00	541.90	17111.48
Sub Total (SR)	11827.48	33282.50	186.79	1151.56	34620.85	3320.00	1164.98	50933.31
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	70.70	70.70
Jharkhand	130.00	420.00	0.00	0.00	420.00	0.00	4.05	554.05
Odisha	2074.22	1740.00	0.00	0.00	1740.00	0.00	26.30	3840.52
West Bengal	986.00	4810.00	0.00	80.00	4890.00	0.00	121.95	5997.95
Sikkim	360.00	0.00	0.00	0.00	0.00	0.00	55.11	415.11
A. & N. Islands	0.00	0.00	57.52	0.00	57.52	0.00	5.25	62.77
Central Sector (ER)	1005.20	22300.00	0.00	0.00	22300.00	0.00	15.10	23320.30
Sub Total (ER)	4555.42	29270.00	57.52	80.00	29407.52	0.00	298.46	34261.40
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	109.11	109.11
Assam	100.00	0.00	0.00	306.36	306.36	0.00	5.01	411.37
Manipur	0.00	0.00	36.00	0.00	36.00	0.00	5.45	41.45
Meghalaya	322.00	0.00	0.00	0.00	0.00	0.00	32.53	354.53
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	45.47	45.47
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	32.67	32.67
Tripura	0.00	0.00	0.00	105.00	105.00	0.00	16.01	121.01
Central Sector (NER)	1605.00	750.00	0.00	1253.60	2003.60	0.00	30.00	3638.60
Sub-Total (NER)	2027.00	750.00	36.00	1664.96	2450.96	0.00	276.25	4754.20
Total-I, (All India)	42919.17	137427.50	280.31	14249.97	151957.78	6780.00	4124.41	205781.36

Note: BBMB & DVC installed capacity is considered under central sector



TABLE 3.5 (CONTD.)
ALL INDIA GROSS INSTALLED CAPACITY OF ELECTRICITY DEPARTMENTS, GOVT.
UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES AND PRIVATE SECTOR
MODEWISE
AS ON 31.03.2023

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
PRIVATE SECTOR								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	58.69	58.69
Delhi	0.00	447.08	0.00	108.00	555.08	0.00	302.26	857.34
Haryana	0.00	2163.92	0.00	0.00	2163.92	0.00	1287.79	3451.71
Himachal Pradesh	2109.00	0.00	0.00	0.00	0.00	0.00	810.79	2919.79
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	106.74	106.74
Punjab	0.00	5014.00	0.00	0.00	5014.00	0.00	1737.83	6751.83
Rajasthan	0.00	3196.00	0.00	0.00	3196.00	0.00	22030.20	25226.20
Uttar Pradesh	0.00	7305.00	0.00	0.00	7305.00	0.00	4701.95	12006.95
Uttarakhand	829.00	99.00	0.00	450.00	549.00	0.00	861.42	2239.42
Chhattisgarh	0.00	13168.00	0.00	0.00	13168.00	0.00	1288.77	14456.77
Gujarat	0.00	8582.00	0.00	4060.00	12642.00	0.00	19097.51	31739.51
Madhya Pradesh	0.00	5795.00	0.00	0.00	5795.00	0.00	5497.12	11292.12
Maharashtra	481.00	11476.00	0.00	568.00	12044.00	0.00	12246.37	24771.37
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	41.01	41.01
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	5.46	5.46
Goa	0.00	0.00	0.00	48.00	48.00	0.00	26.83	74.83
Andhra Pradesh	0.00	3190.55	36.80	3831.32	7058.67	0.00	9052.80	16111.48
Telangana	0.00	1389.45	0.00	831.82	2221.27	0.00	5054.15	7275.42
Karnataka	0.00	2060.00	25.20	0.00	2085.20	0.00	16525.345	18610.55
Kerala	0.00	0.00	0.00	174.00	174.00	0.00	835.05	1009.05
TamilNadu	0.00	3475.00	211.70	503.10	4189.80	0.00	17615.06	21804.86
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	35.53	35.53
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	3.27	3.27
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	318.90	318.90
Jharkhand	0.00	1830.00	0.00	0.00	1830.00	0.00	110.14	1940.14
Odisha	0.00	3200.00	0.00	0.00	3200.00	0.00	591.72	3791.72
West Bengal	0.00	2037.00	0.00	0.00	2037.00	0.00	499.62	2536.62
Sikkim	512.00	0.00	0.00	0.00	0.00	0.00	4.69	516.69
A. & N. Islands	0.00	0.00	35.19	0.00	35.19	0.00	24.81	60.00
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	35.64	35.64
Assam	0.00	0.00	0.00	0.00	0.00	0.00	154.03	154.03
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	12.28	12.28
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	17.95	17.95
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	28.02	28.02
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	3.04	3.04
Tripura	0.00	0.00	0.00	0.00	0.00	0.00	12.60	12.60
Total-II, (All India)	3931.00	74428.00	308.89	10574.24	85311.14	0.00	121035.39	210277.53
All India Total (I+II)	46850.17	211855.50	589.20	24824.21	237268.91	6780.00	125159.81	416058.89



TABLE 3.6
ALL INDIA INSTALLED CAPACITY ADDITION
UTILITIES
DURING 2022-23

(MW)

Sl. No.	State/UT	Owner	Name of project	Dt. of Commissioning	No. of units	Unit Size (MW)	Total Capacity (MW)
A	Hydro						
	Uttarakhand	UJVNL	VYASI HPS	5/24/2022	2	60	120
				4/22/2022		60	
	Hydro Total						120.00
B	Steam						
	Jharkhand	NTPC LIMITED	NORTH KARANPURA STPP	1/18/2023	1	660.00	660.00
	Andhra Pradesh	APPDCL	DAMODARAM SANJEEVAIAH TPS	3/9/2023	1	800.00	800.00
	Steam Total						1460.00
C	Diesel						
	A. & N. Islands	ANDAMAN AND NICOBAR ISLAND ELECTRICITY DEPARTMENT	AND. NICOBAR DG	30/09/2022*	1	17.48	17.48
	A. & N. Islands	ANDAMAN AND NICOBAR ISLAND ELECTRICITY DEPARTMENT	AND. NICOBAR Pvt. DG	30/09/2022*	1	35.19	35.19
	Lakshadweep	Lakshadweep ELECTRICITY DEPARTMENT.	Lakshadweep DG	30/11/2022*	1	26.83	26.83
	Diesel Total						79.50
	Grand Total (A+B)						1659.50



TABLE 3.7
ALL INDIA INSTALLED CAPACITY ADDITION
MODE-WISE/STATE-WISE/ REGION-WISE
2022-23

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total (2+6+7+8)
		Steam	Diesel	Gas	Total (Thermal) (3+4+5)			
1	2	3	4	5	6	7	8	9
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	3.52	3.52
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	32.14	32.14
Haryana	0.00	0.00	0.00	0.00	0.00	0.00	119.96	119.96
Himachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	26.93	26.93
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	5.86	5.86
Punjab	0.00	0.00	0.00	0.00	0.00	0.00	97.81	97.81
Rajasthan	0.00	0.00	0.00	0.00	0.00	0.00	5357.43	5357.43
Uttar Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	297.53	297.53
Uttarakhand	120.00	0.00	0.00	0.00	0.00	0.00	1.99	121.99
Central Sector (NR)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total (NR)	120.00	0.00	0.00	0.00	0.00	0.00	5943.17	6063.17
Chhattisgarh	0.00	0.00	0.00	0.00	0.00	0.00	430.74	430.74
Gujarat	0.00	0.00	0.00	0.00	0.00	0.00	2847.95	2847.95
Madhya Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	436.20	436.20
Maharashtra	0.00	0.00	0.00	0.00	0.00	0.00	2100.42	2100.42
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.29
D. & N. Haveli	0.00	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	6.54	6.54
Central Sector (WR)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total (WR)	0.00	0.00	0.00	0.00	0.00	0.00	5822.14	5822.14
Andhra Pradesh	0.00	800.00	0.00	0.00	800.00	0.00	148.62	948.62
Telangana	0.00	0.00	0.00	0.00	0.00	0.00	146.18	146.18
Karnataka	0.00	0.00	0.00	0.00	0.00	0.00	814.64	814.64
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	422.25	422.25
Tamil Nadu	0.00	0.00	0.00	0.00	0.00	0.00	1821.05	1821.05
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	21.84	21.84
Lakshadweep	0.00	0.00	26.83	0.00	26.83	0.00	0.00	26.83
Central Sector (SR)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total (SR)	0.00	800.00	26.83	0.00	826.83	0.00	3374.58	4201.41
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.25
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	17.05	17.05
Odisha	0.00	0.00	0.00	0.00	0.00	0.00	10.93	10.93
West Bengal	0.00	0.00	0.00	0.00	0.00	0.00	34.62	34.62
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	3.01	3.01
A & N. Islands	0.00	0.00	52.67	0.00	52.67	0.00	0.42	53.09
Central Sector (ER)	0.00	660.00	0.00	0.00	660.00	0.00	0.00	660.00
Sub Total (ER)	0.00	660.00	52.67	0.00	712.67	0.00	68.28	780.95
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	2.41	2.41
Assam	0.00	0.00	0.00	0.00	0.00	0.00	29.99	29.99
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
Meghalaya	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	29.12	29.12
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00
Tripura	0.00	0.00	0.00	0.00	0.00	0.00	2.71	2.71
Central Sector (NER)	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	0.00	0.00	0.00	66.26	66.26
Total (All India)	120.00	1460.00	79.50	0.00	1539.50	0.00	15274.43	16933.93



TABLE 3.8
DETAILS OF ALL INDIA INSTALLED CAPACITY RETIRED
STATE-WISE/MODE-WISE
2022-23

(MW)

Sl. No.	State/UT	Ownership	Name of the Station	Unit No.	Hydro	Steam	Diesel	Gas	Total (Thermal) (7+8+9)	Nuclear	R E S	Total (6+10+11+12)
1	2	3	4	5	6	7	8	9	10	11	12	13
1	West Bengal	WBPDCL	SILIGURI GPS	1	0.00	0.00	0.00	20.00	20.00	0.00	0.00	20.00
2	Tripura	TSECL	ROKHIA GT	3	0.00	0.00	0.00	8.00	8.00	0.00	0.00	8.00
3	Tripura	TSECL	ROKHIA GT	4	0.00	0.00	0.00	8.00	8.00	0.00	0.00	8.00
4	Tripura	TSECL	ROKHIA GT	5	0.00	0.00	0.00	8.00	8.00	0.00	0.00	8.00
5	Tripura	TSECL	ROKHIA GT	6	0.00	0.00	0.00	8.00	8.00	0.00	0.00	8.00
6	Uttar Pradesh	UPRVUNL	OBRA TPS	7	0.00	94.00	0.00	0.00	94.00	0.00	0.00	94.00
7	West Bengal	DVC	DURGAPUR TPS	4	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00
	Net Deletion/Retirement				0.00	304.00	0.00	52.00	356.00	0.00	0.00	356.00



TABLE 3.8 (CONTD.)
DETAILS OF ALL INDIA INSTALLED CAPACITY RETIRED
STATE-WISE/MODE-WISE
2022-23

(MW)

Sl. No.	State/UT	Ownership	Name of the Station	Unit No.	Hydro	Steam	Diesel	Gas	Total (Thermal) (7+8+9)	Nuclear	RES	Total (6+10+11+12)
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Kerala	KSEB	NARIAMANGLAM HPS	1,2,3	7.65	0.00	0.00	0.00	0	0.00	0.00	7.65
	Net Uptration				7.65	0.00	0.00	0.00	0.00	0.00	0.00	7.65

TABLE 3.8 (CONTD.)
DETAILS OF ALL INDIA INSTALLED CAPACITY RETIRED
STATE-WISE/MODE-WISE
2022-23

(MW)

Sl. No.	State/UT	Ownership	Name of the Station	Unit No.	Hydro	Steam	Diesel	Gas	Total (Thermal) (7+8+9)	Nuclear	RES	Total (6+10+11+12)
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Assam	APGCL	NAMRUP CCPP	2,3,6	0.00	0.00	0.00	23.00	23	0.00	0.00	23.00
2	Rajasthan	RRVUNL	RAMGARH CCPP*	4	0.00	0.00	0.00	0.30	0	0.00	0.00	0.30
	Net Deration				0.00	0.00	0.00	23.30	23.30	0.00	0.00	23.30

* Capacity was corrected from 37.80 to 37.50 as per RRVUNL request on 24/05/2022

TABLE 3.9
ALL INDIA INSTALLED CAPACITY
NET ADDITION/DELETION MODEWISE
2022-23

(MW)

Activity	Hydro	Thermal				Nuclear	R E S	Total (2+6+7+8)
		Steam	Diesel	Gas	Total (Thermal) (3+4+5)			
1	2	3	4	5	6	7	8	9
Gross Addition	120.00	1460.00	79.50	0.00	1539.4950	0.00	15274.43	16933.93
Deletion/Retirement	0.00	-304.00	0.00	-52.00	-356.00	0.00	0.00	-356.00
Capacity removed due to change from IPP to CPP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Up-rating	7.65	0.00	0.00	0.00	0.00	0.00	0.00	7.65
De-rating	0.00	0.00	0.00	-23.30	-23.30	0.00	0.00	-23.30
Net Addition	127.65	1156.00	79.50	-75.30	1160.20	0.00	15274.43	16562.28



TABLE 3.10
SHARE OF PARTICIPATING STATES IN JOINTLY OWNED
POWER STATIONS
AS ON 31.03.2023

(MW)

Name of the Power Station	Name of the Beneficiary States	Share of the Participating States		Total Capacity (MW)
		%age	I.C.(MW)	
CHAMBAL PROJECTS				
GANDHI SAGAR HPS	Madhya Pradesh	50.00	57.50	115.00
	Rajasthan	50.00	57.50	
JAWAHAR SAGAR HPS	Madhya Pradesh	50.00	49.50	99.00
	Rajasthan	50.00	49.50	
R P SAGAR HPS	Madhya Pradesh	50.00	86.00	172.00
	Rajasthan	50.00	86.00	
MACHKUND HPS	Andhra Pradesh	32.28	37.04	114.75
	Telangana	37.72	43.29	
	Odisha	30.00	34.42	
T B DAM HPS & HAMPI HPS	Andhra Pradesh	36.89	26.56	72.00
	Telangana	43.11	31.04	
	Karnataka	20.00	14.40	
PENCH HPS	Madhya Pradesh	66.67	106.66	160.00
	Maharashtra	33.33	53.34	
S SAROVAR CHPH HPS & S SAROVAR RBPH HPS	Gujarat	16.00	232.00	1450.00
	Madhya Pradesh	57.00	826.50	
	Maharashtra	27.00	391.50	
RAJGHAT HPS	Madhya Pradesh	50.00	22.50	45.00
	Uttar Pradesh	50.00	22.50	
RANJIT SAGAR HPS	Punjab	75.40	452.40	600.00
	Jammu & Kashmir	20.00	120.00	
	Himachal Pradesh	4.60	27.60	



TABLE 3.11
STATE-WISE INSTALLED CAPACITY OF RENEWABLE POWER AS ON 31.03.2023

S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio-Power					Solar Power	Total Capacity
				BM Power/ Bagasse Cogen.	BM Cogen. (Non-Bagasse)	Waste to Energy	Waste to Energy (Off-grid)	Bio Power Total		
		(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
1	Andhra Pradesh	163.31	4096.65	378.10	105.57	53.16	29.20	566.03	4534.19	9360.18
2	Arunachal Pradesh	133.11						0.00	11.64	144.75
3	Assam	34.11			2.00			2.00	147.93	184.04
4	Bihar	70.70		112.50	12.20		1.32	126.02	192.88	389.60
5	Chhatisgarh	76.00		272.09	2.50		0.41	275.00	948.82	1299.82
6	Goa	0.05				0.34		0.34	26.49	26.88
7	Gujarat	91.64	9978.92	65.30	12.00	7.50	25.93	110.73	9254.56	19435.85
8	Haryana	73.50		151.40	89.26	11.20	7.57	259.43	1029.16	1362.09
9	Himachal Pradesh	969.71			9.20		1.00	10.20	87.49	1067.40
10	Jammu & Kashmir	146.68						0.00	49.44	196.12
11	Jharkhand	4.05			4.30			4.30	105.84	114.19
12	Karnataka	1280.73	5294.95	1867.10	20.20	1.00	13.85	1902.15	8241.40	16719.23
13	Kerala	266.52	62.50		2.27		0.23	2.50	761.43	1092.95
14	Ladakh	40.99						0.00	7.80	48.79
15	Madhya Pradesh	123.71	2844.29	92.50	14.85	15.40	12.19	134.94	2802.14	5905.08
16	Maharashtra	381.08	5012.83	2568.00	16.40	12.59	43.70	2640.69	4722.90	12757.50
17	Manipur	5.45						0.00	12.28	17.73
18	Meghalaya	32.53			13.80			13.80	4.15	50.48
19	Mizoram	45.47						0.00	28.02	73.49
20	Nagaland	32.67						0.00	3.04	35.71
21	Odisha	115.63		50.40	8.82			59.22	453.17	628.02
22	Punjab	176.10		299.50	196.65	10.75	15.37	522.27	1167.26	1865.63
23	Rajasthan	23.85	5193.42	119.25	2.00		3.83	125.08	17055.70	22398.05
24	Sikkim	55.11						0.00	4.69	59.80
25	Tamil Nadu	123.05	10017.17	969.10	43.55	6.40	24.65	1043.70	6736.43	17920.35
26	Telangana	90.87	128.10	158.10	2.00	45.80	14.47	220.37	4666.03	5105.37
27	Tripura	16.01						0.00	17.60	33.61
28	Uttar Pradesh	49.10		1957.50	160.76		98.47	2216.73	2515.22	4781.05
29	Uttarakhand	218.82		72.72	57.50		9.22	139.44	575.53	933.79
30	West Bengal	98.50		300.00	38.62		4.48	343.10	179.97	621.57
31	Andaman & Nicobar	5.25						0.00	29.91	35.16
32	Chandigarh							0.00	58.69	58.69
33	Dadar & Nagar Haveli							0.00	5.46	5.46
34	Daman & Diu							0.00	41.01	41.01
35	Delhi					84.00		84.00	218.26	302.26
36	Lakshwadeep							0.00	3.27	3.27
37	Pondicherry							0.00	35.53	35.53
38	Others		4.30					0.00	45.01	49.31
	Total (MW)	4944.30	42633.13	9433.56	814.45	248.14	305.89	10802.04	66780.34	125159.81

Source: MNRE

CHAPTER 4

ELECTRICITY GENERATION



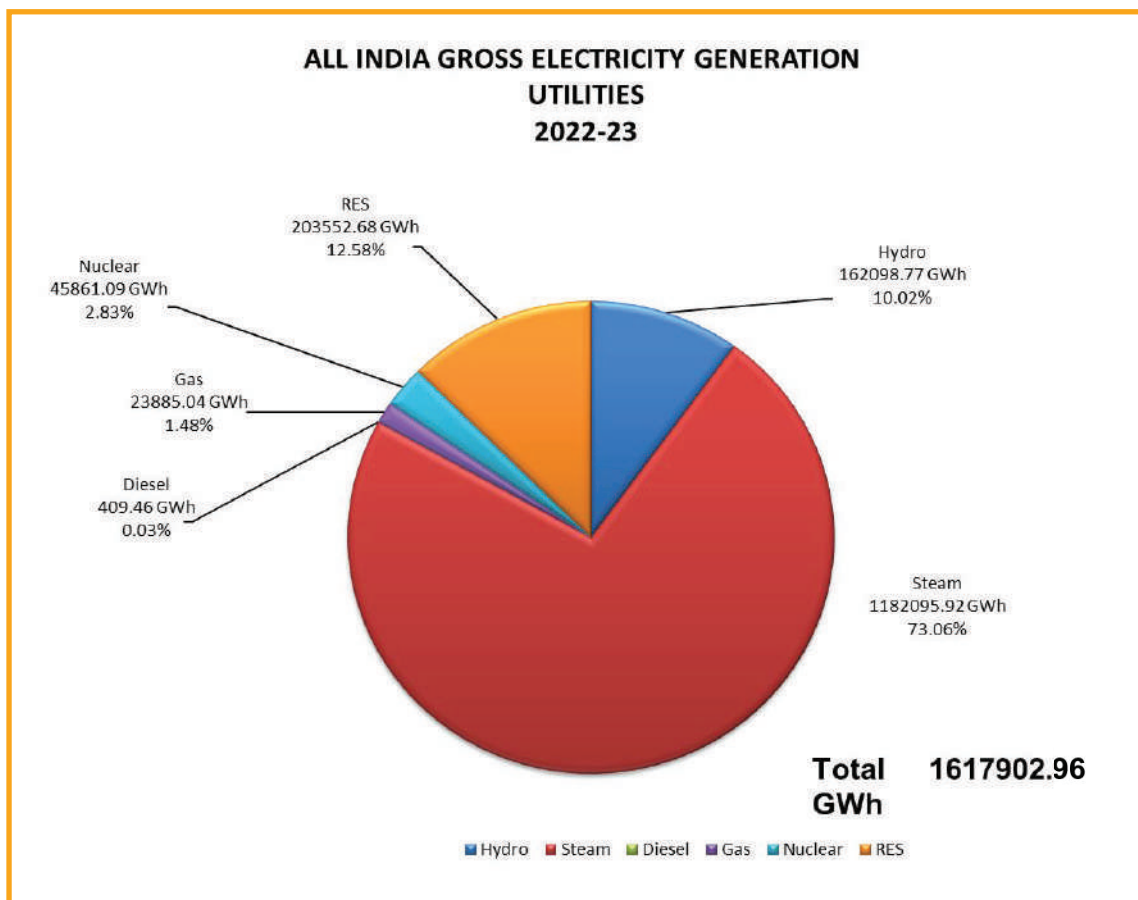


CHAPTER 4

ELECTRICITY GENERATION

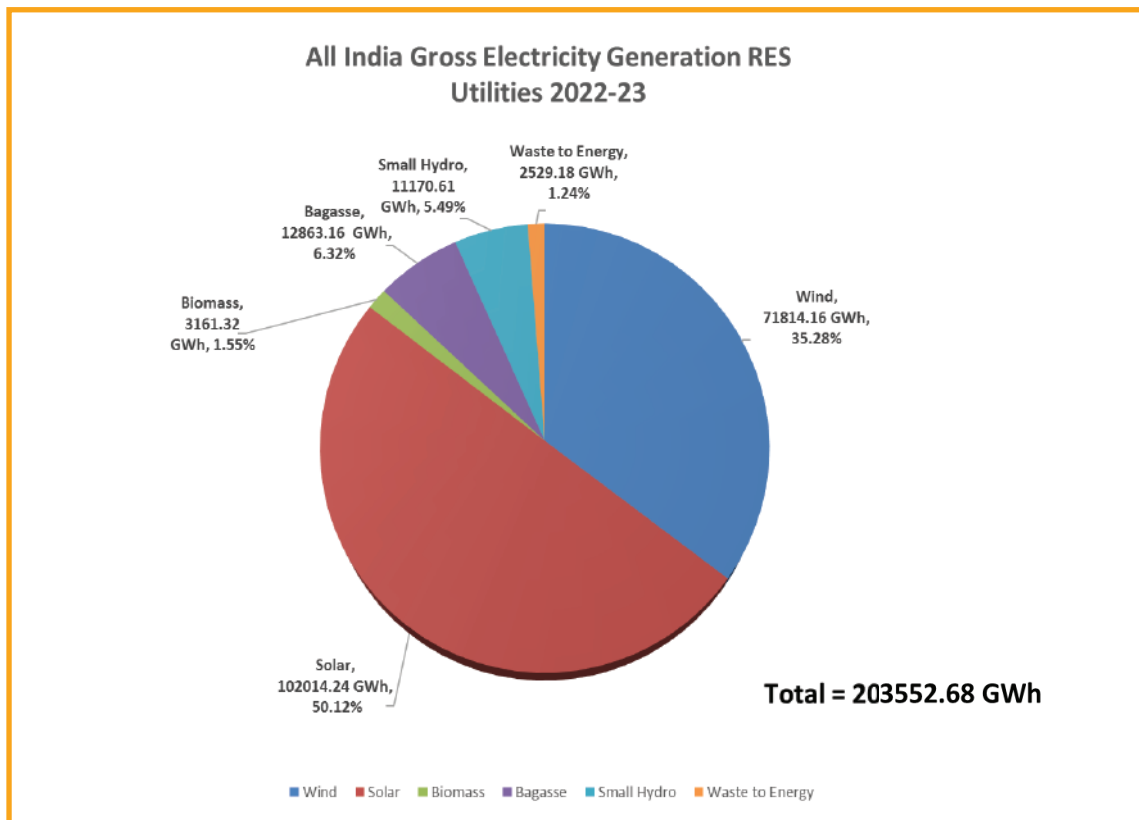
GENERATION - UTILITIES

- The All India gross electricity generation by the Utilities during the year 2022-23 was 1617902.96 GWh as compared to 1484463.08 GWh during 2021-22.
- During the year 2022-23, the All India generation from utilities has shown an increase of 8.99%.
- During the year 2022-23, the generation from Hydro, Thermal, Nuclear and Renewable Energy Sources (excluding large hydro) has been 162098.77 GWh, 1206390.42 GWh, 45861.09 GWh and 203552.68 GWh respectively.
- The respective percentage of this generation with respect to gross generation from Hydro, Thermal, Nuclear and Renewable Energy Sources (excluding large hydro) has been 10.02%, 74.56%, 2.83% & 12.58%.



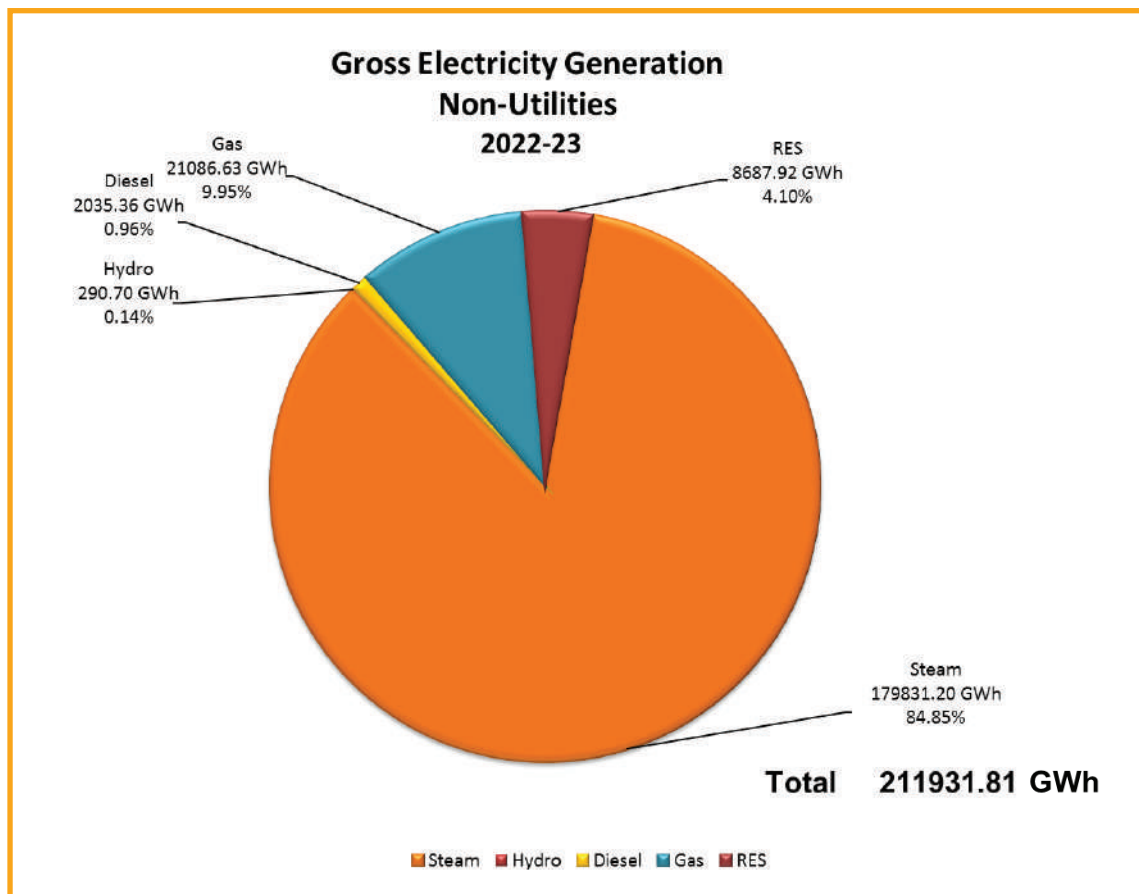


- Total generation from thermal sources (Coal, Lignite and Gas) is highest and about 75% of the total generation.
- The total generation from Renewable Energy Sources (RES) is about 13% in the FY 2022-23.
- The Gross Generation during 2022-23 in Central, State and Private Sector was 570720.46 GWh, 467742.38 GWh and 579440.12 GWh constituting 35.28%, 28.91% and 35.81% respectively.
- Private Sector has the largest share in total generation followed by Central Sector.
- During the period 2013-23 the Generation from RES (excluding large Hydro) has grown from 57449 GWh during FY 2012-13 to 203553 GWh during FY 2022-23 registering a CAGR of **13.49 %**.



GENERATION - NON UTILITIES (ONLY CAPTIVE)

- Besides electricity generation by the Public Utilities, during the year under review captive electricity generating plants of industries in the Industrial Sector having demand of 0.5 MW & above have produced 211931.81 GWh comprising 290.70 GWh from hydro, 179831.20 GWh from steam, 2035.36 GWh from diesel, 21086.63 GWh from gas and 8687.92 GWh from RES respectively.



- The captive power plant energy generation has registered a **growth of 1.25%** over previous year's generation.

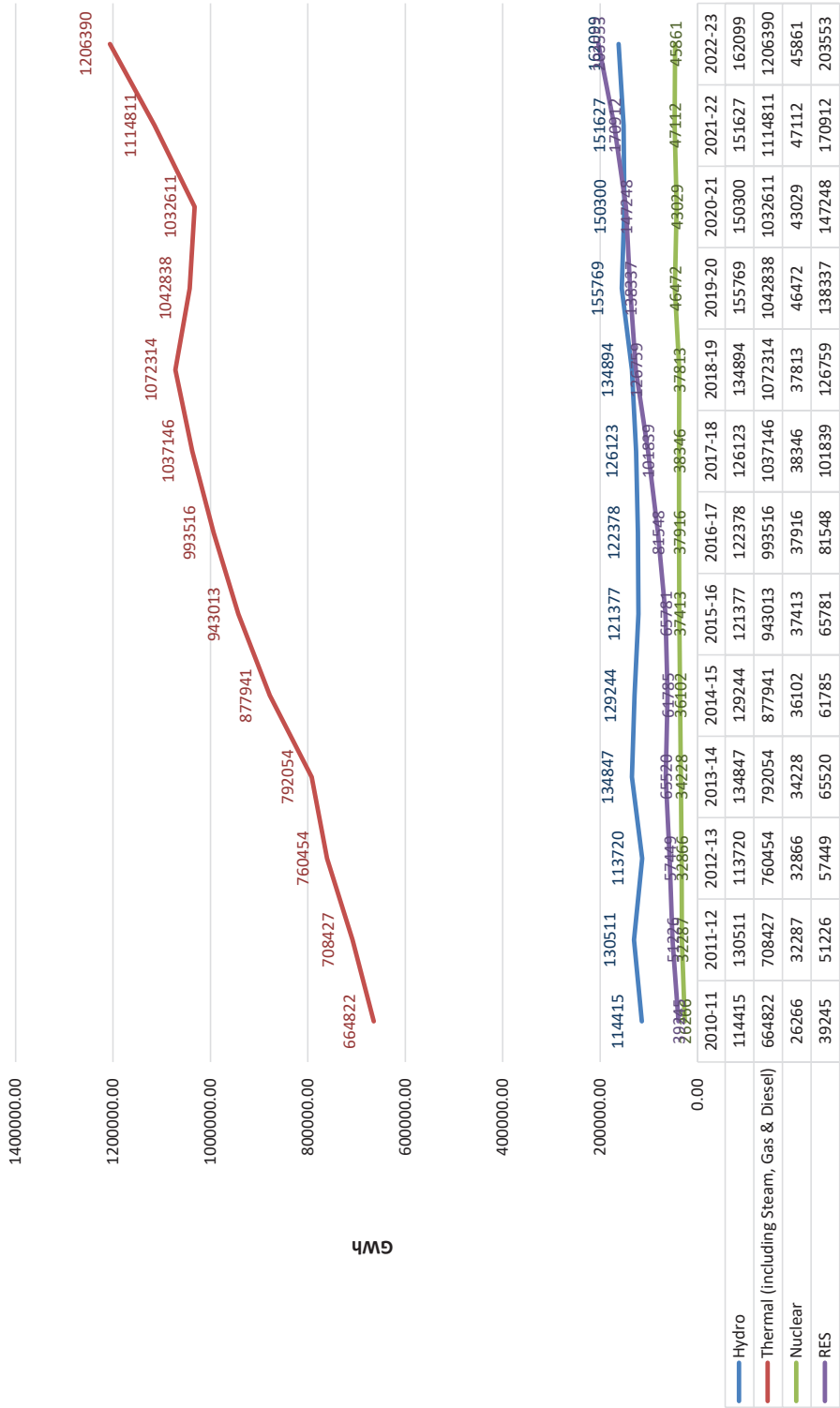
TOTAL GENERATION (UTILITIES + NON-UTILITIES)

- The total electricity produced in the country including non-utilities during the year 2022-23 was 1829834.78 GWh as compared to 1693773.84 GWh during the year 2021-22.
- Thus the electricity generation has registered an **increase of 8.03%** over previous year's generation.

Tables 4.1 to 4.7 give break-up details of electrical energy generation Mode-wise, State-wise, Region-wise and Sector-wise.



Growth of Gross Electricity Generation-Mode-wise (Utilities)





ALL INDIA GROSS ELECTRICITY GENERATION
UTILITIES
2020-21 to 2022-23

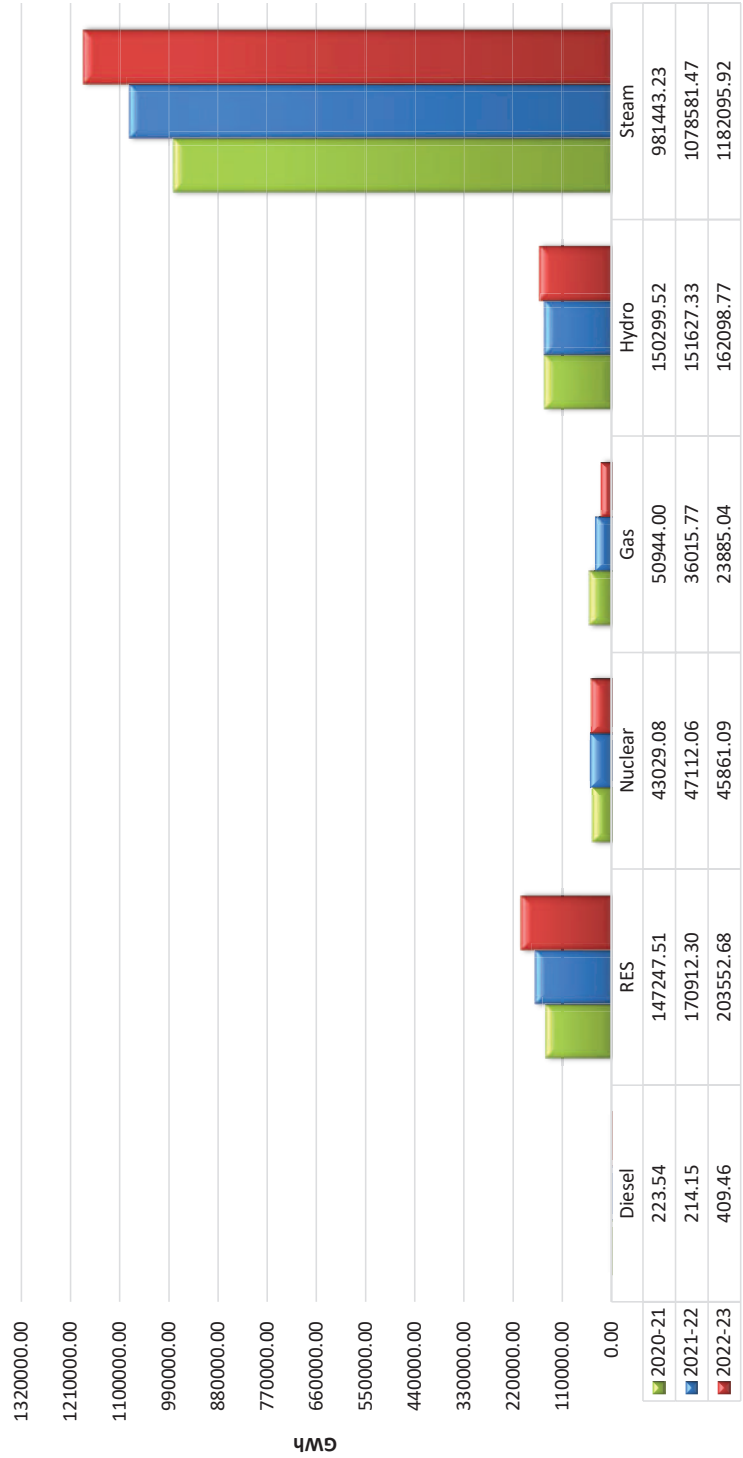




TABLE 4.1
ALL INDIA GROSS ELECTRICITY GENERATION MODE-WISE
UTILITIES & NON-UTILITIES
2022-23

(GWh)

Sl. No.	Year	Gross Electricity Generation (GWh)						Nuclear	RES	Total (3+7+8+9)
		Hydro	Thermal	Diesel	Gas	Total(Thermal) (4+5+6)				
1	2	3	4	5	6	7	8	9	10	
(i)	Utilities Gross Electrical Energy Generation									
	2021-22	151627.33	1078581.47	214.15	36015.77	1114811.39	47112.06	170912.30		1484463.08
	2022-23	162098.77	1182095.92	409.46	23885.04	1206390.42	45861.09	203552.68		1617902.96
	% Increase	6.91	9.60	91.20	-33.68	8.21	-2.66	19.10		8.99
(ii)	Non-utilities Gross Electrical Energy Generation (Industries Having Capacity 0.5 MW & Above)									
	2021-22	356.66	179235.45	2104.51	20801.17	202141.13	0.00	6812.98		209310.77
	2022-23	290.70	179831.20	2035.36	21086.63	202953.19	0.00	8687.92		211931.81
	% Increase	-18.49	0.33	-3.29	1.37	0.40	0.00	27.52		1.25
(iii)	Total Gross Electrical Energy Generation (i+ii)									
	2021-22	151983.99	1257816.92	2318.66	56816.94	1316952.52	47112.06	177725.28		1693773.84
	2022-23	162389.47	1361927.12	2444.83	44971.67	1409343.62	45861.09	212240.60		1829834.78
	% Increase	6.85	8.28	5.44	-20.85	7.02	-2.66	19.42		8.03



ALL INDIA GROSS ELECTRICITY GENERATION
UTILITIES
2022-23

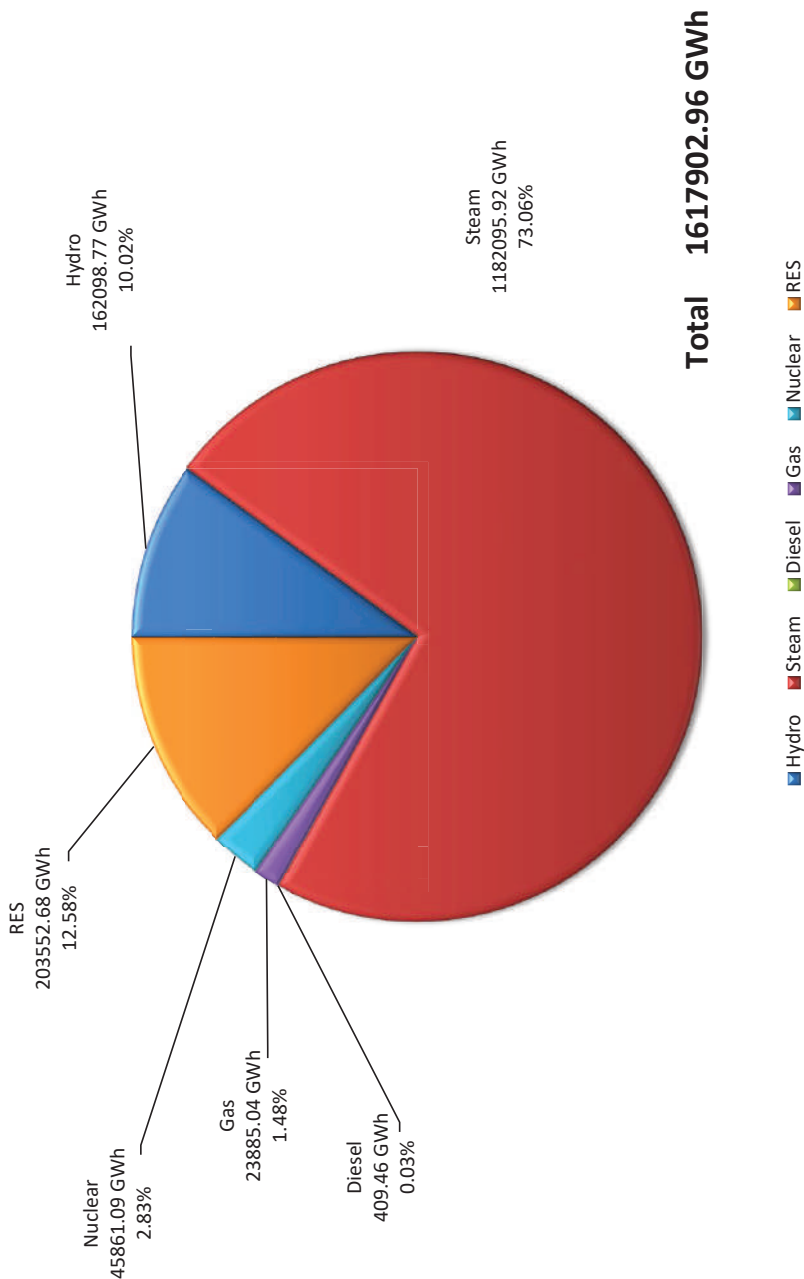




TABLE 4.2
ALL INDIA GROSS ELECTRICITY GENERATION OWNERSHIP-WISE AND MODE-WISE UTILITIES
2022-23

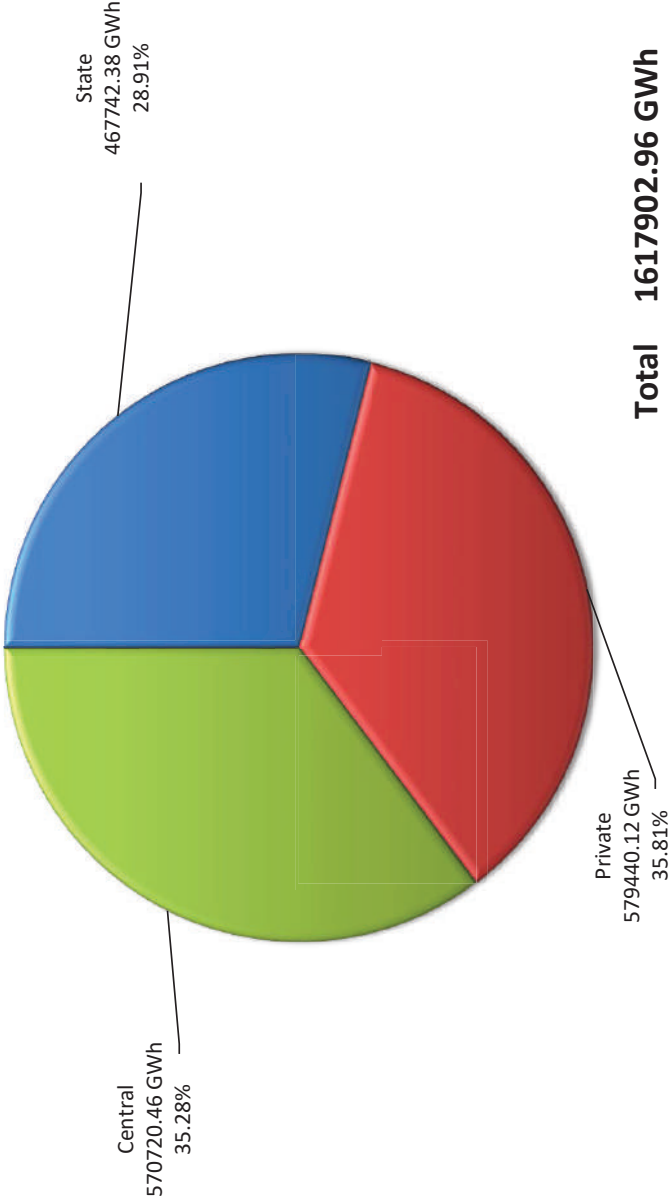
(GWh)

Sl. No.	State/UTs	Gross Electricity Generation (GWh)							Nuclear	RES	Total (2+6+7+8)
		Hydro	Thermal								
			Steam	Diesel	Gas	Total (Thermal) (3+4+5)					
	1	2	3	4	5	6	7	8	9		
1	Public Sector										
1.1	Elect.Deptt./Govt.Undertakings / Corpsns./ Joint Ventures	83209.08	368153.21	156.71	11048.21	379358.13	0.00	5175.17		467742.38	
1.2	Central Sector	62961.33	446021.00	0.00	10112.13	456133.13	45861.09	5764.91		570720.46	
	Sub-total Public Sector	146170.41	814174.21	156.71	21160.34	835491.26	45861.09	10940.08		1038462.84	
2	Private Sector										
2.1	Private Companies	15928.36	367921.71	252.75	2724.70	370899.16	0.00	192612.60		579440.12	
	Sub total Private Sector	15928.36	367921.71	252.75	2724.70	370899.16	0.00	192612.60		579440.12	
	Total All India	162098.77	1182095.92	409.46	23885.04	1206390.42	45861.09	203552.68		1617902.96	

Note: BBMB & DVC Generation is considered under central sector



**All India Gross Electricity Generation Sector-wise
Utilities
2022-23**



■ State ■ Private ■ Central



TABLE 4.3
ALL INDIA GROSS ELECTRICITY GENERATION STATE-WISE
UTILITIES
2022-23

(GWh)

State/UTs	2021-22	2022-23	% INCREASE
Chandigarh	14.19	12.61	-11.13
Delhi	8455.20	7155.27	-15.37
Haryana	22869.59	31077.03	35.89
Himachal Pradesh	11877.25	13761.08	15.86
UT of J&K and Ladakh	5764.50	5751.71	-0.22
Punjab	38241.56	46940.58	22.75
Rajasthan	77808.33	99407.94	27.76
Uttar Pradesh	76053.22	88045.10	15.77
Uttarakhand	10992.22	10743.06	-2.27
Central Sector NR	136225.46	146565.18	7.59
Sub Total (NR)	388301.53	449459.56	15.75
Chhattisgarh	85863.55	87434.56	1.83
Gujarat	76832.91	79899.25	3.99
Madhya Pradesh	70592.33	74464.42	5.49
Maharashtra	126071.81	132439.63	5.05
Dadar & Nagar Haveli and Daman & Diu	96.83	30.62	-68.38
Goa	16.82	18.25	8.52
Central Sector WR	144386.97	154375.04	6.92
Sub Total (WR)	503861.22	528661.77	4.92
Andhra Pradesh	62523.64	68875.39	10.16
Telangana	47398.19	48230.84	1.76
Karnataka	66202.94	66260.73	0.09
Kerala	10842.90	9669.87	-10.82
Tamil Nadu	56917.47	64699.66	13.67
Puducherry	263.37	245.31	-6.86
Lakshadweep	59.21	58.59	-1.05
Central Sector SR	92919.41	100336.46	7.98
Sub Total (SR)	337127.13	358376.85	6.30
Bihar	239.83	288.85	20.44
Jharkhand	14926.85	15618.37	4.63
Odisha	34703.99	36594.62	5.45
West Bengal	47235.88	50617.71	7.16
Sikkim	4075.86	4212.20	3.35
A. & N. Islands	184.60	383.29	107.63
Central Sector ER	133225.75	150509.30	12.97
Sub Total (ER)	234592.77	258224.34	10.07
Arunachal Pradesh	2.13	24.85	1066.46
Assam	2106.56	2434.45	15.57
Manipur	6.72	8.79	30.82
Meghalaya	886.50	1052.41	18.72
Mizoram	28.09	62.27	121.66
Nagaland	63.47	111.95	76.37
Tripura	567.57	551.23	-2.88
Central Sector NER	16919.38	18934.48	11.91
Sub Total (NER)	20580.43	23180.44	12.63
Central Sector All India	523676.97	570720.46	8.98
Total All India	1484463.08	1617902.96	8.99

Note: (1) (-ve) figures in the states & region sub-total are either due to retirements or change of sector.

(2) State wise Generation includes State Sector and Private Sector electricity Generation.

(3) BBMB & DVC Generation is considered under central sector.



TABLE 4.4
ALL INDIA GROSS ELECTRICITY GENERATION MODE-WISE/REGION-WISE/STATE-WISE
UTILITIES ONLY
2022-23

(GWh)

State/UTs	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	12.61	12.61
Delhi	0.00	3360.35	0.00	3264.72	6625.07	0.00	530.20	7155.27
Haryana	1025.63	28378.05	0.00	259.79	28637.84	0.00	1413.56	31077.03
Himachal Pradesh	10848.25	0.00	0.00	0.00	0.00	0.00	2912.83	13761.08
UT of J&K and Ladakh	5358.51	0.00	0.00	0.00	0.00	0.00	393.20	5751.71
Punjab	5074.20	37437.01	0.00	259.79	37696.80	0.00	4169.58	46940.58
Rajasthan	1261.77	58401.76	0.00	1316.34	59718.10	0.00	38428.07	99407.94
Uttar Pradesh	2062.48	79448.73	0.00	0.00	79448.73	0.00	6533.89	88045.10
Uttarakhand	9068.04	744.10	0.00	0.00	744.10	0.00	930.92	10743.06
Central Sector NR	47076.62	85410.95	0.00	1044.81	86455.76	9779.89	3252.91	146565.18
Sub Total (NR)	81775.50	293180.95	0.00	6145.45	299326.40	9779.89	58577.77	449459.56
Chhattisgarh	237.37	85194.14	0.00	0.00	85194.14	0.00	2003.05	87434.56
Gujarat	2107.62	47164.64	0.00	1626.20	48790.84	0.00	29000.79	79899.25
Madhya Pradesh	4996.02	61149.48	0.00	0.00	61149.48	0.00	8318.92	74464.42
Maharashtra	6944.73	106229.82	0.00	2113.62	108343.44	0.00	17151.46	132439.63
Dadar & Nagar Haveli and Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	30.62	30.62
Goa	0.00	0.00	0.00	0.00	0.00	0.00	18.25	18.25
Central Sector WR	5443.49	134085.26	0.00	848.43	134933.69	12625.39	1372.47	154375.04
Sub Total (WR)	19729.23	433823.34	0.00	4588.25	438411.59	12625.39	57895.56	528661.77
Andhra Pradesh	3994.41	48290.64	0.00	610.00	48900.64	0.00	15980.34	68875.39
Telangana	6298.49	34678.83	0.00	0.00	34678.83	0.00	7253.52	48230.84
Karnataka	13002.70	23683.55	0.00	0.00	23683.55	0.00	29574.48	66260.73
Kerala	7989.00	0.00	0.12	0.00	0.12	0.00	1680.75	9669.87
Tamil Nadu	5965.77	29481.56	0.00	1861.95	31343.51	0.00	27390.38	64699.66
Puducherry	0.00	0.00	0.00	233.07	233.07	0.00	12.24	245.31
Lakshadweep	0.00	0.00	58.49	0.00	58.49	0.00	0.10	58.59
Central Sector SR	0.00	75771.13	0.00	0.00	75771.13	23455.81	1109.52	100336.46
Sub Total (SR)	37250.37	211905.71	58.61	2705.02	214669.34	23455.81	83001.33	358376.85
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	288.85	288.85
Jharkhand	168.99	15429.67	0.00	0.00	15429.67	0.00	19.71	15618.37
Odisha	5082.20	30333.48	0.00	0.00	30333.48	0.00	1178.94	36594.62
West Bengal	1989.56	46669.11	0.00	0.00	46669.11	0.00	1959.04	50617.71
Sikkim	4199.85	0.00	0.00	0.00	0.00	0.00	12.35	4212.20
A.& N. Islands	0.00	0.00	350.85	0.00	350.85	0.00	32.44	383.29
Central Sector ER	4760.80	145727.42	0.00	0.00	145727.42	0.00	21.08	150509.30
Sub Total (ER)	16201.40	238159.68	350.85	0.00	238510.53	0.00	3512.41	258224.34
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	24.85	24.85
Assam	481.60	0.00	0.00	1676.98	1676.98	0.00	275.87	2434.45
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	8.79	8.79
Meghalaya	980.25	0.00	0.00	0.00	0.00	0.00	72.16	1052.41
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	62.27	62.27
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	111.95	111.95
Tripura	0.00	0.00	0.00	550.45	550.45	0.00	0.78	551.23
Central Sector NER	5680.42	5026.24	0.00	8218.89	13245.13	0.00	8.93	18934.48
Sub Total (NER)	7142.27	5026.24	0.00	10446.32	15472.56	0.00	565.61	23180.44
Central Sector All India	62961.33	446021.00	0.00	10112.13	456133.13	45861.09	5764.91	570720.46
Total All India	162098.77	1182095.92	409.46	23885.04	1206390.42	45861.09	203552.68	1617902.96

Note: BBMB & DVC Generation is considered under central sector



TABLE 4.5
ALL INDIA GROSS ELECTRICITY GENERATION BY ELECTRICITY DEPARTMENTS, GOVT.
UNDERTAKINGS, CENTRAL SECTOR AND MUNICIPALITIES
MODEWISE
2022-23

(GWh)

State/UTs	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
Electricity Departments/government Undertakings/corporations/central Sector								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	3264.72	3264.72	0.00	0.00	3264.72
Haryana	1025.63	15722.58	0.00	259.79	15982.37	0.00	200.53	17208.53
Himachal Pradesh	2752.86	0.00	0.00	0.00	0.00	0.00	801.17	3554.03
UT of J&K and Ladakh	5358.51	0.00	0.00	0.00	0.00	0.00	265.87	5624.38
Punjab	5074.20	7449.42	0.00	259.79	7709.21	0.00	495.29	13278.70
Rajasthan	1261.77	38046.39	0.00	1316.34	39362.73	0.00	7.17	40631.67
Uttar Pradesh	2062.48	34796.96	0.00	0.00	34796.96	0.00	121.40	36980.84
Uttarakhand	5177.21	0.00	0.00	0.00	0.00	0.00	116.44	5293.65
Central Sector (NR)	47076.62	85410.95	0.00	1044.81	86455.76	9779.89	3252.91	146565.18
Sub Total (NR)	69789.28	181426.30	0.00	6145.45	187571.75	9779.89	5260.78	272401.70
Chhattisgarh	237.37	17709.62	0.00	0.00	17709.62	0.00	22.67	17969.66
Gujarat	2107.62	24359.02	0.00	13.80	24372.82	0.00	199.69	26680.13
Madhya Pradesh	4996.02	27352.08	0.00	0.00	27352.08	0.00	312.39	32660.49
Maharashtra	5356.66	51741.36	0.00	1490.92	53232.28	0.00	585.83	59174.77
Dadar & Nagar Haveli and Daman & Diu	0.00	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	0.00
Central Sector (WR)	5443.49	134085.26	0.00	848.43	134933.69	12625.39	1372.47	154375.04
Sub Total (WR)	18141.16	255247.34	0.00	2353.15	257600.49	12625.39	2493.05	290860.09
Andhra Pradesh	3994.41	26317.77	0.00	244.66	26562.43	0.00	139.07	30695.91
Telangana	6298.49	34678.83	0.00	0.00	34678.83	0.00	42.00	41019.32
Karnataka	13002.70	18418.72	0.00	0.00	18418.72	0.00	346.96	31768.38
Kerala	7989.00	0.00	0.12	0.00	0.12	0.00	604.99	8594.11
Tamil Nadu	5965.77	22689.29	0.00	1737.69	24426.98	0.00	295.87	30688.62
Puducherry	0.00	0.00	0.00	233.07	233.07	0.00	0.00	233.07
Lakshadweep	0.00	0.00	58.49	0.00	58.49	0.00	0.00	58.49
Central Sector (SR)	0.00	75771.13	0.00	0.00	75771.13	23455.81	1109.52	100336.46
Sub Total (SR)	37250.37	177875.74	58.61	2215.42	180149.77	23455.81	2538.41	243394.36
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	12.63	12.63
Jharkhand	168.99	2585.54	0.00	0.00	2585.54	0.00	0.00	2754.53
Odisha	5082.20	11724.28	0.00	0.00	11724.28	0.00	87.50	16893.98
West Bengal	1989.56	34561.35	0.00	0.00	34561.35	0.00	211.68	36762.59
Sikkim	1845.78	0.00	0.00	0.00	0.00	0.00	12.35	1858.13
A & N. Islands	0.00	0.00	98.10	0.00	98.10	0.00	13.94	112.04
Central Sector (ER)	4760.80	145727.42	0.00	0.00	145727.42	0.00	21.08	150509.30
Sub Total (ER)	13847.33	194598.59	98.10	0.00	194696.69	0.00	359.19	208903.21
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	2.09	2.09
Assam	481.60	0.00	0.00	1676.98	1676.98	0.00	34.46	2193.04
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	980.25	0.00	0.00	0.00	0.00	0.00	72.16	1052.41
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	59.06	59.06
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	111.95	111.95
Tripura	0.00	0.00	0.00	550.45	550.45	0.00	0.00	550.45
Central Sector (NER)	5680.42	5026.24	0.00	8218.89	13245.13	0.00	8.93	18934.48
Sub Total (NER)	7142.27	5026.24	0.00	10446.32	15472.56	0.00	288.65	22903.48
Total-I, (All India)	146170.41	814174.21	156.71	21160.34	835491.26	45861.09	10940.080	1038462.84

Note: BBMB & DVC Generation is considered under central sector



TABLE 4.6
ALL INDIA GROSS ELECTRICITY GENERATION BY PRIVATE SECTOR
MODEWISE
2022-23

(GWh)

State/UTs	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
Private Sector								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	12.61	12.61
Delhi	0.00	3360.35	0.00	0.00	3360.35	0.00	530.20	3890.55
Haryana	0.00	12655.47	0.00	0.00	12655.47	0.00	1213.03	13868.50
Himachal Pradesh	8095.39	0.00	0.00	0.00	0.00	0.00	2111.66	10207.05
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	127.33	127.33
Punjab	0.00	29987.59	0.00	0.00	29987.59	0.00	3674.29	33661.88
Rajasthan	0.00	20355.37	0.00	0.00	20355.37	0.00	38420.90	58776.27
Uttar Pradesh	0.00	44651.77	0.00	0.00	44651.77	0.00	6412.49	51064.26
Uttarakhand	3890.83	744.10	0.00	0.00	744.10	0.00	814.48	5449.41
Chhattisgarh	0.00	67484.52	0.00	0.00	67484.52	0.00	1980.38	69464.90
Gujarat	0.00	22805.62	0.00	1612.40	24418.02	0.00	28801.10	53219.12
Madhya Pradesh	0.00	33797.40	0.00	0.00	33797.40	0.00	8006.53	41803.93
Maharashtra	1588.07	54488.46	0.00	622.70	55111.16	0.00	16565.63	73264.86
Dadar & Nagar Haveli and Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	30.62	30.62
Goa	0.00	0.00	0.00	0.00	0.00	0.00	18.25	18.25
Andhra Pradesh	0.00	21972.87	0.00	365.34	22338.21	0.00	15841.27	38179.48
Telangana	0.00	0.00	0.00	0.00	0.00	0.00	7211.52	7211.52
Karnataka	0.00	5264.83	0.00	0.00	5264.83	0.00	29227.52	34492.35
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	1075.76	1075.76
TamilNadu	0.00	6792.27	0.00	124.26	6916.53	0.00	27094.51	34011.04
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	12.24	12.24
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	276.21	276.21
Jharkhand	0.00	12844.13	0.00	0.00	12844.13	0.00	19.70	12863.83
Odisha	0.00	18609.20	0.00	0.00	18609.20	0.00	1091.44	19700.64
West Bengal	0.00	12107.76	0.00	0.00	12107.76	0.00	1747.36	13855.12
Sikkim	2354.07	0.00	0.00	0.00	0.00	0.00	0.00	2354.07
A & N. Islands	0.00	0.00	252.75	0.00	252.75	0.00	18.50	271.25
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	22.76	22.76
Assam	0.00	0.00	0.00	0.00	0.00	0.00	241.41	241.41
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	8.79	8.79
Meghalaya	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	3.21	3.21
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	0.78	0.78
Total-II, (All India)	15928.36	367921.71	252.75	2724.70	370899.16	0.00	192612.60	579440.12
All India Total (I+II)	162098.77	1182095.92	409.46	23885.04	1206390.42	45861.09	203552.68	1617902.96



TABLE 4.7
STATE-WISE ELECTRICITY GENERATION BY RENEWABLE POWER DURING
2022-23

							(GWh)
Name of State/UT	Wind	Solar	Biomass	Bagasse	Small Hydro	Waste to Energy	Total
Chandigarh	0.00	12.61	0.00	0.00	0.00	0.00	12.61
Delhi	0.00	236.11	0.00	0.00	0.00	294.09	530.20
Haryana	0.00	555.20	356.07	203.01	241.90	63.55	1419.73
Himachal Pradesh	0.00	58.76	0.00	0.00	2854.07	0.00	2912.83
Jammu & Kashmir	0.00	0.00	0.00	0.00	393.20	0.00	393.20
Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Punjab	0.00	2778.66	497.68	210.76	682.48	0.00	4169.58
Rajasthan	6111.41	34474.43	397.05	0.00	7.17	0.00	40990.05
Uttar Pradesh	0.00	3674.02	66.35	3183.67	234.69	58.45	7217.18
Uttarakhand	0.00	331.80	0.00	248.52	352.07	0.00	932.39
Northern Region	6111.41	42121.59	1317.15	3845.96	4765.58	416.08	58577.77
Chhattisgarh	0.00	635.42	1194.60	17.10	155.92	0.00	2003.05
Gujarat	19206.22	10335.32	0.00	5.76	213.10	2.24	29762.63
Madhya Pradesh	4486.72	3839.30	38.76	113.05	357.97	36.93	8872.72
Maharashtra	7243.06	4387.85	236.48	4572.03	766.73	0.44	17206.59
Dadar & Nagar Haveli and Daman & Diu	0.00	27.40	3.22	0.00	0.00	0.00	30.62
Goa	0.00	14.87	0.00	0.00	0.00	5.09	19.96
Western Region	30935.99	19240.16	1473.06	4707.94	1493.72	44.70	57895.56
Andhra Pradesh	7426.46	8140.72	54.86	99.93	410.90	279.04	16411.91
Telangana	279.23	6745.46	21.48	132.94	91.71	159.08	7429.89
Karnataka	9967.89	14153.79	106.90	3037.31	2308.59	0.00	29574.48
Kerala	179.32	879.75	0.00	62.85	824.34	0.00	1946.26
Tamil Nadu	16913.85	9419.39	126.93	869.56	296.71	0.00	27626.45
Lakshadweep	0.00	0.10	0.00	0.00	0.00	0.00	0.10
Puducherry	0.00	12.24	0.00	0.00	0.00	0.00	12.24
Southern Region	34766.76	39351.45	310.17	4202.58	3932.25	438.12	83001.33
Andaman & Nicobar	0.00	23.94	0.00	0.00	13.94	0.00	37.88
Bihar	0.00	169.53	0.00	106.68	12.63	0.00	288.85
Jharkhand	0.00	19.70	0.00	0.00	2.40	0.00	22.10
Odisha	0.00	706.24	60.95	0.00	424.92	0.00	1192.10
Sikkim	0.00	0.00	0.00	0.00	12.35	0.00	12.35
West Bengal	0.00	125.04	0.00	0.00	204.44	1629.64	1959.12
Eastern Region	0.00	1044.45	60.95	106.68	670.69	1629.64	3512.41
Arunachal Pradesh	0.00	22.27	0.00	0.00	2.55	0.03	24.85
Assam	0.00	216.35	0.00	0.00	62.66	0.00	279.01
Manipur	0.00	8.17	0.00	0.00	0.00	0.63	8.79
Meghalaya	0.00	0.00	0.00	0.00	72.16	0.00	72.16
Mizoram	0.00	3.21	0.00	0.00	59.06	0.00	62.27
Nagaland	0.00	0.00	0.00	0.00	111.95	0.00	111.95
Tripura	0.00	6.58	0.00	0.00	0.00	0.00	6.58
North Eastern Region	0.00	256.58	0.00	0.00	308.38	0.65	565.61
All India Total	71814.16	102014.24	3161.32	12863.16	11170.61	2529.18	203552.68

CHAPTER 5

CAPTIVE ELECTRICITY GENERATION PLANT







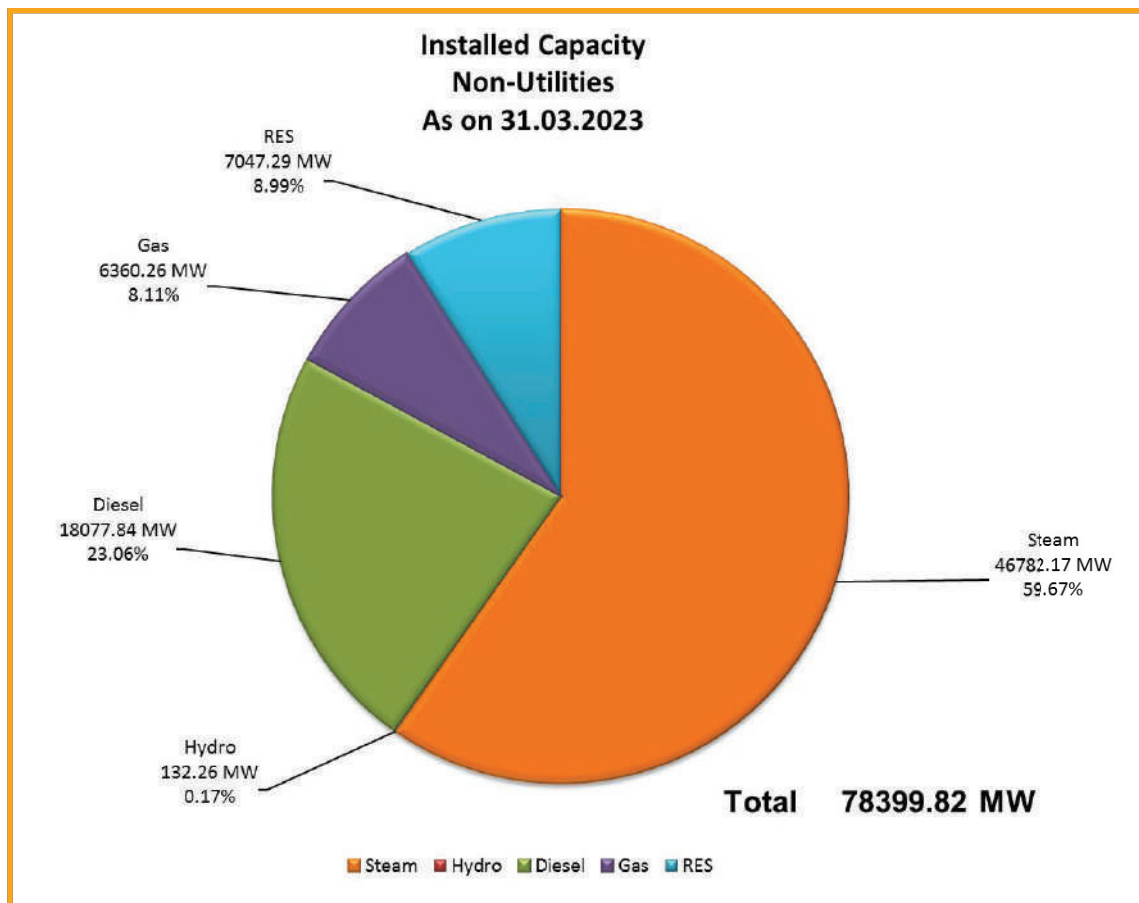
CHAPTER 5

CAPTIVE POWER PLANTS

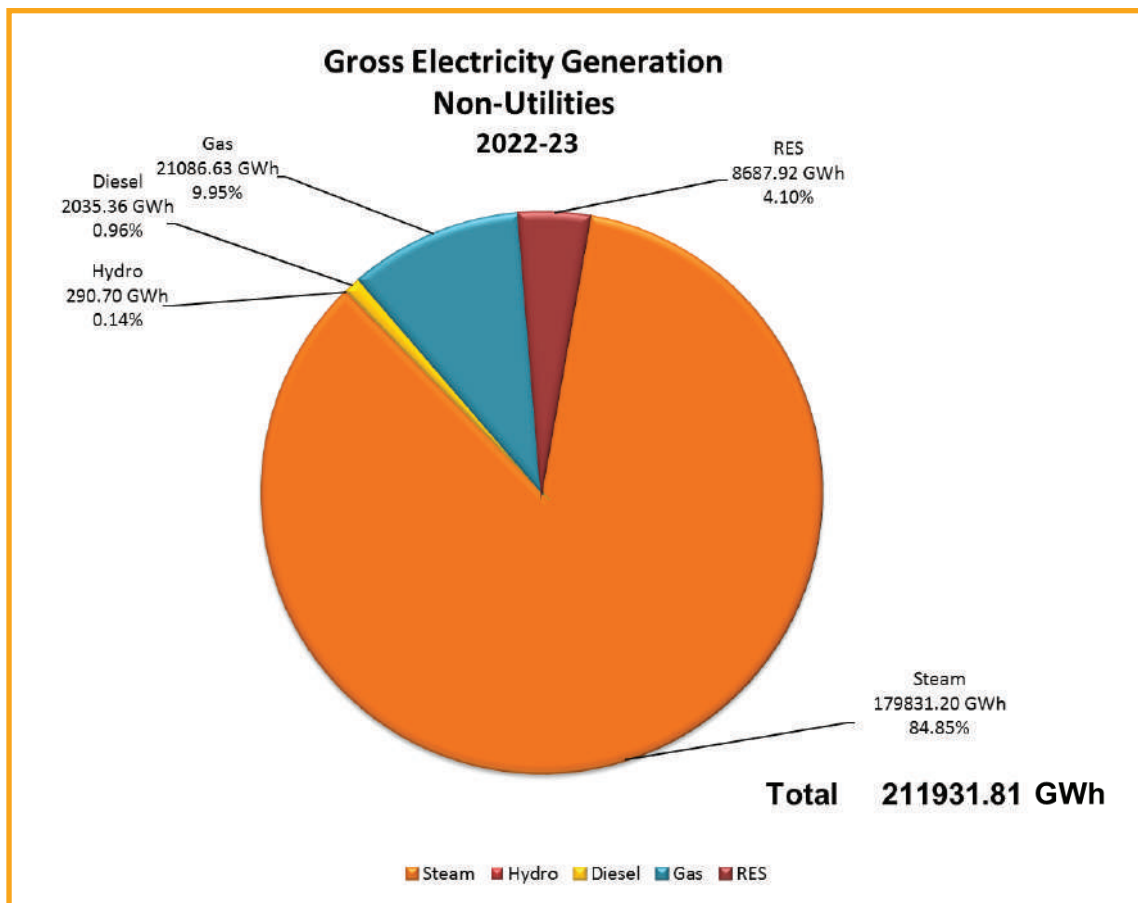
Power intensive Industries such as Aluminium, Cement, Chemicals, Fertilizers, Iron & Steel, Paper and Sugar etc. have set up their own captive power plants, either to supplement the electricity purchased from the Utilities, or for emergency use to protect against unreliable grid power such as power restriction/failure/cut. Energy is also produced as a by-product of certain industrial processes. The captive power plants of industries may be allowed to sell their surplus power, if any, to the Grid, on a remunerative tariff, as per mutually agreed terms.

The information has been collected from the industries with demand of 0.5 MW and above having their own captive power plants. The same has been compiled in this section of the book. Details were received from 8408 industrial units with demand of 0.5 MW and above having Captive generation plants

- The total installed capacity of such captive generating power plants was 78399.82 MW as on 31.03.2023.
- The installed capacity has registered a growth of 2.17% over the total installed captive power plant capacity of 76732.43 MW as on 31.03.2022.
- The contribution of Hydro, Steam, Diesel, Gas and RES capacity had been 0.17%, 59.67%, 23.06%, 8.11% & 8.99% respectively in the total capacity as on 31.03.2023.



- The Captive Power Plant generated 211931.81 GWh during 2022-23 and registered an increase of 1.25% over the generation of 209310.77 GWh during 2021-22.
- The contribution of Hydro, Steam, Diesel, Gas and RES generation had been 0.14%, 84.85%, 0.96%, 9.95% and 4.10% respectively in the total captive generation.
- In the year 2022-23, Industrial Sector is the largest consumer of energy which has consumed about 42.26% of total electricity consumption in the country.



The **Tables 5.1 to 5.11** give the details of electricity generation, consumption and installed capacity of captive electricity plants mode-wise, industry-wise & state-wise in respect of Industries with demand of 0.5 MW & above and having Captive generation plants.



INSTALLED CAPACITY
NON-UTILITIES
2020-21 to 2022-23

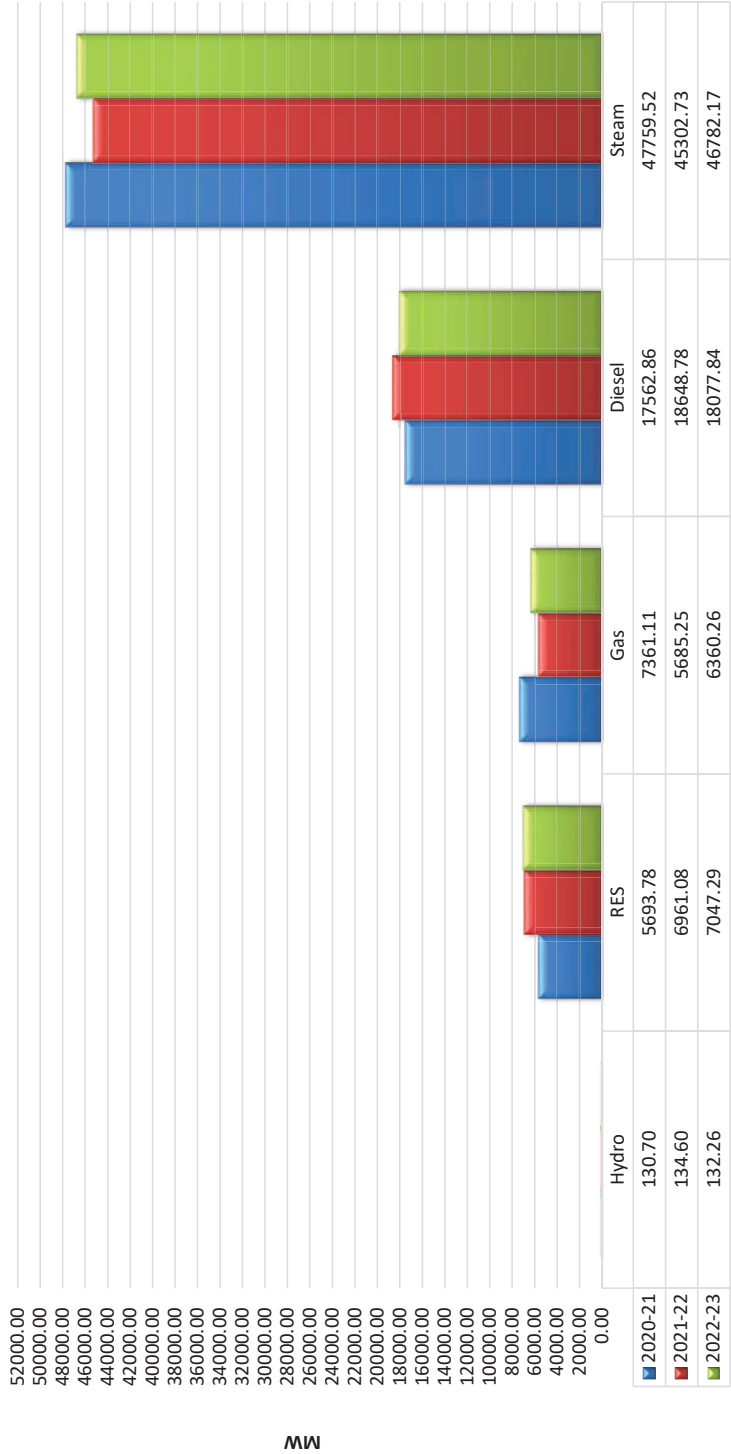




TABLE 5.1
INDUSTRY-WISE BREAK-UP OF INSTALLED CAPACITY, ELECTRICITY GENERATION
AND CONSUMPTION OF CAPTIVE POWER PLANTS
2022-23

Name of Industry	No. of Industries covered	Installed Generating Capacity (MW)	Energy Generation (GWh)	Energy Consumption (GWh)
Aluminium	73	9809.50	48093.78	52967.20
Automobiles	499	1899.93	1353.01	5837.50
Cement	406	7090.14	18276.32	30103.49
Chemical	596	4304.04	8916.73	18364.33
Collieries	20	282.01	285.74	7035.40
Electrical Engineering	196	1651.48	2843.57	3862.96
Fertiliser	87	1473.62	4714.50	6154.12
Food Products	500	1344.43	1021.23	3823.49
Heavy Engineering	135	627.95	664.65	1695.37
Iron & Steel	690	15460.78	59870.26	77940.05
Jute	24	60.12	33.50	185.63
Light Engineering	341	1149.11	880.80	3678.06
Mineral Oil & Petroleum	239	6399.88	24823.60	27221.46
Mining & Quarrying	61	473.94	1451.76	3463.70
Miscellaneous	1472	7059.76	8195.26	19738.50
Non Ferrous	51	823.78	3574.43	5283.63
Paper	174	1835.63	7252.26	8320.06
Plastic	121	306.90	436.43	1199.44
Rubber	119	476.40	321.92	2214.06
Sugar	429	6905.44	13837.47	8416.59
Textile	956	4250.26	4359.61	16680.70
Non Industry	1219	4714.72	725.00	6929.22
All India(Non-Utilities)	8408	78399.82	211931.81	311114.94



TABLE 5.2
ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/ INDUSTRY-WISE
2022-23

(MW)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Collieries	Electrical Engineering	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0	2	0	0	0	5	0	0
Delhi	0	2	0	0	0	1	0	2
Haryana	10	866	34	135	0	166	6	161
Himachal Pradesh	0	10	92	43	0	16	0	21
UT of J&K and Ladakh	0	0	0	2	0	0	0	5
Punjab	3	108	32	85	0	9	88	231
Rajasthan	3	132	1281	113	0	44	0	85
Uttar Pradesh	931	50	217	55	0	12	194	121
Uttarakhand	1	62	5	53	0	2	0	49
Sub-Total (NR)	948	1232	1661	486	0	255	289	675
Chhattisgarh	1740	0	645	35	0	48	0	6
Gujarat	0	23	317	1498	23	64	459	64
Madhya Pradesh	0	5	1154	247	0	102	130	94
Maharashtra	19	218	260	545	0	144	157	36
DNH & DD	2	0	0	9	0	15	0	0
Goa	0	0	0	4	0	0	14	11
Sub-Total (WR)	1762	245	2376	2337	23	373	760	211
Andhra Pradesh	230	5	665	233	0	40	36	130
Telangana	7	11	676	469	219	198	0	29
Karnataka	9	99	728	187	0	135	0	57
Kerala	0	0	1	74	9	33	4	5
Tamil Nadu	10	280	651	191	0	615	60	195
Puducherry	0	5	0	52	0	0	0	5
Lakshadweep	0	0	0	0	0	0	0	0
Sub-Total (SR)	257	400	2721	1206	228	1021	101	420
Bihar	0	0	31	1	0	0	54	2
Jharkhand	35	9	60	115	27	0	0	0
Odisha	6808	3	129	1	4	0	173	0
West Bengal	0	10	49	140	0	2	68	32
Sikkim	0	0	0	17	0	0	0	2
Andaman & Nicobar	0	0	0	0	0	0	0	0
Sub-Total (ER)	6843	22	269	274	31	2	294	35
Arunachal Pradesh	0	0	0	0	0	0	0	0
Assam	0	0	26	1	0	0	30	3
Manipur	0	0	0	0	0	0	0	0
Meghalaya	0	0	38	0	0	0	0	0
Mizoram	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
Sub-Total (NER)	0	0	64	1	0	0	30	3
Total (All India)	9809	1900	7090	4304	282	1651	1474	1344



TABLE 5.2 (CONTD.)
ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/ INDUSTRY-WISE
2022-23

(MW)

State/UTs	Heavy Engineering	Iron & Steel	Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous
	9	10	11	12	13	14	15
Chandigarh	0	12	0	4	0	0	43
Delhi	0	0	0	1	0	0	11
Haryana	85	211	0	35	491	2	1362
Himachal Pradesh	0	1	0	1	1	0	126
UT of J&K and Ladakh	0	3	0	0	0	0	0
Punjab	10	201	0	43	189	0	332
Rajasthan	18	25	0	26	61	225	401
Uttar Pradesh	22	132	6	43	215	0	433
Uttarakhand	7	5	0	5	7	0	165
Sub-Total (N R)	143	588	6	158	964	227	2873
Chhattisgarh	0	3280	0	0	12	16	6
Gujarat	36	700	0	105	2520	2	472
Madhya Pradesh	54	42	0	2	35	4	67
Maharashtra	28	1646	0	50	557	0	796
DNH & DD	1	0	0	0	3	1	17
Goa	5	90	0	3	0	82	13
Sub-Total (W R)	123	5758	0	160	3126	103	1371
Andhra Pradesh	167	863	5	59	323	15	277
Telangana	41	30	0	36	0	8	269
Karnataka	73	1327	14	165	307	62	486
Kerala	4	1	0	9	204	3	21
Tamil Nadu	47	834	0	554	431	0	885
Puducherry	0	8	0	7	4	0	26
Lakshadweep	0	0	0	0	0	0	0
Sub-Total (S R)	333	3062	20	830	1267	88	1962
Bihar	0	0	0	0	91	0	52
Jharkhand	2	1437	0	0	1	46	22
Odisha	2	4156	0	0	380	8	734
West Bengal	25	435	35	1	116	2	32
Sikkim	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0
Sub-Total (E R)	29	6029	35	1	587	55	839
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	0	0	0	0	455	0	14
Manipur	0	0	0	0	0	0	0
Meghalaya	0	24	0	0	0	0	0
Mizoram	0	0	0	0	0	0	0
Nagaland	0	0	0	0	0	0	0
Tripura	0	0	0	0	0	0	0
Sub-Total (N E R)	0	24	0	0	455	0	14
Total (All India)	628	15461	60	1149	6400	474	7060

TABLE 5.2 (CONTD)
ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/ INDUSTRY-WISE
2022-23

(MW)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Non Industry	Total (1 to 22)
	16	17	18	19	20	21	22	23
Chandigarh	1	0	0	0	0	1	8	75
Delhi	0	0	0	0	0	0	316	334
Haryana	24	50	26	51	93	145	1586	5539
Himachal Pradesh	2	12	7	2	0	94	7	435
UT of J&K and Ladakh	0	0	0	0	0	19	0	28
Punjab	2	233	4	20	171	393	164	2319
Rajasthan	517	1	57	28	5	313	107	3441
Uttar Pradesh	0	56	10	8	2832	86	265	5688
Uttarakhand	5	114	42	57	84	16	13	693
Sub-Total (N R)	551	467	147	167	3184	1066	2465	18552
Chhattisgarh	0	7	4	0	18	34	0	5850
Gujarat	151	167	3	38	63	332	0	7036
Madhya Pradesh	7	131	9	19	54	110	0	2266
Maharashtra	0	156	15	14	1030	180	0	5850
DNH & DD	6	0	4	0	0	37	0	94
Goa	0	0	0	12	0	0	0	234
Sub-Total (W R)	163	461	35	82	1165	693	0	21329
Andhra Pradesh	0	87	0	0	260	77	51	3522
Telangana	7	207	1	41	167	44	207	2666
Karnataka	50	133	0	15	1481	76	1095	6500
Kerala	21	26	0	6	0	4	126	551
Tamil Nadu	32	332	81	130	533	2261	588	8709
Puducherry	0	0	1	28	7	4	21	166
Lakshadweep	0	0	0	0	0	0	0	0
Sub-Total (S R)	110	784	83	221	2447	2466	2088	22114
Bihar	0	0	0	0	109	0	2	340
Jharkhand	0	0	0	0	0	0	0	1752
Odisha	0	96	2	0	0	0	20	12517
West Bengal	0	29	39	7	0	26	121	1166
Sikkim	0	0	0	0	0	0	1	20
Andaman & Nicobar	0	0	0	0	0	0	0	0
Sub-Total (E R)	0	124	41	7	109	26	144	15795
Arunachal Pradesh	0	0	0	0	0	0	0	0
Assam	0	0	1	0	0	0	11	541
Manipur	0	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	7	68
Mizoram	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
Sub-Total (N E R)	0	0	1	0	0	0	18	609
Total (All India)	824	1836	307	476	6905	4250	4715	78400



TABLE 5.3
ALL INDIA GROSS ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/ INDUSTRY-WISE
2022-23

(GWh)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Collieries	Electrical Engineering	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	2.54	0.00	0.00	0.00	0.03	0.00	0.01
Haryana	1.34	562.56	11.74	170.51	0.00	10.50	0.10	68.27
Himachal Pradesh	0.00	1.62	45.23	3.85	0.00	0.94	0.00	8.05
UT of J&K and Ladakh	0.00	0.00	0.00	0.13	0.00	0.00	0.00	1.47
Punjab	0.13	6.69	74.37	104.03	0.00	3.73	242.63	319.68
Rajasthan	1.02	31.36	3248.73	196.69	0.00	14.26	0.00	14.64
Uttar Pradesh	7043.32	144.03	303.14	191.14	0.00	1.14	940.20	12.49
Uttarakhand	0.14	12.44	1.58	123.38	0.00	0.00	0.00	11.30
Sub-Total (N R)	7045.94	761.24	3684.79	789.73	0.00	30.59	1182.94	435.90
Chhattisgarh	5840.60	0.00	1949.84	74.00	0.00	149.45	0.00	11.97
Gujarat	0.00	25.02	1026.34	3788.14	49.83	36.09	1339.31	68.21
Madhya Pradesh	0.00	0.07	2759.03	908.73	0.00	178.24	513.61	76.94
Maharashtra	20.42	106.24	668.10	590.80	0.00	357.76	499.51	8.99
DNH & DD	0.03	0.00	0.00	0.53	0.00	6.21	0.00	0.00
Goa	0.00	0.00	0.00	0.20	0.00	0.00	57.08	0.98
Sub-Total (W R)	5861.06	131.32	6403.32	5362.40	49.83	727.76	2409.52	167.08
Andhra Pradesh	205.48	0.79	1747.10	328.40	0.00	64.43	188.78	96.11
Telangana	0.50	2.18	2015.01	721.04	233.43	753.32	0.00	3.63
Karnataka	0.04	35.34	2058.98	347.96	0.00	307.30	0.00	44.37
Kerala	0.00	0.00	0.01	142.31	0.40	84.00	0.07	0.37
Tamil Nadu	6.18	408.72	1550.06	217.00	0.00	875.98	64.11	262.71
Puducherry	0.00	2.23	0.00	78.22	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 (S R)	212.20	449.26	7371.16	1834.93	233.82	2085.03	252.96	407.21
Bihar	0.00	0.00	10.15	1.54	0.00	0.00	112.63	0.21
Jharkhand	135.36	3.03	128.83	502.13	0.01	0.00	0.00	0.00
Odisha	34839.21	1.49	530.19	0.05	2.08	0.00	517.86	0.00
West Bengal	0.00	6.68	26.37	421.18	0.00	0.20	135.60	10.57
Sikkim	0.00	0.00	0.00	4.62	0.00	0.00	0.00	0.13
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (E R)	34974.58	11.20	695.54	929.52	2.08	0.20	766.08	10.90
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	21.47	0.16	0.00	0.00	102.99	0.13
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	100.05	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
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
Sub-Total (N E R)	0.00	0.00	121.52	0.16	0.00	0.00	102.99	0.13
Total (All India)	48093.78	1353.01	18276.32	8916.73	285.74	2843.57	4714.50	1021.23



TABLE 5.3 (CONTD.)
ALL INDIA GROSS ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/ INDUSTRY-WISE
2022-23

(GWh)

State/UTs	Heavy Engineering	Iron & Steel	Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous
	9	10	11	12	13	14	15
Chandigarh	0.00	0.00	0.00	0.21	0.00	0.00	4.74
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	0.08
Haryana	2.47	35.90	0.00	2.27	2250.55	0.00	175.85
Himachal Pradesh	0.00	0.03	0.00	0.19	0.14	0.00	12.32
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Punjab	0.26	6.19	0.00	28.09	1147.80	0.00	355.58
Rajasthan	5.17	2.68	0.00	2.09	42.54	926.05	889.74
Uttar Pradesh	2.66	63.72	0.15	88.83	765.13	0.00	196.71
Uttarakhand	7.63	0.80	0.00	0.40	0.84	0.00	129.19
Sub-Total (N R)	18.19	109.32	0.15	122.07	4206.99	926.05	1764.21
Chhattishgarh	0.00	9627.57	0.00	0.00	36.77	0.00	21.30
Gujarat	36.15	3049.45	0.00	64.10	10803.92	0.00	539.56
Madhya Pradesh	3.32	84.20	0.00	0.00	28.14	0.00	48.16
Maharashtra	85.88	5937.17	0.00	88.62	1233.59	0.00	1240.04
DNH & DD	0.00	0.00	0.00	0.00	0.12	0.00	0.49
Goa	0.45	354.22	0.00	1.23	0.00	362.40	3.07
Sub-Total (W R)	125.80	19052.61	0.00	153.95	12102.54	362.40	1852.62
Andhra Pradesh	358.29	4458.53	0.90	178.36	1388.23	0.57	303.26
Telangana	36.16	61.14	0.00	7.52	0.00	2.72	197.57
Karnataka	91.80	6665.16	27.96	226.67	579.55	60.77	351.61
Kerala	1.84	0.00	0.00	0.97	1051.96	0.04	0.43
Tamil Nadu	31.08	1847.48	0.00	190.26	1623.71	0.00	927.78
Puducherry	0.00	0.00	0.00	0.98	0.00	0.00	1.56
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	519.16	13032.31	28.87	604.76	4643.45	64.09	1782.22
Bihar	0.00	0.00	0.00	0.00	494.17	0.00	3.09
Jharkhand	0.07	7987.65	0.00	0.00	0.00	98.54	122.37
Orissa	0.10	17085.09	0.00	0.00	1620.97	0.53	2644.13
West Bengal	1.32	2563.10	4.49	0.02	486.77	0.15	19.42
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (E R)	1.49	27635.84	4.49	0.02	2601.90	99.22	2789.00
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00	1268.71	0.00	7.20
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	40.18	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
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
Sub-Total (N E R)	0.00	40.18	0.00	0.00	1268.71	0.00	7.20
Total (All India)	664.65	59870.26	33.50	880.80	24823.60	1451.76	8195.26



TABLE 5.3 (CONTD.)
ALL INDIA GROSS ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/ INDUSTRY-WISE
2022-23

(GWh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Non Industry	Total
	16	17	18	19	20	21	22	23
Chandigarh	0.04	0.00	0.00	0.00	0.00	0.00	0.74	5.73
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	14.01	16.66
Haryana	0.74	53.17	2.50	7.79	254.13	67.33	193.69	3871.41
Himachal Pradesh	0.15	61.67	0.94	0.09	0.00	2.66	0.35	138.22
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	1.47	0.00	3.07
Punjab	0.01	1212.61	0.09	4.53	327.55	431.92	53.09	4318.97
Rajasthan	2742.13	0.05	12.13	8.30	6.43	374.68	49.61	8568.28
Uttar Pradesh	0.00	194.63	3.38	2.50	4917.51	137.02	8.81	15016.50
Uttarakhand	0.26	549.81	6.95	161.31	76.53	2.90	0.28	1085.73
Sub-Total (N R)	2743.34	2071.95	25.98	184.51	5582.16	1017.98	320.57	33024.58
Chhattishgarh	0.00	12.30	0.07	0.00	34.51	1.08	0.00	17759.46
Gujarat	509.88	602.52	0.03	23.83	113.20	599.05	0.00	22674.63
Madhya Pradesh	0.12	272.02	0.34	1.20	144.95	127.91	0.00	5147.00
Maharashtra	0.00	645.64	13.64	1.48	2436.30	150.19	0.00	14084.38
DNH & DD	0.68	0.00	0.81	0.00	0.00	17.29	0.00	26.16
Goa	0.00	0.00	0.00	0.65	0.00	0.00	0.00	780.28
Sub-Total (W R)	510.68	1532.48	14.88	27.17	2728.95	895.52	0.00	60471.91
Andhra Pradesh	0.00	330.21	0.00	0.00	347.53	104.12	16.29	10117.37
Telangana	0.16	936.56	0.03	0.51	229.99	15.91	29.72	5247.09
Karnataka	282.45	428.57	0.00	0.80	3650.20	71.77	162.94	15394.25
Kerala	34.25	32.94	0.00	0.05	0.00	0.26	53.95	1403.84
Tamil Nadu	3.55	1346.98	306.77	105.15	1092.58	2221.98	113.66	13195.74
Puducherry	0.00	0.00	0.01	1.61	0.00	0.00	1.23	85.84
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	320.41	3075.27	306.81	108.11	5320.30	2414.03	377.78	45444.12
Bihar	0.00	0.00	0.00	0.00	206.06	0.00	0.02	827.87
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8977.99
Orissa	0.00	480.78	0.00	0.00	0.00	0.00	2.44	57724.90
West Bengal	0.00	91.79	88.75	2.12	0.00	32.08	20.20	3910.79
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.48	5.23
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (E R)	0.00	572.57	88.75	2.12	206.06	32.08	23.13	71446.78
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.01	0.00	0.00	0.00	3.44	1404.12
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	0.08	140.31
Mizoram	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
Sub-Total (N E R)	0.00	0.00	0.01	0.00	0.00	0.00	3.52	1544.43
Total (All India)	3574.43	7252.26	436.43	321.92	13837.47	4359.61	725.00	211931.81



TABLE 5.4
INDUSTRY-WISE/ MODE-WISE ALL INDIA INSTALLED CAPACITY
OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE
31.03.2023

(kW)

Name of Industry	No. of Industries covered	Hydro	Steam	Diesel	Gas	Solar	Wind	BioMass	Total
1	2	3	4	5	6	7	8	9	10
Aluminium	73	4	9584	165	0	46	9	0	9809
Automobiles	499	0	150	1155	257	228	109	0	1900
Cement	406	0	5245	970	128	633	114	0	7090
Chemical	596	4	1946	1383	627	152	193	0	4304
Collieries	20	0	20	17	0	222	23	0	282
Electrical Engineering	196	44	764	449	129	61	205	0	1651
Fertiliser	87	0	494	121	731	73	54	0	1474
Food Products	500	0	277	871	25	50	122	0	1344
Heavy Engineering	135	0	165	274	18	83	87	0	628
Iron & Steel	690	3	13323	1138	597	225	176	0	15461
Jute	24	0	10	39	6	6	0	0	60
Light Engineering	341	0	94	659	201	38	157	0	1149
Mineral Oil & Petroleum	239	0	2993	269	2987	76	74	0	6400
Mining & Quarrying	61	0	296	126	13	39	0	0	474
Miscellaneous	1472	7	1712	3950	446	424	520	0	7060
Non Ferrous	51	38	606	140	0	23	17	0	824
Paper	174	0	1611	156	6	12	22	28	1836
Plastic	121	0	67	184	2	28	27	0	307
Rubber	119	0	56	317	19	37	48	0	476
Sugar	429	1	6612	185	7	99	2	0	6905
Textile	956	31	559	1538	128	517	1477	0	4250
Non Industry	1219	1	199	3974	32	403	106	0	4715
Total	8408	132	46782	18078	6360	3477	3542	28	78400



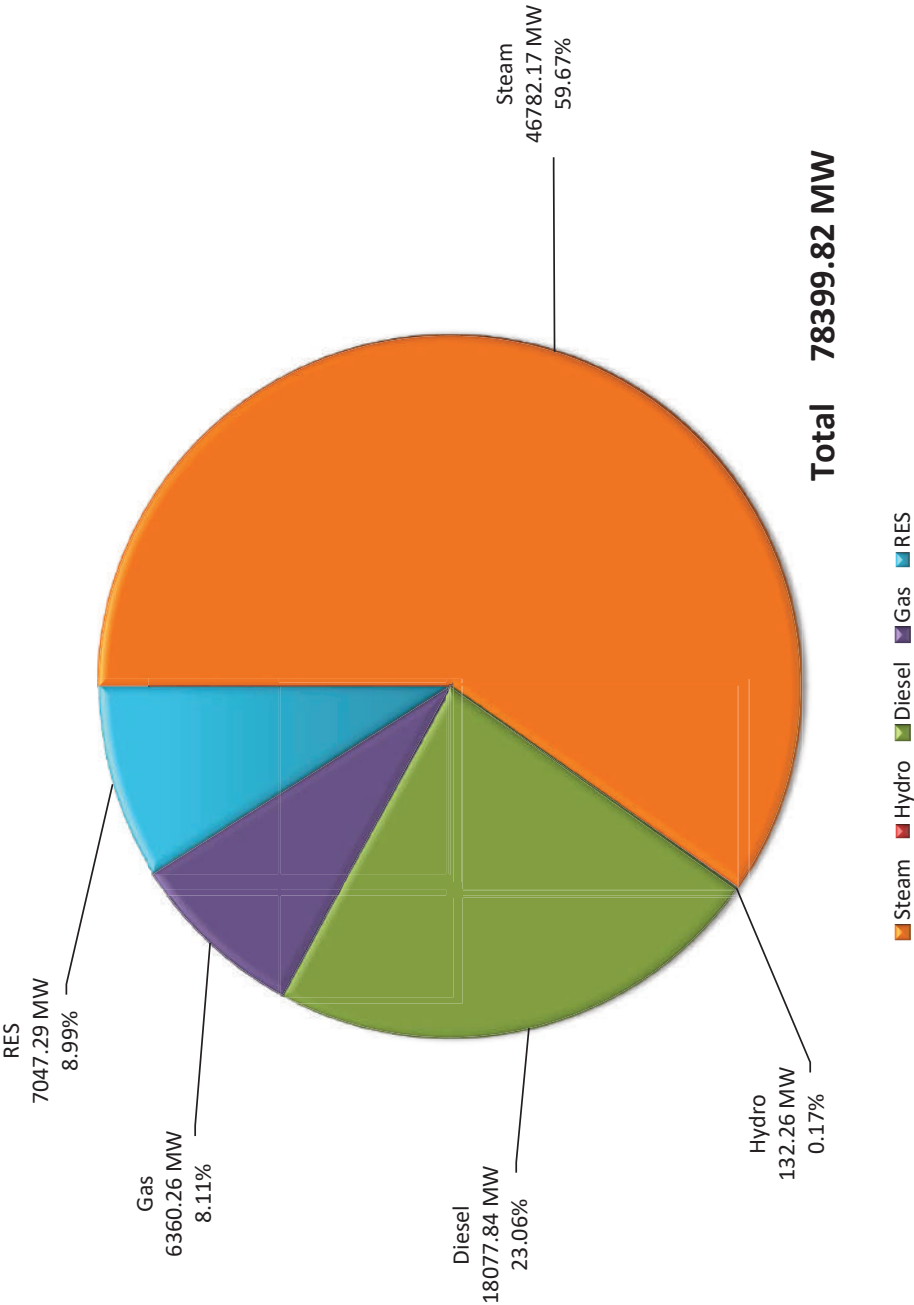
TABLE 5.5
INDUSTRY-WISE/ MODE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION BY
CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF
0.5 MW & ABOVE
2022-23

(GWh)

Name of Industry	Energy Generated							
	Hydro	Steam	Diesel	Gas	Solar	Wind	Biomass	Total
1	2	3	4	5	6	7	8	9
Aluminium	9	48013	3	0	58	11	0	48093.78
Automobiles	0	429	292	345	206	81	0	1353.01
Cement	0	17165	76	251	574	211	0	18276.32
Chemical	7	6762	241	1377	211	320	0	8916.73
Collieries	0	0	0	0	235	50	0	285.74
Electrical Engineering	115	2170	55	93	79	332	0	2843.57
Fertiliser	0	1089	16	3484	38	88	0	4714.50
Food Products	0	677	142	35	43	124	0	1021.23
Heavy Engineering	0	405	12	73	95	81	0	664.65
Iron & Steel	4	58118	254	1063	232	200	0	59870.26
Jute	0	24	1	3	6	0	0	33.50
Light Engineering	0	361	136	113	45	226	0	880.80
Mineral Oil & Petroleum	0	11145	18	13474	67	120	0	24823.60
Mining & Quarrying	0	1368	6	15	64	0	0	1451.76
Miscellaneous	0	6150	243	552	532	718	0	8195.26
Non Ferrous	89	3452	6	0	28	0	0	3574.43
Paper	0	6908	71	5	12	42	214	7252.26
Plastic	0	335	33	0	35	33	0	436.43
Rubber	0	170	26	19	51	55	0	321.92
Sugar	1	13748	6	20	64	0	0	13837.47
Textile	68	1318	201	139	587	2047	0	4359.61
Non Industry	0	28	198	26	411	61	0	725.00
Total	290.70	179831.20	2035.36	21086.63	3672.79	4801.17	213.96	211931.81



**Installed Capacity
Non-Utilities
As on 31.03.2023**





**INSTALLED CAPACITY
NON-UTILITIES (RES)
As on 31.03.2023**

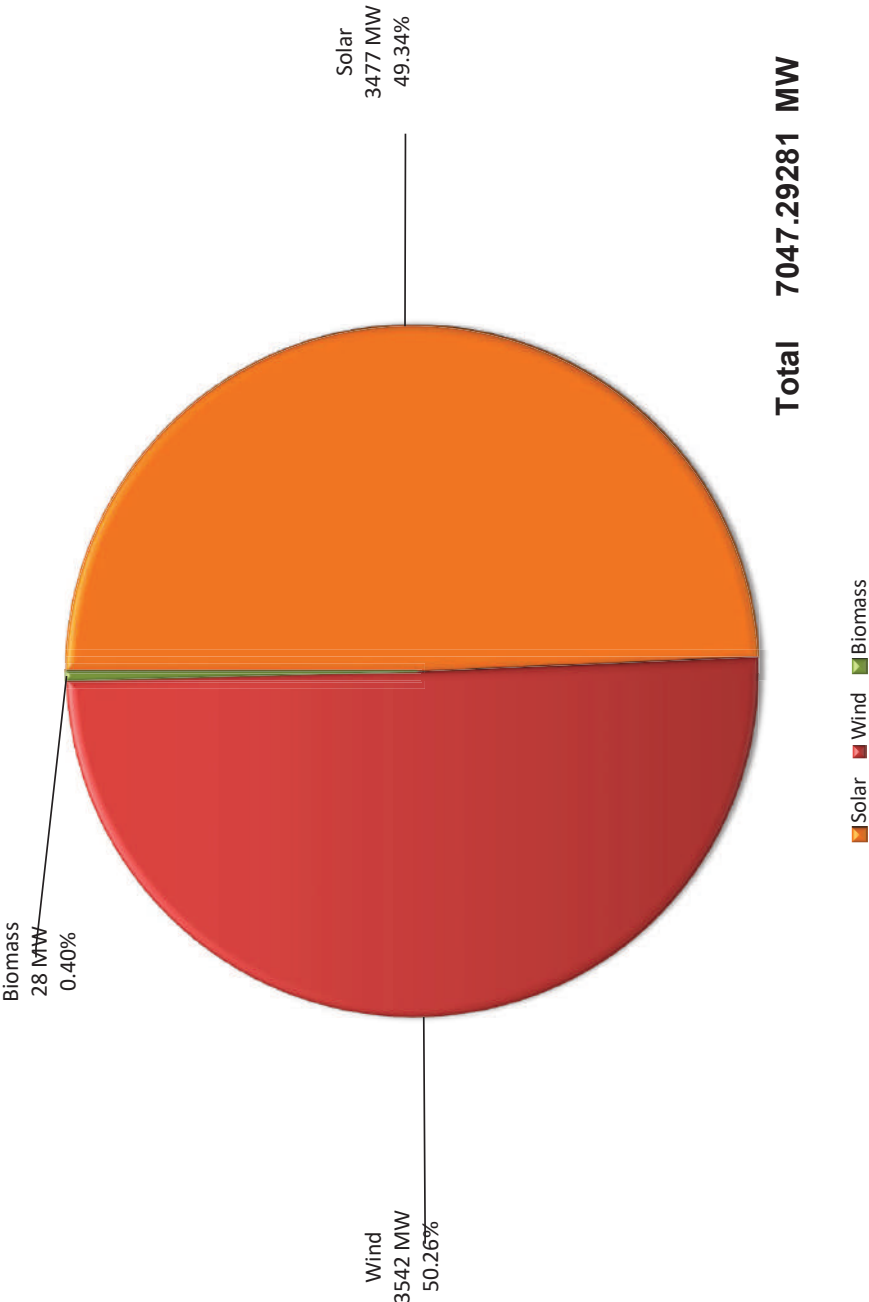




TABLE 5.5 (CONTD.)
INDUSTRY-WISE/ MODE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION BY
CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF
0.5 MW & ABOVE
2022-23

(GWh)

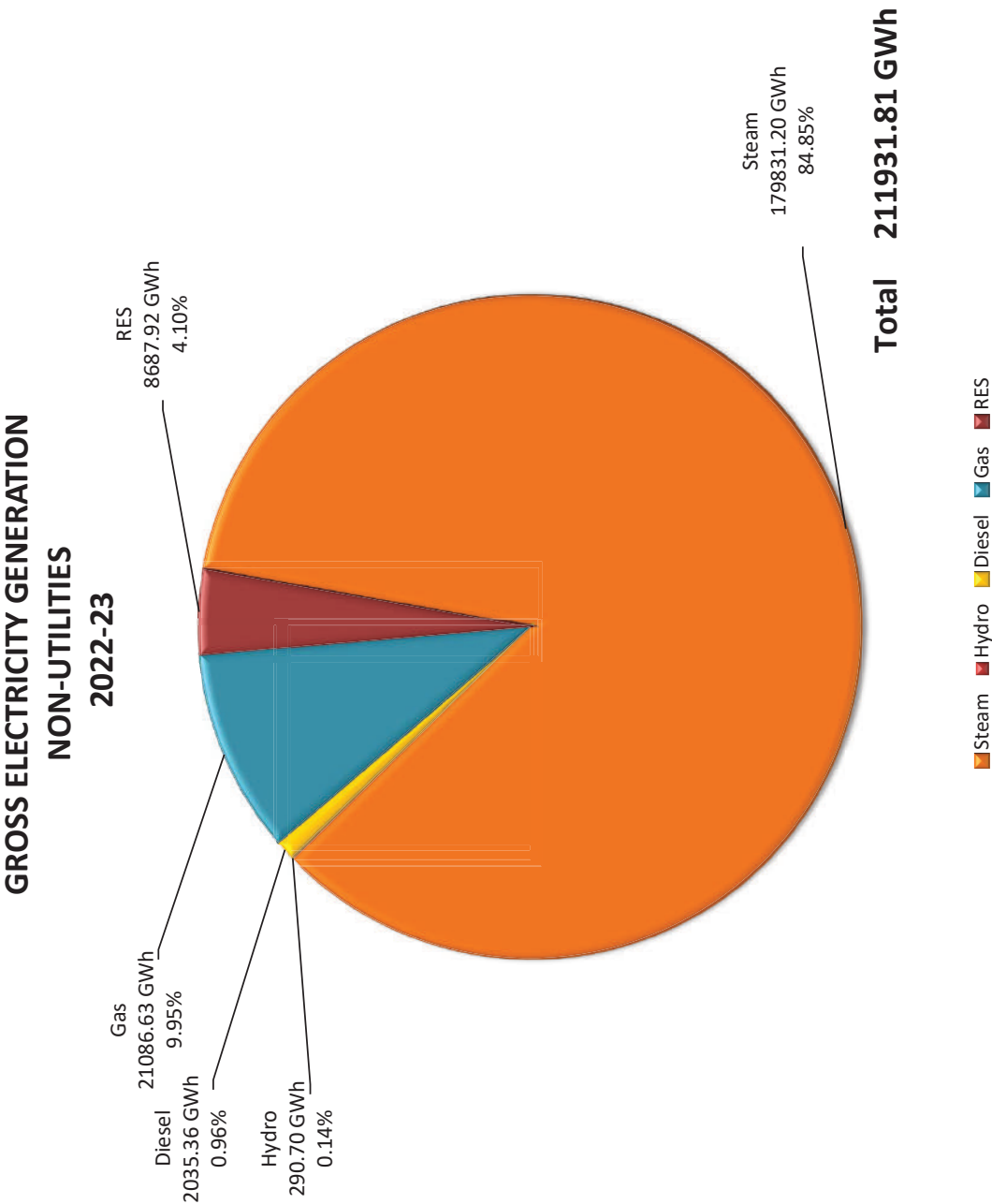
Name of Industry	Auxiliary Consumption	Net Generation (9-10)	Export to Utilities	Energy used in the industry out of self Generation (11-12)	Import from Utilities	Energy Consumed in the Industry (13+14)
	10	11	12	13	14	15
Aluminium	4406.05	43687.73	1182.61	42505.12	10462.08	52967.20
Automobile	48.69	1304.32	366.91	937.41	4900.09	5837.50
Cement	1294.86	16981.46	1133.98	15847.48	14256.02	30103.49
Chemical	816.44	8100.29	595.50	7504.79	10859.54	18364.33
Collieries	1.22	284.52	0.00	284.52	6750.88	7035.40
Electrical Engineering	165.56	2678.02	1156.96	1521.05	2341.90	3862.96
Fertiliser	152.60	4561.90	66.76	4495.14	1658.98	6154.12
Food Products	85.42	935.81	210.61	725.21	3098.29	3823.49
Heavy Engineering	46.79	617.86	107.07	510.79	1184.58	1695.37
Iron & Steel	6424.77	53445.49	3127.99	50317.50	27622.55	77940.05
Jute	2.19	31.31	0.00	31.31	154.32	185.63
Light Engineering	39.44	841.36	32.84	808.52	2869.54	3678.06
Mineral Oil & Petroleum	1518.34	23305.25	1068.39	22236.87	4984.59	27221.46
Mining & Quarrying	108.65	1343.11	339.79	1003.32	2460.38	3463.70
Miscellaneous	774.03	7421.23	1035.70	6385.53	13352.97	19738.50
Non Ferrous	301.90	3272.53	91.46	3181.07	2102.56	5283.63
Paper	572.24	6680.02	169.28	6510.74	1809.32	8320.06
Plastic	34.96	401.47	350.27	51.19	1148.25	1199.44
Rubber	18.14	303.78	8.79	294.99	1919.07	2214.06
Sugar	1333.97	12503.50	5549.98	6953.52	1463.07	8416.59
Textile	217.81	4141.81	521.93	3619.88	13060.82	16680.70
Non Industry	17.01	707.99	225.89	482.10	6447.12	6929.22
Total	18381.08	193550.74	17342.73	176208.01	134906.93	311114.94



TABLE 5.6
STATE-WISE/ MODE-WISE INSTALLED CAPACITY OF CAPTIVE POWER PLANTS
IN INDUSTRIES HAVING DEMAND OF
0.5 MW & ABOVE
31.03.2023

(kW)

State/UTs	No. of Industries Covered	Hydro	Steam	Diesel	Gas	Solar	Wind	Biomass	Total
1	2	3	4	5	6	7	8	9	10
Chandigarh	25	0	0	71	0	4	0	0	75
Delhi	117	0	0	322	2	10	0	0	334
Haryana	1470	0	464	4026	779	269	0	0	5539
Himachal Pradesh	177	4	29	399	0	4	0	0	435
UT of J&K and Ladakh	5	0	0	28	0	0	0	0	28
Punjab	545	13	920	1033	265	87	0	0	2319
Rajasthan	508	0	1900	774	141	518	108	0	3441
Uttar Pradesh	373	0	4269	912	301	207	0	0	5688
Uttarakhand	160	0	257	401	10	25	0	0	693
Sub-Total (NR)	3380	17	7839	7967	1498	1124	108	0	18552
Chhattisgarh	132	0	5469	196	80	105	0	0	5850
Gujarat	592	3	3468	1007	1883	173	503	0	7036
Madhya Pradesh	207	0	1382	522	193	160	9	0	2266
Maharashtra	430	25	3832	888	559	233	313	0	5850
DNH & DD	28	0	11	78	0	5	0	0	94
Goa	24	0	153	81	0	0	0	0	234
Sub-Total (WR)	1413	28	14314	2771	2715	676	825	0	21329
Andhra Pradesh	357	6	2270	694	246	143	162	0	3522
Telangana	361	0	1451	818	3	389	6	0	2666
Karnataka	666	27	3896	1895	163	236	282	0	6500
Kerala	80	54	72	180	202	43	0	0	551
Tamil Nadu	1478	0	2789	2782	442	584	2112	0	8709
Puducherry	62	0	25	102	36	3	0	0	166
Lakshadweep	0	0	0	0	0	0	0	0	0
Sub-Total (SR)	3004	88	10504	6470	1092	1398	2563	0	22114
Bihar	38	0	152	24	86	32	46	0	340
Jharkhand	63	0	1550	90	87	25	0	0	1752
Odisha	228	0	11655	352	399	84	0	28	12517
West Bengal	214	0	628	339	117	82	0	0	1166
Sikkim	12	0	0	19	0	1	0	0	20
Andaman & Nicobar Is.	0	0	0	0	0	0	0	0	0
Sub-Total (ER)	555	0	13984	823	689	224	46	28	15795
Arunachal Pradesh	0	0	0	0	0	0	0	0	0
Assam	48	0	103	31	365	42	0	0	541
Manipur	0	0	0	0	0	0	0	0	0
Meghalaya	8	0	38	16	0	14	0	0	68
Mizoram	0	0	0	0	0	0	0	0	0
Nagaland	0	0	0	0	0	0	0	0	0
Tripura	0	0	0	0	0	0	0	0	0
Sub-Total (NER)	56	0	141	47	365	55	0	0	609
Total (All India)	8408	132	46782	18078	6360	3477	3542	28	78400



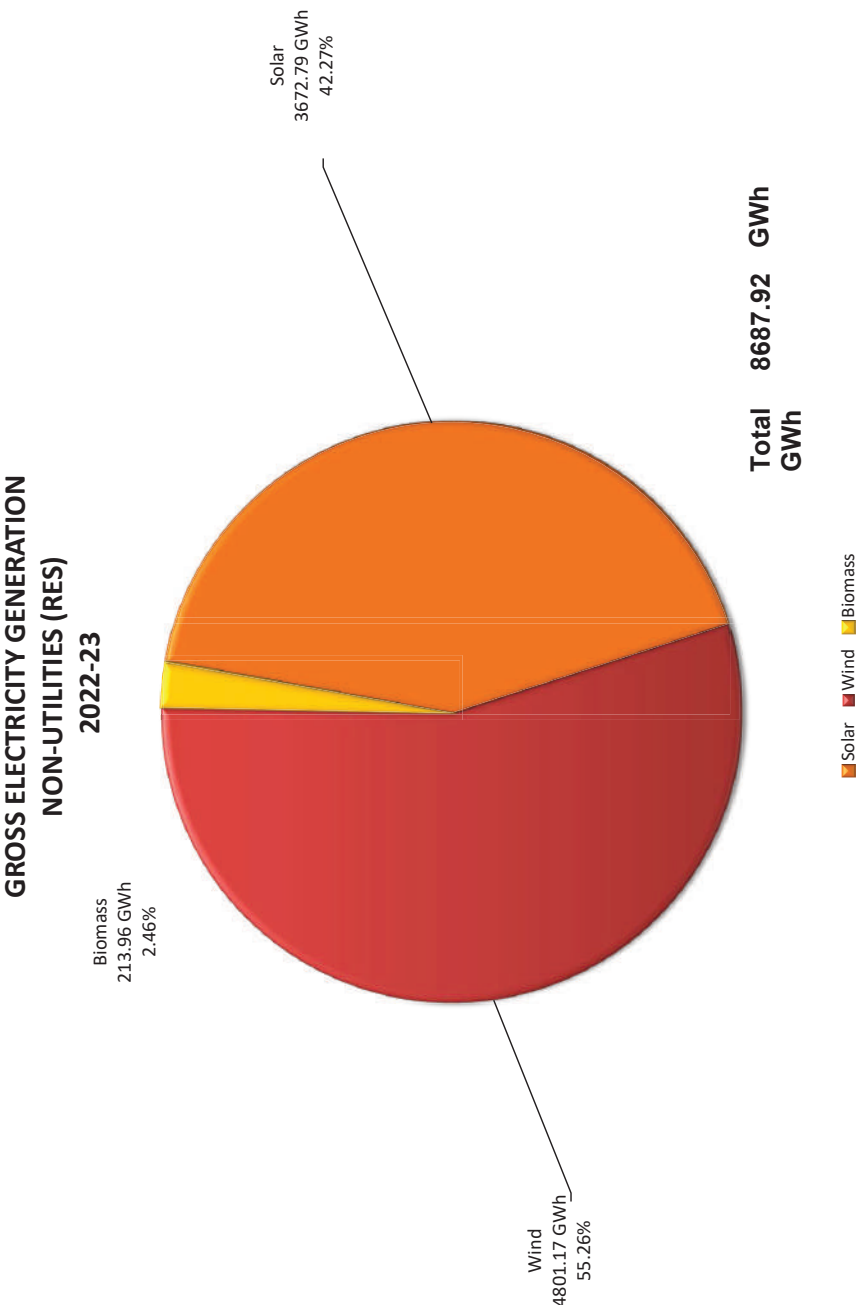




TABLE 5.7
STATE-WISE AND MODE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION BY CAPTIVE POWER
PLANTS IN INDUSTRIES HAVING DEMAND OF
0.5 MW & ABOVE
2022-23

(GWh)

State/UTs	ENERGY GENERATED							
	Hydro	Steam	Diesel	Gas	Solar	Wind	Biomass	Total
1	2	3	4	5	6	7	8	9
Chandigarh	0.00	0.00	0.42	0.00	5.31	0.00	0.00	5.73
Delhi	0.00	0.00	6.79	0.08	9.79	0.00	0.00	16.66
Haryana	0.00	1024.60	260.31	2292.38	294.11	0.00	0.00	3871.41
Himachal Pradesh	0.00	105.30	28.08	0.00	4.85	0.00	0.00	138.22
UT of J&K and Ladakh	0.00	0.00	3.07	0.00	0.00	0.00	0.00	3.07
Punjab	0.59	3304.22	134.51	789.65	90.00	0.00	0.00	4318.97
Rajasthan	0.00	7708.50	40.77	197.38	483.50	138.12	0.00	8568.28
Uttar Pradesh	0.00	13077.95	383.93	1303.40	251.23	0.00	0.00	15016.50
Uttarakhand	0.00	974.21	59.74	23.60	28.18	0.00	0.00	1085.73
Sub-Total(NR)	0.59	26194.77	917.63	4606.49	1166.97	138.12	0.00	33024.58
Chhattisgarh	0.00	17262.54	146.31	209.46	141.16	0.00	0.00	17759.46
Gujarat	3.50	14750.58	157.56	6770.48	127.28	865.22	0.00	22674.63
Madhya Pradesh	0.00	4265.82	34.04	714.67	125.02	7.45	0.00	5147.00
Maharashtra	62.10	11623.25	79.63	1599.71	291.05	428.64	0.00	14084.38
DNH & DD	0.00	19.00	4.33	0.00	2.83	0.00	0.00	26.16
Goa	0.00	770.92	9.36	0.00	0.00	0.00	0.00	780.28
Sub-Total(WR)	65.60	48692.12	431.23	9294.33	687.33	1301.31	0.00	60471.91
Andhra Pradesh	21.33	8712.01	85.67	941.21	177.94	179.21	0.00	10117.37
Telangana	0.00	4717.04	87.06	0.00	434.30	8.70	0.00	5247.09
Karnataka	84.94	13879.32	132.34	569.50	293.46	434.69	0.00	15394.25
Kerala	118.25	274.42	3.95	952.49	54.73	0.00	0.00	1403.84
Tamil Nadu	0.00	8946.32	298.62	600.94	613.14	2736.71	0.00	13195.74
Puducherry	0.00	0.55	5.14	76.85	3.29	0.00	0.00	85.84
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total(SR)	224.51	36529.66	612.79	3141.00	1576.86	3359.31	0.00	45444.12
Bihar	0.00	373.63	0.82	438.73	12.25	2.43	0.00	827.87
Jharkhand	0.00	8663.46	8.42	290.37	15.75	0.00	0.00	8977.99
Odisha	0.00	55733.78	8.42	1688.23	80.51	0.00	213.96	57724.90
West Bengal	0.00	3195.37	46.56	572.16	96.70	0.00	0.00	3910.79
Sikkim	0.00	0.00	4.69	0.00	0.54	0.00	0.00	5.23
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total(ER)	0.00	67966.24	68.91	2989.49	205.75	2.43	213.96	71446.78
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	310.01	2.91	1055.32	35.88	0.00	0.00	1404.12
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	138.40	1.91	0.00	0.00	0.00	0.00	140.31
Mizoram	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
Sub-Total(NER)	0.00	448.41	4.82	1055.32	35.88	0.00	0.00	1544.43
Total (All India)	290.70	179831.20	2035.36	21086.63	3672.79	4801.17	213.96	211931.81



TABLE 5.7 (CONTD.)
STATE-WISE AND MODE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION BY CAPTIVE POWER
PLANTS IN INDUSTRIES HAVING DEMAND OF
0.5 MW & ABOVE
2022-23

(GWh)

State/UTs	Auxiliary Consumption	Net Generation (9-10)	Export to Utilities	Energy used in the industry out of self Gen (11-12)	Import from Utilities	Energy consumed in the industry (13+14)
	10	11	12	13	14	15
Chandigarh	0.05	5.68	0.00	5.68	41.47	47.15
Delhi	0.57	16.09	1.50	14.59	347.27	361.86
Haryana	224.26	3647.15	241.63	3405.52	7123.22	10528.75
Himachal Pradesh	18.05	120.17	0.20	119.97	2490.90	2610.87
UT of J&K and Ladakh	0.06	3.01	0.00	3.01	256.68	259.69
Punjab	521.41	3797.56	339.61	3457.95	4772.85	8230.80
Rajasthan	643.88	7924.40	552.07	7372.32	8517.22	15889.55
Uttar Pradesh	1237.38	13779.12	2311.45	11467.67	2679.63	14147.30
Uttarakhand	104.65	981.08	52.10	928.98	2797.71	3726.69
Sub-Total(NR)	2750.31	30274.26	3498.56	26775.70	29026.95	55802.65
Chhattisgarh	1598.17	16161.29	335.75	15825.54	2406.74	18232.28
Gujarat	1712.11	20962.52	417.46	20545.06	10903.29	31448.36
Madhya Pradesh	151.62	4995.38	24.20	4971.18	5325.68	10296.86
Maharashtra	1025.54	13058.85	1107.35	11951.49	11503.11	23454.61
DNH & DD	1.14	25.02	0.00	25.02	1998.13	2023.15
Goa	41.00	739.27	140.21	599.06	221.84	820.89
Sub-Total(WR)	4529.58	55942.32	2024.98	53917.35	32358.79	86276.14
Andhra Pradesh	787.88	9329.49	612.06	8717.43	6677.58	15395.01
Telangana	407.64	4839.45	836.19	4003.26	5824.27	9827.53
Karnataka	1220.10	14174.15	2460.89	11713.26	12080.40	23793.66
Kerala	62.45	1341.39	202.79	1138.60	1151.07	2289.67
Tamil nadu	856.77	12338.97	4823.43	7515.53	13314.84	20830.37
Puducherry	3.34	82.49	7.91	74.58	413.66	488.25
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total(SR)	3338.18	42105.94	8943.28	33162.66	39461.82	72624.48
Bihar	54.59	773.28	86.33	686.94	138.56	825.51
Jharkhand	1014.61	7963.39	188.50	7774.89	9740.97	17515.86
Odisha	6131.66	51593.24	2373.82	49219.42	15602.30	64821.72
West Bengal	425.62	3485.17	214.09	3271.09	5933.03	9204.12
Sikkim	0.00	5.23	0.00	5.23	60.09	65.32
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total(ER)	7626.47	63820.31	2862.75	60957.56	31474.96	92432.52
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00
Assam	121.48	1282.64	7.76	1274.88	2327.66	3602.54
Manipur	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	15.05	125.26	5.40	119.86	256.75	376.61
Mizoram	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
Sub-Total(NER)	136.53	1407.90	13.16	1394.74	2584.41	3979.16
Total (All India)	18381.08	193550.74	17342.73	176208.01	134906.93	311114.94



TABLE 5.8
ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/ INDUSTRY-WISE
2022-23

(GWh)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Collieries	Electrical Engineering	Fertiliser	Food Products
1	2	3	4	5	6	7	8	
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	16.84	0.00	0.00	0.00	0.05	0.00	30.55
Haryana	19.65	2050.13	262.05	271.83	0.00	85.26	4.84	301.89
Himachal Pradesh	0.00	28.86	726.39	133.81	0.00	62.32	0.00	114.19
UT of J&K and Ladakh	0.00	0.00	0.00	7.98	0.00	0.00	0.00	16.80
Punjab	11.36	351.84	161.43	329.89	0.00	13.04	301.68	538.78
Rajasthan	8.73	345.66	5126.04	347.08	0.00	167.41	0.00	215.34
Uttar Pradesh	6422.39	114.36	645.88	186.71	0.00	7.96	1059.39	146.10
Uttarakhand	3.75	140.68	94.25	292.61	0.00	0.00	0.00	143.72
Sub-Total (N R)	6465.88	3048.36	7016.04	1569.91	0.00	336.04	1365.91	1507.36
Chhattisgarh	5331.75	0.00	2173.47	95.14	0.00	204.60	0.00	11.97
Gujarat	0.00	73.03	1311.51	6974.54	49.83	115.72	2086.11	436.77
Madhya Pradesh	0.00	12.33	4212.30	1751.16	0.00	242.97	514.00	621.01
Maharashtra	205.28	766.38	761.51	2025.96	0.00	509.67	727.59	32.37
DNH & DD	13.59	0.00	0.00	39.59	0.00	90.59	0.00	0.00
Goa	0.00	0.00	0.00	15.28	0.00	0.00	79.16	51.87
Sub-Total (W R)	5550.62	851.74	8458.80	10901.66	49.83	1163.56	3406.86	1153.98
Andhra Pradesh	202.77	5.31	3769.28	1248.56	0.00	6.44	183.98	252.23
Telangana	42.61	61.93	2464.43	1138.05	871.55	1788.19	0.00	75.09
Karnataka	63.78	223.22	2369.32	745.83	0.00	140.23	0.00	157.65
Kerala	0.00	0.00	0.96	493.31	16.43	0.05	29.27	13.07
Tamil Nadu	39.03	1371.54	1539.32	719.96	0.00	422.91	206.29	482.89
Puducherry	0.00	13.35	0.00	280.25	0.00	0.00	0.00	2.59
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	348.19	1675.35	10143.31	4625.97	887.99	2357.82	419.55	983.52
Bihar	0.00	0.00	105.18	3.62	0.00	0.00	119.94	4.05
Jharkhand	100.36	202.83	333.93	485.92	5746.12	0.00	0.00	0.00
Odisha	40502.15	22.24	625.33	145.00	351.46	0.00	601.40	0.00
West Bengal	0.00	36.99	1026.64	575.59	0.00	5.54	136.91	161.45
Sikkim	0.00	0.00	0.00	54.06	0.00	0.00	0.00	4.39
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (E R)	40602.51	262.05	2091.08	1264.18	6097.58	5.54	858.25	169.88
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	2189.12	2.60	0.00	0.00	103.55	8.75
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	205.15	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
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
Sub-Total (N E R)	0.00	0.00	2394.27	2.60	0.00	0.00	103.55	8.75
Total (All India)	52967.20	5837.50	30103.49	18364.33	7035.40	3862.96	6154.12	3823.49



TABLE 5.8 (CONTD.)
ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/ INDUSTRY-WISE
2022-23

(GWh)

State/UTs	Heavy Engineering	Iron & Steel	Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous
	9	10	11	12	13	14	15
Chandigarh	0.00	4.75	0.00	15.17	0.00	0.00	13.88
Delhi	0.00	0.00	0.00	2.20	0.00	0.00	10.40
Haryana	67.04	1895.17	0.00	23.42	2236.34	0.00	891.66
Himachal Pradesh	0.00	4.16	0.00	4.26	0.86	0.00	661.95
UT of J&K and Ladakh	0.00	5.02	0.00	0.00	0.00	0.00	0.00
Punjab	5.28	570.32	0.00	78.20	1357.35	0.00	788.26
Rajasthan	33.61	240.21	0.00	17.42	203.69	1196.18	1742.91
Uttar Pradesh	50.38	534.71	2.33	138.16	1048.23	0.00	534.82
Uttarakhand	36.63	414.67	0.00	10.57	9.79	0.00	1265.98
Sub-Total (N R)	192.93	3669.01	2.33	289.40	4856.26	1196.18	5909.86
Chhattisgarh	0.00	10186.72	0.00	0.00	35.94	41.40	23.93
Gujarat	168.47	3793.98	0.00	342.88	11255.28	1.98	1526.18
Madhya Pradesh	123.21	161.04	0.00	0.00	93.02	11.09	382.39
Maharashtra	103.42	6964.63	0.00	428.74	1959.44	0.00	5003.45
DNH & DD	0.00	0.00	0.00	0.00	785.96	0.00	96.09
Goa	9.50	208.15	0.00	15.21	0.00	346.30	18.43
Sub-Total (W R)	404.60	21314.51	0.00	786.84	14129.63	400.77	7050.47
Andhra Pradesh	252.53	5192.27	16.83	488.51	1366.30	335.53	711.91
Telangana	52.64	144.66	0.00	198.74	0.00	96.54	718.60
Karnataka	221.10	12741.15	34.81	612.33	699.07	277.69	894.61
Kerala	29.16	5.11	0.00	65.20	1022.85	83.23	47.18
Tamil Nadu	121.06	1951.63	0.00	1230.96	1150.83	0.00	1720.34
Puducherry	0.00	0.00	0.00	6.05	0.00	0.00	32.28
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	676.49	20034.82	51.65	2601.80	4239.06	792.99	4124.92
Bihar	0.00	0.00	0.00	0.00	469.97	0.00	8.36
Jharkhand	10.44	9383.92	0.00	0.00	33.75	1056.90	161.68
Odisha	9.21	18141.54	0.00	0.00	1538.08	11.17	2312.32
West Bengal	401.70	5235.77	131.65	0.02	724.02	5.69	144.62
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (E R)	421.35	32761.24	131.65	0.02	2765.83	1073.76	2626.98
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00	1230.69	0.00	26.26
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	160.47	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
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
Sub-Total (N E R)	0.00	160.47	0.00	0.00	1230.69	0.00	26.26
Total (All India)	1695.37	77940.05	185.63	3678.06	27221.46	3463.70	19738.50



TABLE 5.8 (CONTD.)
ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/ INDUSTRY-WISE
2022-23

(GWh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Non Industry	Total
	16	17	18	19	20	21	22	23
Chandigarh	0.04	0.00	0.00	0.00	0.00	0.00	13.31	47.15
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	301.81	361.86
Haryana	76.42	85.55	36.57	82.54	99.71	382.13	1656.54	10528.75
Himachal Pradesh	11.70	70.75	40.99	8.24	0.00	650.45	91.95	2610.87
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	229.89	0.00	259.69
Punjab	3.94	1245.01	100.66	62.85	163.30	1634.99	512.63	8230.80
Rajasthan	4025.37	2.35	224.12	111.73	3.61	1709.39	168.71	15889.55
Uttar Pradesh	0.00	215.18	49.82	32.92	2448.88	369.80	139.30	14147.30
Uttarakhand	20.47	637.66	178.74	337.71	30.42	87.34	21.69	3726.69
Sub-Total (N R)	4137.93	2256.50	630.89	635.99	2745.93	5063.99	2905.93	55802.65
Chhattisgarh	0.00	11.56	14.09	0.00	33.59	68.12	0.00	18232.28
Gujarat	714.20	708.14	87.03	148.71	68.62	1585.39	0.00	31448.36
Madhya Pradesh	1.44	356.01	71.59	46.64	441.20	1255.45	0.00	10296.86
Maharashtra	0.00	1049.46	137.45	96.88	1969.04	713.32	0.00	23454.61
DNH & DD	86.27	0.00	0.81	0.00	0.00	910.26	0.00	2023.15
Goa	0.00	0.00	0.00	77.01	0.00	0.00	0.00	820.89
Sub-Total (W R)	801.91	2125.17	310.96	369.24	2512.45	4532.54	0.00	86276.14
Andhra Pradesh	0.00	351.28	0.00	0.00	431.92	392.29	187.06	15395.01
Telangana	64.31	925.53	13.04	232.54	125.01	367.69	446.36	9827.53
Karnataka	219.23	428.06	0.00	88.18	1647.29	355.11	1874.99	23793.66
Kerala	28.45	138.61	0.00	80.58	0.00	50.30	185.91	2289.67
Tamil Nadu	31.80	1483.78	67.02	677.34	836.25	5763.41	1014.02	20830.37
Puducherry	0.00	0.00	4.71	110.02	3.37	2.78	32.83	488.25
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	343.78	3327.26	84.77	1188.66	3043.83	6931.57	3741.18	72624.48
Bihar	0.00	0.00	0.00	0.00	114.37	0.00	0.02	825.51
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17515.86
Odisha	0.00	530.27	10.91	0.00	0.00	0.00	20.63	64821.72
West Bengal	0.00	80.85	155.97	20.17	0.00	152.59	207.96	9204.12
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	6.87	65.32
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (E R)	0.00	611.12	166.88	20.17	114.37	152.59	235.48	92432.52
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	5.94	0.00	0.00	0.00	35.64	3602.54
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	11.00	376.61
Mizoram	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
Sub-Total (N E R)	0.00	0.00	5.94	0.00	0.00	0.00	46.64	3979.16
Total (All India)	5283.63	8320.06	1199.44	2214.06	8416.59	16680.70	6929.22	311114.94



TABLE 5.9
INSTALLED CAPACITY-WISE CLASSIFICATION OF ELECTRICITY GENERATED
BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF
0.5 MW & ABOVE
2022-23

Range of Installed Capacity (MW)	No. of Generating Industries	Installed Capacity of the Group		Gross Energy Generation of the Group	
		Aggregate (MW)	%age of Total Capacity	Aggregate (GWh)	%age of Total Generation
1.00MW & Upto 10.00 MW	7056	17993	22.95	11637.59	5.49
10.00MW & Upto 20.00 MW	605	8272	10.55	15026.31	7.09
20.00MW & Upto 30.00 MW	259	6111	7.79	14428.03	6.81
30.00MW & Upto 40.00 MW	172	5743	7.32	13635.84	6.43
40.00MW & Upto 50.00 MW	72	3202	4.08	9898.99	4.67
50.00MW & Upto 100.00 MW	151	10255	13.08	33543.36	15.83
Over 100.00MW	93	26824	34.21	113762	53.68
Total	8408	78400	100.00	211931.81	100.00



Growth of Installed Capacity of Captive Power Plants in Industries having Demand of 0.5 MW & Above - Mode wise

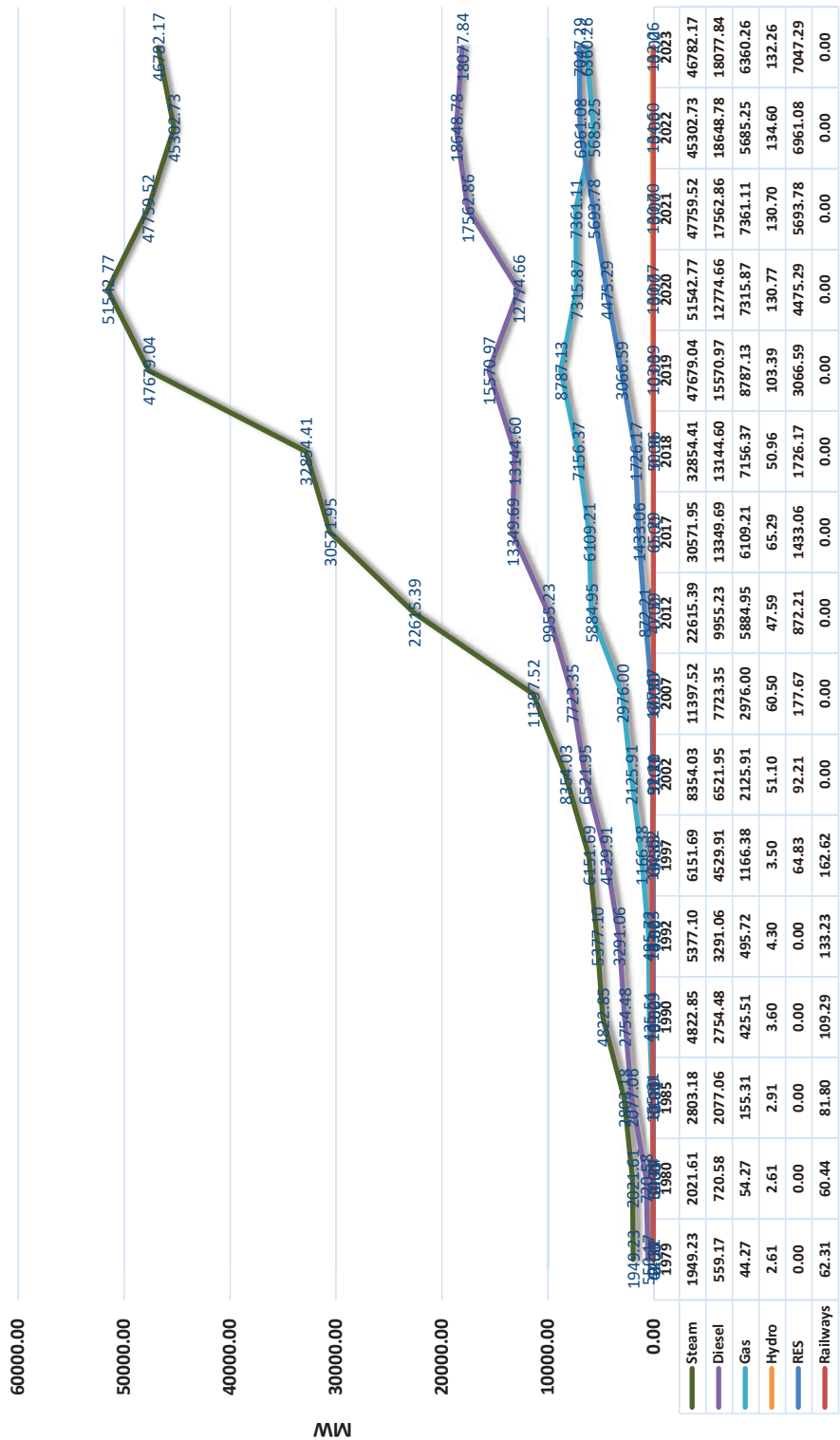




TABLE 5.10
GROWTH OF INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5MW & ABOVE

(MW)

As on	Hydro	Steam	Diesel @	Gas	Railways	Total
31.12.1948	*	*	*	*	0	409.52
31.12.1949	*	*	*	*	0	544.40
31.12.1950	*	*	*	*	0	587.85
31.12.1951	*	*	*	*	0	627.98
31.12.1952	*	*	*	*	0	670.16
31.12.1953	*	*	*	*	0	663.53
31.12.1954	*	*	*	*	0	685.31
31.12.1955	*	*	*	*	0	723.51
31.12.1956	*	*	*	*	0	759.65
31.03.1958	*	*	*	*	0	769.44
31.03.1959	*	*	*	*	0	812.42
31.03.1960	*	*	*	*	0	935.37
31.03.1961	*	*	*	*	0	1001.37
31.03.1962	*	*	*	*	0	1011.79
31.03.1963	*	*	*	*	0	1124.10
31.03.1964	*	*	*	*	0	986.96
31.03.1965	*	*	*	*	65.13	1061.39
31.03.1966	*	*	*	*	63.64	1146.00
31.03.1967	*	*	*	*	64.03	1283.92
31.03.1968	*	*	*	*	62.05	1269.69
31.03.1969	*	*	*	*	61.93	1339.40
31.03.1970	*	*	*	*	45.14	1417.43
31.03.1971	*	*	*	*	45.14	1562.01
31.03.1972	*	*	*	*	58.53	1635.32
31.03.1973	*	*	*	*	55.56	1708.33
31.03.1974	*	*	*	*	59.81	1792.51
31.03.1975	*	*	*	*	64.27	2028.57
31.03.1976	*	*	*	*	60.63	2131.52
31.03.1977	2.56	1783.66	423.47	15.37	61.84	2286.90
31.03.1978	2.56	1879.12	517.84	44.27	62.37	2506.16
31.03.1979	2.61	1949.23	559.17	44.27	62.31	2617.59
31.03.1980	2.61	2021.61	720.58	54.27	60.44	2859.51
31.03.1981	2.61	2116.55	867.70	54.27	61.24	3102.37
31.03.1982	2.60	2263.67	1060.43	48.90	60.51	3436.11
31.03.1983	2.60	2442.38	1306.84	54.27	65.57	3871.66
31.03.1984	2.61	2633.02	1602.49	60.05	68.53	4366.70



**TABLE 5.10 (CONTD.)
GROWTH OF INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 0.5MW & ABOVE**

(MW)

As on	Hydro	Steam	Diesel @	Gas	Railways	Total
31.03.1985	2.91	2803.18	2077.06	155.31	81.80	5120.26
31.03.1986	2.66	2881.62	2378.39	156.46	84.97	5504.10
31.03.1987	3.60	3328.69	2090.39	205.86	86.00	5714.54
31.03.1988	3.60	3732.23	2277.77	242.51	88.53	6344.64
31.03.1989	3.60	4515.85	2581.33	319.11	103.60	7523.49
31.03.1990	3.60	4822.85	2754.48	425.51	109.29	8115.73
31.03.1991	3.60	4991.07	3031.67	475.25	110.76	8612.35
31.03.1992	4.30	5377.10	3291.06	495.72	133.23	9301.41
31.03.1993	4.30	5540.74	3728.66	630.81	140.03	10044.54
31.03.1994	4.30	5792.99	4003.51	773.89	147.44	10722.13
31.03.1995	4.30	6010.47	4193.53	807.74	148.01	11164.05
31.03.1996	3.50	6305.30	4364.77	955.41	158.17	11787.15
31.03.1997	3.50	6151.69	4594.74	1166.38	162.62	12078.93
31.03.1998	20.75	6628.87	5023.87	1330.44	162.35	13166.28
31.03.1999	23.69	6799.08	5432.94	1676.06	159.42	14091.19
31.03.2000	46.80	7675.66	5796.85	1816.89	0.00	15336.20
31.03.2001	46.72	7996.79	6289.54	1823.31	0.00	16156.36
31.03.2002	51.10	8354.03	6614.16	2125.91	0.00	17145.20
31.03.2003	51.10	9094.16	6831.21	2385.15	0.00	18361.62
31.03.2004	61.97	8585.28	7347.32	2745.74	0.00	18740.31
31.03.2005	58.93	8903.16	7274.08	2866.40	0.00	19102.57
31.03.2006	59.97	10816.28	7566.81	3025.15	0.00	21468.21
31.03.2007	60.50	11397.52	7901.02	2976.00	0.00	22335.04
31.03.2008	60.50	11763.99	8952.67	4209.23	0.00	24986.39
31.03.2009	110.79	13817.53	9124.31	3621.05	0.00	26673.68
31.03.2010	55.01	17183.34	9910.50	4368.02	0.00	31516.87
31.03.2011	56.88	19111.54	10221.94	5053.76	0.00	34444.12
31.03.2012	47.59	22615.39	10827.43	5884.95	0.00	39375.36
31.03.2013	66.90	23889.61	12272.19	4497.69	0.00	40726.39
31.03.2014	63.59	24751.58	12691.35	4751.36	0.00	42257.87
31.03.2015	65.09	26088.59	13309.73	5193.44	0.00	44656.85
31.03.2016	59.09	28687.59	13714.19	5818.62	0.00	48279.48
31.03.2017	65.29	30571.95	14782.75	6109.21	0.00	51529.19
31.03.2018	50.96	32854.41	14870.77	7156.37	0.00	54932.51
31.03.2019	103.39	47679.04	18637.56	8787.13	0.00	75207.13
31.03.2020	130.77	51542.77	17249.95	7315.87	0.00	76239.36
31.03.2021	130.70	47759.52	23256.64	7361.11	0.00	78507.97
31.03.2022	134.60	45302.73	25609.86	5685.25	0.00	76732.43
31.03.2023	132.26	46782.17	25125.13	6360.26	0.00	78399.82

@ Includes RES

*Breakup not available



Growth of Energy Generated by Captive Power Plants in Industries having Demand of 0.5 MW & Above - Mode wise

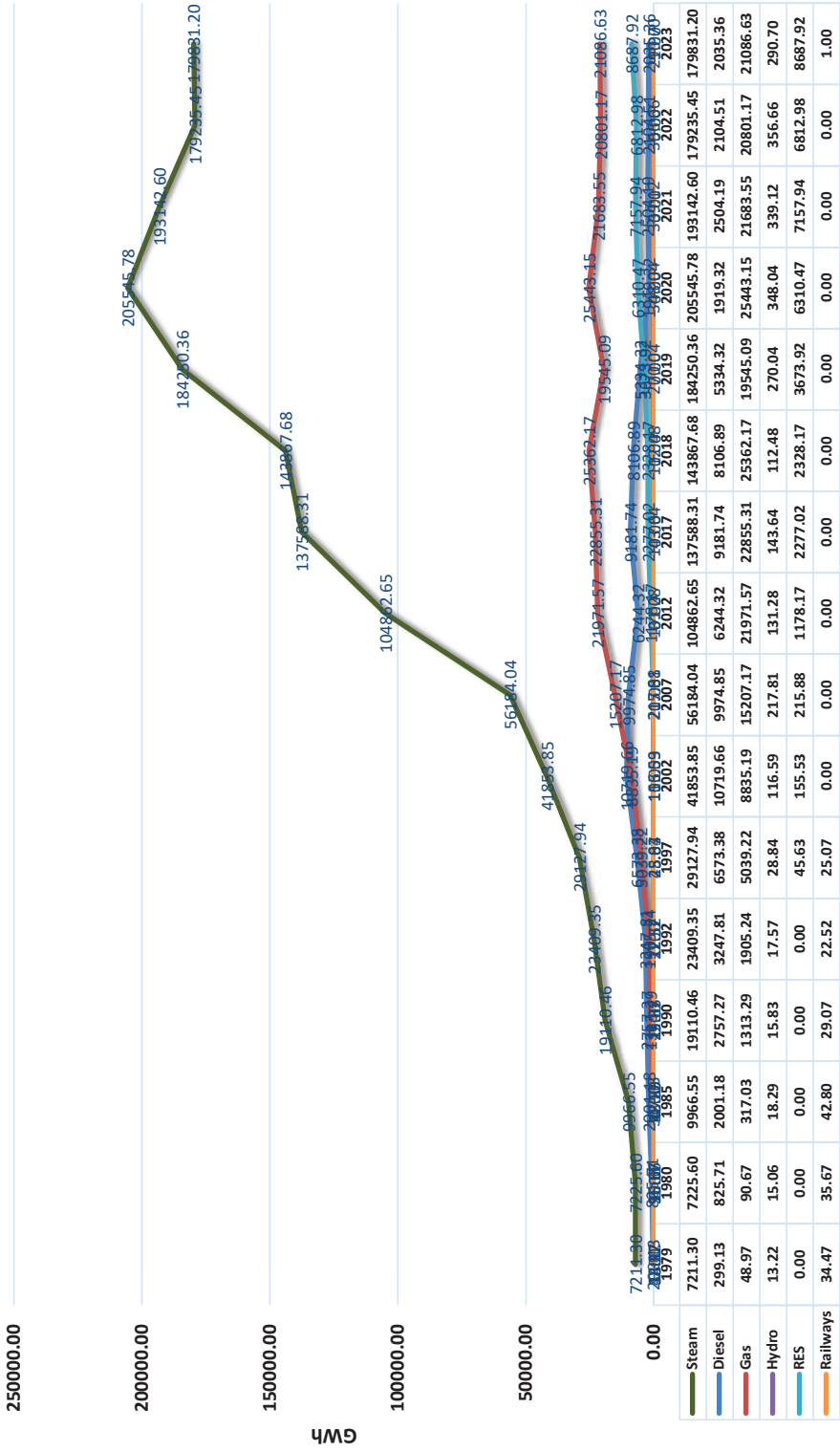




TABLE 5.11
GROWTH OF ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF 0.5MW & ABOVE

(GWh)

Year Ending	Hydro	Steam	Diesel @	Gas	Railways	Total
Year Ending	Hydro	Steam	Diesel @	Gas	Railways	Total
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	825.70	90.67	35.67	8192.70
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
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



TABLE 5.11 (CONTD.)
GROWTH OF ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF 0.5MW & ABOVE

(GWh)

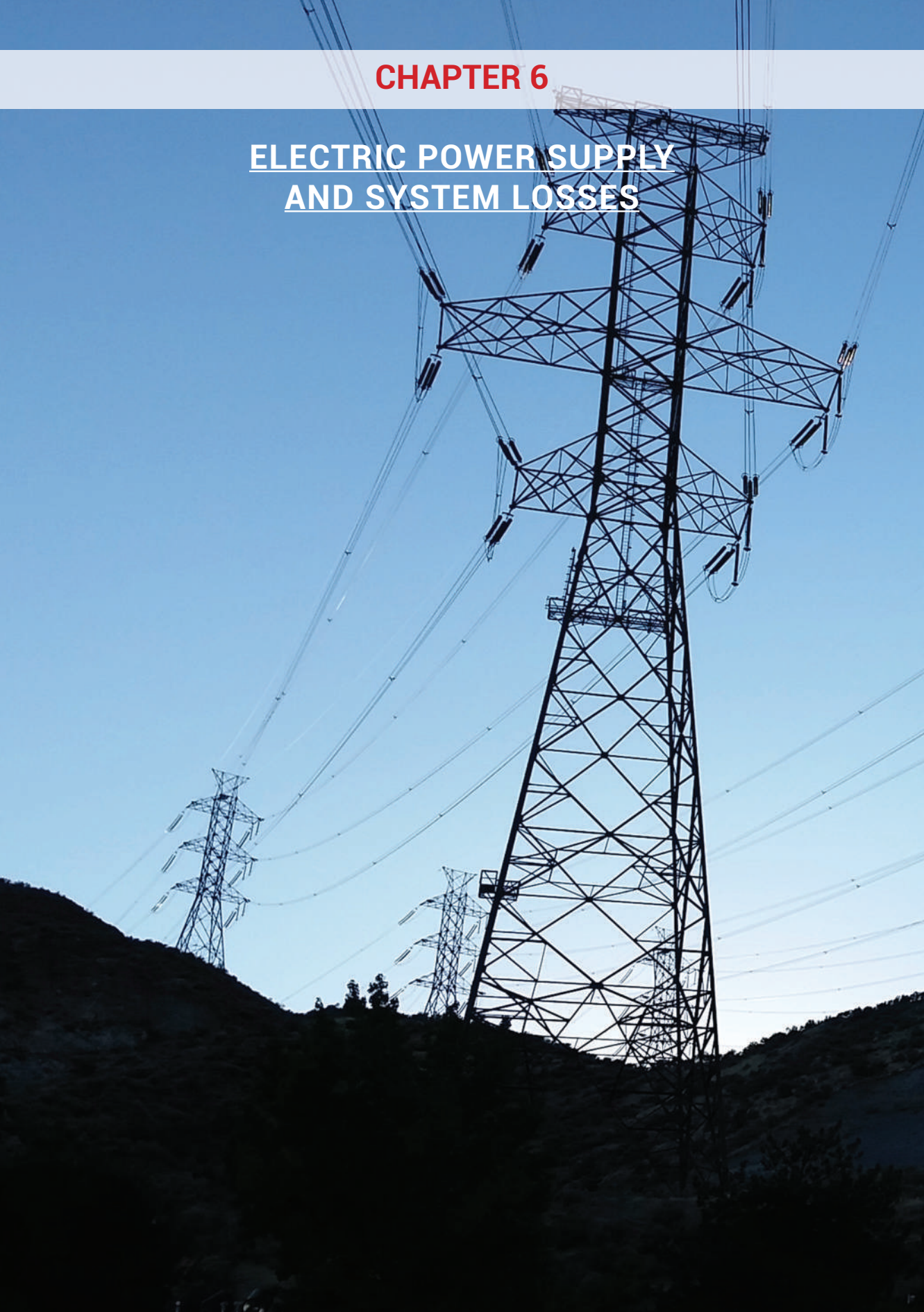
Year Ending	Hydro	Steam	Diesel @	Gas	Railways	Total
1986-87	18.09	10910.02	2258.28	341.79	36.60	13564.78
1987-88	18.09	13737.16	2595.97	504.22	35.10	16890.54
1988-89	16.45	16314.23	2686.13	864.13	30.51	19911.45
1989-90	15.83	19110.46	2757.27	1313.29	29.07	23225.92
1990-91	14.89	20005.67	3216.27	1844.98	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
1999-00	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
2003-04	97.49	39610.29	13590.96	14874.38	0.00	68173.12
2004-05	112.77	44016.99	12234.81	15052.05	0.00	71416.62
2005-06	236.47	46264.87	12473.64	14664.72	0.00	73639.70
2006-07	217.81	56184.03	10190.73	15207.18	0.00	81799.75
2007-08	202.21	53568.52	11121.38	25584.58	0.00	90476.69
2008-09	146.01	73626.49	10642.57	15306.09	0.00	99721.16
2009-10	151.78	77416.34	8826.27	19738.71	0.00	106133.10
2010-11	148.79	96657.13	8675.82	15435.17	0.00	120916.91
2011-12	131.28	104862.65	7422.48	21971.57	0.00	134387.98
2012-13	118.18	113166.95	9955.64	20768.88	0.00	144009.65
2013-14	129.06	118178.44	10769.08	19911.64	0.00	148988.23
2014-15	144.69	128401.06	12376.00	21135.25	0.00	162057.00
2015-16	110.09	136720.54	10458.24	21083.29	0.00	168372.16
2016-17	143.64	137588.31	11458.76	22855.31	0.00	172046.03
2017-18	112.48	143867.68	10435.06	25362.17	0.00	179777.39
2018-19	270.04	184250.36	9008.25	19545.09	0.00	213073.73
2019-20	348.04	205545.78	8229.79	25443.15	0.00	239566.75
2020-21	339.12	193142.60	9662.13	21683.55	0.00	224827.40
2021-22	356.66	179235.45	8917.49	20801.17	0.00	209310.77
2022-23	290.70	179831.20	10723.28	21086.63	0.00	211931.81

@ Includes RES

*Breakup not available

CHAPTER 6

ELECTRIC POWER SUPPLY AND SYSTEM LOSSES





**CHAPTER 6****ELECTRIC POWER SUPPLY
AND SYSTEM LOSSES**

- During the year 2022-23 gross electricity generation (utilities) was 1617902.96 GWh, out of which 93429.37 GWh representing 5.77% of gross generation was consumed in power station auxiliaries. Thus net generation available at the bus-bar was 1524473.59 GWh.
- Electricity purchased by public utilities from captive power plants was 17342.73 GWh and electricity imported from Nepal & Bhutan was 7639.76 GWh. Thus the total electricity available for supply during the year was 1549456.08 GWh as compared to 1423152.93 GWh during the year 2021-22
- Electricity sold to various classes of consumers during the year 2022-23 was 1264102.81 GWh and electricity exported outside the country i.e. to Nepal, Bhutan, Bangladesh and Myanmar was 13791.92 GWh.
- The electricity lost in transformation, transmission and distribution system and electricity unaccounted worked out to 271561.34 GWh representing 17.68 % of the total available electricity.
- The T&D Loss in country has decreased by 1.59% from 19.27% in FY 2021-22 to 17.68 % in FY 2022-23.
- Amongst all the regions percentage system losses were maximum in Eastern Region i.e. 21.45%. This was followed by North-Eastern Region 20.75%, Northern Region with 19.72%, Western Region with 16.61% and Southern Region with 14.52% losses.

The percentage losses in transmission & distribution network correspond to ultimate consumption within various States/Union Territories. The tables 6.1 to 6.5.6 represent the Region-wise and State-wise Transmission & Distribution losses, transfer of electrical energy among regions and electricity consumed in power auxiliaries.

TABLE 6.1
ALL INDIA ELECTRICAL ENERGY GENERATED, PURCHASED, SOLD AND LOSSES
UTILITIES
2022-23

Sl. No.	Item	Energy (GWh)	Percentage (%) of Sl. 1
1	Gross Energy Generated (Utilities)	1617902.96	100.00
2	Energy Used in Power Station Auxiliaries	93429.37	5.77
3	Net Energy at bus bars (1-2)	1524473.59	94.23
			Percentage (%) of sl. 4
4	Energy at bus bars (same as 3)	1524473.59	100.00
5	Energy purchased from Non-Utilities	17342.73	1.14
6	Energy Imported from other country	7639.76	0.50
7	Total Energy Available (4+5+6)	1549456.08	101.64
8	Energy sold to other countries	13791.92	0.90
9	Net Energy Available for Supply (7-8)	1535664.15	100.73
			Percentage (%) of sl. 10
10	"Net Energy available for supply (same as 9)"	1535664.15	100.00
11	*Energy sold to ultimate consumers	1264102.81	82.32
12	"Energy loss in transformation, transmission and distribution and unaccounted for (10-11)"	271561.34	17.68

Note: * Includes metered and assessed supply to agricultural consumers.



TABLE 6.2
REGIONAL TRANSMISSION LOSSES
UTILITIES
2022-23

Region	Energy Available in the Region (GWh)	Export to other Region (GWh)	Export to Nepal (GWh)	Export to Bangladesh (GWh)	Export to Bhutan (GWh)	Export to Myanmar (GWh)	Total Energy drawal by States/ Utilities (GWh)	Transmission Losses (GWh)	Transmission Losses (%)
1	2	3	4	5	6	7	8	9 (2-3-4-5-6-7)	10((8/2)x100)
Northern Region	235784.74	3399.70	343.64	0.00	0.00	0.00	224171.69	7869.71	3.34
Western Region	282367.53	57344.05	0.00	741.34	0.00	0.00	215219.30	9062.84	3.21
Southern Region	173393.55	7625.46	0.00	3491.13	0.00	0.00	156314.82	5962.13	3.44
Eastern Region	134352.68	57191.16	314.03	7547.70	266.30	0.00	64506.41	4527.08	3.37
North Eastern Region	21117.54	4662.00	0.00	1039.50	38.47	9.81	14499.49	868.27	4.11

TABLE 6.3
REGIONWISE ENERGY GENERATED, PURCHASED, SOLD AND LOSSES
UTILITIES
2022-23

Sl. No.	Item	Northern	Western	Southern	Eastern	North-East	All India
1	Own Including IPP & others Ex-bus Generation (GWh)	236632.04	246608.04	213258.00	114662.13	4159.47	815319.67
2	Ex-bus import from cpp (GWh)	3498.56	2024.98	8943.28	2862.75	13.16	17342.73
3	Energy available for drawal from grid including Import from other country (GWh)	232385.04	225023.48	165768.08	77161.52	16455.54	716793.67
4	Total Energy Available (GWh) (1+2+3)	472515.64	473656.50	387969.37	194686.40	20628.17	1549456.07
5	Energy Sold/Export to other countries (GWh)	343.64	741.34	3491.13	8128.03	1087.78	13791.92
6	*Net Energy available for supply/Availability Ex-bus (GWh) (4-5)*	472171.99	472915.15	384478.24	186558.37	19540.39	1535664.14
7	Energy sold to ultimate consumers (GWh)	379070.83	394360.69	328642.17	146543.75	15485.37	1264102.81
8	Energy loss in transformation, transmission and distribution and unaccounted for (GWh) (6-7)	93101.17	78554.46	55836.07	40014.61	4055.02	271561.33
9	Percentage loss (%) $(= (8/6) \times 100)$	19.72	16.61	14.52	21.45	20.75	17.68



TABLE 6.4
STATE-WISE SYSTEM LOSSES IN THE YEAR
2022-23

States/UTs	Own Incl. IPP & others Ex-bus Gen.	Ex-bus import from grid (*)	Ex-bus import from cpp	Availability Ex-bus (2+3+4)	Total consumptions	T & D Losses (5-6)	T&D Losses	
							2022-23 (7*100/5)	2021- 22
	GWh	GWh	GWh	GWh	GWh	GWh	%	%
1	2	3	4	5	6	7	8	9
Chandigarh	12.61	1946.56	0.00	1959.17	1645.90	313.27	15.99	14.14
Delhi	5578.65	33011.12	1.50	38591.27	34106.76	4484.51	11.62	12.60
Haryana	26679.08	41107.21	241.63	68027.91	55241.24	12786.67	18.80	19.51
Himachal	8438.23	4356.10	0.20	12794.52	10976.42	1818.10	14.21	13.69
UT of J&K and Ladakh	5796.94	14110.17	0.00	19907.11	9769.16	10137.95	50.93	44.24
Punjab	30914.92	37000.29	339.61	68254.83	58532.41	9722.42	14.24	14.53
Rajasthan	67209.29	32117.62	552.07	99878.99	79614.89	20264.10	20.29	28.24
Uttar Pradesh	84963.01	58924.10	2311.45	146198.57	115675.05	30523.52	20.88	21.84
Uttarakhand	7039.31	9468.22	52.10	16559.63	13509.00	3050.63	18.42	21.31
NORTHERN REGION	236632.04	232041.40	3498.56	472171.99	379070.83	93101.17	19.72	21.92
Chhattisgarh	19794.88	19057.73	335.75	39188.36	30476.74	8711.62	22.23	23.68
Gujarat	68376.00	77080.54	417.46	145874.00	124100.79	21773.21	14.93	18.49
Madhya Pradesh	40544.18	50166.11	24.20	90734.49	70422.49	20312.00	22.39	24.72
Maharashtra	116831.99	64482.34	1107.35	182421.68	155517.58	26904.10	14.75	17.43
DNH & DD	1039.63	8806.66	0.00	9846.30	9334.76	511.54	5.20	8.91
Goa	21.34	4688.76	140.21	4850.32	4508.32	342.00	7.05	8.05
WESTERN REGION	246608.04	224282.14	2024.98	472915.15	394360.69	78554.46	16.61	19.41
Andhra Pradesh	50475.47	22238.38	612.06	73325.91	62912.55	10413.36	14.20	15.35
Telangana	45509.60	30915.28	836.19	77261.07	67828.38	9432.69	12.21	14.35
Karnataka	52933.26	23904.94	2460.89	79299.09	66356.51	12942.58	16.32	16.39
Kerala	9572.20	19021.46	202.79	28796.46	24905.88	3890.58	13.51	13.65
Tamilnadu	54474.90	63030.95	4823.43	122329.28	103678.81	18650.47	15.25	13.40
Puducherry	232.41	3165.95	7.91	3406.27	2908.30	497.97	14.62	15.03
Lakshadweep	60.15	0.00	0.00	60.15	51.74	8.42	13.99	14.60
SOUTHERN REGION	213258.00	162276.96	8943.28	384478.24	328642.17	55836.07	14.52	14.61
Bihar	3565.27	37242.54	86.33	40894.15	30337.85	10556.30	25.81	27.26
Jharkhand	25365.04	8722.38	188.50	34275.92	26407.77	7868.15	22.96	22.70
Orissa	26750.07	9572.75	2373.82	38696.64	30449.41	8247.22	21.31	22.86
West Bengal	58539.84	12885.96	214.09	71639.89	58578.95	13060.94	18.23	16.87
Sikkim	62.30	609.87	0.00	672.17	485.77	186.40	27.73	31.93
A & N. Islands	379.60	0.00	0.00	379.60	284.00	95.59	25.18	7.28
EASTERN REGION	114662.13	69033.49	2862.75	186558.37	146543.75	40014.61	21.45	21.58
Arunachal Pradesh	24.85	996.13	0.00	1020.98	582.49	438.48	42.95	42.93
Assam	2556.01	9578.89	7.76	12142.66	10003.55	2139.11	17.62	25.48
Manipur	8.79	1066.61	0.00	1075.41	845.41	230.00	21.39	31.97
Meghalaya	1049.96	1152.43	5.40	2207.79	1718.90	488.90	22.14	34.21
Mizoram	62.27	544.57	0.00	606.84	493.58	113.26	18.66	22.82
Nagaland	111.95	752.95	0.00	864.90	687.43	177.47	20.52	20.78
Tripura	345.64	1276.18	0.00	1621.81	1154.02	467.80	28.84	23.03
NORTH EASTERN REGION	4159.47	15367.76	13.16	19540.39	15485.37	4055.02	20.75	27.23
All India	815319.67	703001.74	17342.73	1535664.14	1264102.81	271561.33	17.68	19.27
Export to Other Countries	13791.92							

(*) Ex-bus import (net import) from grid includes central schedule, unschedule, bi-lateral, trading etc..



TABLE 6.5.0
TOTAL AUXILIARY CONSUMPTION STATE-WISE/ MODE-WISE
UTILITIES
2022-23

(GWh)

Name of the State/Uts	Hydro	Steam	Diesel	Gas	Nuclear	RES	Total
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	247.99	0.00	121.25	0.00	0.00	369.24
Haryana	9.23	2059.25	0.00	9.72	0.00	1.76	2079.95
Himachal Pradesh	50.70	0.00	0.00	0.00	0.00	1.68	52.38
UT of J&K and Ladakh	46.11	0.00	0.00	0.00	0.00	0.00	46.11
Punjab	26.41	2355.87	0.00	9.72	0.00	0.04	2392.03
Rajasthan	9.37	4856.81	0.00	58.45	0.00	0.06	4924.70
Uttar Pradesh	18.65	5574.90	0.00	0.00	0.00	0.31	5593.85
Uttarakhand	42.24	54.91	0.00	0.00	0.00	0.00	97.16
Central Sector	437.67	6094.43	0.00	4.67	1064.02	52.70	7653.49
Sub Total (NR)	640.40	21244.16	0.00	203.80	1064.02	56.54	23208.91
Chhattisgarh	0.96	6475.47	0.00	0.00	0.00	0.46	6476.89
Gujarat	11.01	4536.50	0.00	64.80	0.00	10.66	4622.97
Madhya Pradesh	27.94	4579.55	0.00	0.00	0.00	0.00	4607.50
Maharashtra	60.87	8775.71	0.00	67.09	0.00	0.00	8903.67
Dadar & Nagar Haveli and Daman & Diu	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	35.57	8275.97	0.00	8.88	1196.20	20.89	9537.51
Sub Total (WR)	136.36	32643.20	0.00	140.77	1196.20	32.01	34148.54
Andhra Pradesh	16.92	3908.35	0.00	24.34	0.00	7.85	3957.46
Telangana	86.16	2345.34	0.00	0.00	0.00	3.59	2435.09
Karnataka	218.09	2090.89	0.00	0.00	0.00	3.06	2312.05
Kerala	92.95	0.00	0.05	0.00	0.00	4.67	97.67
Tamil Nadu	20.52	1838.28	0.00	151.37	0.00	1.90	2012.07
Puducherry	0.00	0.00	0.00	12.90	0.00	0.00	12.90
Lakshadweep	0.00	0.00	0.44	0.00	0.00	0.00	0.44
Central Sector	0.00	5449.36	0.00	0.00	1858.52	17.81	7325.69
Sub Total (SR)	434.64	15632.22	0.49	188.60	1858.52	38.90	18153.38
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jharkhand	0.12	1010.74	0.00	0.00	0.00	0.00	1010.85
Odisha	45.72	2140.79	0.00	0.00	0.00	0.00	2186.51
West Bengal	30.80	3897.76	0.00	0.00	0.00	0.00	3928.57
Sikkim	37.80	0.00	0.00	0.00	0.00	0.00	37.80
A.& N. Islands	0.00	0.00	3.30	0.00	0.00	0.39	3.69
Central Sector	48.14	9855.17	0.00	0.00	0.00	0.51	9903.82
Sub Total (ER)	162.58	16904.46	3.30	0.00	0.00	0.90	17071.25
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	2.38	0.00	0.00	75.49	0.00	0.57	78.44
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	2.32	0.00	0.00	0.00	0.00	0.13	2.45
Mizoram	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	5.50	0.00	0.10	5.60
Central Sector	36.88	433.64	0.00	290.12	0.00	0.17	760.81
Sub Total (NER)	41.59	433.64	0.00	371.11	0.00	0.96	847.30
All India	1415.57	86857.67	3.79	904.29	4118.74	129.31	93429.37



TABLE 6.5.1
TOTAL AUXILIARY CONSUMPTION REGION-WISE/STATE-WISE ALL MODES
UTILITIES
2022-23

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	12.61	12.61	0.00	0.00
Delhi	7155.27	6786.03	369.24	5.16
Haryana	31077.03	28997.08	2079.95	6.69
Himachal Pradesh	13761.08	13708.70	52.38	0.38
Jammu & Kashmir	5751.71	5705.59	46.11	0.80
Punjab	46940.58	44548.55	2392.03	5.10
Rajasthan	99407.94	94483.24	4924.70	4.95
Uttar Pradesh	88045.10	82451.25	5593.85	6.35
Uttarakhand	10743.06	10645.90	97.16	0.90
Central Sector	146565.18	138911.70	7653.49	5.22
Sub Total (NR)	449459.56	426250.65	23208.91	5.16
Chhattisgarh	87434.56	80957.68	6476.89	7.41
Gujarat	79899.25	75276.27	4622.97	5.79
Madhya Pradesh	74464.42	69856.92	4607.50	6.19
Maharashtra	132439.63	123535.96	8903.67	6.72
Daman & Diu	30.62	30.62	0.00	0.00
Goa	18.25	18.25	0.00	0.00
Central Sector	154375.04	144837.53	9537.51	6.18
Sub Total (WR)	528661.77	494513.23	34148.54	6.46
Andhra Pradesh	68875.39	64917.92	3957.46	5.75
Telangana	48230.84	45795.75	2435.09	5.05
Karnataka	66260.73	63948.68	2312.05	3.49
Kerala	9669.87	9572.20	97.67	1.01
Tamil Nadu	64699.66	62687.59	2012.07	3.11
Puducherry	245.31	232.41	12.90	5.26
Lakshadweep	58.59	58.15	0.44	0.75
Central Sector	100336.46	93010.77	7325.69	7.30
Sub Total (SR)	358376.85	340223.48	18153.38	5.07
Bihar	288.85	288.85	0.00	0.00
Jharkhand	15618.37	14607.52	1010.85	6.47
Odisha	36594.62	34408.11	2186.51	5.97
West Bengal	50617.71	46689.14	3928.57	7.76
Sikkim	4212.20	4174.41	37.80	0.90
A. & N. Islands	383.29	379.60	3.69	0.96
Central Sector	150509.30	140605.47	9903.82	6.58
Sub Total (ER)	258224.34	241153.10	17071.25	6.61
Arunachal Pradesh	24.85	24.85	0.00	0.00
Assam	2434.45	2356.01	78.44	3.22
Manipur	8.79	8.79	0.00	0.00
Meghalaya	1052.41	1049.96	2.45	0.23
Mizoram	62.27	62.27	0.00	0.00
Nagaland	111.95	111.95	0.00	0.00
Tripura	551.23	545.64	5.60	1.02
Central Sector	18934.48	18173.67	760.81	4.02
Sub Total (NER)	23180.44	22333.14	847.30	3.66
All India	1617902.96	1524473.59	93429.37	5.77

Note: Gross generation of a State includes generation from own power houses within the State under State & Private Sectors and theoretical shares from jointly owned power projects.

TABLE 6.5.2
AUXILIARY CONSUMPTION FOR HYDRO PLANTS REGION-WISE/STATE-WISE
UTILITIES
2022-23

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption(GWh)	% of Gross Generation
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	1025.63	1016.40	9.23	0.90
Himachal Pradesh	10848.25	10797.55	50.70	0.47
Jammu & Kashmir	5358.51	5312.40	46.11	0.86
Punjab	5074.20	5047.79	26.41	0.52
Rajasthan	1261.77	1252.40	9.37	0.74
Uttar Pradesh	2062.48	2043.83	18.65	0.90
Uttarakhand	9068.04	9025.80	42.24	0.47
Central Sector	47076.62	46638.95	437.67	0.93
Sub Total (NR)	81775.50	81135.10	640.40	0.78
Chhattisgarh	237.37	236.41	0.96	0.41
Gujarat	2107.62	2096.61	11.01	0.52
Madhya Pradesh	4996.02	4968.08	27.94	0.56
Maharashtra	6944.73	6883.86	60.87	0.88
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	5443.49	5407.92	35.57	0.65
Sub Total (WR)	19729.23	19592.87	136.36	0.69
Andhra Pradesh	3994.41	3977.49	16.92	0.42
Telangana	6298.49	6212.33	86.16	1.37
Karnataka	13002.70	12784.61	218.09	1.68
Kerala	7989.00	7896.05	92.95	1.16
Tamil Nadu	5965.77	5945.25	20.52	0.34
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
Sub Total (SR)	37250.37	36815.73	434.64	1.17
Bihar	0.00	0.00	0.00	0.00
Jharkhand	168.99	168.87	0.12	0.07
Odisha	5082.20	5036.48	45.72	0.90
West Bengal	1989.56	1958.76	30.80	1.55
Sikkim	4199.85	4162.05	37.80	0.90
A.& N. Islands	0.00	0.00	0.00	0.00
Central Sector	4760.80	4712.66	48.14	1.01
Sub Total (ER)	16201.40	16038.82	162.58	1.00
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	481.60	479.22	2.38	0.49
Manipur	0.00	0.00	0.00	0.00
Meghalaya	980.25	977.93	2.32	0.24
Mizoram	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
Central Sector	5680.42	5643.54	36.88	0.65
Sub Total (NER)	7142.27	7100.68	41.59	0.58
All India	162098.77	160683.20	1415.57	0.87



TABLE 6.5.3
AUXILIARY CONSUMPTION FOR THERMAL(COAL & LIGNITE) PLANTS
REGION-WISE/STATE-WISE(UTILITIES)
2022-23

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	0.00	0.00	0.00	0.00
Delhi	3360.35	3112.36	247.99	7.38
Haryana	28378.05	26318.80	2059.25	7.26
Himachal Pradesh	0.00	0.00	0.00	0.00
UT of J&K and Ladakh	0.00	0.00	0.00	0.00
Punjab	37437.01	35081.14	2355.87	6.29
Rajasthan	58401.76	53544.95	4856.81	8.32
Uttar Pradesh	79448.73	73873.83	5574.90	7.02
Uttarakhand	744.10	689.19	54.91	7.38
Central Sector	85410.95	79316.52	6094.43	7.14
Sub Total (NR)	293180.95	271936.79	21244.16	7.25
Chhattisgarh	85194.14	78718.67	6475.47	7.60
Gujarat	47164.64	42628.14	4536.50	9.62
Madhya Pradesh	61149.48	56569.93	4579.55	7.49
Maharashtra	106229.82	97454.11	8775.71	8.26
Dadar & Nagar Haveli and Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	134085.26	125809.29	8275.97	6.17
Sub Total (WR)	433823.34	401180.14	32643.20	7.52
Andhra Pradesh	48290.64	44382.29	3908.35	8.09
Telangana	34678.83	32333.49	2345.34	6.76
Karnataka	23683.55	21592.66	2090.89	8.83
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	29481.56	27643.28	1838.28	6.24
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	75771.13	70321.77	5449.36	7.19
Sub Total (SR)	211905.71	196273.49	15632.22	7.38
Bihar	0.00	0.00	0.00	0.00
Jharkhand	15429.67	14418.93	1010.74	6.55
Odisha	30333.48	28192.69	2140.79	7.06
West Bengal	46669.11	42771.35	3897.76	8.35
Sikkim	0.00	0.00	0.00	0.00
A.& N. Islands	0.00	0.00	0.00	0.00
Central Sector	145727.42	135872.25	9855.17	6.76
Sub Total (ER)	238159.68	221255.22	16904.46	7.10
Arunachal Pradesh	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
Mizoram	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
Central Sector	5026.24	4592.60	433.64	8.63
Sub Total (NER)	5026.24	4592.60	433.64	8.63
All India	1182095.92	1095238.25	86857.67	7.35



TABLE 6.5.4
AUXILIARY CONSUMPTION FOR DIESEL PLANTS REGIONWISE/STATEWISE
UTILITIES
2022-23

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption(GWh)	% of Gross Generation
Chandigarh	0.00	0.00	0.00	0.00
Delhi	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
UT of J&K and Ladakh	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
Uttarakhand	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
Sub-Total(NR)	0.00	0.00	0.00	0.00
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	0.00	0.00	0.00	0.00
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	0.00	0.00	0.00	0.00
Dadar & Nagar Haveli and Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
Sub-Total(WR)	0.00	0.00	0.00	0.00
Andhra Pradesh	0.00	0.00	0.00	0.00
Telangana	0.00	0.00	0.00	0.00
Karnataka	0.00	0.00	0.00	0.00
Kerala	0.12	0.07	0.05	41.67
Tamil Nadu	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	58.49	58.05	0.44	0.75
Central Sector	0.00	0.00	0.00	0.00
Sub-Total(SR)	58.61	58.12	0.49	0.84
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Odisha	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
A. & N. Islands	350.85	347.55	3.30	0.94
Central Sector	0.00	0.00	0.00	0.00
Sub-Total(ER)	350.85	347.55	3.30	0.94
Arunachal Pradesh	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
Mizoram	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
Central Sector	0.00	0.00	0.00	0.00
Sub-Total(NER)	0.00	0.00	0.00	0.00
All India	409.46	405.67	3.79	0.93



TABLE 6.5.5
AUXILIARY CONSUMPTION FOR GAS BASED PLANTS REGIONWISE/STATEWISE
UTILITIES
2022-23

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	0.00	0.00	0.00	0.00
Delhi	3264.72	3143.47	121.25	3.71
Haryana	259.79	250.07	9.72	3.74
Himachal Pradesh	0.00	0.00	0.00	0.00
UT of J&K and Ladakh	0.00	0.00	0.00	0.00
Punjab	259.79	250.07	9.72	3.74
Rajasthan	1316.34	1257.89	58.45	4.44
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Central Sector	1044.81	1040.14	4.67	0.45
Sub Total (NR)	6145.45	5941.65	203.80	3.32
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	1626.20	1561.40	64.80	3.98
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	2113.62	2046.53	67.09	3.17
Dadar & Nagar Haveli and Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	848.43	839.55	8.88	1.05
Sub Total (WR)	4588.25	4447.48	140.77	3.07
Andhra Pradesh	610.00	585.66	24.34	3.99
Telangana	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	1861.95	1710.58	151.37	8.13
Puducherry	233.07	220.17	12.90	5.53
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
Sub Total (SR)	2705.02	2516.42	188.60	6.97
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Odisha	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
A.& N. Islands	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
Sub Total (ER)	0.00	0.00	0.00	0.00
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	1676.98	1601.49	75.49	4.50
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	550.45	544.95	5.50	1.00
Central Sector	8218.89	7928.77	290.12	3.53
Sub Total (NER)	10446.32	10075.21	371.11	3.55
All India	23885.04	22980.75	904.29	3.79



TABLE 6.5.6
AUXILIARY CONSUMPTION FOR NUCLEAR BASED PLANTS REGIONWISE/STATEWISE
UTILITIES
2022-23

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	0.00	0.00	0.00	0.00
Delhi	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
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
Uttarakhand	0.00	0.00	0.00	0.00
Central Sector	9779.89	8715.87	1064.02	10.88
Sub Total (NR)	9779.89	8715.87	1064.02	10.88
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	0.00	0.00	0.00	0.00
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	12625.39	11429.19	1196.20	9.47
Sub Total (WR)	12625.39	11429.19	1196.20	9.47
Andhra Pradesh	0.00	0.00	0.00	0.00
Telangana	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
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	23455.81	21597.29	1858.52	7.92
Sub Total (SR)	23455.81	21597.29	1858.52	7.92
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Odisha	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
A. & N. Islands	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
Sub Total (ER)	0.00	0.00	0.00	0.00
Arunachal Pradesh	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
Mizoram	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
Central Sector	0.00	0.00	0.00	0.00
Sub Total (NER)	0.00	0.00	0.00	0.00
All India	45861.09	41742.35	4118.74	8.98



CHAPTER 7

OPERATING DATA OF UTILITIES







CHAPTER 7

OPERATING DATA OF UTILITIES

FUEL CONSUMPTION

- There are 180 Nos. of Coal fired thermal stations operating in the country as on 31.03.2023.
- CEA is monitoring fuel consumption of 187 stations having Installed Capacity 205235.5 MW.
- For the year 2022-23, the Coal consumption of 187 stations was 776.79 Million Tonnes.

THERMAL EFFICIENCY

- The total numbers of Coal/Lignite/Multi-fuel Power Stations ending March 2023 were 192 having an aggregate installed capacity of 211855.5 MW. Out of these, 180 Stations are coal fired and 12 are of Lignite fired.
- CEA has received actual data of 165 Thermal Power Stations. These Thermal Power Stations have capacity of 199941.5 MW.
- 1.21% stations are operating below 25%, 6.67% stations are operating at 25% to 30%, 32.73% stations are operating at 30% to 35% and 59.39% stations are operating at above 35% efficiency.

PLANT LOAD FACTOR

- Under Private Sector, Jharkhand recorded the highest PLF of 80.12%.
- All India Plant Load factors of Central Sector Thermal Power Stations were 74.67%. All India Plant Load Factors of State and Private Sector of Thermal Power Stations were 61.86% and 56.18% respectively.
- All India PLF of all Nuclear Power Stations in the country was 77.22%.

MANPOWER

- Amongst State Electricity Corporations/Undertakings that have reported the engaged manpower, Tamil Nadu Generation & Distribution Corporation Ltd. had the highest manpower engaged as regular & non-regular
- Tamil Nadu was followed by Maharashtra State Electricity Distribution Co. Ltd.

The tables that follow in this Chapter give figures of fuel consumption, thermal efficiency-based classification of steam stations, specific coal consumption, plant load factor, manpower, peak demand met etc.



TABLE 7.1
CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION IN THERMAL POWER
STATIONS STATE-WISE BY KIND OF FUELS
2022-23

State/UTs	Coal/Lignite based Power Plants							
	COAL	FURNACE	LIGHT DIESEL	LSHS/HHS	GAS	Biomass	LIGNITE	Generation
	000' MT	OIL (KL)	OIL/HSD(KL)	(KL)	(MMSCM)	(MT)	000'(MT)	(GWh)
Delhi	0	0	0	0	0	0	0	0
Haryana	16287	0	8809	0	0	0	0	23869
Himachal Pradesh	0	0	0	0	0	0	0	0
UT of J&K and Ladakh	0	0	0	0	0	0	0	0
Punjab	20637	14812	671	0	0	0	0	31506
Rajasthan	31151	15906	19723	5894	0	0	5981	54252
Uttar Pradesh	49853	5239	34524	0	0	0	0	75728
Uttarakhand	0	0	0	0	0	0	0	0
Central Sector (NR)	53703	36459	791	0	0	0	1494	85411
Sub-Total (NR)	171631	72416	64518	5894	0	0	7476	270766
Chhattisgarh	64243	9174	10558	0	0	0	0	85194
Gujarat	27476	138892	13391	615	0	0	6013	53323
Madhya Pradesh	50732	11573	12276	0	0	739	0	79752
Maharashtra	74347	94	132155	0	0	0	0	103899
Daman & Diu	0	0	0	0	0	0	0	0
D. & N. Haveli	0	0	0	0	0	0	0	0
Goa	0	0	0	0	0	0	0	0
Central Sector (WR)	89693	50793	0	0	0	0	0	134085
Sub-Total (WR)	306491	210526	168379	615	0	739	6013	456253
Andhra Pradesh	34681	17496	3708	0	0	0	0	48291
Telangana	21696	34216	5770	0	0	0	0	34679
Karnataka	16157	11327	29842	0	704786	0	0	23684
Kerala	0	0	0	0	0	0	0	0
Tamil Nadu	23412	209816	5380	0	0	0	1179	29482
Puducherry	0	0	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0	0	0
Central Sector (SR)	39245	44353	5532	0	0	0	21716	75771
Sub-Total (SR)	135191	317207	50230	0	704786		22895	211906
Bihar	0	0	0	0	0	0	0	0
Jharkhand	9824	2010	705	0	0	0	0	15430
Odisha	22037	1024	1932	0	0	0	0	29991
West Bengal	30977	1096	12180	0	0	0	0	46669
Sikkim	0	0	0	0	0	0	0	0
A. & N. Islands	0	0	0	0	0	0	0	0
Central Sector (ER)	97652	80787	6388	0	0	0	0	145592
Sub-Total (ER)	160490	84917	21205	0	0	0	0	237682
Arunachal Pradesh	0	0	0	0	0		0	0
Assam	0	0	0	0	0		0	0
Manipur	0	0	0	0	0		0	0
Meghalaya	0	0	0	0	0		0	0
Mizoram	0	0	0	0	0		0	0
Nagaland	0	0	0	0	0		0	0
Tripura	0	0	0	0	0		0	0
Central Sector (NER)	2988	2630	0	0	0	0	0	5026
Sub-Total (NER)	2988	2630	0	0	0	0	0	5026
Total (All India)	776790	687696	304332	6509	704786	739	36384	1181633

* JSW Toranagallu TPS (SBU I & II) uses By-product waste gas from Steel Plant as a fuel which reduces the coal consumption.



TABLE 7.1 (A)
CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION IN THERMAL POWER
STATIONS STATE-WISE BY KIND OF FUELS
2022-23

State/UTs	Gas based Power Plants				Diesel Power Plants		
	Natural Gas (MMSCM)	H.S.D. (Kilo Ltrs.)	Naptha (Kilo Ltrs.)	Generation (GWh)	LSHS (KL)	Diesel Oil (Kilo Ltrs.)	Generation (GWh)
Delhi	787	0	0	3784	0	0	0
Haryana	0	0	0	0	0	0	0
Himachal Pradesh	0	0	0	0	0	0	0
UT of J&K and Ladakh	0	0	0	0	0	0	0
Punjab	0	0	0	0	0	0	0
Rajasthan	411	1	0	1316	0	0	0
Uttar Pradesh	0	0	0	0	0	0	0
Uttarakhand	0	0	0	0	0	0	0
Central Sector (NR)	258	16503	8749	1045	0	0	0
Sub-Total (NR)	1457	16504	8749	6145	0	0	0
Chhattisgarh	0	0	0	0	0	0	0
Gujarat	311	0	0	1626	0	0	0
Madhya Pradesh	0	0	0	0	0	0	0
Maharashtra	567	0	0	2114	0	0	0
Daman & Diu	0	0	0	0	0	0	0
D. & N. Haveli	0	0	0	0	0	0	0
Goa	0	0	0	0	0	0	0
Central Sector (WR)	212	77	1160	848	0	0	0
Sub-Total (WR)	1090	77	1160	4588	0	0	0
Andhra Pradesh	148	0	0	610	0	0	0
Telangana	0	0	0	0	0	0	0
Karnataka	0	0	0	0	0	0	0
Kerala	0	0	0	0	28	2	0
Tamil Nadu	457	32	15780	1862	0	0	0
Puducherry	60	0	0	233	0	0	0
Lakshadweep	0	0	0	0	0	17876	58
Central Sector (SR)	0	0	0	0	0	0	0
Sub-Total (SR)	665	32	15780	2705	28	17877	59
Bihar	0	0	0	0	0	0	0
Jharkhand	0	0	0	0	0	0	0
Odisha	0	0	0	0	0	0	0
West Bengal	0	0	0	0	0	0	0
Sikkim	0	0	0	0	0	0	0
A & N. Islands	0	0	0	0	0	87567	351
Central Sector (ER)	0	0	0	0	0	0	0
Sub-Total (ER)	0	0	0	0	0	87567	351
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	485	0	0	1677	0	0	0
Manipur	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	0
Mizoram	0	0	0	0	0	0	0
Nagaland	0	0	0	0	0	0	0
Tripura	231	0	0	550	0	0	0
Central Sector (NER)	1870	0	0	8219	0	0	0
Sub-Total (NER)	2586	0	0	10446	0	0	0
Total (All India)	5798	16612	25689	23885	28	105445	409

MMSCM:- Million Metric Standard Cubic Metre.



TABLE 7.2
CLASSIFICATION OF STEAM TYPE ELECTRICITY GENERATING STATIONS
EFFICIENCY-WISE
2022-23

Thermal Efficiency	Percentage(%) of Generating Stations
Up to 25%	1.21
Above 25% & up to 30%	6.67
Above 30% & up to 35%	32.73
Above 35%	59.39
Total	100.00

* Efficiency has been worked out on the basis of data available for 165 thermal stations.

ALL INDIA THERMAL EFFICIENCY OF COAL & LIGNITE BASED PLANTS

Year	(%)
2013-14	34.32
2014-15	34.68
2015-16	34.94
2016-17	35.11
2017-18	35.35
2018-19	35.62
2019-20	35.69
2020-21	35.88
2021-22	35.11
2022-23	35.02



TABLE 7.3
SALIENT OPERATING DATA FOR COAL/LIGNITE BASED ELECTRICITY
GENERATING PLANTS
(UTILITIES)
2022-23

Sl. No.	Item	Coal	Lignite	Furnance Oil	Diesel	LSHS & HHS
1	Fuel Consumption of Coal/ Lignite Power Stations.	(MMT)	(MMT)	(K.Ltrs.)	(K.Ltrs.)	(K.Ltrs.)
	2010-11	380	29	897316	326151	4699
	2011-12	411	31	848262	257701	44797
	2012-13	455	32	763737	6384	44334
	2013-14	489	25	592059	93057	4021
	2014-15	531	35	438468	161848	2579
	2015-16	546	30	343703	136898	1840
	2016-17	575	31	348393	166704	1020
	2017-18	608	36	325963	201399	2556
	2018-19	629	37	270900	239126	3822
	2019-20	622	35	250376	287657	9767
	2020-21	615	34	246671	292142	12989
	2021-22	697	38	321902	338040	14194
	2022-23	777	36	687696	304332	6509
2	Average Calorific Value	(kcal/kg)	(kcal/kg)	(kcal/litr)	(kcal/litr)	(kcal/litr)
	2010-11	3603	2729	10156	9786	10327
	2011-12	3606	2714	10280	9974	10417
	2012-13	3589	2731	10241	9981	10391
	2013-14	3501	2713	10127	10172	10068
	2014-15	3558	2699	10074	9984	10173
	2015-16	3566	2710	10037	10168	10437
	2016-17	3703	2678	10067	9831	9982
	2017-18	3721	2688	9999	9872	10297
	2018-19	3733	2697	10020	9890	10114
	2019-20	3648	2683	9959	9851	9963
	2020-21	3645	2694	9995	9841	9909
	2021-22	3691	2684	12091	10924	13916
	2022-23	3591	2726	9654	10112	10033
3	Specific Fuel Consumption	(kg/kWh)	(kg/kWh)			
	2010-11	0.70	1.12	N.A.	N.A.	N.A.
	2011-12	0.71	1.12	N.A.	N.A.	N.A.
	2012-13	0.71	1.11	N.A.	N.A.	N.A.
	2013-14	0.71	1.04	N.A.	N.A.	N.A.
	2014-15	0.69	1.06	N.A.	N.A.	N.A.
	2015-16	0.68	1.06	N.A.	N.A.	N.A.
	2016-17	0.66	1.10	N.A.	N.A.	N.A.
	2017-18	0.65	1.08	N.A.	N.A.	N.A.
	2018-19	0.64	1.07	N.A.	N.A.	N.A.
	2019-20	0.65	1.07	N.A.	N.A.	N.A.
	2020-21	0.65	1.05	N.A.	N.A.	N.A.
	2021-22	0.66	1.04	N.A.	N.A.	N.A.
	2022-23	0.66	1.01	N.A.	N.A.	N.A.

Note: N.A.- Not Applicable.
MMT :- Million Metric Tonnes.



TABLE 7.4
ALL INDIA PEAK ELECTRICITY DEMAND/PEAK MET STATE-WISE
2022-23

State/UTs	Peak Demand	Peak Met	Demand Not Met	
	(MW)	(MW)	(MW)	%
Chandigarh	407	407	0	0.00
Delhi	7,695	7,695	0	0.00
Haryana	12,768	12,768	0	0.00
Himachal Pradesh	2,071	2,071	0	0.00
UT of J&K and Ladakh	3,137	2,967	170	5.42
Punjab	14,311	14,311	0	0.00
Rajasthan	17,399	17,206	193	1.11
Uttar Pradesh	27,369	26,589	780	2.85
Uttarakhand	2,594	2,594	0	0.00
NORTHERN REGION	77,337	76,561	776	1.00
Chhattisgarh	5,399	5,399	0	0.00
Gujarat	21,464	21,382	82	0.38
Madhya Pradesh	17,347	17,238	109	0.63
Maharashtra	30,935	28,846	2089	6.75
Dadra & Nagar Haveli and Daman & Diu	1,278	1,278	0	0.00
Goa	718	718	0	0.00
WESTERN REGION	71,677	71,677	0	0.00
Andhra Pradesh	13,167	12,293	874	6.64
Telangana	15,497	15,497	0	0.00
Karnataka	15,828	15,828	0	0.00
Kerala	4,699	4,370	329	7.00
Tamil Nadu	17,729	17,729	0	0.00
Puducherry	501	501	0	0.00
Lakshadweep #	12	12	0	0.00
SOUTHERN REGION	64,337	64,337	0	0.00
Bihar	7,852	6,631	1221	15.55
DVC	3,402	3,396	7	0.20
Jharkhand	2,253	1,918	336	14.89
Orissa	6,566	6,391	175	2.67
West Bengal	10,125	9,900	225	2.22
Sikkim	124	124	0	0.00
Andaman Nicobar #	62.3	62.3	0	0.00
EASTERN REGION	28,275	27,218	1057	3.74
Arunachal Pradesh	167	167	0	0.00
Assam	2379	2376	3	0.12
Manipur	248	248	0	0.00
Meghalaya	404	404	0	0.03
Mizoram	159	159	0	0.00
Nagaland	168	167	1	0.48
Tripura*	333	333	0	0.00
NORTH EAST REGION	3,603	3,603	0	0.00
ALL INDIA	215,888	207,231	8657	4.01

Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and supply.

* Excludes the supply to Bangladesh.

Note: Power Supply Position Report has been compiled based on the data furnished by StateUtilities/ Electricity Departments.



TABLE 7.5
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2023 (AS REPORTED)

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Operating Staff	Non- Technical	Total (Regular) (2+3+4+5+6)
1	2	3	4	5	6	7
NORTHERN REGION						
(1)Chandigarh	40	0	71	393	108	612
(2)Delhi						
(a)IPGCL+PPCL	7	253	102	237	222	821
(b)Delhi Transco Ltd.	NA	NA	NA	NA	NA	NA
(3)Haryana						
(a)HPGCL	3	453	157	620	366	1599
(b)Uttar Haryana BVNL	NA	NA	NA	NA	NA	NA
(c)Dakshin Haryana BVN	9	324	726	5278	2313	8650
(4)Himachal Pradesh SEBL	20	723	2114	5159	4107	12123
(5)UT of J&K and Ladakh						
(a)KPDCL	NA	NA	NA	NA	NA	NA
(b)JPDCL	4	569	0	0	4800	5373
(c)Electricity Maintenance Department, Ladakh	2	9	24	698	0	733
(d)JKSPDCL	12	162	241	275	603	1293
(e)JKPTCL	NA	NA	NA	NA	NA	NA
(6)Punjab						
(a)Punjab State Power Corpn. Ltd	5	81	611	8089	2509	11295
(b)Punjab State Transmission Corpn. Ltd	7	367	494	1156	507	2531
(7)Rajasthan						
(a)RRVUNL	7	1357	1109	1092	640	4205
(b)RRVPNL	5	1346	1725	3817	1045	7938
(c)Jaipur VVN Ltd.	654		860	14053	3433	19000
(d)Ajmer VVN Ltd.	8	1392	175	10160	3067	14802
(e)Jodhpur VVN Ltd.	8	499	901	9707	2482	13597
(8)Uttar Pradesh						
(a)UPRVUNL	35	1397	877	2594	1247	6150
(b)MVVNL(Lucknow UP)	NA	NA	NA	NA	NA	NA
(c)DVVNL(Agra UP)	NA	NA	NA	NA	NA	NA
(d)KESCO(KANPUR)	3	84	118	720	341	1266
(e)Pur.VVNL(Varanasi UP)	NA	NA	NA	NA	NA	NA
(f)Paschi.VVNL(Meerut UP)	NA	NA	NA	NA	NA	NA
(g)UPJVNL	2	57	20	186	21	286
(h)UPPCL (includes manpower of all UP Discoms)	65	3150	3249	16804	7010	30278
(i)UPPTCL	NA	NA	NA	NA	NA	NA
(9)Uttaranchal						
(a)UJVNL	5	89	85	307	27	513
(b)UPCL	12	384	545	808	768	2517
(c)PTCUL	11	243	259	204	150	867



TABLE 7.5 (CONTD.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2023 (AS REPORTED)

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher	Technical & Scientific	Technical Supervisory	Technicians & Operating	Non-Technical	Total (Regular) (2+3+4+5+6)
	executive	Officers	Staff	Staff		
1	2	3	4	5	6	7
WESTERN REGION						
(10)Chhattisgarh						
(a)Chhattisgarh Power Generation Co. Ltd.	18	1007	913	197	1161	3296
(b)Chhattisgarh State Power Trans. Co. Ltd.	9	316	98	612	395	1430
(c)Chhattisgarh State Distribution Co. Ltd.	21	880	643	6327	2561	10432
(11)Gujarat						
(a)Gujarat State Electricity Corp. Ltd.	14	4738	1851	2899	1019	10521
(b)Guj. Energy Trans Corporation	2	1061	1167	10696	992	13918
(c)Madhya Guj.Vij.Co.Ltd.	2	271	364	3988	2498	7123
(d)Dakshin Guj.Vij.Co.Ltd.	1	778	920	3503	2945	8147
(e)Uttar Guj.Vij.Co.Ltd.	3	805	736	3967	3885	9396
(f)Pachim Guj.Vij.Co.Ltd.	4	1460	1460	7295	5656	15875
(g)Gujrat Mineral Dev.Corpn.	6	27	38	24	38	133
(12)Madhya Pradesh						
(a)MPPGCL	3	928	355	1639	860	3785
(b)MPPTCL	2	375	617	1721	642	3357
(c)MPMKVVCL, Bhopal	3	442	652	2857	1348	5302
(d)MPPKVVCL, Indore	9	838	282	3483	1511	6123
(e)MPPKVVCL, Jabalpur	0	306	379	3785	1471	5941
(13)Maharashtra						
(a)Maharashtra State Power Gen. Co. Ltd.	29	0	3652	5066	1751	10498
(b)Maharashtra State Elect. Trans. Co. Ltd.	17	232	2740	4681	1182	8852
(c)MSEDCL	54	462	7828	61002	12398	81744
(d)BEST	5	880	212	3008	970	5075
(14)Goa						
	1	188	250	4155	1471	6065
(15)UT of Dadra & Nagar Haveli and Daman & DIU						
	0	2	6	33	9	50

N.A:- Information not available.



TABLE 7.5 (CONTD.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2023 (AS REPORTED)

REGULAR					
Name of the Board/Undertaking	Technical Trainees and Apprentices	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	8	9	10	11	12
NORTHERN REGION					
(1)Chandigarh	491	0	0	491	1103
(2)Delhi					
(a)IPGCL+PPCL	0	0	0	20	841
(b)Delhi Transco Ltd.	NA	NA	NA	NA	NA
(3)Haryana					
(a)HPGCL	0	0	0	0	1599
(b)Uttar Haryana BVNL	NA	NA	NA	NA	NA
(c)Dakshin Haryana BVN	0	5792	0	5792	14442
(4)Himachal Pradesh SEBL	2465	202	3424	6091	18214
(5)UT of J&K and Ladakh					
(a)KPDCL	NA	NA	NA	NA	NA
(b)JPDCL	0	0	5400	5400	10773
(c)Electricity Maintenance Department, Ladakh	366	0	0	366	1099
(d)JKSPDCL	0	25	170	195	1488
(e)JKPTCL	NA	NA	NA	NA	NA
(6)Punjab					
(a)Punjab State Power Corpn. Ltd	582	0	0	582	11877
(b)Punjab State Transmission Corpn. Ltd	0	997	2	999	3530
(7)Rajasthan					
(a)RRVUNL	0	0	1	1	4206
(b)RRVPL	0	0	0	0	7938
(c)Jaipur VVN Ltd.	0	0	0	0	19000
(d)Ajmer VVN Ltd.	0	0	0	0	14802
(e)Jodhpur VVN Ltd.	0	0	0	0	13597
(8)Uttar Pradesh					
(a)UPRVUNL	0	0	0	0	6150
(b)MVVNL(Lucknow UP)	NA	NA	NA	NA	NA
(c)DVVNL(Agra UP)	NA	NA	NA	NA	NA
(d)KESCO(KANPUR)	0	0	0	0	1266
(e)Pur.VVNL(Varanasi UP)	NA	NA	NA	NA	NA
(f)Paschi.VVNL(Meerut UP)	NA	NA	NA	NA	NA
(g)UPJVNL	21	25	2	48	334
(h)UPPCL (includes manpower of all UP Discoms)	325	0	75017	75342	105620
(i)UPPTCL	NA	NA	NA	NA	NA
(9)Uttaranchal					
(a)UJVNL	263	0	92	355	868
(b)UPCL	0	0	0	0	2517
(c)PTCL	0	0	0	0	867



TABLE 7.5 (CONTD.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2023 (AS REPORTED)

REGULAR					
Name of the Board/Undertaking	Technical Trainees and Apprentices	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	8	9	10	11	12
WESTERN REGION					
(10)Chhattisgarh					
(a)Chhattisgarh Power Generation Co. Ltd.	0	0	0	0	3296
(b)Chhattisgarh State Power Trans. Co. Ltd.	0	96	0	96	1526
(c)Chhattisgarh State Distribution Co. Ltd.	0	0	0	0	10432
(11)Gujarat					
(a)Gujarat State Electricity Corp. Ltd.	0	0	0	0	10521
(b)Guj. Energy Trans Corporation	1653	0	0	1653	15571
(c)Madhya Guj.Vij.Co.Ltd.	0	0	0	0	7123
(d)Dakshin Guj.Vij.Co.Ltd.	0	0	0	0	8147
(e)Uttar Guj.Vij.Co.Ltd.	1130	0	0	1130	10526
(f)Pachim Guj.Vij.Co.Ltd.	1876	0	0	1876	17751
(g)Gujrat Mineral Dev.Corpn.	14	0	0	14	147
(12)Madhya Pradesh					
(a)MPPGCL	0	0	0	0	3785
(b)MPPTCL	0	0	0	0	3357
(c)MPMKVVCL, Bhopal	142	1	16259	16402	21704
(d)MPPKVCL, Indore	0	0	0	0	6123
(e)MPPKVCL, Jabalpur	1843	4	104	1951	7892
(13)Maharashtra					
(a)Maharashtra State Power Gen. Co. Ltd.	158	0	0	158	10656
(b)Maharashtra State Elect. Trans. Co. Ltd.	0	0	0	0	8852
(c)MSEDCL	0	0	0	0	81744
(d)BEST	62	0	692	754	5829
(14)Goa	0	445	0	445	6510
(15)UT of Dadra & Nagar Haveli and Daman &DIU	0	0	2	2	52

N.A:- Information not available.



TABLE 7.5 (CONTD.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2023 (AS REPORTED)

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher	Technical & Scientific	Technical Supervisory	Technicians & Operating	Non-Technical	Total (Regular) (2+3+4+5+6)
	executive	Officers	Staff	Staff		
1	2	3	4	5	6	7
SOUTHERN REGION						
(16)Andhra Pradesh						
(a)APGENCO	4	493	25	550	131	1203
(b)APTRANSCO	12	1566	16	166	259	2019
(c)South Power Dis. Co. of AP Ltd.	10	848	446	7917	2723	11944
(d)Eastern Power Dis. Co. of AP Ltd.	11	774	388	6700	1662	9535
(e)APPDCL	1	218	66	45	32	362
(17)Telangana						
(a)Telangana Transco	25	1590	20	1060	484	3179
(b)TSGENCO	26	2555	110	3048	998	6737
(c)TSNPDCL	15	1816	654	5774	2240	10499
(d)TSSPDCL	27	714	1919	5521	3072	11253
(18)Karnataka						
(a)KPTCL	12	2142	3225	4113	0	9492
(b)KPCL	NA	NA	NA	NA	NA	NA
(c)Hubli Elec. Supply Co. Ltd.	0	924	976	4698	3138	9736
(d)Gulbarga Elec. Supply Co. Ltd.	4	442	219	5546	1054	7265
(e)Bangalore Elec. Supply Co. Ltd.	12	1057	750	10591	2775	15185
(f)Mangalore Elec. Supply Co. Ltd.	6	374	270	3759	1152	5561
(g)Chamundeswari Elec. Supply Corpn. Ltd.	6	386	251	4329	1728	6700
(19)Kerala						
(a) Kerala SEB	18	3313	8614	12444	5195	29584
(b) Thrissur Electricity Department	0	0	44	0	46	90
(20)Tamil Nadu Gen. & Dist. Corpn. Ltd.	58	10706	2642	57917	17451	88774
(21)PUDDICHERRY+PPCL	0	49	104	1308	346	1807
(22)Lakshadweep	0	1	40	190	59	290
EASTERN REGION						
(23)Bihar						
(a)Bihar SPHCL	56	2658	251	6128	3468	12561
(b)BSPGCL						
(c)BSPTCL						
(d)South Bihar PDCL						
(e)North Bihar PDCL						
(24)Jharkhand						
(a)Jharkhand Urja Utpadan Nigam Ltd.	2	15	5	51	52	125
(b)Jharkhand Bijili Vitran Nigam Ltd.	9	442	0	2227	561	3239
(c)Tenughat Vidyut Nigam Ltd.	3	158	37	331	145	674
(25)Odisha						
(a)OPTCL	21	959	98	1122	391	2591
(b)OPGCL	12	190	107	30	54	393
(c)OHPCL	2	420	23	597	224	1266
(26)West Bengal						
(a)WBPCL	28	1522	379	1069	621	3619
(b)WBSETCL	18	393	677	1167	433	2688
(c)WBSEDCL	23	1631	4124	1680	5071	12529
(d) Durgapur Projects Ltd.	5	152	143	1152	92	1544



**TABLE 7.5 (CONTD.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2023 (AS REPORTED)**

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher	Technical & Scientific	Technical Supervisory	Technicians & Operating	Non-Technical	Total (Regular) (2+3+4+5+6)
	executive	Officers	Staff	Staff		
1	2	3	4	5	6	7
NORTH EASTERN REGION						
(27) Arunachal Pradesh	5	174	306	35	541	1061
(28) Assam						
(a) APGCL	7	310	0	210	172	699
(b) APDCL	11	1356	5129	0	2165	8661
(c) AEGCL	8	723	272	469	0	1472
(29) Meghalaya						
(a) MePGCL	0	12	0	0	128	140
(b) MeECL	12	394	297	1296	822	2821
(30) Mizoram	5	117	191	407	546	1266
(31) Manipur						
(a) Manipur SPCL	1	61	182	805	334	1383
(b) Manipur SPDCL	NA	NA	NA	NA	NA	NA
(32) Nagaland	3	104	269	1439	1047	2862
(35) Tripura State Electricity Corpn. Ltd.	3	2780	6	0	731	3520
Total	1608	73474	72901	369186	142672	659841

N.A:- Information not available.



TABLE 7.5 (CONTD.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2023 (AS REPORTED)

REGULAR					
Name of the Board/Undertaking	Technical Trainees and Apprentices	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	8	9	10	11	12
SOUTHERN REGION					
(16)Andhra Pradesh					
(a)APGENCO	1483	2702	0	4185	5388
(b)APTRANSCO	0	0	0	0	2019
(c)South Power Dis. Co. of AP Ltd.	707	8017	0	8724	20668
(d)Eastern Power Dis. Co. of AP Ltd.	0	4259	0	4259	13794
(e)APPDCL	0	0	1195	1195	1557
(17)Telangana					
(a)Telangana Transco	0	4150	0	4150	7329
(b)TSGENCO	0	0	0	0	6737
(c)TSNPDCL	0	3614	0	3614	14113
(d)TSPPDCL	0	9133	0	9133	20386
(18)Karnataka					
(a)KPTCL	0	10325	0	10325	19817
(b)KPCL	NA	NA	NA	NA	NA
(c)Hubli Elec. Supply Co. Ltd.	0	0	0	0	9736
(d)Gulbarga Elec. Supply Co. Ltd.	0	812	0	812	8077
(e)Bangalore Elec. Supply Co. Ltd.	0	0	0	0	15185
(f)Mangalore Elec. Supply Co. Ltd.	0	0	0	0	5561
(g)Chamundeswari Elec. Supply Corpn. Ltd.	0	0	0	0	6700
(19)Kerala					
(a) Kerala SEB	331	0	0	331	29915
(b) Thrissur Electricity Department	4	62	36	102	192
(20)Tamil Nadu Gen. & Dist. Corpn. Ltd.	0	0	0	0	88774
(21)PUDDICHERRY+PPCL	0	0	0	0	1807
(22)Lakshadweep	20	0	92	112	402
EASTERN REGION					
(23)Bihar					
(a)Bihar SPHCL	0	12558	611	13169	25730
(b)BSPGCL					0
(c)BSPTCL					0
(d)South Bihar PDCL					0
(e)North Bihar PDCL					0
(24)Jharkhand					
(a)Jharkhand Urja Utpadan Nigam Ltd.	62	0	0	62	187
(b)Jharkhand Bijili Vitran Nigam Ltd.	0	0	0	0	3239
(c)Tenughat Vidyut Nigam Ltd.	0	67	0	67	741
(25)Odisha					
(a)OPTCL	0	0	0	0	2591
(b)OPGCL	0	0	0	0	393
(c)OHPCCL	0	0	79	79	1345
(26)West Bengal					
(a)WBPDCL	0	0	0	0	3619
(b)WBSETCL	0	13	4	17	2705
(c)WBSEDCL	575	1630	0	2205	14734
(d) Durgapur Projects Ltd.	0	0	1519	1519	3063



**TABLE 7.5 (CONTD.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2023 (AS REPORTED)**

REGULAR					
Name of the Board/Undertaking	Technical Trainees and Apprentices	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	8	9	10	11	12
NORTH EASTERN REGION					
(27)Arunachal Pradesh	0	2786	6148	8934	9995
(28)Assam					
(a)APGCL	0	141	121	262	961
(b)APDCL	0	460	456	916	9577
(c)AEGCL	0	430	209	639	2111
(29)Meghalaya					
(a) MPGCL	0	0	33	33	173
(b) MECL	0	0	1743	1743	4564
(30)Mizoram	0	1998	2366	4364	5630
(31)Manipur					
(a) Manipur SPCL	0	0	0	0	1383
(b) Manipur SPDCL	NA	NA	NA	NA	NA
(32)Nagaland	0	2052	0	2052	4914
(35)Tripura State Electricity Corpn. Ltd.	0	0	174	174	3694
Total	14573	72796	115951	203340	863181

N.A:- Information not available.



TABLE 7.5 (A)
MANPOWER ENGAGED IN CENTRAL POWER CORPORATIONS/ UNDERTAKINGS
2022-23

Name of the Power Corporation	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Operating Staff	Non- Technical	Total (Regular) (2to6)
1	2	3	4	5	6	7
NTPC	498	10611	NA	NA	6052	17161
NTPC JVs	54	1477	NA	NA	236	1767
NHPC	248	2180	293	742	1313	4776
NPCIL	460	3126	1872	3309	1885	10652
PGCIL	425	3229	1884	1393	1397	8328
NHDC	16	202	17	18	235	488
NLC	275	607	157	835	217	2091
NTPL	47	88	5	22	23	185
NEEPCO	67	442	204	644	159	1516
SJVNL	12	166	115	128	63	484
THDC	199	360	263	520	221	1563
ONGC Tripura PCL	18	16	0	0	10	44
DVC	93	1810	1345	1005	1363	5616
BBMB	Details not available					5717

TABLE 7.5 (A) (CONTD.)
MANPOWER ENGAGED IN CENTRAL POWER CORPORATIONS/ UNDERTAKINGS
2020-21

Name of the Power Corporation	Technical Trainees and Apprentises	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	8	9	10	11	12
NTPC	0	0	0	0	17161
NTPC JVs	0	0	0	0	1767
NHPC	0	0	0	0	4776
NPCIL	0	358	0	358	11010
PGCIL	208	0	0	208	8536
NHDC	0	0	0	0	488
NLC	155	2498	1242	3895	5986
NTPL	45	1525	0	1570	1755
NEEPCO	0	263	0	263	1779
SJVNL	0	0	0	0	484
THDC	0	0	0	0	1563
ONGC Tripura PCL	0	0	0	0	44
DVC	917	942	0	1859	7475
BBMB	Details Not Available				5717



TABLE 7.6
PLANT LOAD FACTOR OF THERMAL/ NUCLEAR
ELECTRICITY GENERATING PLANTS STATE-WISE
2022-23

State/UTs	Central Sector Thermal	Nuclear	State Sector Thermal	Private Sector Thermal
NORTHERN REGION				
Chandigarh	-	-	-	-
Delhi	-	-	-	-
Haryana	62.92	-	71.51	70.45
Himachal Pradesh	-	-	-	-
UT of J&K and Ladakh	-	-	-	-
Punjab	-	-	48.32	70.06
Rajasthan	78.36	63.73	55.47	77.08
Uttar Pradesh	75.61	82.83	65.22	68.61
Uttarnanchal	-	-	-	-
WESTERN REGION				
Chhattisgarh	85.33	-	71.18	58.50
Gujarat	-	94.44	51.40	30.95
Madhya Pradesh	77.33	-	57.82	72.33
Maharashtra	64.58	73.27	61.91	55.75
Daman & Diu	-	-	-	-
D. & N. Haveli	-	-	-	-
Goa	-	-	-	-
SOUTHERN REGION				
Andhra Pradesh	72.15	-	59.97	54.77
Telangana	70.51	-	75.51	-
Karnataka	53.89	96.56	41.88	29.18
Kerala	-	-	-	-
Tamil Nadu	69.27	74.91	59.96	22.71
Puducherry	-	-	-	-
Lakshadweep	-	-	-	-
EASTERN REGION				
Bihar	75.92	-	-	-
Jharkhand	81.51	-	70.27	80.12
Orissa	85.72	-	76.92	65.16
West Bengal	68.75	-	82.02	68.01
Sikkim	-	-	-	-
A. & N. Islands	-	-	-	-
NORTH-EASTERN REGION				
Arunachal Pradesh	-	-	-	-
Assam	76.50	-	-	-
Manipur	-	-	-	-
Meghalaya	-	-	-	-
Mizoram	-	-	-	-
Nagaland	-	-	-	-
Tripura	-	-	-	-
Total (All India)	74.67	77.22	61.86	56.18



TABLE 7.7
COAL CONSUMPTION IN THERMAL POWER PLANTS
2022-23

QUANTITY(IN 000 Tonne)

Name of State	Annual Coal Allocation From CIL/ SCCL	ACTUAL RECEIPT					Consumption
		CIL/SCCL	Other Source	Import	Total	% of	
	QTY	QTY	QTY	QTY	QTY	2	Qty
1	2	3	4	5	6	7	8
Haryana	19573	15514	0	1284	16798	86	16287
Punjab	18503	20057	874	397	21328	115	20637
Rajasthan	26362	21285	8988	1488	31761	120	31151
Uttar Pradesh	51176	51213	79	0	51292	100	49853
Central Sector	50151	45473	4154	3783	53410	106	53703
Sub-Total (NR)	165765	153542	14096	6952	174589	105	171631
Chhattisgarh	40669	41284	22654	1157	65095	160	64243
Gujarat	26502	14940	0	12621	27561	104	27476
Madhya Pradesh	31190	27836	23872	474	52181	167	50732
Maharashtra	71919	68153	1220	6473	75847	105	74347
Central Sector	80128	77894	6946	5532	90371	113	89693
Sub-Total (WR)	250408	230108	54692	26257	311056	124	306491
Andhra Pradesh	38969	29944	0	5258	35202	90	34681
Telangana	2460	22297	0	0	22297	906	21696
Karnataka	15665	12511	1634	2295	16439	105	16157
Tamil Nadu	24505	19675	85	4742	24503	100	23412
Central Sector	34573	31758	3855	4456	40068	116	39245
Sub-Total (SR)	116172	116184	5573	16751	138509	119	135191
Jharkhand	8276	9723	422	31	10176	123	9824
Odisha	9574	12326	8944	236	21506	225	22037
West Bengal	7030	12445	18233	60	30738	437	30977
Central Sector	82635	78957	13435	5206	97598	118	97652
Sub-Total (ER)	107515	113451	41033	5534	160018	149	160490
Central Sector	2571	2178	796	141	3115	121	2988
Sub-Total (NER)	2571	2178	796	141	3115	121	2988
TOTAL ALL India	642431	615463	116189	55635	787287	123	776790

Note: CIL- Coal India Limited, SCCL-Singareni Collieries Company Limited



CHAPTER 8

ELECTRICITY TRANSMISSION AND DISTRIBUTION SYSTEM







CHAPTER 8

ELECTRICITY TRANSMISSION AND DISTRIBUTION SYSTEM

Electric power transmission is the bulk movement of electrical energy from a generating site such as a power plant to an electrical substation close to the location of beneficiary of the plant / consumers. The interconnected lines which facilitate this movement are known as a transmission network. The interconnected lines which facilitate the distribution of electrical energy at lower voltages to consumers are known as distribution network.

Electric power may flow through several substations interconnecting the transmission & distribution lines at different voltage levels. A substation may include transformers to transform voltage from low to high (Step Up Transformers), high to low (Step Down Transformers) and high to low at distribution level (Distribution Transformers).

I. TRANSMISSION AND DISTRIBUTION

An extensive network of Transmission and Distribution lines has been developed over the years for evacuating power produced by different electricity 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 ± 800 kV, ± 500 kV HVDC & 765 kV, 400 kV, 230/220 kV, 132/110 kV and 66 kV AC lines. All these lines have been installed by Generation/ Transmission/ Distribution Utilities including Central Sector Organizations and State/UT Electricity Departments.

The standard voltage of operation on the distribution side are 33 kV, 22 kV, 11 kV, 400/230 Volts besides 6.6 kV, 3.3 kV and 2.2 kV.

The State of Uttar Pradesh has the largest Transmission and Distribution network of 1656025 Ckt. Kms in the country. Apart from Uttar Pradesh the States of Rajasthan, Maharashtra, Madhya Pradesh, Karnataka have more than 1 crore Ckt. Kms. of T&D Lines.

The following table depicts the length of lines operating at various voltages as on 31.03.2023 in the country with percentage increase over previous year:

Sl. No	Voltages	Length of Lines (Ckt. kms.)		
		31.03.23	31.03.22	% Growth
A	Transmission Lines			
1	±800 kV HVDC	9656	9656	0.00
2	±500 kV HVDC	9432	9432	0.00
3	± 320 KV HVDC	330	330	0.00
4	765kV	52573	48743	7.86
5	400 kV	197726	195318	1.23
6	230/220 kV	207776	193762	7.23
7	132/110/90 kV	236593	223522	5.85
8	78/66 kV	76669	73868	3.79
9	33/22/20 kV	543826	529906	2.63
10	15/11 kV	4871967	4680074	4.10
11	6.6/4.4/3.3/2.2 kV	36853	47819	-22.93
	Total (A)	6243402	6012430	3.84
B	Distribution lines			
12	Up to 500 volts	8180237	7967560	2.67
	Total (B)	8180237	7967560	2.67
	Total (All India) (A+B)	14423639	13979990	3.17

II. TRANSFORMERS

The total number of step-up transformers installed at various electricity generating stations and sub-stations in the country as on 31st March, 2023 were 6484 having aggregate capacity of 376579.48 MVA. The total numbers of step-down and distribution transformers were 111508 and 16274788 with aggregate capacity of 2363951.85 MVA and 834693.39 MVA respectively.



TABLE NO.8.1
STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES
31.03.2023

(Ckt.Kms.)

Name of the State/Uts	HVDC			765 KV	400 KV	230 KV	220 KV	132 KV	110/90
	± 800 KV	± 500 KV	± 320 KV	(O.H.)	(O.H.)	(O.H.)	(O.H.)	(O.H.)	KV (O.H.)
NORTHERN REGION									
Chandigarh	0	0	0	0	0	1649	54	0	0
Delhi	0	0	0	0	249	0	915	0	0
Haryana	0	0	0	0	1562	0	6591	5320	0
Himachal Pradesh	0	0	0	0	221	0	1409	1823	0
UT of J&K and Ladakh	0	0	0	0	561	0	1042	2348	0
Punjab	0	0	0	0	2236	0	7925	3109	0
Rajasthan	0	1980	0	1198	8446	0	16987	18799	0
Uttar Pradesh	0	0	0	3179	8240	0	15239	27508	0
Uttarakhand	0	0	0	0	447	0	1328	1992	0
Central Sector(NR)	6083	3210	0	10542	30332	0	8159	490	0
Sub-Total (NR)	6083	5190	0	14919	52295	1649	59651	61388	0
WESTERN REGION									
Chhattisgarh	0	0	0	1284	4058	41	4033	7558	0
Gujarat	0	0	0	1236	7435	0	20847	6485	0
Madhya Pradesh	0	0	0	1831	6088	0	14623	21752	0
Maharashtra	0	1504	0	2272	13929	0	19982	18347	2795
Daman & Diu and Dadra & Nagar Haveli	0	0	0	0	0	0	37	0	0
Goa	0	0	0	0	0	0	221	0	305
Central Sector(WR)	0	0	0	17565	29562	0	1683	318	0
Sub-Total (WR)	0	1504	0	24187	61073	41	61426	54459	3100
SOUTHERN REGION									
Andhra Pradesh	0	0	0	0	5604	0	12525	13878	0
Telangana	0	0	0	0	6833	0	9314	12179	0
Karnataka	0	0	0	896	3980	0	12701	0	11855
Kerala	0	0	0	0	1333	0	3613	0	5465
Tamil Nadu	0	0	0	931	4897	12581	0	0	20725
Puducherry	0	0	0	0	0	266	0	42	290
Lakshadweep	0	0	0	0	0	0	0	0	0
Central Sector(SR)	3530	2738	330	6794	24093	41	1001	0	0
Sub-Total (SR)	3530	2738	330	8621	46738	12888	39155	26100	38334
EASTERN REGION									
Bihar	0	0	0	0	1246	0	5859	13136	0
Jharkhand	0	0	0	0	1031	0	2022	3677	0
Odisha	0	0	0	305	2800	0	12878	11996	0
West Bengal	0	0	0	0	3179	0	3983	9724	0
Sikkim	0	0	0	0	522	0	30	55	0
A. & N. Islands	0	0	0	0	0	0	0	0	0
Central Sector(ER)	43	0	0	4541	22197	0	4629	4563	0
Sub-Total (ER)	43	0	0	4846	30974	0	29401	43150	0
NORTH EASTERN REGION									
Arunachal Pradesh	0	0	0	0	0	0	19	341	0
Assam	0	0	0	0	1279	0	2669	3948	0
Manipur	0	0	0	0	90	0	0	777	0
Meghalaya	0	0	0	0	2	0	227	975	0
Mizoram	0	0	0	0	0	0	0	870	0
Nagaland	0	0	0	0	508	0	0	348	0
Tripura	0	0	0	0	1007	0	0	616	0
Central Sector(NER)	0	0	0	0	3758	0	649	2187	0
Sub-Total (NER)	0	0	0	0	6645	0	3564	10062	0
Total Central Sector	9656	5948	330	39441	109942	41	16121	7558	0
Total (All India)	9656	9432	330	52573	197726	14578	193198	195160	41434



TABLE NO.8.1(CONTD.)
STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES
31.03.2023

(Ckt. Kms.)

Name of the State/Uts	78/66 KV	33KV		22/20KV		15/11KV	
	(O.H.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)
NORTHERN REGION							
Chandigarh	136	22	1	0	0	550	368
Delhi	1507	420	1359	0	0	5788	12086
Haryana	3695	8122	0	0	0	148180	0
Himachal Pradesh	769	3833	0	8196	0	25457	0
UT of J&K and Ladakh	612	5166	0	40	0	43383	0
Punjab	11275	71	0	0	0	252006	0
Rajasthan	303	58753	209	0	0	652996	1591
Uttar Pradesh	3264	47971	818	0	0	366336	948
Uttarakhand	205	6058	0	0	0	47509	0
Central Sector(NR)	127	119	2	71	4	41	4
Sub-Total (NR)	21893	130535	2389	8307	4	1542245	14996
WESTERN REGION							
Chhattisgarh	0	24503	1	0	0	130039	5
Gujarat	38419	632	31	903	790	463951	17557
Madhya Pradesh	0	62904	0	0	0	491303	0
Maharashtra	314	49779	3048	32246	6118	345355	11295
Daman & Diu and Dadra & Nagar Haveli	279	0	0	0	0	987	283
Goa	0	2068	0	0	0	5595	0
Central Sector(WR)	0	0	32	0	0	13	0
Sub-Total (WR)	39012	139887	3112	33149	6908	1437244	29140
SOUTHERN REGION							
Andhra Pradesh	169	29540	0	0	0	274939	0
Telangana	0	26522	1321	0	0	196814	1007
Karnataka	12176	7572	132	44	0	412993	13913
Kerala	1542	2356	0	153	0	67897	159
Tamil Nadu	83	8219	1414	49785	358	131801	5514
Puducherry	0	19	0	1801	0	459	0
Lakshadweep	0	0	0	0	0	0	103
Central Sector(SR)	0	0	0	0	0	0	0
Sub-Total (SR)	13970	74228	2867	51782	358	1084903	20695
EASTERN REGION							
Bihar	0	18261	319	0	0	137936	427
Jharkhand	0	12103	243	0	0	75493	348
Orissa	0	16515	0	0	0	175122	0
West Bengal	333	17326	2518	0	50	175506	9298
Sikkim	413	0	0	0	0	3204	110
A.& N. Islands	0	482	0	0	0	757	0
Central Sector(ER)	37	1528	0	0	0	11	19
Sub-Total (ER)	783	66214	3079	0	50	568030	10202
NORTH EASTERN REGION							
Arunachal Pradesh	0	4478	0	0	0	19917	0
Assam	18	8501	1	0	0	86376	0
Manipur	0	1717	0	0	0	7797	88
Meghalaya	0	1775	0	0	0	19715	0
Mizoram	111	1509	0	0	0	5641	0
Nagaland	474	2066	0	0	0	5529	0
Tripura	408	911	0	0	0	19449	0
Central Sector(NER)	0	0	0	0	0	0	0
Sub-Total (NER)	1011	20957	1	0	0	164424	88
Total Central Sector	164	1647	34	71	4	65	23
Total (All India)	76669	431821	11448	93237	7320	4796846	75121



TABLE NO.8.1(CONTD.)
STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES
31.03.2023

(Ckt. Kms.)

Name of the State/Uts	6.6/4.4KV		3.3/2.2KV		Distribution lines upto 500 volts	Total
	(O.H.)	(U.G.)	(O.H.)	(U.G.)		
NORTHERN REGION						
Chandigarh	0	0	0	0	3298	6077
Delhi	0	0	0	0	34513	56837
Haryana	0	0	0	0	128321	301791
Himachal Pradesh	0	0	62	0	69068	110838
UT of J&K and Ladakh	1268	0	0	0	107296	161717
Punjab	0	0	0	0	152359	428982
Rajasthan	0	0	0	0	555131	1316394
Uttar Pradesh	0	0	0	0	1182336	1655840
Uttarakhand	0	0	0	0	73599	131138
Central Sector(NR)	0	1	0	0	55	59239
Sub-Total (NR)	1268	1	62	0	2305976	4228852
WESTERN REGION						
Chhattisgarh	8	0	0	0	224723	396253
Gujarat	0	0	0	0	347593	905879
Madhya Pradesh	18	5	0	0	512993	1111517
Maharashtra	0	104	0	0	737785	1244874
D. & N. Haveli	0	0	0	0	2562	4149
Goa	0	0	0	0	16219	24409
Central Sector(WR)	12	4	0	0	0	49189
Sub-Total (WR)	38	113	0	0	1841876	3736269
SOUTHERN REGION						
Andhra Pradesh	22155	14	0	0	332860	691684
Telangana	12210	0	0	0	427394	693594
Karnataka	0	0	0	0	618525	1094786
Kerala	0	0	20	0	302949	385487
Tamil Nadu	0	19	0	0	641758	878082
Puducherry	0	0	0	0	4255	7131
Lakshadweep	0	0	0	0	440	543
Central Sector(SR)	0	0	0	0	0	38527
Sub-Total (SR)	34365	33	20	0	2328181	3789834
EASTERN REGION						
Bihar	0	0	0	0	537258	714442
Jharkhand	913	0	3	0	158892	254725
Orissa	0	0	0	0	223308	442923
West Bengal	0	0	15	22	379953	601906
Sikkim	0	0	0	0	5215	9550
A. & N. Islands	0	0	0	0	3325	4563
Central Sector(ER)	0	0	0	0	0	37568
Sub-Total (ER)	913	0	19	22	1307951	2065677
NORTH EASTERN REGION						
Arunachal Pradesh	0	0	0	0	14663	39418
Assam	0	0	0	0	281372	384165
Manipur	0	0	0	0	19406	29875
Meghalaya	0	0	0	0	36155	58849
Mizoram	0	0	0	0	3452	11583
Nagaland	0	0	0	0	7775	16700
Tripura	0	0	0	0	33430	55821
Central Sector(NER)	0	0	0	0	0	6595
Sub-Total (NER)	0	0	0	0	396253	603007
Total Central Sector	12	5	0	0	55	191117
Total (All India)	36584	146	101	22	8180237	14423639



TABLE 8.2
NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY STATEWISE
UTILITIES
31.03.2023

Name of the State/U.Ts.	STEP UP		STEP DOWN	
	Nos.	Capacity(KVA)	Nos.	Capacity(KVA)
NORTHERN REGION				
Chandigarh	0	0	56	1116000
Delhi	18	2210200	920	37553500
Haryana	13	4670000	2686	68207431.32
Himachal Pradesh	142	5187668	912	7752798
UT of J&K and Ladakh	63	1471252	1231	10859102
Punjab	112	6214927	2122	66713987
Rajasthan	280	12309426	11431	131622550
Uttar Pradesh	154	18129692	8240	293961500.5
Uttarakhand	83	2849093	923	14920922
Central Sector(NR)	401	36569310	787	192826208
Sub-Total (NR)	1266	89611568	29308	825533998.8
WESTERN REGION				
Chhattisgarh	84	17378800	2748	34709460
Gujarat	412	31864902	16804	180390998
Madhya Pradesh	509	18358714	8767	121262230
Maharashtra	605	30789030	8971	189119400
Daman & Diu and Dadra & Nagar Haveli	0	0	94	3369000
Goa	2	106000	157	2891900
Central Sector(WR)	223	32111700	513	154716388
Sub-Total (WR)	1835	130609146	38054	686459376
SOUTHERN REGION				
New Andhra	299	17251530	6317	95782994
Telangana	104	9674200	12477	116467150
Karnataka	451	17326770	4742	97647700
Kerala	129	3053561	1233	25844000
Tamil Nadu	341	12765962	4617	107706430
Puducherry	2	240000	54	1484000
Lakshadweep	27	25250	0	0
Central Sector(SR)	487	30038150	535	96028850
Sub-Total (SR)	1840	90375423	29975	540961124
EASTERN REGION				
Bihar	14	71000	3415	51320300
Jharkhand	14	4855600	1555	20106880
Odisha	963	10375350	3144	39777396
West Bengal	80	9629100	3041	65499910
Sikkim	40	4707430	52	405000
A. & N. Islands	8	65000	13	56900
Central Sector(ER)	175	28360850	695	98275050
Sub-Total (ER)	1294	58064330	11915	275441436
NORTH EASTERN REGION				
Arunachal Pradesh	39	20031	185	609465
Assam	27	669000	793	11629755
Manipur	4	50000	261	2082210
Meghalaya	50	883800	486	6712840
Mizoram	20	63239	120	618400
Nagaland	12	32330	128	562100
Tripura	11	927640	162	1526100
Central Sector(NER)	86	5272970	121	11815050
Sub-Total (NER)	249	7919010	2256	35555920
Total Central Sector	1372	132352980	2651	553661546
Total (All India)	6484	376579476	111508	2363951855



TABLE 8.2(CONTD.)
NUMBER OF TRANSFORMERS AND THEIR AGGREGATECAPACITY STATEWISE
UTILITIES
31.03.2023

Name of the State/U.Ts.	DISTRIBUTION	
	Nos.	Capacity(KVA)
NORTHERN REGION		
Chandigarh	2389	781683
Delhi	85303	16729396
Haryana	661329	33016573
Himachal Pradesh	36185	3516773
UT of J&K and Ladakh	109323	13065658
Punjab	1200340	40534923
Rajasthan	2186602	56699401
Uttar Pradesh	957309	46314006
Uttarakhand	87441	8548166
Central Sector(NR)	1118	10796080
Sub-Total (NR)	5327339	230002659
WESTERN REGION		
Chhattisgarh	217697	13203558
Gujarat	1880746	68455796
Madhya Pradesh	1015742	54182052
Maharashtra	867334	84295465
Daman & Diu and Dadra & Nagar Haveli	974	280495
Goa	7479	1393594
Central Sector(WR)	600	936131
Sub-Total (WR)	3990572	222747091
SOUTHERN REGION		
New Andhra	1342518	43495287
Telangana	1637986	75418948
Karnataka	2225088	119907522
Kerala	88433	10986989
Tamil Nadu	389071	49090287
Puducherry	3332	1350251
Lakshadweep	110	17323
Central Sector(SR)	765	883525
Sub-Total (SR)	5687303	301150132
EASTERN REGION		
Bihar	335638	22737067
Jharkhand	135533	9165449
Orissa	283834	14644207
West Bengal	348333	20248380
Sikkim	2934	392410
A. & N. Islands	1027	185475
Central Sector(ER)	1032	1587990
Sub-Total (ER)	1108331	68960978.44
NORTH EASTERN REGION		
Arunachal Pradesh	8892	448648
Assam	89265	6367352
Manipur	9576	903000
Meghalaya	30246	2139312
Mizoram	2705	326167
Nagaland	3626	327391
Tripura	16862	1236830
Central Sector(NER)	71	83830
Sub-Total (NER)	161243	11832530
Total Central Sector	3586	14287556
Total (All India)	16274788	834693391



CHAPTER 9

ELECTRICITY UTILISATION





CHAPTER 9

ELECTRICITY UTILIZATION

I. ELECTRICAL ENERGY CONSUMPTION

- Electricity consumption by various categories of consumers served by utilities during the year 2022-23 was 1264102.81 GWh registering an increase of 10.74% over previous year.
- During the year 2022-23, the major portion of electricity viz. 1152045.89 GWh representing 91.14% of the total energy consumption was distributed by the Public Sector and remaining 8.86% was distributed by the private sector (including Cooperatives Societies).
- Out of 91.14% of energy distributed by the Public Sector, the Municipalities distributed 0.46% and the Electricity Departments of the States and Union Territories and State Govt. distribution companies distributed balance 90.67%.
- The five major private licensees viz. TATA Electric Companies, Calcutta Electric Supply Corporation (CESC), Torrent Power Ltd., Adani Electricity Mumbai Limited and BSES Ltd. distributed 3.55%, 0.8%, 0.94%, 0.72% and 1.68% adding up 7.70% only and the balance of 1.16% of total energy was distributed by Rural Co-operative Societies and other private licensees to its consumers respectively.
- The details of energy sold by various agencies during 2022-23 are tabulated below: -

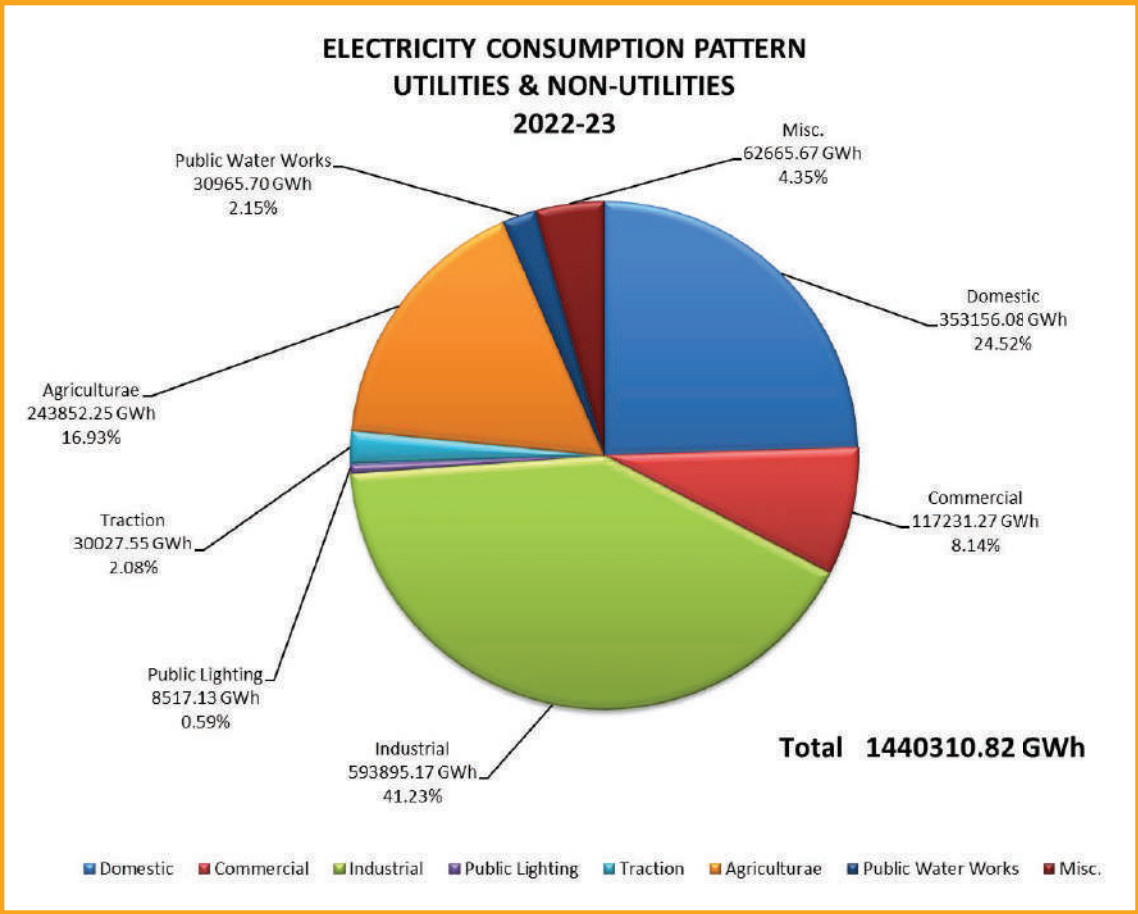
Sl. No	Agency	Electrical Energy Sold to Ultimate Consumers		
		Quantum (GWh)	% of total Consumption	% increase over 2021-22
1.	Elect. Deptts. of State & UTs/State Govt. Distribution Companies	1146216.50	90.67	11.33
2.	Municipalities	5829.38	0.46	12.18
3.	Private Licensees (including Coop. Societies)	112056.92	8.86	4.97
	Total	1264102.81	100.00	10.74



- Data prior to FY 2021-22 includes demand of 1MW and above regarding energy consumed by various classes of consumers.
- The Industrial category of consumers, as usual consumed highest energy i.e 33.04% of total energy sold by Utilities as compared to 33.40% during 2021-22. The energy sales to Industrial consumers registered an increase of 9.57% over the previous year.
- Domestic consumers, the second largest category amongst the consumers consumed 27.94% of total energy sales as compared to 29.77% during the previous year. The consumption of energy under this Sector increased by 3.94% over the previous year.
- Agricultural consumers, the third largest category amongst the consumers consumed 19.29% of total energy sales as compared to 20.01% during the previous year. The consumption of energy under this Sector increased by 6.74% over the previous year.
- The electricity consumption in the Commercial category during the year was 117231.27 GWh registering a growth of 20.71% while the electricity consumption in the Public Lighting category was 8517 GWh.
- There is overall increase of 10.74% in total energy consumption over the previous year.

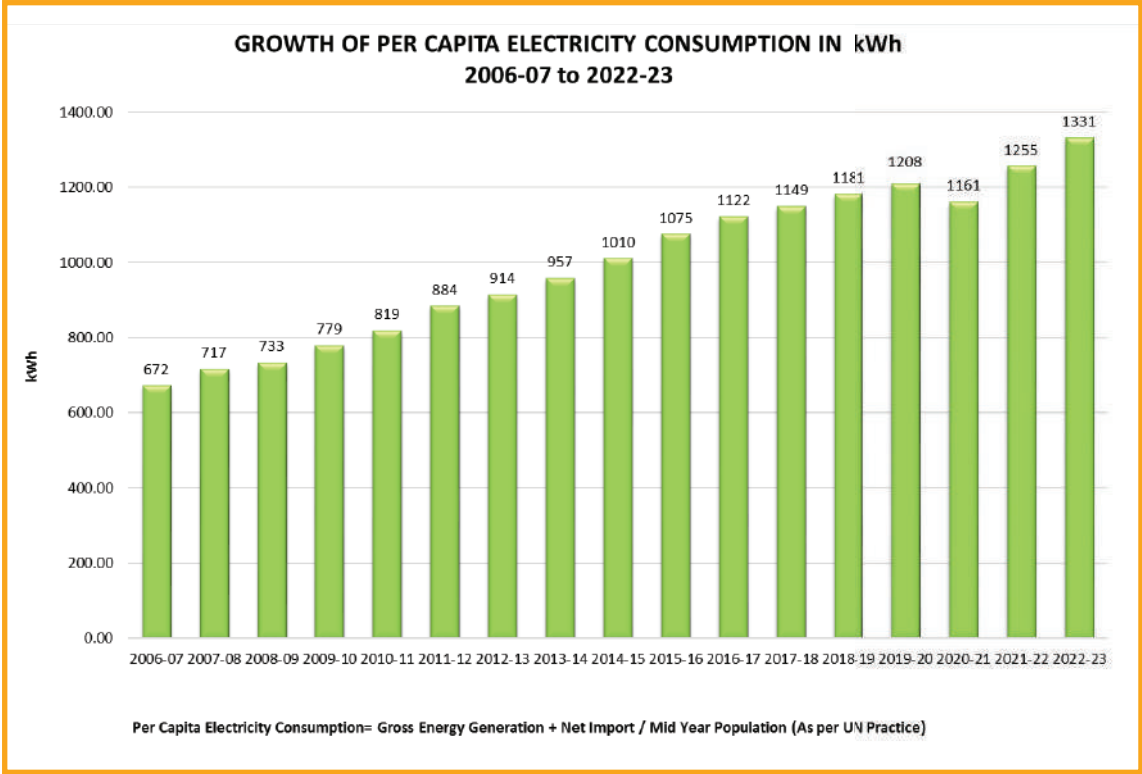
II ELECTRICITY CONSUMPTION PATTERN (UTILITIES & NON-UTILITIES)

- Over the past few years, spurt of industrial growth has been witnessed in shaping the national economy. Electricity has been playing a pivotal role in the development of industrialization of the country.
- The total electricity consumed including utilities and non-utilities during the year 2022-23 was 1440310.82 GWh as compared to 1316764.73 GWh during the year 2021-22 registering growth of 9.38% over the previous year.
- The share of total Domestic consumption was 24.52% during the year 2022-23 as compared to 25.80% during the year 2021-22 and registered a growth of 3.94% over the previous year.
- The share of Traction consumption was 2.08% during the year 2022-23 as compared to 1.67% during the year 2021-22 and registered a growth of 36.89% over the previous year.
- The share of Industrial consumption was 41.23% during the year 2022-23 as compared to 42.26% during the year 2021-22 and registered a growth of 6.72% over the previous year.



III. PER CAPITA ELECTRICITY CONSUMPTION

The per capita consumption of electricity on All India basis works out to 1331 kWh for the year 2022-23 against 1255 kWh in the year 2021-22. Per Capita Electricity Consumption is worked out as the total gross electrical energy consumed divided by Mid-Year Population during the year. The details are shown in **Table 9.9**.



IV. ELECTRICAL ACCIDENTS

To the extent of information made available for the year 2022-23, the total number of electrical accidents reported was 14318 which comprised 6154 human fatal accidents, 2398 human non-fatal accidents, 5728 animal fatal accidents and 38 animal non-fatal accidents. The details of electrical accidents are displayed in **Table 9.10**.



GROWTH OF CATEGORY-WISE ELECTRICITY CONSUMPTION
UTILITIES
2020-21 to 2022-23





TABLE 9.1
ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE
(UTILITIES)
2022-23

Category	Energy Sold During 2022-23 (GWh)	% of Total Energy Sold in 2022-23	Energy Sold During 2021-22 (GWh)	% of Total Energy Sold in 2021-22	% Increase in Sale over Previous Year 2021-22
Domestic	353156.08	27.94	339780.47	29.77	3.94
Commercial	117231.27	9.27	97121.34	8.51	20.71
Industrial Power	417687.16	33.04	381201.20	33.40	9.57
Public Lighting	8517.13	0.67	9479.51	0.83	-10.15
Railway/ Tramways	30027.55	2.38	21934.82	1.92	36.89
Agriculture	243852.25	19.29	228451.47	20.01	6.74
Public Water Works & Sewage Pumping	30965.70	2.45	26488.66	2.32	16.90
Miscellaneous	62665.67	4.96	37027.50	3.24	69.24
Total	1264102.81	100.00	1141484.97	100.00	10.74

TABLE 9.1(A)
ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE
(UTILITIES & NON-UTILITIES)
2022-23

Category	Energy Sold During 2022-23 (GWh)	% of Total Energy Sold in 2022-23	Energy Sold During 2021-22 (GWh)	% of Total Energy Sold in 2021-22	% Increase in Sale over Previous Year 2021-22
Domestic	353156.08	24.52	339780.47	25.80	3.94
Commercial	117231.27	8.14	97121.34	7.38	20.71
Industrial Power	593895.17	41.23	556480.96	42.26	6.72
Public Lighting	8517.13	0.59	9479.51	0.72	-10.15
Railways/ Tramways	30027.55	2.08	21934.82	1.67	36.89
Agriculture	243852.25	16.93	228451.47	17.35	6.74
Public Water Works & Sewage Pumping	30965.70	2.15	26488.66	2.01	16.90
Miscellaneous	62665.67	4.35	37027.50	2.81	69.24
Total	1440310.82	100.00	1316764.73	100.00	9.38



TTABLE 9.2
ALL INDIA ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS
OWNERSHIP-WISE/STATE-WISE
(UTILITIES)
2022-23

(GWh)

State / UTs	Municipalities	Govt. Deptts./ Undertakings/ Corporations	Private Sector	Total
Chandigarh	0.00	1645.90	0.00	1645.90
Delhi	1190.25	346.79	32569.72	34106.76
Haryana	0.00	55241.24	0.00	55241.24
Himachal Pradesh	0.00	10958.15	18.27	10976.42
UT of J&K and Ladakh	0.00	9769.16	0.00	9769.16
Punjab	0.00	58532.41	0.00	58532.41
Rajasthan	0.00	79599.26	15.63	79614.89
Uttar Pradesh	0.00	112805.05	2870.00	115675.05
Uttarakhand	0.00	13508.87	0.13	13509.00
Sub-Total (NR)	1190.25	342406.83	35473.75	379070.83
Chhattisgarh	0.00	29132.91	1343.83	30476.74
Gujarat	0.00	108310.55	15790.24	124100.79
Madhya Pradesh	0.00	70411.55	10.94	70422.49
Maharashtra	4490.77	136509.10	14517.71	155517.58
DNH & DD	0.00	9334.76	0.00	9334.76
Goa	0.00	4508.32	0.00	4508.32
Sub-Total (WR)	4490.77	358207.20	31662.72	394360.69
Andhra Pradesh	0.00	62578.27	334.28	62912.55
Telangana	0.00	67023.50	804.88	67828.38
Karnataka	0.00	66065.22	291.29	66356.51
Kerala	148.36	24511.88	245.64	24905.88
Tamil Nadu	0.00	103677.09	1.72	103678.81
Puducherry	0.00	2908.30	0.00	2908.30
Lakshadweep	0.00	51.74	0.00	51.74
Sub-Total (SR)	148.36	326815.99	1677.82	328642.17
Bihar	0.00	30337.85	0.00	30337.85
Jharkhand	0.00	22397.27	4010.49	26407.77
Odisha	0.00	2243.83	28205.58	30449.41
West Bengal	0.00	47552.39	11026.57	58578.95
Sikkim	0.00	485.77	0.00	485.77
A. & N. Islands	0.00	284.00	0.00	284.00
Sub-Total (ER)	0.00	103301.11	43242.64	146543.75
Arunachal Pradesh	0.00	582.49	0.00	582.49
Assam	0.00	10003.55	0.00	10003.55
Manipur	0.00	845.41	0.00	845.41
Meghalaya	0.00	1718.90	0.00	1718.90
Mizoram	0.00	493.58	0.00	493.58
Nagaland	0.00	687.43	0.00	687.43
Tripura	0.00	1154.02	0.00	1154.02
Sub-Total (NER)	0.00	15485.37	0.00	15485.37
Total (All India)	5829.38	1146216.50	112056.92	1264102.81



TABLE 9.3
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE
UTILITIES
2022-23

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	792.21	462.30	114.59	109.56	17.60
Delhi	18157.53	7842.22	2805.40	299.24	305.39
Haryana	15324.86	4451.29	10518.81	8814.52	161.68
Himachal Pradesh	2619.82	710.04	106.68	6294.52	11.30
UT of J&K and Ladakh	4506.16	1218.80	278.40	1307.08	124.82
Punjab	17518.84	4343.23	920.76	18758.14	159.44
Rajasthan	14880.38	5240.47	3264.15	18119.59	331.13
Uttar Pradesh	52257.99	8185.05	2105.39	2800.00	819.92
Uttarakhand	3551.11	1932.41	345.79	6579.14	64.90
Sub-Total (NR)	129608.90	34385.81	20459.98	63081.78	1996.18
Chhattisgarh	6471.19	1855.89	2091.48	11021.12	126.11
Gujarat	17676.61	6872.87	14377.10	59720.47	197.83
Madhya Pradesh	17890.76	4317.03	1533.31	12501.60	431.20
Maharashtra	32773.71	14340.44	13355.03	45607.71	1160.90
DNH & DD	305.87	100.88	525.48	8382.26	6.05
Goa	1368.03	679.11	93.55	2174.70	45.81
Sub-Total (WR)	76486.17	28166.21	31975.95	139407.85	1967.90
Andhra Pradesh	17442.78	5000.13	1587.93	20363.77	417.78
Telangana	13969.65	7306.68	11014.13	6621.16	915.51
Karnataka	14823.41	7304.50	5728.60	9220.01	1234.79
Kerala	12523.44	5978.92	1393.87	3804.01	364.61
Tamil Nadu	30602.22	11475.05	9471.00	30160.99	0.00
Puducherry	790.40	206.64	118.97	1674.25	8.72
Lakshadweep	37.19	13.20	0.45	0.00	0.79
Sub-Total (SR)	90189.08	37285.12	29314.95	71844.19	2942.19
Bihar	16071.83	3382.15	904.88	3473.74	290.91
Jharkhand \$	5411.32	1152.58	771.00	15630.35	206.76
Odisha	7713.94	3073.68	3754.20	11746.07	207.12
West Bengal \$	19882.86	7585.84	2839.81	19172.23	846.40
Sikkim	121.08	45.80	1.75	283.13	0.28
A & N Islands	159.59	63.98	0.00	12.33	5.05
Sub-Total (ER)	49360.62	15304.03	8271.64	50317.85	1556.52
Arunachal Pradesh	236.66	88.30	2.41	216.69	0.00
Assam	4849.05	1535.79	215.48	1476.34	21.64
Manipur	519.37	134.05	25.80	19.00	16.90
Meghalaya	543.52	116.87	5.95	914.11	1.03
Mizoram	309.22	51.95	2.44	10.98	2.48
Nagaland	413.00	90.00	43.00	30.02	0.69
Tripura	640.50	73.13	24.03	26.73	11.59
Sub-Total (NER)	7511.32	2090.09	319.12	2693.86	54.34
Total (All India)	353156.08	117231.27	90341.63	327345.53	8517.13

Note:- \$ -Includes DVC's sales to ultimate consumers in Jharkhand & West Bengal area



TABLE 9.3 (CONTD.)
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE
UTILITIES
2022-23

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	3.13	1.58	20.46	124.48	1645.90
Delhi	257.94	39.97	670.96	3728.11	34106.76
Haryana	1604.56	10204.06	1391.25	2770.22	55241.24
Himachal Pradesh	2.02	90.93	738.87	402.24	10976.42
UT of J&K and Ladakh	81.50	358.24	697.85	1196.30	9769.16
Punjab	456.39	13805.04	0.00	2570.57	58532.41
Rajasthan	766.34	30734.09	2792.33	3486.41	79614.89
Uttar Pradesh	4449.78	20716.02	2123.44	22217.46	115675.05
Uttarakhand	91.03	418.24	526.38	0.00	13509.00
Sub-Total (NR)	7712.69	76368.16	8961.54	36495.79	379070.83
Chhattisgarh	1322.22	6875.65	713.08	0.00	30476.74
Gujarat	967.61	21511.19	2358.47	418.65	124100.79
Madhya Pradesh	2739.28	27688.95	2079.28	1241.09	70422.49
Maharashtra	3443.33	37480.11	3236.02	4120.33	155517.58
DNH & DD	0.00	7.31	4.33	2.58	9334.76
Goa	4.40	37.14	0.00	105.58	4508.32
Sub-Total (WR)	8476.84	93600.34	8391.19	5888.23	394360.69
Andhra Pradesh	2185.71	9419.91	1438.87	5055.68	62912.55
Telangana	1048.46	22183.58	1160.83	3608.38	67828.38
Karnataka	588.92	21284.08	4730.16	1442.05	66356.51
Kerala	402.89	393.56	0.35	44.23	24905.88
Tamil Nadu	1356.94	14219.07	3103.19	3290.35	103678.81
Puducherry	0.00	58.68	45.94	4.70	2908.30
Lakshadweep	0.00	0.00	0.00	0.11	51.74
Sub-Total (SR)	5582.91	67558.88	10479.34	13445.51	328642.17
Bihar	1528.69	3779.76	905.72	0.17	30337.85
Jharkhand \$	1312.14	148.58	0.00	1775.04	26407.77
Odisha	2240.85	644.34	454.67	614.54	30449.41
West Bengal \$	2982.57	1615.99	1234.69	2418.57	58578.95
Sikkim	0.00	0.00	0.00	33.73	485.77
A & N Islands	0.00	1.51	0.00	41.54	284.00
Sub-Total (ER)	8064.25	6190.18	2595.08	4883.59	146543.75
Arunachal Pradesh	0.39	0.05	8.97	29.01	582.49
Assam	185.59	72.34	187.92	1459.40	10003.55
Manipur	0.12	5.87	82.50	41.80	845.41
Meghalaya	0.06	0.13	44.09	93.13	1718.90
Mizoram	0.50	1.06	95.96	18.99	493.58
Nagaland	0.45	0.02	0.25	110.00	687.43
Tripura	3.75	55.21	118.86	200.22	1154.02
Sub-Total (NER)	190.86	134.69	538.55	1952.55	15485.37
Total (All India)	30027.55	243852.25	30965.70	62665.67	1264102.81



**ELECTRICITY CONSUMPTION PATTERN
UTILITIES & NON-UTILITIES
2022-23**

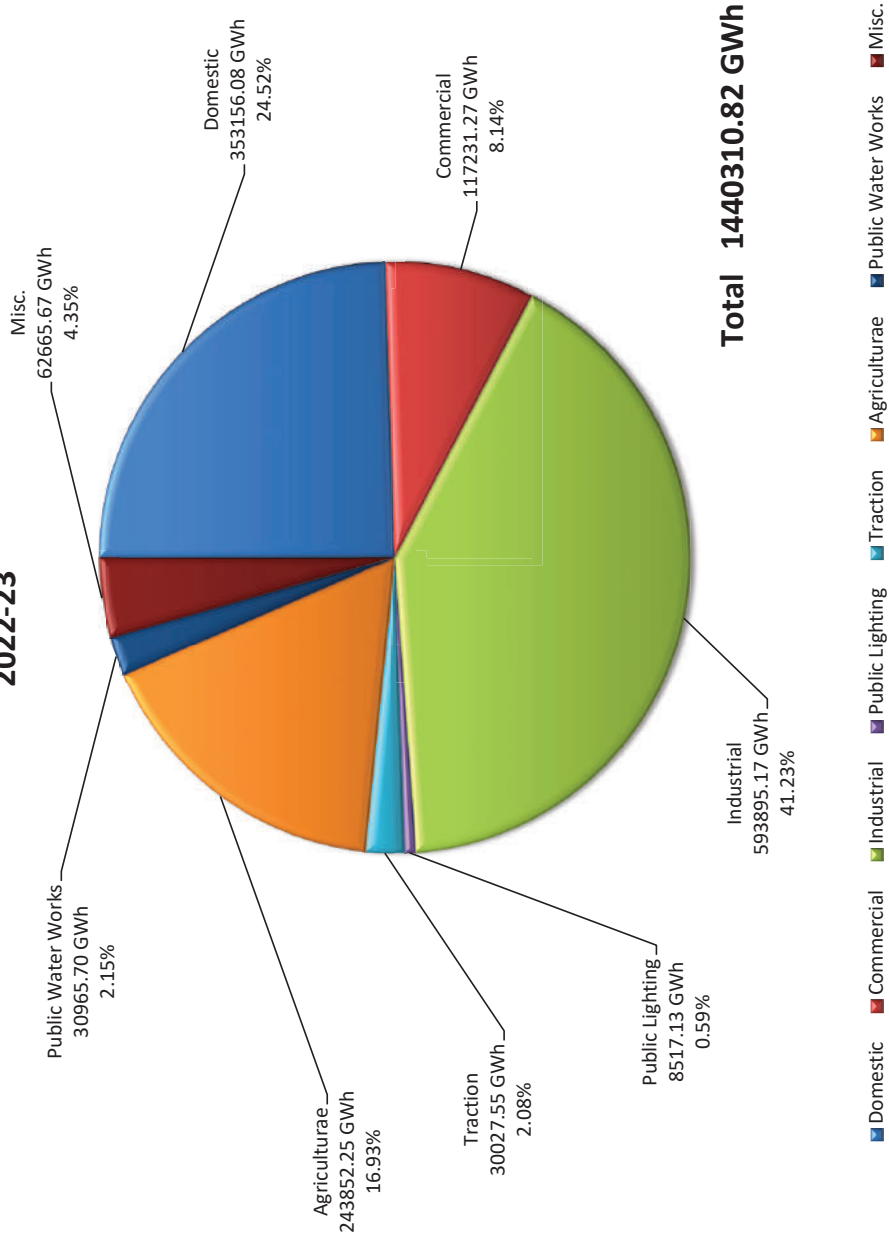




TABLE 9.3 (A)
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE
UTILITIES & NON-UTILITIES
2022-23

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	792.21	462.30	114.59	115.24	17.60
Delhi	18157.53	7842.22	2805.40	313.83	305.39
Haryana	15324.86	4451.29	10518.81	12220.05	161.68
Himachal Pradesh	2619.82	710.04	106.68	6414.49	11.30
UT of J&K and Ladakh	4506.16	1218.80	278.40	1310.09	124.82
Punjab	17518.84	4343.23	920.76	22216.09	159.44
Rajasthan	14880.38	5240.47	3264.15	25491.91	331.13
Uttar Pradesh	52257.99	8185.05	2105.39	14267.67	819.92
Uttarakhand	3551.11	1932.41	345.79	7508.12	64.90
Sub-Total (NR)	129608.90	34385.81	20459.98	89857.48	1996.18
Chhattisgarh	6471.19	1855.89	2091.48	26846.66	126.11
Gujarat	17676.61	6872.87	14377.10	80265.53	197.83
Madhya Pradesh	17890.76	4317.03	1533.31	17472.77	431.20
Maharashtra	32773.71	14340.44	13355.03	57559.20	1160.90
DNH & DD	305.87	100.88	525.48	8407.28	6.05
Goa	1368.03	679.11	93.55	2773.76	45.81
Sub-Total (WR)	76486.17	28166.21	31975.95	193325.20	1967.90
Andhra Pradesh	17442.78	5000.13	1587.93	29081.20	417.78
Telangana	13969.65	7306.68	11014.13	10624.42	915.51
Karnataka	14823.41	7304.50	5728.60	20933.27	1234.79
Kerala	12523.44	5978.92	1393.87	4942.60	364.61
Tamil Nadu	30602.22	11475.05	9471.00	37676.52	0.00
Puducherry	790.40	206.64	118.97	1748.83	8.72
Lakshadweep	37.19	13.20	0.45	0.00	0.79
Sub-Total (SR)	90189.08	37285.12	29314.95	105006.85	2942.19
Bihar	16071.83	3382.15	904.88	4160.68	290.91
Jharkhand \$	5411.32	1152.58	771.00	23405.24	206.76
Odisha	7713.94	3073.68	3754.20	60965.48	207.12
West Bengal \$	19882.86	7585.84	2839.81	22443.32	846.40
Sikkim	121.08	45.80	1.75	288.36	0.28
A & N Islands	159.59	63.98	0.00	12.33	5.05
Sub-Total (ER)	49360.62	15304.03	8271.64	111275.41	1556.52
Arunachal Pradesh	236.66	88.30	2.41	216.69	0.00
Assam	4849.05	1535.79	215.48	2751.22	21.64
Manipur	519.37	134.05	25.80	19.00	16.90
Meghalaya	543.52	116.87	5.95	1033.97	1.03
Mizoram	309.22	51.95	2.44	10.98	2.48
Nagaland	413.00	90.00	43.00	30.02	0.69
Tripura	640.50	73.13	24.03	26.73	11.59
Sub-Total (NER)	7511.32	2090.09	319.12	4088.61	54.34
Total (All India)	353156.08	117231.27	90341.63	503553.54	8517.13

Note:- \$ -Includes DVC's sales to ultimate consumers in Jharkhand & West Bengal area

TABLE 9.3(A) (CONTD.)
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE
UTILITIES & NON-UTILITIES
2022-23

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	3.13	1.58	20.46	124.48	1651.58
Delhi	257.94	39.97	670.96	3728.11	34121.35
Haryana	1604.56	10204.06	1391.25	2770.22	58646.76
Himachal Pradesh	2.02	90.93	738.87	402.24	11096.39
UT of J&K and Ladakh	81.50	358.24	697.85	1196.30	9772.17
Punjab	456.39	13805.04	0.00	2570.57	61990.36
Rajasthan	766.34	30734.09	2792.33	3486.41	86987.21
Uttar Pradesh	4449.78	20716.02	2123.44	22217.46	127142.72
Uttarakhand	91.03	418.24	526.38	0.00	14437.98
Sub-Total (NR)	7712.69	76368.16	8961.54	36495.79	405846.53
Chhattisgarh	1322.22	6875.65	713.08	0.00	46302.28
Gujarat	967.61	21511.19	2358.47	418.65	144645.85
Madhya Pradesh	2739.28	27688.95	2079.28	1241.09	75393.67
Maharashtra	3443.33	37480.11	3236.02	4120.33	167469.07
DNH & DD	0.00	7.31	4.33	2.58	9359.78
Goa	4.40	37.14	0.00	105.58	5107.38
Sub-Total (WR)	8476.84	93600.34	8391.19	5888.23	448278.04
Andhra Pradesh	2185.71	9419.91	1438.87	5055.68	71629.98
Telangana	1048.46	22183.58	1160.83	3608.38	71831.64
Karnataka	588.92	21284.08	4730.16	1442.05	78069.77
Kerala	402.89	393.56	0.35	44.23	26044.48
Tamil Nadu	1356.94	14219.07	3103.19	3290.35	111194.34
Puducherry	0.00	58.68	45.94	4.70	2982.88
Lakshadweep	0.00	0.00	0.00	0.11	51.74
Sub-Total (SR)	5582.91	67558.88	10479.34	13445.51	361804.83
Bihar	1528.69	3779.76	905.72	0.17	31024.79
Jharkhand \$	1312.14	148.58	0.00	1775.04	34182.66
Odisha	2240.85	644.34	454.67	614.54	79668.83
West Bengal \$	2982.57	1615.99	1234.69	2418.57	61850.04
Sikkim	0.00	0.00	0.00	33.73	491.00
A & N Islands	0.00	1.51	0.00	41.54	284.00
Sub-Total (ER)	8064.25	6190.18	2595.08	4883.59	207501.31
Arunachal Pradesh	0.39	0.05	8.97	29.01	582.49
Assam	185.59	72.34	187.92	1459.40	11278.43
Manipur	0.12	5.87	82.50	41.80	845.41
Meghalaya	0.06	0.13	44.09	93.13	1838.75
Mizoram	0.50	1.06	95.96	18.99	493.58
Nagaland	0.45	0.02	0.25	110.00	687.43
Tripura	3.75	55.21	118.86	200.22	1154.02
Sub-Total (NER)	190.86	134.69	538.55	1952.55	16880.11
Total (All India)	30027.55	243852.25	30965.70	62665.67	1440310.82



TABLE 9.4
ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES
CATEGORY-WISE & STATE-WISE
2022-23

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Delhi	17779.74	6969.75	2805.38	299.24	299.91
Himachal Pradesh	0.00	0.00	18.27	0.00	0.00
Rajasthan	0.00	0.00	15.63	0.00	0.00
Uttar Pradesh	883.00	394.00	1465.00	0.00	29.00
Uttarakhand	0.00	0.00	0.13	0.00	0.00
Sub-Total (NR)	18662.74	7363.75	4304.41	299.24	328.91
Chhattisgarh	0.00	0.00	1343.83	0.00	0.00
Gujarat	4096.25	2073.49	2947.11	6343.68	62.66
Madhya Pradesh	0.00	0.00	10.94	0.00	0.00
Maharashtra	6597.78	4517.86	945.55	2122.00	27.00
Sub-Total (WR)	10694.03	6591.35	5247.43	8465.67	89.66
Andhra Pradesh	48.37	11.34	11.76	0.00	4.20
Tamil Nadu	0.00	0.00	1.72	0.00	0.00
Telangana	125.70	20.02	102.28	0.00	6.32
Karnataka	35.21	9.42	5.91	38.64	2.63
Kerala	7.80	14.57	118.58	100.21	0.69
Sub-Total (SR)	217.08	55.35	240.25	138.84	13.84
Jharkhand	314.29	90.76	19.07	3024.37	6.59
Odisha	7713.94	3073.68	3751.22	11746.07	207.12
West Bengal	5070.18	1973.92	859.29	2067.92	237.08
Sub-Total (ER)	13098.41	5138.36	4629.57	16838.36	450.79
Total (All India)	42672.26	19148.81	14421.67	25742.12	883.20

**TABLE 9.4 (CONTD.)
ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES
CATEGORY-WISE & STATE-WISE
2022-23**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Delhi	0.00	39.97	670.96	3704.77	32569.72
Himachal Pradesh	0.00	0.00	0.00	0.00	18.27
Rajasthan	0.00	0.00	0.00	0.00	15.63
Uttar Pradesh	0.00	12.00	30.00	57.00	2870.00
Uttarakhand	0.00	0.00	0.00	0.00	0.13
Sub-Total (NR)	0.00	51.97	700.96	3761.77	35473.75
Chhattisgarh	0.00	0.00	0.00	0.00	1343.83
Gujarat	0.00	5.32	205.85	55.87	15790.24
Madhya Pradesh	0.00	0.00	0.00	0.00	10.94
Maharashtra	141.74	0.44	140.34	25.00	14517.71
Sub-Total (WR)	141.74	5.76	346.19	80.87	31662.72
Andhra Pradesh	0.29	239.39	17.97	0.96	334.28
Tamil Nadu	0.00	0.00	0.00	0.00	1.72
Telangana	0.00	481.87	67.33	1.37	804.88
Karnataka	0.00	185.54	13.65	0.29	291.29
Kerala	0.00	0.60	0.35	2.84	245.64
Sub-Total (SR)	0.29	907.40	99.30	5.46	1677.82
Jharkhand	0.00	0.00	0.00	555.41	4010.49
Odisha	0.00	644.34	454.67	614.54	28205.58
West Bengal	0.00	0.00	530.97	287.21	11026.57
Sub-Total (ER)	0.00	644.34	985.64	1457.16	43242.64
Total (All India)	142.03	1609.47	2132.09	5305.27	112056.92



TABLE 9.5
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY
DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.
UNDERTAKINGS AND MUNICIPALITIES CATEGORY-WISE & STATE-WISE
2022-23

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
I. Municipalities					
Delhi-NDMC	288.95	872.47	0.02	0.00	5.47
Maharashtra-BEST	2074.66	1990.96	182.65	166.44	15.49
Kerala-Thrissur Municipality	40.10	67.28	3.94	0.00	1.21
Sub-Total	2403.71	2930.72	186.61	166.44	22.17
II. Govt. Deptt. / Central Sector Undertakings / Corporations					
Chandigarh	792.21	462.30	114.59	109.56	17.60
Delhi	88.85	0.00	0.00	0.00	0.00
Haryana	15324.86	4451.29	10518.81	8814.52	161.68
Himachal Pradesh	2619.82	710.04	88.41	6294.52	11.30
UT of J&K and Ladakh	4506.16	1218.80	278.40	1307.08	124.82
Punjab	17518.84	4343.23	920.76	18758.14	159.44
Rajasthan	14880.38	5240.47	3248.52	18119.59	331.13
Uttar Pradesh	51374.99	7791.05	640.39	2800.00	790.92
Uttarakhand	3551.11	1932.41	345.66	6579.14	64.90
Chhattisgarh	6471.19	1855.89	747.65	11021.12	126.11
Gujarat	13580.35	4799.37	11429.99	53376.79	135.16
Madhya Pradesh	17890.76	4317.03	1522.37	12501.60	431.20
Maharashtra	24101.27	7831.62	12226.83	43319.27	1118.42
DNH & DD	305.87	100.88	525.48	8382.26	6.05
Goa	1368.03	679.11	93.55	2174.70	45.81
Andhra Pradesh	17394.41	4988.79	1576.17	20363.77	413.58
Telangana	13843.96	7286.65	10911.85	6621.16	909.19
Karnataka	14788.19	7295.08	5722.69	9181.38	1232.16
Kerala	12475.54	5897.07	1271.35	3703.80	362.71
Tamil Nadu	30602.22	11475.05	9469.28	30160.99	0.00
Puducherry	790.40	206.64	118.97	1674.25	8.72
Lakshadweep	37.19	13.20	0.45	0.00	0.79
Bihar	16071.83	3382.15	904.88	3473.74	290.91
DVC in Jharkhand	0.00	0.00	443.60	10323.08	0.00
DVC in West Bengal	0.00	0.00	295.73	6882.06	0.00
Jharkhand	5097.02	1061.82	308.33	2282.90	200.17
Odisha	0.00	0.00	2.98	0.00	0.00
West Bengal	14812.68	5611.92	1684.80	10222.25	609.32
Sikkim	121.08	45.80	1.75	283.13	0.28
A. & N. Islands	159.59	63.98	0.00	12.33	5.05
Arunachal Pradesh	236.66	88.30	2.41	216.69	0.00
Assam	4849.05	1535.79	215.48	1476.34	21.64
Manipur	519.37	134.05	25.80	19.00	16.90
Meghalaya	543.52	116.87	5.95	914.11	1.03
Mizoram	309.22	51.95	2.44	10.98	2.48
Nagaland	413.00	90.00	43.00	30.02	0.69
Tripura	640.50	73.13	24.03	26.73	11.59
Sub-Total	308080.11	95151.73	75733.35	301436.98	7611.75
Total (I & II)	310483.82	98082.45	75919.96	301603.41	7633.93



TABLE 9.5 (CONTD.)
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY
DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.
UNDERTAKINGS AND MUNICIPALITIES CATEGORY-WISE & STATE-WISE
2022-23

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
I. Municipalities					
Delhi-NDMC	0.00	0.00	0.00	23.34	1190.25
Maharashtra-BEST	0.00	0.05	42.03	18.49	4490.77
Kerala-Thrissur Municipality	0.56	0.05	0.00	35.21	148.36
Sub-Total	0.56	0.10	42.03	77.04	5829.38
II. Govt. Deptt. / Central Sector Undertakings / Corporations					
Chandigarh	3.13	1.58	20.46	124.48	1645.90
Delhi	257.94	0.00	0.00	0.00	346.79
Haryana	1604.56	10204.06	1391.25	2770.22	55241.24
Himachal Pradesh	2.02	90.93	738.87	402.24	10958.15
UT of J&K and Ladakh	81.50	358.24	697.85	1196.30	9769.16
Punjab	456.39	13805.04	0.00	2570.57	58532.41
Rajasthan	766.34	30734.09	2792.33	3486.41	79599.26
Uttar Pradesh	4449.78	20704.02	2093.44	22160.46	112805.05
Uttarakhand	91.03	418.24	526.38	0.00	13508.87
Chhattisgarh	1322.22	6875.65	713.08	0.00	29132.91
Gujarat	967.61	21505.87	2152.62	362.78	108310.55
Madhya Pradesh	2739.28	27688.95	2079.28	1241.09	70411.55
Maharashtra	3301.59	37479.61	3053.65	4076.84	136509.10
DNH & DD	0.00	7.31	4.33	2.58	9334.76
Goa	4.40	37.14	0.00	105.58	4508.32
Andhra Pradesh	2185.42	9180.52	1420.90	5054.72	62578.27
Telangana	1048.46	21701.71	1093.50	3607.02	67023.50
Karnataka	588.92	21098.54	4716.51	1441.75	66065.22
Kerala	402.33	392.91	0.00	6.17	24511.88
Tamil Nadu	1356.94	14219.07	3103.19	3290.35	103677.09
Puducherry	0.00	58.68	45.94	4.70	2908.30
Lakshadweep	0.00	0.00	0.00	0.11	51.74
Bihar	1528.69	3779.76	905.72	0.17	30337.85
DVC in Jharkhand	0.00	0.00	0.00	1017.17	11783.86
DVC in West Bengal	0.00	0.00	0.00	678.12	7855.90
Jharkhand	1312.14	148.58	0.00	202.45	10613.42
Odisha	2240.85	0.00	0.00	0.00	2243.83
West Bengal	2982.57	1615.99	703.72	1453.24	39696.48
Sikkim	0.00	0.00	0.00	33.73	485.77
A. & N. Islands	0.00	1.51	0.00	41.54	284.00
Arunachal Pradesh	0.39	0.05	8.97	29.01	582.49
Assam	185.59	72.34	187.92	1459.40	10003.55
Manipur	0.12	5.87	82.50	41.80	845.41
Meghalaya	0.06	0.13	44.09	93.13	1718.90
Mizoram	0.50	1.06	95.96	18.99	493.58
Nagaland	0.45	0.02	0.25	110.00	687.43
Tripura	3.75	55.21	118.86	200.22	1154.02
Sub-Total	29884.97	242242.68	28791.57	57283.36	1146216.50
Total (I & II)	29885.52	242242.78	28833.60	57360.40	1152045.89



TABLE 9.6
CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY
STATE-WISE
UTILITIES
2022-23

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	48.13	28.09	6.96	6.66	1.07
Delhi	53.24	22.99	8.23	0.88	0.90
Haryana	27.74	8.06	19.04	15.96	0.29
Himachal Pradesh	23.87	6.47	0.97	57.35	0.10
UT of J&K and Ladakh	46.13	12.48	2.85	13.38	1.28
Punjab	29.93	7.42	1.57	32.05	0.27
Rajasthan	18.69	6.58	4.10	22.76	0.42
Uttar Pradesh	45.18	7.08	1.82	2.42	0.71
Uttarakhand	26.29	14.30	2.56	48.70	0.48
Sub-Total (NR)	34.19	9.07	5.40	16.64	0.53
Chhattisgarh	21.23	6.09	6.86	36.16	0.41
Gujarat	14.24	5.54	11.59	48.12	0.16
Madhya Pradesh	25.40	6.13	2.18	17.75	0.61
Maharashtra	21.07	9.22	8.59	29.33	0.75
DNH & DD	3.28	1.08	5.63	89.80	0.06
Goa	30.34	15.06	2.08	48.24	1.02
Sub-Total (WR)	19.39	7.14	8.11	35.35	0.50
Andhra Pradesh	27.73	7.95	2.52	32.37	0.66
Telangana	20.60	10.77	16.24	9.76	1.35
Karnataka	22.34	11.01	8.63	13.89	1.86
Kerala	50.28	24.01	5.60	15.27	1.46
Tamil Nadu	29.52	11.07	9.13	29.09	0.00
Puducherry	27.18	7.11	4.09	57.57	0.30
Lakshadweep	71.88	25.52	0.87	0.00	1.52
Sub-Total (SR)	27.44	11.35	8.92	21.86	0.90
Bihar	52.98	11.15	2.98	11.45	0.96
Jharkhand \$	20.49	4.36	2.92	59.19	0.78
Odisha	25.33	10.09	12.33	38.58	0.68
West Bengal \$	33.94	12.95	4.85	32.73	1.44
Sikkim	24.93	9.43	0.36	58.28	0.06
A & N Islands	56.19	22.53	0.00	4.34	1.78
Sub-Total (ER)	33.68	10.44	5.64	34.34	1.06
Arunachal Pradesh	40.63	15.16	0.41	37.20	0.00
Assam	48.47	15.35	2.15	14.76	0.22
Manipur	61.43	15.86	3.05	2.25	2.00
Meghalaya	31.62	6.80	0.35	53.18	0.06
Mizoram	62.65	10.53	0.49	2.22	0.50
Nagaland	60.08	13.09	6.26	4.37	0.10
Tripura	55.50	6.34	2.08	2.32	1.00
Sub-Total (NER)	48.51	13.50	2.06	17.40	0.35
Total (All India)	27.94	9.27	7.15	25.90	0.67



TABLE 9.6 (CONTD.)
CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY
STATE-WISE
UTILITIES
2022-23

State / UTs	% age of total Energy Sold				
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold (GWh)
Chandigarh	0.19	0.10	1.24	7.56	1645.90
Delhi	0.76	0.12	1.97	10.93	34106.76
Haryana	2.90	18.47	2.52	5.01	55241.24
Himachal Pradesh	0.02	0.83	6.73	3.66	10976.42
UT of J&K and Ladakh	0.83	3.67	7.14	12.25	9769.16
Punjab	0.78	23.59	0.00	4.39	58532.41
Rajasthan	0.96	38.60	3.51	4.38	79614.89
Uttar Pradesh	3.85	17.91	1.84	19.21	115675.05
Uttarakhand	0.67	3.10	3.90	0.00	13509.00
Sub-Total (NR)	2.03	20.15	2.36	9.63	379070.83
Chhattisgarh	4.34	22.56	2.34	0.00	30476.74
Gujarat	0.78	17.33	1.90	0.34	124100.79
Madhya Pradesh	3.89	39.32	2.95	1.76	70422.49
Maharashtra	2.21	24.10	2.08	2.65	155517.58
DNH & DD	0.00	0.08	0.05	0.03	9334.76
Goa	0.10	0.82	0.00	2.34	4508.32
Sub-Total (WR)	2.15	23.73	2.13	1.49	394360.69
Andhra Pradesh	3.47	14.97	2.29	8.04	62912.55
Telangana	1.55	32.71	1.71	5.32	67828.38
Karnataka	0.89	32.08	7.13	2.17	66356.51
Kerala	1.62	1.58	0.00	0.18	24905.88
Tamil Nadu	1.31	13.71	2.99	3.17	103678.81
Puducherry	0.00	2.02	1.58	0.16	2908.30
Lakshadweep	0.00	0.00	0.00	0.22	51.74
Sub-Total (SR)	1.70	20.56	3.19	4.09	328642.17
Bihar	5.04	12.46	2.99	0.00	30337.85
Jharkhand \$	4.97	0.56	0.00	6.72	26407.77
Odisha	7.36	2.12	1.49	2.02	30449.41
West Bengal \$	5.09	2.76	2.11	4.13	58578.95
Sikkim	0.00	0.00	0.00	6.94	485.77
A & N Islands	0.00	0.53	0.00	14.63	284.00
Sub-Total (ER)	5.50	4.22	1.77	3.33	146543.75
Arunachal Pradesh	0.07	0.01	1.54	4.98	582.49
Assam	1.86	0.72	1.88	14.59	10003.55
Manipur	0.01	0.69	9.76	4.94	845.41
Meghalaya	0.00	0.01	2.56	5.42	1718.90
Mizoram	0.10	0.22	19.44	3.85	493.58
Nagaland	0.07	0.00	0.04	16.00	687.43
Tripura	0.32	4.78	10.30	17.35	1154.02
Sub-Total (NER)	1.23	0.87	3.48	12.61	15485.37
Total (All India)	2.38	19.29	2.45	4.96	1264102.81



TABLE 9.6(A)
CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY
STATE-WISE
UTILITIES & NON-UTILITIES
2022-23

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	47.97	27.99	6.94	6.98	1.07
Delhi	53.21	22.98	8.22	0.92	0.90
Haryana	26.13	7.59	17.94	20.84	0.28
Himachal Pradesh	23.61	6.40	0.96	57.81	0.10
UT of J&K and Ladakh	46.11	12.47	2.85	13.41	1.28
Punjab	28.26	7.01	1.49	35.84	0.26
Rajasthan	17.11	6.02	3.75	29.31	0.38
Uttar Pradesh	41.10	6.44	1.66	11.22	0.64
Uttarakhand	24.60	13.38	2.40	52.00	0.45
Sub-Total (NR)	31.94	8.47	5.04	22.14	0.49
Chhattisgarh	13.98	4.01	4.52	57.98	0.27
Gujarat	12.22	4.75	9.94	55.49	0.14
Madhya Pradesh	23.73	5.73	2.03	23.18	0.57
Maharashtra	19.57	8.56	7.97	34.37	0.69
DNH & DD	3.27	1.08	5.61	89.82	0.06
Goa	26.79	13.30	1.83	54.31	0.90
Sub-Total (WR)	17.06	6.28	7.13	43.13	0.44
Andhra Pradesh	24.35	6.98	2.22	40.60	0.58
Telangana	19.45	10.17	15.33	14.79	1.27
Karnataka	18.99	9.36	7.34	26.81	1.58
Kerala	48.08	22.96	5.35	18.98	1.40
Tamil Nadu	27.52	10.32	8.52	33.88	0.00
Puducherry	26.50	6.93	3.99	58.63	0.29
Lakshadweep	71.88	25.52	0.87	0.00	1.52
Sub-Total (SR)	24.93	10.31	8.10	29.02	0.81
Bihar	51.80	10.90	2.92	13.41	0.94
Jharkhand \$	15.83	3.37	2.26	68.47	0.60
Odisha	9.68	3.86	4.71	76.52	0.26
West Bengal \$	32.15	12.26	4.59	36.29	1.37
Sikkim	24.66	9.33	0.36	58.73	0.06
A & N Islands	56.19	22.53	0.00	4.34	1.78
Sub-Total (ER)	23.79	7.38	3.99	53.63	0.75
Arunachal Pradesh	40.63	15.16	0.41	37.20	0.00
Assam	42.99	13.62	1.91	24.39	0.19
Manipur	61.43	15.86	3.05	2.25	2.00
Meghalaya	29.56	6.36	0.32	56.23	0.06
Mizoram	62.65	10.53	0.49	2.22	0.50
Nagaland	60.08	13.09	6.26	4.37	0.10
Tripura	55.50	6.34	2.08	2.32	1.00
Sub-Total (NER)	44.50	12.38	1.89	24.22	0.32
Total (All India)	24.52	8.14	6.27	34.96	0.59

Note:- \$ -Includes DVC's sales to ultimate consumers in Jharkhand & West Bengal area



TABLE 9.6(A) (CONTD.)
CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY
STATE-WISE
UTILITIES & NON-UTILITIES
2022-23

State / UTs	% age of total Energy Sold				
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold (GWh)
Chandigarh	0.19	0.10	1.24	7.54	1651.58
Delhi	0.76	0.12	1.97	10.93	34121.35
Haryana	2.74	17.40	2.37	4.72	58646.76
Himachal Pradesh	0.02	0.82	6.66	3.62	11096.39
UT of J&K and Ladakh	0.83	3.67	7.14	12.24	9772.17
Punjab	0.74	22.27	0.00	4.15	61990.36
Rajasthan	0.88	35.33	3.21	4.01	86987.21
Uttar Pradesh	3.50	16.29	1.67	17.47	127142.72
Uttarakhand	0.63	2.90	3.65	0.00	14437.98
Sub-Total (NR)	1.90	18.82	2.21	8.99	405846.53
Chhattisgarh	2.86	14.85	1.54	0.00	46302.28
Gujarat	0.67	14.87	1.63	0.29	144645.85
Madhya Pradesh	3.63	36.73	2.76	1.65	75393.67
Maharashtra	2.06	22.38	1.93	2.46	167469.07
DNH & DD	0.00	0.08	0.05	0.03	9359.78
Goa	0.09	0.73	0.00	2.07	5107.38
Sub-Total (WR)	1.89	20.88	1.87	1.31	448278.04
Andhra Pradesh	3.05	13.15	2.01	7.06	71629.98
Telangana	1.46	30.88	1.62	5.02	71831.64
Karnataka	0.75	27.26	6.06	1.85	78069.77
Kerala	1.55	1.51	0.00	0.17	26044.48
Tamil Nadu	1.22	12.79	2.79	2.96	111194.34
Puducherry	0.00	1.97	1.54	0.16	2982.88
Lakshadweep	0.00	0.00	0.00	0.22	51.74
Sub-Total (SR)	1.54	18.67	2.90	3.72	361804.83
Bihar	4.93	12.18	2.92	0.00	31024.79
Jharkhand \$	3.84	0.43	0.00	5.19	34182.66
Odisha	2.81	0.81	0.57	0.77	79668.83
West Bengal \$	4.82	2.61	2.00	3.91	61850.04
Sikkim	0.00	0.00	0.00	6.87	491.00
A & N Islands	0.00	0.53	0.00	14.63	284.00
Sub-Total (ER)	3.89	2.98	1.25	2.35	207501.31
Arunachal Pradesh	0.07	0.01	1.54	4.98	582.49
Assam	1.65	0.64	1.67	12.94	11278.43
Manipur	0.01	0.69	9.76	4.94	845.41
Meghalaya	0.00	0.01	2.40	5.06	1838.75
Mizoram	0.10	0.22	19.44	3.85	493.58
Nagaland	0.07	0.00	0.04	16.00	687.43
Tripura	0.32	4.78	10.30	17.35	1154.02
Sub-Total (NER)	1.13	0.80	3.19	11.57	16880.11
Total (All India)	2.08	16.93	2.15	4.35	1440310.82



TABLE 9.7
PER CAPITA ULTIMATE CONSUMPTION OF ELECTRICITY
STATE-WISE/CATEGORY-WISE
UTILITIES
2022-23

(kWh)

State / UTs	Population (Million)	Domestic	Commercial	Industrial Power	
				(Low & Med. Voltage)	(High Voltage)
Chandigarh	1.23	646.18	377.08	93.47	89.36
Delhi	21.20	856.69	370.00	132.36	14.12
Haryana	30.06	509.84	148.09	349.95	293.25
Himachal Pradesh	7.45	351.51	95.27	14.31	844.56
UT of J&K and Ladakh	13.86	325.07	87.92	20.08	94.29
Punjab	30.65	571.60	141.71	30.04	612.03
Rajasthan	80.66	184.48	64.97	40.47	224.64
Uttar Pradesh	234.69	222.67	34.88	8.97	11.93
Uttarakhand	11.59	306.47	166.77	29.84	567.80
Northern Region	431.38	300.45	79.71	47.43	146.23
Chhattisgarh	30.04	215.44	61.79	69.63	366.92
Gujarat	71.15	248.44	96.60	202.07	839.37
Madhya Pradesh	86.15	207.67	50.11	17.80	145.12
Maharashtra	125.98	260.15	113.83	106.01	362.03
DNH & DD	1.22	249.89	82.42	429.31	6848.25
Goa	1.57	870.80	432.28	59.55	1384.28
Western Region	316.11	241.96	89.10	101.15	441.01
Andhra Pradesh	53.08	328.62	94.20	29.92	383.65
Telangana	38.00	367.63	192.29	289.85	174.25
Karnataka	67.52	219.56	108.19	84.85	136.56
Kerala	35.72	350.64	167.40	39.03	106.51
Tamil Nadu	76.77	398.65	149.48	123.38	392.90
Puducherry	1.63	484.91	126.77	72.99	1027.15
Lakshadweep	0.07	538.92	191.31	6.52	0.00
Southern Region	272.77	330.64	136.69	107.47	263.38
Bihar	125.99	127.56	26.84	7.18	27.57
Jharkhand	39.26	137.84	29.36	19.64	398.13
Odisha	44.24	174.38	69.48	84.87	265.53
West Bengal	98.88	201.07	76.71	28.72	193.89
Sikkim	0.69	176.50	66.76	2.55	412.73
A & N Islands	0.40	397.00	159.16	0.00	30.67
Eastern Region	309.46	159.51	49.45	26.73	162.60
Arunachal Pradesh	1.56	152.19	56.79	1.55	139.35
Assam	35.57	136.31	43.17	6.06	41.50
Manipur	3.21	161.85	41.77	8.04	5.92
Meghalaya	3.33	163.07	35.06	1.79	274.26
Mizoram	1.23	250.78	42.14	1.98	8.90
Nagaland	2.22	185.78	40.49	19.34	13.50
Tripura	4.13	155.16	17.72	5.82	6.47
North-Eastern Region	51.25	146.55	40.78	6.23	52.56
Total (All India)	1380.98	255.73	84.89	65.42	237.04

Note:-

Source of Population: Office of Registrar General of India as on 1st October 2022

(i) Per Capita Ultimate Electricity Consumption = Ultimate Electricity Consumption/Mid year Population

(ii) For Total Per Capita Consumption of Electricity please refer Table 9.10



**TABLE 9.7 (CONTD.)
PER CAPITA ULTIMATE CONSUMPTION OF ELECTRICITY
STATE-WISE/CATEGORY-WISE
UTILITIES
2022-23**

(kWh)

State / UTs	Public Lighting	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total
Chandigarh	14.35	2.55	1.29	0.00	101.53	1342.50
Delhi	14.41	12.17	1.89	31.66	175.90	1609.19
Haryana	5.38	53.38	339.48	46.29	92.16	1837.82
Himachal Pradesh	1.52	0.27	12.20	99.14	53.97	1472.75
UT of J&K and Ladakh	9.00	5.88	25.84	50.34	86.30	704.74
Punjab	5.20	14.89	450.42	0.00	83.87	1909.77
Rajasthan	4.11	9.50	381.02	34.62	43.22	987.02
Uttar Pradesh	3.49	18.96	88.27	9.05	94.67	492.88
Uttarakhand	5.60	7.86	36.10	45.43	0.00	1165.88
Northern Region	4.63	17.88	177.03	20.77	84.60	878.73
Chhattisgarh	4.20	44.02	228.91	23.74	0.00	1014.64
Gujarat	2.78	13.60	302.34	33.15	5.88	1744.24
Madhya Pradesh	5.01	31.80	321.41	24.14	14.41	817.45
Maharashtra	9.22	27.33	297.51	25.69	32.71	1234.47
Daman & Diu	4.94	0.00	5.97	3.54	2.11	7626.44
Goa	29.16	2.80	23.64	0.00	67.21	2869.71
Western Region	6.23	26.82	296.10	26.55	18.63	1247.55
Andhra Pradesh	7.87	41.18	177.47	27.11	95.25	1185.26
Telangana	24.09	27.59	583.79	30.55	94.96	1785.00
Karnataka	18.29	8.72	315.25	70.06	21.36	982.84
Kerala	10.21	11.28	11.02	0.01	1.24	697.33
Tamil Nadu	0.00	17.68	185.23	40.42	42.86	1350.60
Puducherry	5.35	0.00	36.00	28.18	2.88	1784.23
Lakshadweep	11.41	0.00	0.00	0.00	1.62	749.79
Southern Region	10.79	20.47	247.67	38.42	49.29	1204.82
Bihar	2.31	12.13	30.00	7.19	0.00	240.79
Jharkhand	5.27	33.42	3.78	0.00	45.21	672.66
Odisha	4.68	50.66	14.57	10.28	13.89	688.32
West Bengal	8.56	30.16	16.34	12.49	24.46	592.40
Sikkim	0.41	0.00	0.00	0.00	49.17	708.12
A & N Islands	12.56	0.00	3.76	0.00	103.33	706.47
Eastern Region	5.03	26.06	20.00	8.39	15.78	473.55
Arunachal Pradesh	0.00	0.25	0.04	5.77	18.66	374.59
Assam	0.61	5.22	2.03	5.28	41.03	281.21
Manipur	5.27	0.04	1.83	25.71	13.03	263.45
Meghalaya	0.31	0.02	0.04	13.23	27.94	515.72
Mizoram	2.01	0.41	0.86	77.83	15.40	400.31
Nagaland	0.31	0.20	0.01	0.11	49.48	309.24
Tripura	2.81	0.91	13.37	28.79	48.50	279.56
North-Eastern Region	1.06	3.72	2.63	10.51	38.10	302.13
Total (All India)	6.17	21.74	176.58	22.42	45.38	915.37



TABLE 9.8
ANNUAL ELECTRICITY CONSUMPTION PER SQUARE KILOMETRE AND PER THOUSAND POPULATION
REGION-WISE/STATE-WISE
(UTILITIES+NON-UTILITIES)
2022-23

State / UTs	Population (Million)	Area in 1000 sq. kms. \$	Total Energy Sold (GWh)	Energy Consumed per thousand population (kWh)	Energy Consumed per sq. km. (kWh)
Chandigarh	1.23	0.11	1651.58	1347127	15014345
Delhi	21.20	1.48	34121.35	1609877	23054964
Haryana	30.06	44.21	58646.76	1951120	1326550
Himachal Pradesh	7.45	55.67	11096.39	1488849	199324
UT of J&K and Ladakh	13.86	222.24	9772.17	704961	43971
Punjab	30.65	50.36	61990.36	2022590	1230944
Rajasthan	80.66	342.24	86987.21	1078416	254170
Uttar Pradesh	234.69	240.93	127142.72	541743	527716
Uttarakhand	11.59	53.48	14437.98	1246050	269970
Northern Region	431.38	1010.72	405846.53	940801	401542
Chhattisgarh	30.04	135.19	46302.28	1541508	342498
Gujarat	71.15	196.03	144645.85	2032999	737876
Madhya Pradesh	86.15	308.25	75393.67	875154	244586
Maharashtra	125.98	307.72	167469.07	1329341	544226
DNH & DD	1.22	0.11	9359.78	7646878	85088894
Goa	1.57	3.70	5107.38	3251037	1380373
Western Region	316.11	951	448278.04	1418112	471375
Andhra Pradesh	53.08	160.41	71629.98	1349498	446543
Telangana	38.00	114.65	71831.64	1890356	626530
Karnataka	67.52	191.79	78069.77	1156332	407059
Kerala	35.72	38.86	26044.48	729210	670213
Tamil Nadu	76.77	130.06	111194.34	1448503	854947
Puducherry	1.63	0.48	2982.88	1829989	6214338
Lakshadweep	0.07	0.03	51.74	749787	1724510
Southern Region	272.77	636.28	361804.83	1326395	568625
Bihar	125.99	94.16	31024.79	246246	329490
Jharkhand	39.26	79.71	34182.66	870696	428838
Odisha	44.24	155.71	79668.83	1800955	511649
West Bengal	98.88	88.75	61850.04	625481	696902
Sikkim	0.69	7.10	491.00	715738	69154
A & N Islands	0.40	8.25	284.00	706474	34425
Eastern Region	309.46	433.68	207501.31	670529	478466
Arunachal Pradesh	1.56	83.74	582.49	374593	6956
Assam	35.57	78.44	11278.43	317050	143784
Manipur	3.21	22.33	845.41	263449	37860
Meghalaya	3.33	22.43	1838.75	551681	81977
Mizoram	1.23	21.08	493.58	400309	23415
Nagaland	2.22	16.58	687.43	309235	41461
Tripura	4.13	10.49	1154.02	279558	110011
North-Eastern Region	51.25	255.09	16880.11	329342	66173
Total (All India)	1380.98	3286.77	1440310.82	1042964	438215

Note:-

Source of Population: Office of Registrar General of India as on 1st October 2022

\$ Source of Area: "Statistical Abstract" published by Central Statistical Organisation.



TABLE 9.9
ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY- STATE-WISE
(UTILITIES & NON UTILITIES)
2022-23

State/UTs	Population\$ (Million)	Net Generation of Utilities + Net Drawal from Grid including Import from Captive (GWh)	Auxiliary Con- sumption for States own Gen. (GWh)	Auxiliary Consump- tion for Drawal from Regional Grid (GWh)	Total Auxiliary Consumption (4+5) (GWh)
1	2	3	4	5	6
Chandigarh	1226.00	1911.13	0.00	133.78	133.78
Delhi	21195.00	36598.23	300.15	2276.33	2576.48
Haryana	30058.00	62827.26	1652.94	2779.87	4432.81
Himachal Pradesh	7453.00	12731.71	160.18	361.74	521.93
Jammu & Kashmir	13862.00	19969.85	154.33	1029.69	1184.02
Punjab	30649.00	71015.00	2119.67	2470.38	4590.04
Rajasthan	80662.00	102367.67	5154.77	2248.82	7403.60
Uttar Pradesh	234692.00	145801.06	6338.34	3918.52	10256.86
Uttarakhand	11587.00	15924.10	121.33	690.03	811.36
Northern Region	431384.00	469146.00	16001.72	15909.16	31910.88
Chhattisgarh	30037.00	39806.64	1495.58	1337.10	2832.68
Gujarat	71149.00	141352.70	4518.90	5415.40	9934.30
Madhya Pradesh	86149.00	94156.41	2859.84	3519.12	6378.96
Maharashtra	125979.00	189259.70	8354.38	4527.17	12881.55
Daman & Diu and Dadra & Nagar Haveli	1224.00	10215.74	0.00	618.74	618.74
Goa	1571.00	4934.51	0.00	329.21	329.21
Western Region	316109.00	479725.70	17228.69	15746.74	32975.44
Andhra Pradesh	53079.00	72989.58	3070.99	1820.43	4891.42
Telangana	37999.00	79016.51	3147.62	2169.75	5317.37
Karnataka	67515.00	76647.65	3083.51	1680.74	4764.25
Kerala	35716.00	28525.76	250.99	1338.21	1589.19
Tamil Nadu	76765.00	117426.02	3327.92	4439.26	7767.18
Puducherry	1630.00	3189.13	0.00	223.24	223.24
Lakshadweep	69.00	64.09	2.18	0.00	2.18
Southern Region	272773.00	377858.75	12883.21	11671.61	24554.82
Bihar	125991.00	40644.53	0.00	2572.71	2572.71
Jharkhand	39259.00	28497.93	1895.44	49.08	1944.51
Odisha	44237.00	43367.79	1355.87	1209.18	2565.05
West Bengal	98884.00	71168.26	4420.18	627.89	5048.07
Sikkim	686.00	612.51	0.34	41.68	42.02
Andaman- Nicobar	402.00	348.45	26.14	0.00	26.14
Eastern Region	309459.00	184639.47	7697.97	4500.54	12198.52
Arunachal Pradesh	1555.00	947.46	0.00	65.10	65.10
Assam	35573.00	11902.17	147.66	672.96	820.62
Manipur	3209.00	1062.47	0.00	74.37	74.37
Meghalaya	3333.00	2287.09	21.00	86.60	107.60
Mizoram	1233.00	663.54	0.00	32.38	32.38
Nagaland	2223.00	933.40	0.00	56.42	56.42
Tripura	4128.00	1708.95	20.40	102.10	122.51
North-Eastern Region	51254.00	19505.08	189.06	1089.93	1279.00
All India	1380979.00	1530874.99	54000.66	48917.99	102918.65

Note:

1. Per Capita Electricity Consumption = (Gross Electricity Consumed/Mid Year Population)
2. Gross Electricity Consumed = Availability to State (i.e. State own Generation + Drawal From regional Grid)+Auxiliary Consumption+Gross Captive Electricity Consumption out of Self Generation
3. Auxiliary Consumption (Assumed)
State own Generation - Hydro 2% ; Thermal 8.15%; Drawal From Regional grid - 7%
4. Gross Captive Electricity Consumption out of Self Generation
Estimated Gross Generation is 222.7 BU and Export to Utilities is 18.5 BU for the year 2021-22.
5. Population
State wise Mid Year Population (1st Oct of year 2021) as projected by Registrar General of India.



TABLE 9.9 (CONTD.)
ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY- STATE-WISE
(UTILITIES & NON UTILITIES)
2022-23

State/UTs	Gross Generation of Utilities+Gross Drawal from Grid including Import from Captive (3+6) (GWh)	Gross Consumption out of Self Generation by Captive Industries (GWh)	Total Gross Energy Consumption (Uti+Non-Uti) (7+8)(GWh)	Per Capita Consumption of Electricity (9/2) (kWh)
	7	8	9	10
Chandigarh	2044.90	6.94	2051.85	1674
Delhi	39174.71	3.75	39178.46	1848
Haryana	67260.08	3689.87	70949.94	2360
Himachal Pradesh	13253.63	154.05	13407.68	1799
Jammu & Kashmir	21153.87	2.25	21156.12	1526
Punjab	75605.05	3297.40	78902.44	2574
Rajasthan	109771.26	11301.63	121072.89	1501
Uttar Pradesh	156057.92	13615.95	169673.87	723
Uttarakhand	16735.46	1058.12	17793.58	1536
Northern Region	501056.88	33129.95	534186.83	1238
Chhattisgarh	42639.32	20961.41	63600.73	2117
Gujarat	151287.00	18937.44	170224.43	2393
Madhya Pradesh	100535.37	5449.85	105985.22	1230
Maharashtra	202141.25	8941.05	211082.30	1676
Daman & Diu and Dadra & Nagar Haveli	10834.48	22.15	10856.63	8870
Goa	5263.72	14.16	5277.88	3360
Western Region	512701.13	54326.05	567027.19	1794
Andhra Pradesh	77881.00	8833.76	86714.76	1634
Telangana	84333.88	4924.74	89258.62	2349
Karnataka	81411.90	14798.29	96210.19	1425
Kerala	30114.95	1386.46	31501.41	882
Tamil Nadu	125193.20	10175.53	135368.73	1763
Puducherry	3412.37	83.78	3496.15	2145
Lakshadweep	66.27	0.00	66.27	960
Southern Region	402413.57	40202.57	442616.13	1623
Bihar	43217.24	674.78	43892.02	348
Jharkhand	30442.44	8502.04	38944.49	992
Odisha	45932.84	61054.70	106987.54	2419
West Bengal	76216.33	4814.02	81030.35	819
Sikkim	654.53	0.00	654.53	954
Andaman- Nicobar	374.59	0.00	374.59	932
Eastern Region	196837.98	75045.55	271883.53	879
Arunachal Pradesh	1012.56	0.00	1012.56	651
Assam	12722.79	1441.51	14164.30	398
Manipur	1136.84	0.17	1137.01	354
Meghalaya	2394.69	37.83	2432.51	730
Mizoram	695.92	0.00	695.92	564
Nagaland	989.82	0.00	989.82	445
Tripura	1831.45	0.00	1831.45	444
North-Eastern Region	20784.08	1479.50	22263.58	434
All India	1633793.64	204183.62	1837977.26	1331



TABLE 9.10
ALL INDIA ELECTRICAL ACCIDENTS
STATE-WISE
2022-23

State/UT	Generating Stations/Transmission & Distribution				Industrial Installa-tions of Consumers	
	Human		Animals		Human	
	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	242	31	238	0	0	0
Arunachal Pradesh	NA	NA	NA	NA	NA	NA
Assam	112	61	100	0	0	1
Bihar	253	8	3	0	23	1
Chhattisgarh	101	43	146	0	2	1
Goa	4	9	4	0	1	5
Gujarat	243	186	433	0	35	0
Haryana	116	56	13	0	0	0
Himachal Pradesh	NA	NA	NA	NA	NA	NA
Jharkhand	0	0	0	0	0	0
Karnataka	504	243	745	0	1	0
Kerala	98	121	45	0	1	2
Madhya Pradesh	221	36	192	0	1	2
Maharashtra	562	517	1136	3	54	23
Manipur	NA	NA	NA	NA	NA	NA
Meghalaya	16	10	9	0	16	10
Mizoram	1	12	0	0	0	0
Nagaland	2	0	0	0	0	0
Orissa	0	0	0	0	0	0
Punjab	NA	NA	NA	NA	NA	NA
Rajasthan	36	27	55	0	10	11
Sikkim	2	2	0	0	0	0
Tamil Nadu	130	79	103	1	3	4
Telangana	81	13	163	25	0	0
Tripura	5	2	6	0	0	0
Uttarakhand	NA	NA	NA	NA	NA	NA
Uttar Pradesh	1325	487	1979	8	0	0
West Bengal	235	154	52	0	0	0
Mines	NA	NA	NA	NA	NA	NA
Central Govt. Installn.	NA	NA	NA	NA	NA	NA
Railways	0	0	0	0	7	0
Union Territories						
A & N Islands	NA	NA	NA	NA	NA	NA
Chandigarh	NA	NA	NA	NA	NA	NA
Delhi	27	27	0	0	17	5
DNH & DD	4	6	2	0	3	1
Lakshadweep	NA	NA	NA	NA	NA	NA
UT of J&K and Ladakh	45	35	26	0	0	0
Puducherry	5	0	5	0	1	0
Total (All India)	4370	2165	5455	37	175	66

NA - Not Available.



**TABLE 9.10 (CONTD.)
ALL INDIA ELECTRICAL ACCIDENTS
STATE-WISE
2022-23**

State/UT	Industrial Installations of Consumers		Installations of Consumers Other than Industrial				Total * Accidents
	Animals		Human		Animals		
	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal	
Andhra Pradesh	0	0	76	12	21	0	620
Arunachal Pradesh	NA	NA	NA	NA	NA	NA	NA
Assam	0	0	3	0	2	0	279
Bihar	16	0	0	0	0	0	304
Chhattisgarh	0	0	44	0	11	0	348
Goa	0	0	0	0	0	0	23
Gujarat	5	0	304	21	4	0	1231
Haryana	0	0	4	3	0	0	192
Himachal Pradesh	NA	NA	NA	NA	NA	NA	NA
Jharkhand	0	0	0	0	0	0	0
Karnataka	1	0	43	1	3	0	1541
Kerala	0	0	110	24	20	0	421
Madhya Pradesh	0	0	100	4	12	0	568
Maharashtra	34	0	663	30	72	0	3094
Manipur	NA	NA	NA	NA	NA	NA	NA
Meghalaya	9	0	0	0	0	0	70
Mizoram	0	0	0	0	0	0	13
Nagaland	0	0	0	0	0	0	2
Orissa	0	0	8	0	0	0	8
Punjab	NA	NA	NA	NA	NA	NA	NA
Rajasthan	14	0	5	0	6	0	164
Sikkim	0	0	0	0	0	0	4
Tamil Nadu	0	0	61	8	9	1	399
Telangana	0	0	8	0	9	0	299
Tripura	0	0	0	0	0	0	13
Uttarakhand	NA	NA	NA	NA	NA	NA	NA
Uttar Pradesh	0	0	103	43	23	0	3968
West Bengal	0	0	12	18	0	0	471
Mines	NA	NA	NA	NA	NA	NA	NA
Central Govt. Installn.	NA	NA	NA	NA	NA	NA	NA
Railways	0	0	0	0	0	0	7
Union Territories							
A & N Islands	NA	NA	NA	NA	NA	NA	NA
Chandigarh	NA	NA	NA	NA	NA	NA	NA
Delhi	0	0	61	3	2	0	142
DNH & DD	0	0	1	0	0	0	17
Lakshadweep	NA	NA	NA	NA	NA	NA	NA
UT of J&K and Ladakh	0	0	0	0	0	0	106
Puducherry	0	0	3	0	0	0	14
Total (All India)	79	0	1609	167	194	1	14318

NA - Not Available.

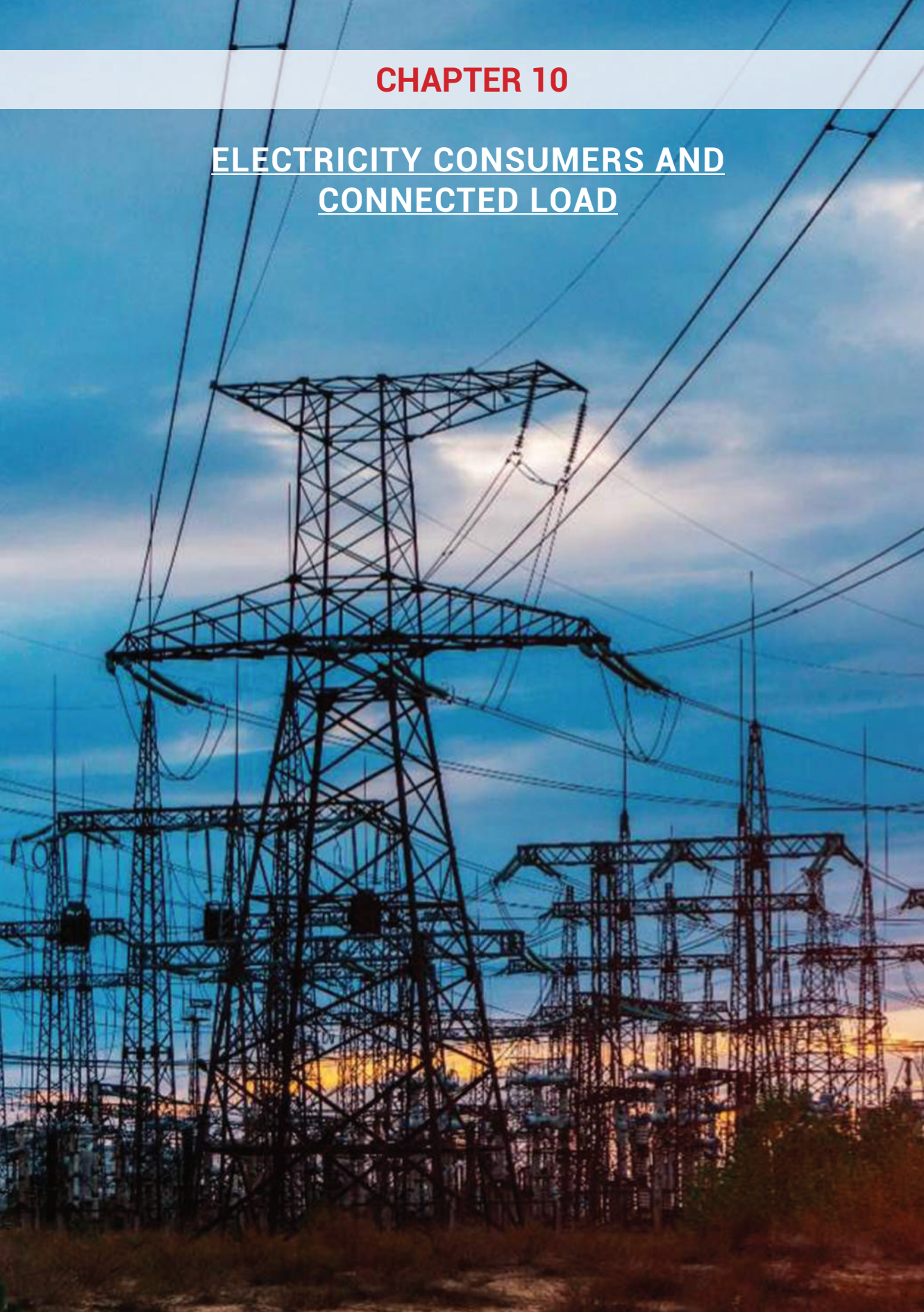
*Includes total Human Fatal Accidents(6154), Human Non Fatal Accidents(2398)

Animal Fatal Accidents(5728) and Animal Non Fatal Accidents(38).



CHAPTER 10

ELECTRICITY CONSUMERS AND CONNECTED LOAD



**CHAPTER 10****ELECTRICITY CONSUMERS AND CONNECTED LOAD**

The electricity consumers have been categorized into different categories such as Domestic, Agricultural, Commercial, Industrial (LV & MV), Industrial (HV), Public Lighting, Railway Traction, Public Water Works including other miscellaneous consumers. The Table 10 shows the details of consumers and connected load of different categories in various States/Union Territories.

- As on 31.03.2023, the total number of electricity consumers were about 345.62 million and the connected load was 891401 MW for all the categories in the country.
- Domestic consumer's category continues to have maximum number of consumers benefiting from electricity followed by commercial and agricultural categories.

The Domestic consumers had the maximum connected load of 377655 MW followed by Industrial and Agricultural sectors having connected load of 186500 MW 158532 MW respectively.



TABLE 10
CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD
REGIONWISE/STATEWISE
UTILITIES
31.03.2023

State/UTs	Domestic		Commercial		Industrial (LV&MV)	
	Connected Load (KW)	Consumers	Connected Load(KW)	Consumers	Connected Load (KW)	Consumers
Chandigarh	925621	226712	491642	29556	100807	2879
Delhi	13452240	5802148	6324058	1043706	1243307	27382
Haryana	11441791	6023446	3934788	803208	5628280	112463
Himachal Pradesh	4942853	2319395	994130	320374	276993	29859
UT of J&K and Ladakh	2421632	1947140	697545	293070	370975	22293
Punjab	15111416	7738348	4805304	1223854	1268235	108029
Rajasthan	14556909	12880556	5440625	1287613	3630767	202122
Uttar Pradesh	39486286	28482537	3851216	1857718	2450975	175471
Uttarakhand	3876105	2454015	1522859	303090	310235	14806
Sub-Total(NR)	106214852	67874297	28062168	7162189	15280574	695304
Chhattisgarh	3688167	4967149	1506547	415579	819258	37582
Gujarat	20215419	14706780	8078238	2386859	10351210	450453
Madhya Pradesh	12842240	12415886	4005292	1276401	1682495	136624
Maharashtra	37970325	25713892	13354275	2923324	5995918	34752
DNH & DD	218842	112419	58069	16434	235880	4363
Goa	1792117	557350	559738	113320	156131	5708
Sub-Total(WR)	76727110	58473476	27562159	7131917	19240892	669482
Andhra Pradesh	17676710	15933591	7379614	1801479	3309412	104977
Telangana	15483957	12687475	6505644	1787731	5258954	118781
Karnataka	26958679	21481074	9477890	2626310	6669065	301495
Kerala	21082900	10412574	5996558	2559528	1974660	148343
Tamil Nadu	45313060	23554826	14345252	3706459	10993170	769832
Puducherry	658139	387020	187968	63081	141604	6601
Lakshadweep	66766	20955	17796	5458	3085	363
Sub-Total (SR)	127240211	84477515	43910722	12550046	28349950	1450392
Bihar	16228229	16774347	3327270	1425348	1647680	163807
Jharkhand	16165903	4573041	791697	307752	381111	19206
Odisha	9978695	8818457	2205636	534944	394652	23675
West Bengal	15931646	22613305	5307794	2575204	2695846	182160
Sikkim	139269	106757	34695	12418	1453	404
A&N Island	241087	125105	81971	20493	0	0
Sub-Total (ER)	58684830	53011012	11749063	4876159	5120743	389252
Arunachal Pradesh	109942	263877	35854	32546	3413	244
Assam	6179009	6449115	1600201	387878	300091	24534
Manipur	844321	508068	117628	28469	21232	3013
Meghalaya	740185	639988	123438	37497	8906	784
Mizoram	419979	251336	57996	13673	5082	1027
Nagaland	121584	290646	19589	24004	12903	5115
Tripura	372932	859408	74064	73132	68114	5617
Sub-Total(NER)	8787952	9262438	2028770	597199	419740	40334
Total (All India)	377654955	273098738	113312882	32317510	68411900	3244764

Note--: (a) In some cases no. of consumers & connected load may have gone down over previous year due to reconciliation of data by the state(s).



TABLE 10 (CONTD.)
CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD
REGIONWISE/STATEWISE
UTILITIES
31.03.2023

State/UTs	Industrial(H.V.)		Public Lighting		Traction	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Chandigarh	60817	88	4567	1263	0	0
Delhi	123130	196	128204	15129	83770	5
Haryana	4157158	10197	41487	4784	76753	109
Himachal Pradesh	1803299	4144	6734	1340	0	0
Jammu & Kashmir and Ladakh	494046	1361	17043	437	0	0
Punjab	10025721	46337	55200	5644	109119	540
Rajasthan	10333565	15521	388104	22776	71082	7
Uttar Pradesh	3898847	14305	87400	15579	52000	6
Uttarakhand	1858688	2556	20213	2996	17000	2
Sub-Total(NR)	32755271	94705	748951	69948	409724	669
Chattisgarh	2919674	2299	53464	10144	418700	26
Gujarat	17046519	23027	115692	23780	14917	17
Madhya Pradesh	2896544	6583	163814	22245	2561	11
Maharashtra	19989685	464674	1834983	161750	381999	134
DNH & DD	1623195	1643	3895	1081	0	0
Goa	689401	823	15286	6805	0	0
Sub-Total(WR)	45165017	499049	2187134	225805	818177	188
Andhra Pradesh	6094384	8187	194656	116838	750104	75
Telangana	5304108	8653	370388	122516	445913	66
Karnataka	5898289	249459	867395	204824	30850	189
Kerala	1286445	3058	210408	65009	106203	20
Tamil Nadu	7671838	7395	0	0	496940	1417
Puducherry	443794	564	6425	56942	0	0
Lakshadweep	0	0	232	72	0	0
Sub-Total(SR)	26698858	277316	1649503	566201	1830010	1767
Bihar	1301664	3976	56246	4504	114900	6
Jharkhand	3387282	2675	13520	828	53578	5
Odisha	2910060	4807	54621	15948	681450	50
West Bengal	4436489	5020	161631	54166	117751	56
Sikkim	76596	813	62	32	0	0
A&N Island	13451	439	2844	751	0	0
Sub-Total(ER)	12125541	17730	288924	76229	967679	117
Arunachal Pradesh	76672	110	8383	0	0	0
Assam	916449	3114	9283	3706	50600	6
Manipur	17501	109	4378	1029	0	0
Meghalaya	248382	223	1390	78	0	0
Mizoram	8289	26	986	520	0	0
Nagaland	0	0	8989	671	0	0
Tripura	75757	796	14572	2409	0	0
Sub-Total(NER)	1343049	4378	47981	8413	50600	6
Total (All India)	118087736	893178	4922493	946596	4076189	2747

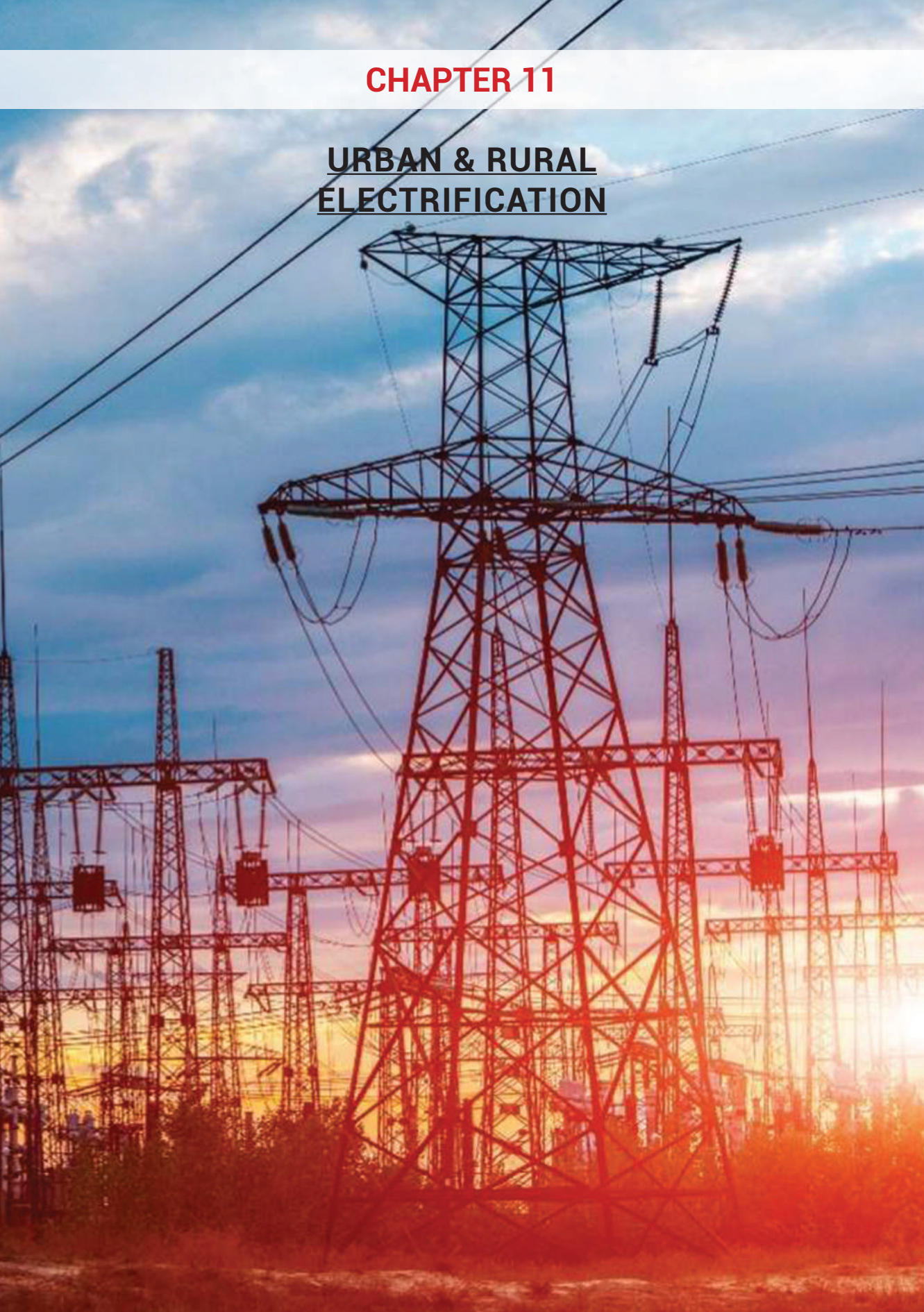


TABLE 10 (CONTD.)
CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD
REGIONWISE/STATEWISE
UTILITIES
31.03.2023

State/UTs	Agriculture		Public Water Works		Miscellaneous		Total	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Chandigarh	984	437	9090	392	46297	965	1639825	262292
Delhi	65891	10550	313739	7355	1396688	23970	23131027	6930441
Haryana	7954798	683789	520678	23865	1404724	3014	35160457	7664875
Himachal Pradesh	233907	42397	394955	8609	506370	51058	9159241	2777176
Jammu & Kashmir and Ladakh	181094	25244	151550	3116	453473	15693	4787357	2308354
Punjab	11183411	1390944	0	0	284391	54	42842797	10513750
Rajasthan	18773018	1700137	1079834	70611	1474213	387813	55748116	16567156
Uttar Pradesh	11139989	1459249	353465	27698	2494364	313110	63814542	32345673
Uttarakhand	354936	47203	138921	2490	1800	8	8100757	2827166
Sub-Total(NR)	49888028	5359950	2962231	144136	8062321	795685	244384119	82196883
Chhattisgarh	1766651	682573	173501	38962	0	0	11345962	6154314
Gujarat	16949892	1974593	1318948	114266	320168	73032	74411002	19752807
Madhya Pradesh	13320159	3525597	639934	59283	360418	2278	35913457	17444908
Maharashtra	17713903	4613620	1148782	58047	1361802	142063	99751672	34112256
DNH & DD	8232	2476	4897	589	1440	18100	2154450	157105
Goa	63907	12916	0	0	10545	15	3287126	696937
Sub-Total(WR)	49822744	10811775	3286062	271147	2054373	235488	226863668	78318327
Andhra Pradesh	12473839	1586970	709912	73311	7168319	717455	55756951	20342883
Telangana	11669926	2732331	567398	77231	3828827	95127	49435115	17629911
Karnataka	20125594	3389525	2178951	291447	4336505	1319149	76543219	29863472
Kerala	1032237	518597	173	3	38777	2442	31728360	13709574
Tamil Nadu	9854135	2335614	3153219	809681	3615012	1930734	95442626	33115958
Puducherry	60602	7081	52239	151	2843	8248	1553614	529688
Lakshadweep	0	0	0	0	166	129	88045	26977
Sub-Total(SR)	55216332	10570118	6661893	1251824	18990450	4073284	310547930	115218463
Bihar	1041906	495348	268189	88128	0	91	23986084	18955555
Jharkhand	75118	75103	0	0	295132	131	21163341	4978741
Odisha	856005	169664	236953	21462	458209	73852	17776282	9662859
West Bengal	1422992	360178	571356	39825	260267	5276	30905770	25835190
Sikkim	0	0	0	0	37834	1910	289909	122334
A&N Island	1303	612	0	0	43030	2221	383686	149621
Sub-Total(ER)	3397324	1100905	1076498	149415	1094471	83481	94505072	59704300
Arunachal Pradesh	27	20	3249	1196	31203	454	268742	298447
Assam	164979	53381	142499	14148	1317957	152152	10681067	7088034
Manipur	1080	69	25255	219	56636	790	1088030	541766
Meghalaya	105	22	19241	546	65134	2892	1206781	682030
Mizoram	4609	71	45680	232	21991	17718	564612	284603
Nagaland	11	1	843	41	41459	2122	205377	322600
Tripura	36513	8099	130357	11639	313182	3890	1085491	964990
Sub-Total(NER)	207323	61663	367123	28021	1847562	180018	15100100	10182470
Total (All India)	158531751	27904411	14353808	1844543	32049176	5367956	891400891	345620443

CHAPTER 11

URBAN & RURAL ELECTRIFICATION







CHAPTER 11

URBAN & RURAL ELECTRIFICATION

High priority continued to be attached to the implementation of rural electrification work. The programme included among other measures, maximization of electricity generation, electrification of villages and rural households as speedily as possible and improve irrigation through energization of pump sets. Rural electrification is the responsibility of State Governments/State Electricity Departments/Distribution Companies which own & operate the distribution system in the State. Rural electrification schemes are formulated and implemented by the State Governments according to the priorities fixed by them and depending upon the availability of financial resources & other inputs.

The funds for rural electrification programme are provided by the Government of India under Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) scheme and supplemented by financial institutions like REC Ltd.

The prevailing definition of village electrification modified in Feb. 2004 states: "A village would be declared as electrified if Electricity is provided to public places like Schools, Panchayat Office, Health Centres, Dispensaries, Community Centres etc. and the number of households electrified are at least 10% of the total number of households in the village.

The Tables 11.1 to 11.3 gives the details of Urban Electrification, Rural Electrification and existing irrigation Pump sets / Tube wells in the country.

- As per the information received from the MIS of DDUGJY as on 31st March 2023, the total number of villages electrified was 597464 out of total number of villages of 597464 in the country representing 100 %.
- All the States/UTs have achieved 100% village electrification as per the above definition.
- As per census 2011 data, all the towns i.e. 7935 towns are already electrified in the country.
- The total number of existing irrigation pump-sets/tube-wells in the country were 27163458 as on 31st March, 2023.
- Maharashtra has maximum number of energized pump- sets (4476130) followed by Karnataka (3119019).
- The average capacity and electricity consumption per pump-set was 5.84kW and 8977 kWh respectively.
- The electricity consumption during 2022-23 in Agriculture sector is third highest being 19.29% of total consumption of electricity in the country.



TABLE 11.1
TOWNS ELECTRIFIED
31.03.2023

Name of the State/UTs	Total No. of Towns as per 2011 Census	Towns Electrified
Chandigarh	6	6
Delhi	113	113
Haryana	154	154
Himachal Pradesh	59	59
UT of J&K and Ladakh	122	122
Punjab	217	217
Rajasthan	297	297
Uttar Pradesh	915	915
Uttarakhand	116	116
Sub-Total (NR)	1999	1999
Chhattisgarh	182	182
Gujarat	348	348
Madhya Pradesh	476	476
Maharashtra	535	535
Daman & Diu	8	8
D. & N. Haveli	6	6
Goa	70	70
Sub-Total(WR)	1625	1625
Andhra Pradesh	195	195
Telangana (erstwhile AP)*	158	158
Karnataka	347	347
Kerala	520	520
Tamil Nadu	1097	1097
Puducherry	10	10
Lakshadweep	6	6
Sub-Total(SR)	2333	2333
Bihar	199	199
Jharkhand	228	228
Odisha	223	223
West Bengal	909	909
Sikkim	9	9
A.& N. Islands	5	5
Sub-Total(ER)	1573	1573
Arunachal Pradesh	27	27
Assam	214	214
Manipur	51	51
Meghalaya	22	22
Mizoram	23	23
Nagaland	26	26
Tripura	42	42
Sub-Total (NER)	405	405
Total (All India)	7935	7935



TABLE 11.2
ALL INDIA VILLAGES ELECTRIFIED
STATEWISE
31.03.2023

Name of the State/UTs	Total Inhabited Villages as per 2011 census	Villages Electrified as on 31.03.2021	% age Electrified
Chandigarh	5	5	100.00
Delhi	103	103	100.00
Haryana	6642	6642	100.00
Himachal Pradesh	17882	17882	100.00
UT of J&K and Ladakh	6337	6337	100.00
Punjab	12168	12168	100.00
Rajasthan	43264	43264	100.00
Uttar Pradesh	97813	97813	100.00
Uttarakhand	15745	15745	100.00
Sub-Total (NR)	199959	199959	100.00
Chhattisgarh	19567	19567	100.00
Gujarat	17843	17843	100.00
Madhya Pradesh	51929	51929	100.00
Maharashtra	40956	40956	100.00
Daman & Diu	19	19	100.00
D. & N. Haveli	65	65	100.00
Goa	320	320	100.00
Sub-Total(WR)	130699	130699	100.00
Andhra Pradesh	16158	16158	100.00
Telangana	10128	10128	100.00
Karnataka	27397	27397	100.00
Kerala	1017	1017	100.00
Tamil Nadu	15049	15049	100.00
Puducherry	90	90	100.00
Lakshadweep	6	6	100.00
Sub-Total(SR)	69845	69845	100.00
Bihar	39073	39073	100.00
Jharkhand	29492	29492	100.00
Odisha	47677	47677	100.00
West Bengal	37463	37463	100.00
Sikkim	425	425	100.00
A. & N. Islands	396	396	100.00
Sub-Total(ER)	154526	154526	100.00
Arunachal Pradesh	5258	5258	100.00
Assam	25372	25372	100.00
Manipur	2379	2379	100.00
Meghalaya	6459	6459	100.00
Mizoram	704	704	100.00
Nagaland	1400	1400	100.00
Tripura	863	863	100.00
Sub-Total (NER)	42435	42435	100.00
Total (All India)	597464	597464	100.00



TABLE 11.3
ALL INDIA IRRIGATION PUMPSETS/ TUBEWELLS ENERGISED - STATEWISE
31.03.2023

Name of the State/UTs	Number. of Pumpsets Energised up to 31.03.2022	New Pumpsets Energised during the year 2022-23 (Prov.)	No. of Existing Pumpsets Energised upto 31.03.2023	Agricultural Consumption		Agricultural Connected Load (kW)	Average Capacity pumpset (kW)	Avg. Consumption per pumpset (kWh)
				Energy (GWh)	% of total Consumption in the state			
1	2	3	4	5	6	7	8 (7/4)	9 (5/4)
Chandigarh	421	0	421	1.58	0.10	984.00	2.34	3752.97
Delhi	30651	0	30651	39.97	0.12	65891.36	2.15	1303.91
Haryana	670156	6790	676946	10204.06	18.47	7954798.00	11.75	15073.68
Himachal Pradesh	42590	4590	47180	90.93	0.83	233906.73	4.96	1927.30
UT of J&K and Ladakh	20471	0	20471	358.24	3.67	181093.71	8.85	17499.88
Punjab	1378967	11935	1390902	13805.04	23.59	11183410.86	8.04	9925.24
Rajasthan	1601139	208347	1809486	30734.09	38.60	18773018.31	10.37	16984.98
Uttar Pradesh	1412948	38868	1451816	20716.02	17.91	11139988.81	7.67	14269.04
Uttarakhand	34364	3851	38215	418.24	3.10	354936.00	9.29	10944.39
Sub-Total (NR)	5191707	274381	5466088	76368.16	20.15	49888027.79	9.13	13971.26
Chhattisgarh	549504	0	549504	6875.65	22.56	1766651.00	3.21	12512.46
Gujarat	1906207	7129	1913336	21511.19	17.33	16949891.50	8.86	11242.76
Madhya Pradesh	3076105	31605	3107710	27688.95	39.32	13320159.00	4.29	8909.76
Maharashtra	4476130	0	4476130	37480.11	24.10	17713903.00	3.96	8373.33
DNH & DD	2452	0	2452	7.31	0.08	8232.00	3.36	2981.24
Goa	12669	262	12931	37.14	0.82	63907.40	4.94	2872.17
Sub-Total(WR)	10023067	38996	10062063	93600.34	23.73	49822743.90	4.95	9302.30
Andhra Pradesh	1904499	0	1904499	9419.91	14.97	12473838.84	6.55	4946.14
Telangana	2582464	92927	2675391	22183.58	32.71	11669925.80	4.36	8291.72
Karnataka	3119019	0	3119019	21284.08	32.08	20125593.57	6.45	6823.97
Kerala	566332	0	566332	393.56	1.58	1032237.00	1.82	694.93
Tamil Nadu	2280204	23818	2304022	14219.07	13.71	9854135.10	4.28	6171.41
Puducherry	7389	0	7389	58.68	2.02	60602.00	8.20	7941.53
Lakshadweep	0	0	0	0.00	0.00	0.00	0.00	0.00
Sub-Total(SR)	10459907	116745	10576652	67558.88	20.56	55216332.31	5.22	6387.55
Bihar	384940	0	384940	3779.76	12.46	1041906.00	2.71	9819.09
Jharkhand	100000	0	100000	148.58	0.56	75118.00	0.75	1485.77
Odisha	124521	36729	161250	644.34	2.12	856005.28	5.31	3995.91
West Bengal	345017	15161	360178	1615.99	2.76	1422991.71	3.95	4486.64
Sikkim	0	0	0	0.00	0.00	0.00	0.00	0.00
A & N. Islands	493	91	584	1.51	0.53	1302.90	2.23	2585.56
Sub-Total(ER)	954971	51981	1006952	6190.18	4.22	3397323.89	3.37	6147.44
Arunachal Pradesh	17	0	17	0.05	0.01	27.19	1.60	3226.18
Assam	34178	8625	42803	72.34	0.72	164978.56	3.85	1690.07
Manipur	108	0	108	5.87	0.69	1079.78	10.00	54351.85
Meghalaya	28	0	28	0.13	0.01	105.00	3.75	4814.65
Mizoram	54	0	54	1.06	0.22	4609.00	85.35	19674.31
Nagaland	194	0	194	0.02	0.00	11.24	0.06	103.09
Tripura	7044	1455	8499	55.21	4.78	36512.56	4.30	6495.69
Sub-Total (NER)	41623	10080	51703	134.69	0.87	207323.33	4.01	2605.05
Total (All India)	26671275	492183	27163458	243852.25	19.29	158531751.21	5.84	8977.22



CHAPTER 12

POWER TRADING







CHAPTER 12

POWER TRADING

Power Trading has been instituted with incorporation of Power Trading Corporation of India in the year 1999. Enactment of Electricity Act, 2003 paved a way for developing market for optimal utilization of energy; promote exchange of power with the neighboring countries and easy access for exchange of power within the country from surplus to deficit system.

The Power Trading has been incorporated in the General Review with a view that it may be useful to the utilities. The chapter enumerates the Power Trading Licensees along with category they belong to and their status during the year followed by state-wise Import/Export of energy during the year.

- There are Forty Seven (47) numbers of trading companies having trading license as on 31-03-2023. These trading companies have been classified as per the volume of trade permitted during the year, based on category of license for trading (I-V).
- The total volume of electrical energy traded by the companies during 2022-23 was 17262.86 GWh which constitute 1.07 % of the total generation from utilities as against 24142.97 GWh which constituted 1.63 % of the total generation from utilities in the previous year 2021-22.
- Out of total volume of trade of 17262.86 GWh, Power Trading Corporation (PTC) which has traded 5127.47 GWh constituting 29.70 % of total volume of trade.
- PTC was followed by TPTCL which traded 5086.81 GWh constituting 29.47%, NVVNL which traded 2724.73 GWh constituting 15.78%, AEL which traded 1373.86 GWh constituting 7.96%.
- The total traded volume of the above, four traders amounts to 82.91% of the total volume of electricity traded by all 47 Nos. of trading companies.
- Maximum volume of electricity was traded by trading companies is between sale price range of Rs 4.001 per kWh to Rs 5.0 per kWh.



TABLE 12.1
NAME OF THE TRADING COMPANIES EXISTING
31.03.2023

Sl. No.	Name of the Trading Licensee	Date of Issue	Present Category of License
1	Adani Enterprises Ltd	09.06.2004	I
2	GMR Energy Trading Ltd	14.10.2008	I
3	Manikaran Power Ltd	29.06.2012	I
4	NHPC Limited	23.04.2018	I
5	NLC India Ltd.	13.07.2018	I
6	NTPC Limited	08.07.2019	I
7	NTPC Vidyut Vyapar Nigam Ltd	23.07.2004	I
8	PTC India Ltd	30.06.2004	I
9	Refex Energy Ltd.	30.08.2018	I
10	Refex Industries Ltd.	21.03.2022	I
11	SJVN Limited	10.01.2022	I
12	Solar Energy Corporation of India	01.04.2014	I
13	Statkraft Markets (P) Ltd	21.06.2012	I
14	Tata Power Trading Company Ltd	09.06.2004	I
15	Arunachal Pradesh Power Corporation (P) Ltd	11.09.2012	II
16	Kreate Energy (I) Pvt. Ltd.	12.02.2009	II
17	Kundan International Private Ltd.	29.04.2022	II
18	RPG Power Trading Company Ltd	23.09.2008	II
19	ABJA Power Pvt. Ltd.	26.04.2011	III
20	AEI New Energy Trading Pvt. Ltd.	25.03.2022	III
21	Greenko Energies (P) Ltd	22.01.2008	III
22	Instinct Infra & Power Ltd	07.09.2005	III
23	National Energy Trading & Services Ltd	23.07.2004	III
24	Visual Percept Solar Projects Private Ltd.	27.11.2022	III
25	Ambitious Power Trading Company Ltd	16.09.2008	IV
26	JSW Power Trading Company Ltd.	25.04.2006	IV
27	Knowledge Infrastructure Systems (P) Ltd	18.12.2008	IV
28	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
29	ReNew Energy markets Pvt. Ltd.	28.11.2021	IV
30	Shree Cement Ltd	16.03.2010	IV
31	VEH Global India Private Ltd.	26.12.2022	IV
32	Altium Energies Pvt. Ltd.	23.05.2021	V
33	Amp Energy Markets India Pvt. Ltd.	15.04.2021	V
34	Atria Energy Services Private Limited	20.06.2017	V
35	Customised Energy Solutions India (P) Ltd	08.06.2011	V
36	Gita Power Infrastructured (P) Ltd.	20.10.2015	V
37	Ideal Energy Solutions Pvt. Ltd.	22.03.2022	V
38	Instant Ventures Pvt. Ltd.	09.02.2022	V
39	Powerfull Energy Trading Private Ltd.	09.08.2022	V
40	REL Power Trading LLP	13.12.2022	V
41	Reneurja Power LLP	31.07.2021	V
42	Saini Power Transctor	06.07.2022	V
43	Shell Energy Marketing and Trading India Pvt. Ltd.	22.12.2021	V
44	Shubheksha Advisors Pvt. Ltd.	31.07.2021	V
45	Essar Electric Power Development Corporation Ltd.*	14.12.2005	*
46	Vedprakash Power (P) Ltd.*	19.08.2013	*
47	Saranyu Power Trading Private Limited	10.02.2015	*

* License category is provisional due to pending litigation(s).

Trading Limit for Category of License

Category I : No limit

Category II : Upto 7000 MU

Category III : Upto 4000 MU

Category IV : Upto 2000 MU

Category V : Upto 500 MU

Source – CERC



TABLE 12.2
STATE WISE IMPORT/EXPORT OF TRADED ENERGY DURING
2022-23

(GWh)

State/UTs	Export Gwh	Import Gwh
Chandigarh	0.00	0.00
Delhi	7.19	1434.82
Haryana	442.23	2304.91
Himachal Pradesh	1351.28	7.19
Jammu & Kashmir	26.85	0.00
Punjab	0.00	1408.77
Rajasthan	1183.84	0.00
Uttar Pradesh	272.32	1238.05
Uttarakhand	282.38	582.50
Northern Region	3566.07	6976.25
Chhattisgarh	4689.10	0.00
Gujarat	413.73	5040.48
Madhya Pradesh	3689.97	368.26
Maharashtra	67.37	1709.87
Daman & Diu	0.00	0.00
Dadar & Nagar Haveli	0.00	0.00
Goa	4.49	56.56
Western Region	8864.65	7175.17
Andhra Pradesh	1011.79	652.25
Telangana	184.15	0.00
Karnataka	115.03	31.35
Kerala	0.00	122.09
Tamil Nadu	696.23	1820.75
Puducherry	0.00	185.35
Lakshadweep	0.00	0.00
Southern Region	2007.19	2811.80
Bihar	0.00	0.00
Jharkhand	436.82	0.00
West Bengal	527.05	180.69
Odisha	872.72	36.98
Sikkim	452.40	22.02
A. & N. Islands	0.00	0.00
Eastern Region	2289.00	239.68
Arunachal Pradesh	25.32	0.00
Assam	0.00	0.00
Manipur	0.00	0.00
Meghalaya	483.77	0.00
Mizoram	0.00	1.45
Nagaland	0.00	0.00
Tripura	26.55	3.49
North-Eastern Region	535.64	4.93
Central Sector	0.00	0.00
Other Country	0.00	0.00
Inter Trader	0.30	55.02
All India	17262.86	17262.86



TABLE 12.3
STATE WISE IMPORT FIGURES DURING
2022-23

(GWh)

State/UTs	PEAK	Round the Clock	Other than Peak & RTC	Total
Chandigarh	0.00	0.00	0.00	0.00
Delhi	2.80	1286.01	146.01	1434.82
Haryana	0.00	2304.91	0.00	2304.91
Himachal Pradesh	0.00	0.00	7.19	7.19
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	0.00	1408.77	0.00	1408.77
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	18.33	157.01	1062.71	1238.05
Uttarakhand	0.00	582.50	0.00	582.50
Northern Region	21.13	5739.21	1215.91	6976.25
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	0.00	4913.33	127.15	5040.48
Madhya Pradesh	0.00	0.00	368.26	368.26
Maharashtra	0.00	1351.58	358.29	1709.87
Daman & Diu	0.00	0.00	0.00	0.00
Dadar & Nagar Haveli	0.00	0.00	0.00	0.00
Goa	0.00	31.79	24.77	56.56
Western Region	0.00	6296.70	878.47	7175.17
Andhra Pradesh	0.00	616.88	35.37	652.25
Telangana	0.00	0.00	0.00	0.00
Karnataka	0.00	30.40	0.96	31.35
Kerala	0.00	95.27	26.81	122.09
Tamil Nadu	0.00	1820.75	0.00	1820.75
Puducherry	0.00	0.00	185.35	185.35
Lakshadweep	0.00	0.00	0.00	0.00
Southern Region	0.00	2563.31	248.49	2811.80
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
West Bengal	0.00	171.56	9.13	180.69
Odisha	0.00	32.13	4.85	36.98
Sikkim	0.00	6.93	15.09	22.02
A. & N. Islands	0.00	0.00	0.00	0.00
Eastern Region	0.00	210.62	29.06	239.68
Arunachal Pradesh	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
Mizoram	0.00	1.45	0.00	1.45
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	3.49	3.49
North-Eastern Region	0.00	1.45	3.49	4.93
Central Sector	0.00	0.00	0.00	0.00
Other Country	0.00	0.00	0.00	0.00
Inter Trader	0.00	0.00	55.02	55.02
All India	21.13	14811.28	2430.44	17262.86



TABLE 12.4
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWH DURING
2022-23

(GWh)

State/UTs	Import	Export	Trader
Delhi	36.00	0.00	AEL
	8.43	0.00	GMR
	398.50	0.00	MPL
	142.15	0.00	NVVN
	203.26	0.00	PTC
	638.45	7.19	TPTCL
	2.80	0.00	IPL
	4.10	0.00	RPG
	0.84	0.00	JSW
	0.30	0.00	SJVN
Total	1434.82	7.19	
Haryana	73.86	0.00	MPL
	362.54	0.00	NHPC
	572.63	0.00	NVVN
	452.98	0.00	PTC
	842.91	442.23	TPTCL
Total	2304.91	442.23	
Himachal Pradesh	0.00	13.88	GMR
	0.00	0.32	KEIPL
	0.00	302.10	PTC
	7.19	1030.88	TPTCL
	0.00	4.10	RPG
Total	7.19	1351.28	
UT of J&K and Ladakh	0.00	26.85	PTC
Total	0.00	26.85	
Punjab	209.97	0.00	AEL
	66.73	0.00	MPL
	113.33	0.00	NVVN
	277.60	0.00	PTC
	741.14	0.00	TPTCL
Total	1408.77	0.00	
Rajasthan	0.00	44.18	AEL
	0.00	1.09	APPCPL
	0.00	7.40	KEIPL
	0.00	329.12	MPL
	0.00	0.88	TPTCL
	0.00	553.61	NTPC
	0.00	247.57	SCL
Total	0.00	1183.84	
Uttar Pradesh	85.77	0.00	AEL
	62.37	0.00	APPCPL
	36.68	0.00	KEIPL
	31.07	0.00	MPL
	42.64	0.00	NVVN
	935.65	0.00	PTC
	43.87	272.32	TPTCL
Total	1238.05	272.32	
Uttarakhand	83.13	0.00	AEL
	16.09	0.00	APTCL
	0.00	80.29	PTC
	135.75	0.00	NVVN
	347.52	202.08	TPTCL
Total	582.50	282.38	



**TABLE 12.4 (CONTD.)
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWH DURING
2022-23**

(GWh)

State/UTs	Import	Export	Trader
Northern Region	6976.25	3566.07	
Chhattisgarh	0.00	688.59	AEL
	0.00	16.09	APTCL
	0.00	0.67	KEIPL
	0.00	477.24	MPL
	0.00	652.54	NVVN
	0.00	1197.01	PTC
	0.00	1656.95	TPTCL
Total	0.00	4689.10	
Gujarat	225.01	70.75	AEL
	0.00	2.44	APPCPL
	20.02	0.00	GMR
	0.00	20.85	KEIPL
	185.99	0.00	MPL
	502.89	0.00	NVVN
	2232.48	319.69	PTC
	1874.08	0.00	TPTCL
Total	5040.48	413.73	
Madhya Pradesh	0.00	567.72	AEL
	0.00	1.20	APPCPL
	0.00	2.80	I IPL
	0.00	1.28	KEIPL
	0.00	97.91	MPL
	0.00	362.54	NHPC
	368.26	0.00	NTPC
	0.00	983.17	NVVN
	0.00	1667.46	PTC
	0.00	5.90	TPTCL
Total	368.26	3689.97	
Maharashtra	733.98	0.00	AEL
	0.00	12.00	APPCPL
	55.53	28.04	GMR
	1.01	0.84	KEIPL
	50.41	0.00	MPL
	253.79	4.02	NVVN
	268.77	22.47	PTC
	346.38	0.00	TPTCL
Total	1709.87	67.37	
Goa	0.00	4.49	GMR
	56.56	0.00	NVVN
Total	56.56	4.49	
Western Region	7175.17	8864.65	



**TABLE 12.4 (CONTD.)
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWH DURING
2022-23**

(GWh)

State/UTs	Import	Export	Trader
Andhra Pradesh	0.00	18.33	APPCPL
	0.00	8.43	GMR
	0.00	1.01	KEIPL
	1.25	0.00	MPL
	356.15	70.18	NVVN
	294.86	865.79	PTC
	0.00	48.05	TPTCL
Total	652.25	1011.79	
Kerala	65.47	0.00	NVVN
	13.91	0.00	PTC
	42.71	0.00	TPTCL
Total	122.09	0.00	
Karnataka	0.00	2.62	AEL
	31.35	0.00	APPCPL
	0.00	0.84	JSW
	0.00	15.59	KEIPL
	0.00	95.98	PTC
Total	31.35	115.03	
Puducherry	185.35	0.00	NTPC
Total	185.35	0.00	
Tamil Nadu	0.00	26.63	GMR
	511.70	414.00	MPL
	423.39	65.47	NVVN
	447.97	0.00	PTC
	190.12	190.12	RIL
	247.57	0.00	SCL
Total	1820.75	696.23	
Telangana	0.00	91.06	NVVN
	0.00	59.36	PTC
	0.00	33.74	TPTCL
Total	0.00	184.15	
Southern Region	2811.80	2007.19	
Jharkhand	0.00	32.03	APPCPL
	0.00	272.85	NVVN
	0.00	48.48	PTC
	0.00	83.45	TPTCL
Total	0.00	436.82	
Odisha	4.85	31.35	APPCPL
	0.00	2.51	GMR
	0.00	1.25	MPL
	0.00	67.43	NVVN
	0.00	11.73	PTC
	32.13	758.45	TPTCL
Total	36.98	872.72	



**TABLE 12.4 (CONTD.)
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWH DURING
2022-23**

(GWh)

State/UTs	Import	Export	Trader
Sikkim	0.00	0.12	APPCPL
	22.02	22.02	KEIPL
	0.00	430.26	PTC
Total	22.02	452.40	
West Bengal	10.26	0.00	KEIPL
	170.43	527.05	TPTCL
Total	180.69	527.05	
Eastern Region	239.68	2289.00	
Arunachal Pradesh	0.00	25.32	NVVN
Total	0.00	25.32	
Meghalaya	0.00	483.77	NVVN
Total	0.00	483.77	
Mizoram	1.45	0.00	NVVN
Total	1.45	0.00	
Tripura	3.49	8.90	NVVN
	0.00	17.65	TPTCL
Total	3.49	26.55	
North Eastern Region	4.93	535.64	
Central Sector	0.00	0.00	
Inter Trader	55.02	0.30	
All India	17262.86	17262.86	
Export/Import from other country	0.00	0.00	PTC
Total Other Country	0.00	0.00	
Grand Total	17262.86	17262.86	



TABLE 12.5
TRADER-WISE STATE-WISE ENERGY SALES DURING
2022-23

(GWh)

Trader	Sales to	Sales Vol.	% Vol.
AEL	Delhi	36.00	
	Gujarat	225.01	
	Uttar Pradesh	85.77	
	Maharashtra	733.98	
	Punjab	209.97	
	Rajasthan	83.13	
Total AEL		1373.86	7.96
APPCPL	Odisha	4.85	
	Uttar Pradesh	62.37	
	Karnataka	31.35	
Total APPCPL		98.56	0.57
GMR	Delhi	8.43	
	Gujarat	20.02	
	Maharashtra	55.53	
Total GMR		83.97	0.49
KEIPL	Uttar Pradesh	36.68	
	West Bengal	10.26	
	Maharashtra	1.01	
	Sikkim	22.02	
Total KEIPL		69.98	0.41
MPL	Andhra Pradesh	1.25	
	Delhi	398.50	
	Gujarat	185.99	
	Haryana	73.86	
	Tamil Nadu	511.70	
	Uttar Pradesh	31.07	
	Maharashtra	50.41	
	Punjab	66.73	
Total MPL		1319.51	7.64
NHPC	Haryana	362.54	
Total NHPC		362.54	2.10
			(GWh)
Trader	Sales to	Sales Vol.	% Vol.
NVVNL	Andhra Pradesh	356.15	
	Delhi	142.15	
	Goa	56.56	
	Gujarat	502.89	
	Haryana	572.63	
	Kerala	65.47	
	Tamil Nadu	423.39	
	Uttar Pradesh	42.64	
	Maharashtra	253.79	
	Punjab	113.33	



**TABLE 12.5 (CONTD.)
TRADER-WISE STATE-WISE ENERGY SALES DURING
2022-23**

Trader	Sales to	Sales Vol.	% Vol.
	Uttarakhand	135.75	
	TRIPURA	3.49	
	Mizoram	1.45	
	Inter Trader	55.02	
Total NVVNL		2724.73	15.78
PTC	Andhra Pradesh	294.86	
	Delhi	203.26	
	Gujarat	2232.48	
	Haryana	452.98	
	Kerala	13.91	
	Tamil Nadu	447.97	
	Uttar Pradesh	935.65	
	Maharashtra	268.77	
	Punjab	277.60	
Total PTC		5127.47	29.70
TPTCL	Delhi	638.45	
	Gujarat	1874.08	
	Haryana	842.91	
	Kerala	42.71	
	Odisha	32.13	
	Uttar Pradesh	43.87	
	West Bengal	170.43	
	Maharashtra	346.38	
	Punjab	741.14	
	Himachal Pradesh	7.19	
	Uttarakhand	347.52	
Total TPTCL		5086.81	29.47
I IPL	Delhi	2.80	
Total I IPL		2.80	0.02
NTPC	Madhya Pradesh	368.26	
	Puducherry	185.35	
Total NTPC		553.61	3.21
RPG	Delhi	4.10	
Total RPG		4.10	0.02
JSW	Delhi	0.84	
Total JSW		0.84	0.00
SCL	Tamil Nadu	247.57	
Total SCL		247.57	1.43
APTCL	Uttarakhand	16.09	
Total APTCL		16.09	0.09
RIL	Tamil Nadu	190.12	
RIL Total		190.12	1.10
SJVN	Delhi	0.30	
Total SJVN		0.30	0.00
Total All India		17262.86	100.00



Volume of Electricity Traded Sale Price wise
2018-19 to 2022-23

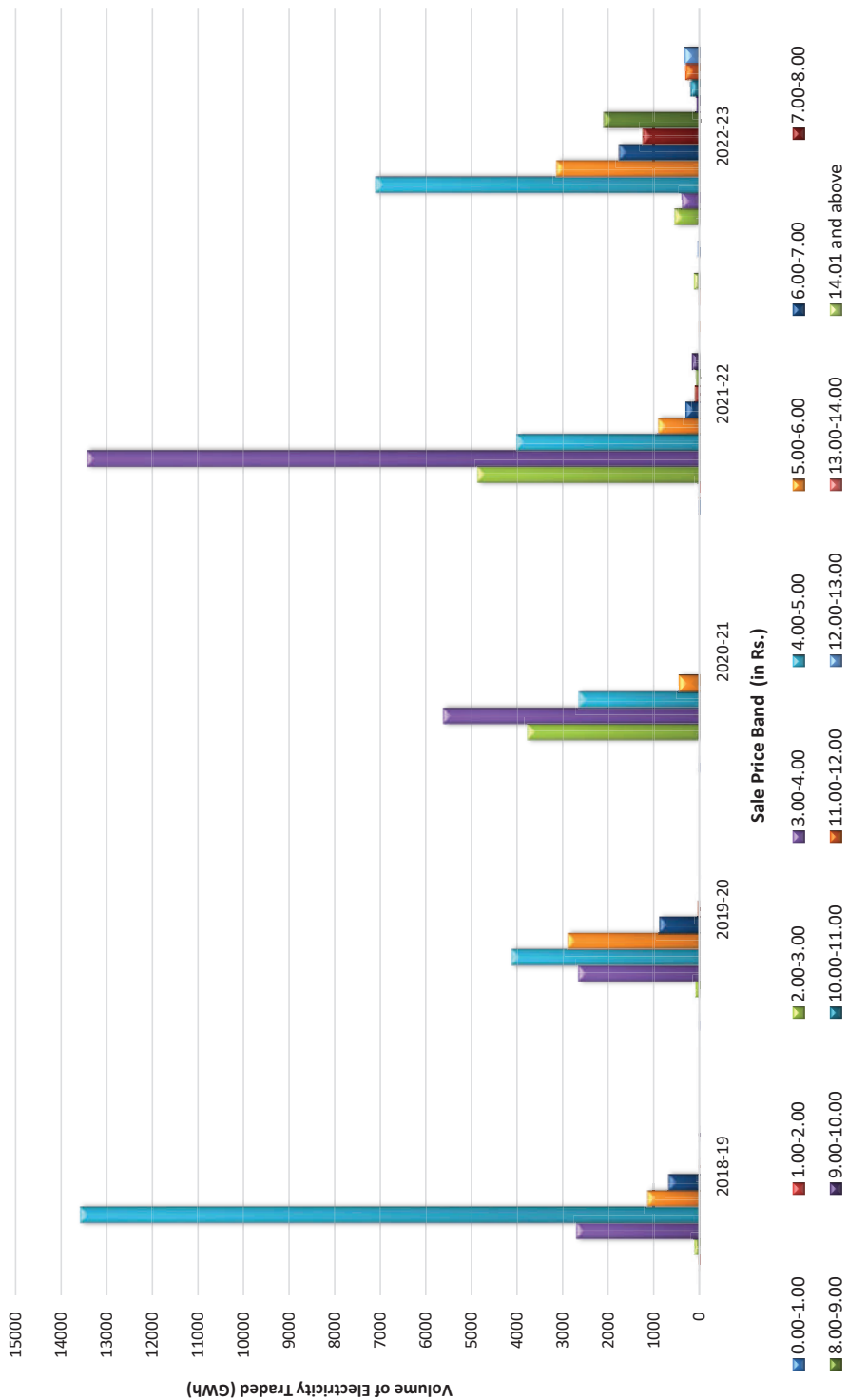




TABLE 12.6
AVERAGE SALE AND PURCHASE PRICE OF ELECTRICITY TRADED AND TRADING MARGIN-TRADER-WISE
2022-23

Sl. No.	Name of Trading Licensee	Average Purchase Price (Rs.)	Average Sale Price (Rs.)	Average Trading Margin (Rs.)
1	Adani Enterprises Ltd.	6.037	6.040	0.002
2	Arunachal Pradesh Power Corporation Private Limited	1.908	1.927	0.019
3	GMR Energy Trading Ltd	7.082	7.131	0.049
4	Kreate Energy (I) Pvt. Ltd.	5.023	5.042	0.020
5	Manikaran Power Limited	4.731	4.752	0.023
6	NHPC Limited	5.010	5.030	0.020
7	NTPC Vidyut Vyapar Nigam Ltd.	5.703	5.735	0.033
8	PTC India Ltd.	5.738	5.763	0.025
9	Tata Power Trading Company Ltd.	5.752	5.777	0.025
10	Instinct Infra & Power Ltd.	8.530	8.560	0.030
11	NTPC Ltd.	2.630	2.700	0.070
12	RPG	5.940	5.990	0.050
13	JSW	4.186	4.201	0.015
14	SCL	8.500	8.500	0.000
15	APTCL	8.315	8.320	0.005
16	RIL	8.480	8.500	0.020
17	SJVN	5.600	5.630	0.030
Grand Total		5.059	5.079	0.021

TABLE 12.7
VOLUME OF ELECTRICITY TRADED SALE PRICE-WISE
2022-23

Sale Price (Rs)	Volume (GWh)	% of Total Volume
0.00-1.000	39.46	0.23
1.001-2.000	0.00	0.00
2.001-3.000	555.19	3.22
3.001-4.000	386.23	2.24
4.001-5.000	7108.55	41.23
5.001-6.000	3137.55	18.20
6.001-7.000	1770.17	10.27
7.001-8.000	1243.48	7.21
8.001-9.000	2104.98	12.21
9.001-10.000	79.04	0.46
10.001-11.000	193.49	1.12
11.001-12.000	303.62	1.76
12.001-13.000	318.24	1.85
Total	17239.99	100.00

Note - Out of 17262.86 MU volumn traded in year 2022-23 , Sale price is available for 17239.99 MU

APPENDICES







LIST OF THERMAL POWER STATIONS AS ON 31.03.2023

APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
1. Northern Region (NR)									
1	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	1	30.000	30.000	1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	2	30.000	30.000	1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	3	30.000	30.000	1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	4	30.000	30.000	1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	5	30.000	30.000	1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	6	30.000	30.000	1986
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	7	30.000	30.000	1995
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	8	30.000	30.000	1995
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	9	30.000	30.000	1996
2	Delhi	State Sector	PPCL	PRAGATI CCPP	GT-Gas	1	104.600	104.600	2002
	Delhi	State Sector	PPCL	PRAGATI CCPP	GT-Gas	2	104.600	104.600	2002
	Delhi	State Sector	PPCL	PRAGATI CCPP	ST-Gas	3	121.200	121.200	2003
3	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	1	250.000	250.000	2010
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	2	250.000	250.000	2011
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	ST-Gas	3	250.000	250.000	2012
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	4	250.000	250.000	2012
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	5	250.000	250.000	2013
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	ST-Gas	6	250.000	250.000	2014
4	Delhi	Private Sector	TPDDL	RITHALA CCPP	GT-Gas	1	35.750	35.750	2010
	Delhi	Private Sector	TPDDL	RITHALA CCPP	GT-Gas	2	35.750	35.750	2010
	Delhi	Private Sector	TPDDL	RITHALA CCPP	ST-Gas	3	36.500	36.500	2011
	Total (Delhi)						2208.400		
5	Haryana	State Sector	HPGCL	YAMUNA NAGAR TPS	Steam	1	300.000	300.000	2007
	Haryana	State Sector	HPGCL	YAMUNA NAGAR TPS	Steam	2	300.000	300.000	2008
6	Haryana	State Sector	HPGCL	RAJIV GANDHI TPS	Steam	1	600.000	600.000	2010
	Haryana	State Sector	HPGCL	RAJIV GANDHI TPS	Steam	2	600.000	600.000	2010
7	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	6	210.000	210.000	2001
	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	7	250.000	250.000	2004
	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	8	250.000	250.000	2005



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
8	Haryana	Private Sector	JHAJJAR POWER LTD.	MAHATMA GANDHI TPS	Steam	1	660.000		2012
	Haryana	Private Sector	JHAJJAR POWER LTD.	MAHATMA GANDHI TPS	Steam	2	660.000		2012
	Total (Haryana)						3830.000		
9	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	1	25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	2	25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	3	25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	4	25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	5	25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	6	25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	7	25.000		1995
	Total (Jammu & Kashmir)								
10	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	1	210.000		1997
	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	2	210.000		1998
	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	3	250.000		2008
	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	4	250.000		2008
11	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	3	210.000		1988
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	4	210.000		1989
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	5	210.000		1992
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	6	210.000		1993
12	Punjab	Private Sector	Nabha Power Ltd	RAJPURA TPP	Steam	1	700.000		2014
	Punjab	Private Sector	Nabha Power Ltd	RAJPURA TPP	Steam	2	700.000		2014
13	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	1	660.000		2014
	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	2	660.000		2015
	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	3	660.000		2016
14	Punjab	Private Sector	GPGL (GVK)	GOINDWAL SAHIB TPP	Steam	1	270.000		2016
	Punjab	Private Sector	GPGL (GVK)	GOINDWAL SAHIB TPP	Steam	2	270.000		2016
	Total (Punjab)								
15	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	1	110.000		1983
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	2	110.000		1983
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	3	210.000		1988

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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	4	210.000		1989
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	5	210.000		1994
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	6	195.000		2003
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	7	195.000		2009
16	Rajasthan	State Sector	RRVUNL	GIRAL TPS	Steam	1	125.000		2007
	Rajasthan	State Sector	RRVUNL	GIRAL TPS	Steam	2	125.000		2010
17	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	1	250.000		2009
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	2	250.000		2010
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	3	250.000		2013
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	4	250.000		2014
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	5	660.000		2017
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	6	660.000		2019
18	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	1	250.000		1998
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	2	250.000		2000
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	3	250.000		2001
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	4	250.000		2002
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	5	250.000		2003
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	6	250.000		2009
	Rajasthan	State Sector	RRVUNL	SURATGARH STPS	Steam	7	660.000		2020
	Rajasthan	State Sector	RRVUNL	SURATGARH STPS	Steam	8	660.000		2021
19	Rajasthan	State Sector	RRVUNL	KALISINDH TPS	Steam	1	600.000		2014
	Rajasthan	State Sector	RRVUNL	KALISINDH TPS	Steam	2	600.000		2015
20	Rajasthan	State Sector	RRVUNL	DHOLPUR CCPP	GT-Gas	1	110.000		2007
	Rajasthan	State Sector	RRVUNL	DHOLPUR CCPP	GT-Gas	2	110.000		2007
	Rajasthan	State Sector	RRVUNL	DHOLPUR CCPP	GT-Gas	3	110.000		2007
21	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	1	3.000		1994
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	2	35.500		1996
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	3	37.500		2002
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	4	37.500		2003
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	5	110.000		2013
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	6	50.000		2013



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW		
22	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	Steam	1	660.000		2013
	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	Steam	2	660.000		2013
23	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	1	135.000		2009
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	2	135.000		2010
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	3	135.000		2011
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	4	135.000		2011
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	5	135.000		2013
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	6	135.000		2013
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	7	135.000		2013
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	8	135.000		2013
	Total (Rajasthan)						10833.500		
24	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	1	210.000		1986
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	2	210.000		1987
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	3	210.000		1988
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	4	500.000		1993
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	5	500.000		1994
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	6	500.000		2015
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	7	500.000		2016
25	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	7	105.000		1978
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	8	250.000		2011
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	9	250.000		2012
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	10	660.000		2022
26	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	9	200.000		1980
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	10	200.000		1979
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	11	200.000		1977
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	12	200.000		1981
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	13	200.000		1982
27	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	1	110.000		1984
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	2	110.000		1985
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	3	210.000		2006
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	4	210.000		2006
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	5	250.000		2012



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Uttar Pardesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	6	250.000		2013
28	Uttar Pardesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	1	45.000		2011
	Uttar Pardesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	2	45.000		2011
29	Uttar Pardesh	Private Sector	BEPL	MAGSOODPUR TPS	Steam	1	45.000		2011
	Uttar Pardesh	Private Sector	BEPL	MAGSOODPUR TPS	Steam	2	45.000		2012
30	Uttar Pardesh	Private Sector	BEPL	BARKHERA TPS	Steam	1	45.000		2011
	Uttar Pardesh	Private Sector	BEPL	BARKHERA TPS	Steam	2	45.000		2012
31	Uttar Pardesh	Private Sector	BEPL	UTRAULA TPS	Steam	1	45.000		2012
	Uttar Pardesh	Private Sector	BEPL	UTRAULA TPS	Steam	2	45.000		2012
32	Uttar Pardesh	Private Sector	BEPL	KUNDARKI TPS	Steam	1	45.000		2012
	Uttar Pardesh	Private Sector	BEPL	KUNDARKI TPS	Steam	2	45.000		2012
33	Uttar Pardesh	Private Sector	LAPPL	ANPARA C TPS	Steam	1	600.000		2011
	Uttar Pardesh	Private Sector	LAPPL	ANPARA C TPS	Steam	2	600.000		2011
34	Uttar Pardesh	Private Sector	RPSC	ROSA TPP Ph-I	Steam	1	300.000		2010
	Uttar Pardesh	Private Sector	RPSC	ROSA TPP Ph-I	Steam	2	300.000		2010
	Uttar Pardesh	Private Sector	RPSC	ROSA TPP Ph-I	Steam	3	300.000		2011
	Uttar Pardesh	Private Sector	RPSC	ROSA TPP Ph-I	Steam	4	300.000		2012
35	Uttar Pardesh	Private Sector	LPGCL	LALITPUR TPS	Steam	1	660.000		2016
	Uttar Pardesh	Private Sector	LPGCL	LALITPUR TPS	Steam	2	660.000		2016
	Uttar Pardesh	Private Sector	LPGCL	LALITPUR TPS	Steam	3	660.000		2016
36	Uttar Pardesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	1	660.000		2015
	Uttar Pardesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	2	660.000		2016
	Uttar Pardesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	3	660.000		2017
	Total (Uttar Pardesh)						12845.000		
37	Uttarakhand	Private Sector	Gama Infraprop Pvt. Ltd.	GAMA CCPP	Steam	1	225.000		2016
38	Uttarakhand	Private Sector	Sravanthi Energy Pvt. Ltd.	KASHIPUR CCPP	Steam	1	225.000		2016
	Total (Uttarakhand)						450.000		
39	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	1	500.000		2010
	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	2	500.000		2011
	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	3	500.000		2012
40	Haryana	Central Sector	NTPC	FARIDABAD CCPP	GT-Gas	1	137.760		1999
	Haryana	Central Sector	NTPC	FARIDABAD CCPP	GT-Gas	2	137.760		1999



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
41	Haryana	Central Sector	NTPC	FARIDABAD CCPP	ST-Gas	3	156.070		2000
	Rajasthan	Central Sector	NLC	BARSINGGAR LIGNITE	Steam	1	125.000		2010
	Rajasthan	Central Sector	NLC	BARSINGGAR LIGNITE	Steam	2	125.000		2011
42	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	1	88.710		1989
	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	2	88.710		1989
	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	3	88.710		1989
43	Rajasthan	Central Sector	NTPC	ANTA CCPP	ST-Gas	4	153.200		1989
	Uttar Pardesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	1	210.000		1991
	Uttar Pardesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	2	210.000		1992
	Uttar Pardesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	3	210.000		1993
	Uttar Pardesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	4	210.000		1994
	Uttar Pardesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	5	490.000		2010
44	Uttar Pardesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	6	490.000		2010
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	1	500.000		1988
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	2	500.000		1989
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	3	500.000		2005
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	4	500.000		2005
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	5	500.000		2012
45	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	6	500.000		2013
	Uttar Pardesh	Central Sector	NTPC	SINGRAULI STPS	Steam	1	200.000		1982
	Uttar Pardesh	Central Sector	NTPC	SINGRAULI STPS	Steam	2	200.000		1982
	Uttar Pardesh	Central Sector	NTPC	SINGRAULI STPS	Steam	3	200.000		1983
	Uttar Pardesh	Central Sector	NTPC	SINGRAULI STPS	Steam	4	200.000		1983
	Uttar Pardesh	Central Sector	NTPC	SINGRAULI STPS	Steam	5	200.000		1984
	Uttar Pardesh	Central Sector	NTPC	SINGRAULI STPS	Steam	6	500.000		1986
	Uttar Pardesh	Central Sector	NTPC	SINGRAULI STPS	Steam	7	500.000		1987
	46	Uttar Pardesh	Central Sector	TANDA TPS	Steam	1	110.000		1988
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	3	110.000		1990
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	4	110.000		1998
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	5	660.000		2019
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	5	660.000		2019
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	6	660.000		2021
	47	Uttar Pardesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	1	210.000	



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	2	210.000		1989
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	3	210.000		1999
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	4	210.000		1999
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	5	210.000		2006
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	6	500.000		2017
48	Uttar Pradesh	Central Sector	MUNPL	MEJA STPP	Steam	1	660.000		2018
	Uttar Pradesh	Central Sector	MUNPL	MEJA STPP	Steam	2	660.000		2021
49	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	1	130.190		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	2	130.190		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	3	130.190		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	4	130.190		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	ST-Gas	5	154.510		1994
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	ST-Gas	6	154.510		1994
50	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	1	111.190		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	2	111.190		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	3	111.190		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	4	111.190		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	ST-Gas	5	109.300		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	ST-Gas	6	109.300		1990
	Total Central Sector (Northern Region)						15544.060		
	Northern Region Total						51565.960		
	2. Western Region								
51	Chhattisgarh	State Sector	CSPGCL	DSPM TPS	Steam	1	250.000		2007
	Chhattisgarh	State Sector	CSPGCL	DSPM TPS	Steam	2	250.000		2007
52	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	1	210.000		1984
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	2	210.000		1983
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	3	210.000		1985
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	4	210.000		1986
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	5	500.000		2013
53	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	1	500.000		2014
	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	2	500.000		2016
54	Chhattisgarh	Private Sector	Vandana Energy & Steel Pvt Ltd	KATGHORA TPP	Steam	1	35.000		2012
55	Chhattisgarh	Private Sector	Lanco Amarkantak Power Ltd	PATHADI TPP	Steam	1	300.000		2009
	Chhattisgarh	Private Sector	Lanco Amarkantak Power Ltd	PATHADI TPP	Steam	2	300.000		2010



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
56	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPALLI TPP	Steam	1	135.000		2011
	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPALLI TPP	Steam	2	135.000		2012
	Chhattisgarh	Private Sector	ACB (India) Ltd	CHAKABURA TPP	Steam	2	30.000		2014
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	1	600.000		2014
57	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	2	600.000		2014
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	3	600.000		2015
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	4	600.000		2015
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	1	250.000		2007
58	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	2	250.000		2008
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	3	250.000		2008
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	4	250.000		2008
	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIJA TPS	Steam	1	50.000		2013
59	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIJA TPS	Steam	2	50.000		2016
	Chhattisgarh	Private Sector	S V Power Private Limited	SVPL TPP	Steam	1	63.000		2011
	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	2	600.000		2018
	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	3	600.000		2013
60	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	4	600.000		2014
	Chhattisgarh	Private Sector	Korba West Power Co Ltd	AVANTHA BHANDAR	Steam	1	600.000		2014
	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	1	600.000		2014
	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	2	600.000		2015
61	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAIKHEDA TPP	Steam	1	685.000		2015
	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAIKHEDA TPP	Steam	2	685.000		2016
	Chhattisgarh	Private Sector	Vandana Vidhyut Ltd	SALORA TPP	Steam	1	135.000		2015
	Chhattisgarh	Private Sector	ACB (India) Ltd	SWASTIK KORBA TPP	Steam	1	25.000		2015
62	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	1	360.000		2015
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	2	360.000		2016
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	3	360.000		2017
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	4	360.000		2019
63	Chhattisgarh	Private Sector	Maruti Clean Coal & Power Ltd	BANDAKHAR TPP	Steam	1	300.000		2015
	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	1	300.000		2015
	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	2	300.000		2016
	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	1	300.000		2016
64	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	2	300.000		2017
	Chhattisgarh	Private Sector	SKS Power Generation Ltd	BINJNOTE TPP	Steam	1	300.000		2017



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW		Year of Comm.
	Chhattisgarh	Private Sector	SKS Power Generation Ltd	BINJUKOTE TPP	Steam	2	300.000		2018
	Total (Chhattisgarh)						16008.000		
73	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	3	210.000		1990
	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	4	210.000		1991
	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	5	210.000		1998
74	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	3	75.000		1997
	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	4	75.000		2009
75	Gujarat	State Sector	GSECL	SIKKA REP. TPS	Steam	3	250.000		2015
	Gujarat	State Sector	GSECL	SIKKA REP. TPS	Steam	4	250.000		2015
76	Gujarat	State Sector	GSECL	UKAI TPS	Steam	3	200.000		1979
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	4	200.000		1979
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	5	210.000		1985
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	6	500.000		2013
77	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	1	210.000		1982
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	2	210.000		1983
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	3	210.000		1984
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	4	210.000		1986
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	5	210.000		1986
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	6	210.000		1987
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	7	210.000		1998
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	8	800.000		2019
78	Gujarat	State Sector	GMDCL	AKRIMOTA LIG TPS	Steam	1	125.000		2005
	Gujarat	State Sector	GMDCL	AKRIMOTA LIG TPS	Steam	2	125.000		2005
79	Gujarat	State Sector	Bhavnagar Energy Co. Ltd	BHAVNAGAR CFBC TPP	Steam	1	250.000		2016
	Gujarat	State Sector	Bhavnagar Energy Co. Ltd	BHAVNAGAR CFBC TPP	Steam	2	250.000		2017
80	Gujarat	State Sector	GSECL	HAZIRA CCPP	GT-Gas	1	52.000		2001
	Gujarat	State Sector	GSECL	HAZIRA CCPP	GT-Gas	2	52.000		2001
	Gujarat	State Sector	GSECL	HAZIRA CCPP	GT-Gas	3	52.100		2002
81	Gujarat	State Sector	GSECL	HAZIRA CCPP EXT	GT-Gas	1	351.000		2012
82	Gujarat	State Sector	GPPCL	PIPAVAV CCPP	GT-Gas	1	351.000		2014
	Gujarat	State Sector	GPPCL	PIPAVAV CCPP	GT-Gas	2	351.000		2013
83	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	1	67.850		2003
	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	2	38.770		2003



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	3	72.000		2006
	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	4	40.000		2007
	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	5	376.100		2014
84	Gujarat	State Sector	GSECL	UTRAN CCPP	GT-Gas	5	240.000		2009
	Gujarat	State Sector	GSECL	UTRAN CCPP	GT-Gas	6	134.000		2009
85	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (D-F STATIONS)	Steam	1	120.000		1978
	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (D-F STATIONS)	Steam	2	121.000		1984
	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (D-F STATIONS)	Steam	3	121.000		1988
86	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CCPP	GT-Gas	1	382.500		2009
	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CCPP	GT-Gas	2	382.500		2009
	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CCPP	GT-Gas	3	382.500		2009
87	Gujarat	Private Sector	Torrent Power Ltd	UNOSUGEN CCPP	GT-Gas	1	382.500		2013
88	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	1	110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	2	110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	3	110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	4	185.000		1997
89	Gujarat	Private Sector	Essar Power Gujarat Ltd	SALAYA TPP	Steam	1	600.000		2012
	Gujarat	Private Sector	Essar Power Gujarat Ltd	SALAYA TPP	Steam	2	600.000		2012
90	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	1	330.000		2009
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	2	330.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	3	330.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	4	330.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	5	660.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	6	660.000		2011
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	7	660.000		2011
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	8	660.000		2012
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	9	660.000		2012
91	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	1	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	2	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	3	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	4	800.000		2013
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	5	800.000		2013
92	Gujarat	Private Sector	GIPCL	BARODA CCPP	GT-Gas	5	106.000		1997



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Gujarat	Private Sector	GIPCL	BARODA CAPP	GT-Gas	6	54.000		1997
93	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	1	125.000		2000
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	2	125.000		1999
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	3	125.000		2010
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	4	125.000		2010
94	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	GT-Gas	1	135.000		1997
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	GT-Gas	2	135.000		1997
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	GT-Gas	3	135.000		1998
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	ST-Gas	4	250.000		1998
95	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CAPP	GT-Gas	1	400.000		2014
	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CAPP	GT-Gas	2	400.000		2014
	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CAPP	GT-Gas	3	400.000		2014
	Total (Gujarat)						22329.820		
96	Madhya Pradesh	State Sector	MPPGCL	AMARKANTAK EXT TPS	Steam	3	210.000		2008
97	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	1	210.000		1993
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	2	210.000		1994
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	3	210.000		1999
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	4	210.000		1999
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	5	500.000		2007
98	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	6	200.000		1979
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	7	210.000		1980
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	8	210.000		1983
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	9	210.000		1984
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	10	250.000		2013
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	11	250.000		2013
99	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	1	600.000		2013
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	2	600.000		2014
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	3	660.000		2018
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	4	660.000		2019
100	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	1	600.000		2013
	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	2	600.000		2018
100	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	1	600.000		2013
	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	2	600.000		2018



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
101	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	BINA TPS	Steam	1	250.000		2012
102	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	BINA TPS	Steam	2	250.000		2013
	Madhya Pradesh	Private Sector	BLA Power Pvt Ltd	NIWARI TPP	Steam	1	45.000		2013
103	Madhya Pradesh	Private Sector	BLA Power Pvt Ltd	NIWARI TPP	Steam	2	45.000		2019
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTPP	Steam	1	660.000		2013
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTPP	Steam	2	660.000		2013
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTPP	Steam	3	660.000		2014
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTPP	Steam	4	660.000		2014
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTPP	Steam	5	660.000		2014
104	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTPP	Steam	6	660.000		2015
	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	NIGRI TPP	Steam	1	660.000		2014
105	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	NIGRI TPP	Steam	2	660.000		2015
	Madhya Pradesh	Private Sector	MB Power Madhya Pradesh Ltd	ANUPPUR TPP	Steam	1	600.000		2015
	Madhya Pradesh	Private Sector	MB Power Madhya Pradesh Ltd	ANUPPUR TPP	Steam	2	600.000		2016
106	Madhya Pradesh	Private Sector	Jhabua Power Ltd	SEIONI TPP	Steam	1	600.000		2016
Total (Madhya Pradesh)							14270.000		
107	Maharashtra	State Sector	MSPGCL	BHUSAWAL TPS	Steam	3	210.000		1982
	Maharashtra	State Sector	MSPGCL	BHUSAWAL TPS	Steam	4	500.000		2012
	Maharashtra	State Sector	MSPGCL	BHUSAWAL TPS	Steam	5	500.000		2012
108	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	3	210.000		1985
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	4	210.000		1986
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	5	500.000		1991
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	6	500.000		1992
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	7	500.000		1997
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	8	500.000		2015
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	9	500.000		2016
109	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	1	210.000		1989
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	2	210.000		1990
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	3	210.000		2000
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	4	210.000		2001
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	5	500.000		2011
110	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	6	210.000		1982
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	8	660.000		2015
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	9	660.000		2016



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	10	660.000		2016
111	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	3	210.000		1979
	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	4	210.000		1980
	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	5	210.000		1981
112	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	1	250.000		2007
	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	2	250.000		2010
113	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	6	250.000		2007
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	7	250.000		2010
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	8	250.000		2016
114	Maharashtra	State Sector	MSPGCL	URAN CGPP	GT-Gas	5	108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CGPP	GT-Gas	6	108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CGPP	GT-Gas	7	108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CGPP	GT-Gas	8	108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CGPP	ST-Gas	9	120.000		1994
	Maharashtra	State Sector	MSPGCL	URAN CGPP	ST-Gas	10	120.000		1994
115	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	1	270.000		2014
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	2	270.000		2017
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	3	270.000		2017
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	4	270.000		2017
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	5	270.000		2017
116	Maharashtra	Private Sector	GMR Energy Ltd	GMR WARORA TPS	Steam	1	300.000		2013
	Maharashtra	Private Sector	GMR Energy Ltd	GMR WARORA TPS	Steam	2	300.000		2013
117	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	1	660.000		2012
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	2	660.000		2013
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	3	660.000		2013
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	4	660.000		2014
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	5	660.000		2014
118	Maharashtra	Private Sector	Gupta Energy Pvt Ltd	GEPL TPP Ph-I	Steam	1	60.000		2012
	Maharashtra	Private Sector	Gupta Energy Pvt Ltd	GEPL TPP Ph-I	Steam	2	60.000		2012
119	Maharashtra	Private Sector	Vidarbha Industries Power Ltd	BUTIBORI TPP	Steam	1	300.000		2012
	Maharashtra	Private Sector	Vidarbha Industries Power Ltd	BUTIBORI TPP	Steam	2	300.000		2014
120	Maharashtra	Private Sector	Ideal Energy Projects Ltd	BELA TPS	Steam	1	270.000		2013
121	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	1	270.000		2013



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	2	270.000		2014
	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	3	270.000		2015
	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	4	270.000		2015
	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	5	270.000		2015
122	Maharashtra	Private Sector	JSW Energy Ltd	JSW RATNAGIRI TPP	Steam	1	300.000		2010
123	Maharashtra	Private Sector	Abhijeet MADC Nagpur EPL	MIHAN TPS	Steam	1	246.000		2012
124	Maharashtra	Private Sector	Adani Electricity Mumbai Ltd	DAHANU TPS	Steam	1	250.000		1995
	Maharashtra	Private Sector	Adani Electricity Mumbai Ltd	DAHANU TPS	Steam	2	250.000		1995
125	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	1	135.000		2010
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	2	135.000		2010
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	3	135.000		2011
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	4	135.000		2011
126	Maharashtra	Private Sector	Dhariwal Infrastructure Pvt Ltd	DHARIWAL TPP	Steam	1	300.000		2013
	Maharashtra	Private Sector	Dhariwal Infrastructure Pvt Ltd	DHARIWAL TPP	Steam	2	300.000		2014
127	Maharashtra	Private Sector	Shirpur Power Pvt Ltd	SHIRPUR TPP	Steam	1	150.000		2017
128	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY TPS	Steam	5	500.000		1984
	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY TPS	Steam	8	250.000		2009
129	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY CCPP	GT-Gas	1	120.000		1993
	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY CCPP	GT-Gas	2	60.000		1994
130	Maharashtra	Private Sector	Pioneer Gas Power Ltd	MANGAON CCPP	GT-Gas	1	388.000		2016
Total (Maharashtra)							21456.000		
131	Goa	Private Sector	Reliance Energy Trading (P) Ltd	GOA CCPP (Liq.)	GT-Gas		48.000		1999
Total (Goa)							48.000		
132	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	1	200.000		1983
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	2	200.000		1983
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	3	200.000		1984
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	4	500.000		1987
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	5	500.000		1988
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	6	500.000		1989
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	7	500.000		2010
133	Chhattiagarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPS	Steam	1	250.000		2008
	Chhattiagarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPS	Steam	2	250.000		2009
134	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	1	660.000		2011
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	2	660.000		2011



LIST OF THERMAL POWER STATIONS AS ON 31.03.2023

APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	3	660.000		2012
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	4	500.000		2007
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	5	500.000		2008
	135	Chhattiagarh	Central Sector	NTPC	LARA TPP	1	800.000		2018
	Chhattiagarh	Central Sector	NTPC	LARA TPP	Steam	2	800.000		2020
136	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	1	144.300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	2	144.300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	3	144.300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	ST-Gas	4	224.490		1995
137	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	1	106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	2	106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	3	106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	4	106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	ST-Gas	5	116.100		1993
	Gujarat	Central Sector	NTPC	KAWAS CCPP	ST-Gas	6	116.100		1993
138	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	1	210.000		1987
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	2	210.000		1988
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	3	210.000		1989
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	4	210.000		1989
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	5	210.000		1990
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	6	210.000		1991
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	7	500.000		1999
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	8	500.000		2000
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	9	500.000		2006
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	10	500.000		2007
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	11	500.000		2012
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	12	500.000		2013
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	13	500.000		2015
139	Madhya Pradesh	Central Sector	NTPC	KHARGONE STPP	Steam	1	660.000		2019
	Madhya Pradesh	Central Sector	NTPC	KHARGONE STPP	Steam	2	660.000		2020
140	Madhya Pradesh	Central Sector	NTPC	GADARWARA TPP	Steam	1	800.000		2019
	Madhya Pradesh	Central Sector	NTPC	GADARWARA TPP	Steam	2	800.000		2021
141	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	1	500.000		2012



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	2	500.000		2013
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	3	660.000		2016
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	4	660.000		2017
142	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	1	660.000		2017
	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	2	660.000		2019
143	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	1	205.000		1998
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	2	205.000		1998
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	ST-Gas	3	230.000		1998
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	4	213.000		2006
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	5	213.000		2006
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	ST-Gas	6	237.540		2006
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	7	213.000		2007
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	8	213.000		2007
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	ST-Gas	9	237.540		2007
	Total Central Sector (Western Region)						22280.670		
	Western Region Total						96392.490		
	3. Southern Region								
144	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	1	210.000		1994
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	2	210.000		1995
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	3	210.000		2007
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	4	210.000		2007
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	5	210.000		2010
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	6	600.000		2018
145	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	1	210.000		1979
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	2	210.000		1980
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	3	210.000		1989
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	4	210.000		1990
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	5	210.000		1994
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	6	210.000		1995
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	7	500.000		2009



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
								MW	
146	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAIAH TPS	Steam	1	800.000		2014
	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAIAH TPS	Steam	2	800.000		2015
	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAIAH TPS	Steam	3	800.000		2023
147	Andhra Pradesh	Private Sector	LVS Power Ltd	L.V.S. Diesel Power Station	Diesel	1	18.400		2001
	Andhra Pradesh	Private Sector	LVS Power Ltd	L.V.S. Diesel Power Station	Diesel	2	18.400		2001
148	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	1	150.000		2012
	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	2	150.000		2012
	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	3	150.000		2014
	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	4	150.000		2015
149	Andhra Pradesh	Private Sector	Minakshi Energy Ltd	THAMMINAPATNAM TPS	Steam	1	150.000		2012
	Andhra Pradesh	Private Sector	Minakshi Energy Ltd	THAMMINAPATNAM TPS	Steam	2	150.000		2013
150	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	PAINAMPURAM TPP	Steam	1	660.000		2015
	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	PAINAMPURAM TPP	Steam	2	660.000		2015
151	Andhra Pradesh	Private Sector	HNPC	VIZAG TPP	Steam	1	520.000		2015
	Andhra Pradesh	Private Sector	HNPC	VIZAG TPP	Steam	2	520.000		2016
152	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	SGPL TPP	Steam	1	660.000		2016
	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	SGPL TPP	Steam	2	660.000		2017
153	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI CCPP	GT-Gas	1	118.654		2000
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI CCPP	GT-Gas	2	121.285		2000
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI CCPP	ST-Gas	3	128.205		2000
154	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI EXTN CCPP	GT-Gas	1	233.000		2009
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI EXTN CCPP	GT-Gas	2	133.000		2010
155	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI ST-3 CCPP	GT-Gas	1	371.000		2015
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI ST-3 CCPP	GT-Gas	2	371.000		2015
156	Andhra Pradesh	Private Sector	Gautami Power Ltd	GAUTAMI CCPP	GT-Gas	1	145.000		2009
	Andhra Pradesh	Private Sector	Gautami Power Ltd	GAUTAMI CCPP	GT-Gas	2	145.000		2009
	Andhra Pradesh	Private Sector	Gautami Power Ltd	GAUTAMI CCPP	ST-Gas	3	174.000		2009
157	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	1	33.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	2	33.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	3	34.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	4	112.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	5	60.000		2012
158	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	GT-Gas	1	140.000		2009
	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	GT-Gas	2	140.000		2009

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CENTRAL ELECTRICITY AUTHORITY



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	ST-Gas	3	165,000		2010
159	Andhra Pradesh	Private Sector	Reliance Infrastructure Ltd - A.P.	PEDDAPURAM CCPP	GT-Gas	1	142,000		2002
	Andhra Pradesh	Private Sector	Reliance Infrastructure Ltd - A.P.	PEDDAPURAM CCPP	GT-Gas	2	78,000		2002
160	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	GT-Gas	1	52,800		1996
	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	GT-Gas	2	52,800		1996
	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	GT-Gas	3	52,800		1996
	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	ST-Gas	4	77,000		1997
161	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	1	140,000		2005
	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	2	80,000		2005
162	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	VEMAGIRI CCPP	GT-Gas	1	233,000		2006
	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	VEMAGIRI CCPP	GT-Gas	2	137,000		2006
163	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	GT-Gas	1	47,000		1997
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	GT-Gas	2	47,000		1997
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	GT-Gas	3	47,000		1997
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	ST-Gas	4	67,000		1998
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	ST-Gas	4	67,000		1998
164	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	1	42,500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	2	42,500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	3	42,500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	4	42,500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	ST-Gas	5	50,000		2001
165	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GREL CCPP (Rajahmundry)	GT-Gas	1	384,000		2015
	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GREL CCPP (Rajahmundry)	GT-Gas	2	384,000		2015
Total (Andhra Pradesh)							15325.344		
166	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	9	250,000		1997
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	10	250,000		1998
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	11	500,000		2011
167	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (STAGE-7)	Steam	12	800,000		2018
168	Telangana	State Sector	TSGENCO	KAKATIYA TPS	Steam	1	500,000		2010
	Telangana	State Sector	TSGENCO	KAKATIYA TPS	Steam	2	600,000		2015
169	Telangana	State Sector	TSGENCO	RAMAGUNDEM - B TPS	Steam	1	62,500		1971
170	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	1	600,000		2016
	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	2	600,000		2016
171	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	1	270,000		2020



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	2	270.000		2020
	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	3	270.000		2021
	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	4	270.000		2022
	Total (Telangana)						5242.500		
172	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	1	210.000		1985
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	2	210.000		1986
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	3	210.000		1991
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	4	210.000		1994
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	5	210.000		1999
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	6	210.000		1999
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	7	210.000		2002
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	8	250.000		2010
173	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	1	500.000		2007
	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	2	500.000		2012
	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	3	700.000		2016
174	Karnataka	State Sector	Raichur Power Corp. Ltd	VERMARUS TPP	Steam	1	800.000		2016
	Karnataka	State Sector	Raichur Power Corp. Ltd	VERMARUS TPP	Steam	2	800.000		2017
175	Karnataka	Private Sector	Shri Rayalseema pvt Ltd	BELLARY DG	Diesel	1	25.200		2000
176	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-I)	Steam	1	130.000		1999
	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-I)	Steam	2	130.000		1999
177	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-II)	Steam	1	300.000		2009
	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-II)	Steam	2	300.000		2009
178	Karnataka	Private Sector	Udupi Power Corp. Ltd	UDUPI TPP	Steam	1	600.000		2010
	Karnataka	Private Sector	Udupi Power Corp. Ltd	UDUPI TPP	Steam	2	600.000		2011
	Total (Karnataka)						7105.200		
179	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	1	21.320		1997
	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	4	21.320		1997
	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	5	21.320		1997
180	Kerala	State Sector	KSEB	KOZHICODE DG	Diesel	2	16.000		1999
	Kerala	State Sector	KSEB	KOZHICODE DG	Diesel	3	16.000		1999
	Kerala	State Sector	KSEB	KOZHICODE DG	Diesel	5	16.000		1999
	Kerala	State Sector	KSEB	KOZHICODE DG	Diesel	6	16.000		1999
	Kerala	State Sector	KSEB	KOZHICODE DG	Diesel	7	16.000		1999



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	8	16.000		1999
181	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	1	45.000		1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	2	45.000		1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	4	45.000		1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	3	39.000		2000
	Total (Kerala)						333.960		
182	Puducherry	State Sector	PPCL	KARAIKAL CCPP	GT-Gas	1	32.500		1999
	Total (Puducherry)						32.500		
183	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	1	210.000		1987
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	2	210.000		1987
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	3	210.000		1989
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	4	210.000		1990
184	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS-II	Steam	1	600.000		2012
185	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	1	210.000		1994
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	2	210.000		1995
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	3	210.000		1996
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	4	600.000		2013
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	5	600.000		2013
186	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	1	210.000		1979
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	2	210.000		1980
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	3	210.000		1982
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	4	210.000		1992
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	5	210.000		1991
187	Tamil Nadu	State Sector	TANGEDCO	KUTTALAM CCPP	GT-Gas	1	63.000		2003
	Tamil Nadu	State Sector	TANGEDCO	KUTTALAM CCPP	GT-Gas	2	37.000		2004
188	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	1	30.000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	2	30.000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	3	30.000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	4	30.000		1996
189	Tamil Nadu	State Sector	TANGEDCO	KOVIKALPAL CCPP	GT-Gas	1	69.650		2001
	Tamil Nadu	State Sector	TANGEDCO	KOVIKALPAL CCPP	GT-Gas	2	38.230		2001
190	Tamil Nadu	State Sector	TANGEDCO	NARIMANAM GPS	GT-Gas	1	5.000		1992
	Tamil Nadu	State Sector	TANGEDCO	NARIMANAM GPS	GT-Gas	2	5.000		1992
191	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	1	60.000		2002



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	2	59.800		2008
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	3	34.000		2003
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	4	32.400		2009
192	Tamil Nadu	Private Sector	Madurai Power Corp. Pvt Ltd	SAMAYANALLUR DG	Diesel	1	106.001		2001
193	Tamil Nadu	Private Sector	Samalpatti Power Co. Pvt Ltd	SAMALPATTI DG	Diesel	1	105.700		2000
194	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	1	150.000		2013
	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	2	150.000		2013
195	Tamil Nadu	Private Sector	ST-CMS Electric Co. Pvt ltd	NEYVELI TPS(Z)	Steam	1	250.000		2002
196	Tamil Nadu	Private Sector	Coastal Energen Pvt Ltd	MUTHIARA TPP	Steam	1	600.000		2015
	Tamil Nadu	Private Sector	Coastal Energen Pvt Ltd	MUTHIARA TPP	Steam	2	600.000		2016
197	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPCL TPP	Steam	1	600.000		2015
	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPCL TPP	Steam	2	600.000		2016
198	Tamil Nadu	Private Sector	SEPC Power Pvt Ltd	TUTICORIN TPP ST-IV	Steam	1	525.000		2021
199	Tamil Nadu	Private Sector	PPN Power Gen. Co. Pvt Ltd	PNALLUR CCPP	GT-Gas	1	225.000		2001
	Tamil Nadu	Private Sector	PPN Power Gen. Co. Pvt Ltd	PNALLUR CCPP	GT-Gas	2	105.500		2001
200	Tamil Nadu	Private Sector	Aban Power Co. Ltd	KARUPPUR CCPP	GT-Gas	1	70.000		2005
	Tamil Nadu	Private Sector	Aban Power Co. Ltd	KARUPPUR CCPP	ST-Gas	2	49.800		2005
201	Tamil Nadu	Private Sector	Pioneer Power Ltd	VALANTARVY COPP	GT-Gas	1	38.000		2005
	Tamil Nadu	Private Sector	Pioneer Power Ltd	VALANTARVY CCPP	GT-Gas	2	14.800		2006
	Total (Tamil Nadu)						9033.881		
202	Lakshadweep	State Sector	Lakshadweep ELECTRICITY DEPARTMENT	LAKSHADWEEP DG	Diesel	1	26.830		2022
	Total (Lakshadweep)						26.830		
203	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	1	500.000		2002
	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	2	500.000		2002
	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	3	500.000		2011
	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	4	500.000		2012
204	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	1	200.000		1983
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	2	200.000		1984
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	3	200.000		1984
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	4	500.000		1988
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	5	500.000		1989
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	6	500.000		1989
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	7	500.000		2004



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
								MW	
205	Karnataka	Central Sector	NTPC	KUDGI STPP	Steam	1	800.000		2016
	Karnataka	Central Sector	NTPC	KUDGI STPP	Steam	2	800.000		2017
	Karnataka	Central Sector	NTPC	KUDGI STPP	Steam	3	800.000		2018
206	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	GT-Gas	1	115.200		1998
	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	GT-Gas	2	115.200		1999
	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	ST-Gas	3	129.180		1999
207	Tamil Nadu	Central Sector	NLC	NEWELI TPS- II	Steam	1	210.000		1988
	Tamil Nadu	Central Sector	NLC	NEWELI TPS- II	Steam	2	210.000		1987
	Tamil Nadu	Central Sector	NLC	NEWELI TPS- II	Steam	3	210.000		1986
	Tamil Nadu	Central Sector	NLC	NEWELI TPS- II	Steam	4	210.000		1991
	Tamil Nadu	Central Sector	NLC	NEWELI TPS- II	Steam	5	210.000		1991
	Tamil Nadu	Central Sector	NLC	NEWELI TPS- II	Steam	6	210.000		1992
	Tamil Nadu	Central Sector	NLC	NEWELI TPS- II	Steam	7	210.000		1993
208	Tamil Nadu	Central Sector	NLC	NEWELI TPS-II EXP	Steam	1	250.000		2012
	Tamil Nadu	Central Sector	NLC	NEWELI TPS-II EXP	Steam	2	250.000		2015
209	Tamil Nadu	Central Sector	NLC	NEWELI (EXT) TPS	Steam	1	210.000		2002
	Tamil Nadu	Central Sector	NLC	NEWELI (EXT) TPS	Steam	2	210.000		2003
210	Tamil Nadu	Central Sector	NLC	NEWELI NEW TPP	Steam	1	500.000		2019
	Tamil Nadu	Central Sector	NLC	NEWELI NEW TPP	Steam	2	500.000		2021
211	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	1	500.000		2012
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	2	500.000		2013
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	3	500.000		2014
212	Tamil Nadu	Central Sector	NTPL	TUTICORIN (JV) TPP	Steam	1	500.000		2015
	Tamil Nadu	Central Sector	NTPL	TUTICORIN (JV) TPP	Steam	2	500.000		2015
	Total Central Sector (Southern Region)						13249.580		
	Southern Region Total						50349.795		
	4. Eastern Region								
213	A & N Islands	State Sector	A&D Island Electricity Deptt.	AND. NICOBAR DG	Diesel	1	57.520		2000
	A & N Islands	Private Sector	A&D Island Electricity Deptt.	AND. NICOBAR Pvt. DG	Diesel	1	35.190		2022
	Total (A & N Islands)						92.710		
214	Jharkhand	State Sector	Tenughat Vidyut Nigam Ltd	TENUGHAT TPS	Steam	1	210.000		1994
	Jharkhand	State Sector	Tenughat Vidyut Nigam Ltd	TENUGHAT TPS	Steam	2	210.000		1996
215	Jharkhand	Private Sector	Tata Power Co. Ltd	JOJOBERA TPS	Steam	2	120.000		2001
	Jharkhand	Private Sector	Tata Power Co. Ltd	JOJOBERA TPS	Steam	3	120.000		2002



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
216	Jharkhand	Private Sector	Adhunik Power & Natural Resource Ltd	MAHADEV PRASAD STPP	Steam	1	270.000		2012
	Jharkhand	Private Sector	Adhunik Power & Natural Resource Ltd	MAHADEV PRASAD STPP	Steam	2	270.000		2013
217	Jharkhand	Private Sector	Maithon Power Ltd	MAITHON RB TPP	Steam	1	525.000		2011
	Jharkhand	Private Sector	Maithon Power Ltd	MAITHON RB TPP	Steam	2	525.000		2012
	Total (Jharkhand)						2250.000		
218	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	1	210.000		1994
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	2	210.000		1995
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	3	660.000		2019
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	4	660.000		2019
219	Odisha	Private Sector	VEDANTA	VEDANTA TPP	Steam	2	600.000		2010
220	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	1	350.000		2013
	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	2	350.000		2013
	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	3	350.000		2014
221	Odisha	Private Sector	JITPL	DERANG TPP	Steam	1	600.000		2014
	Odisha	Private Sector	JITPL	DERANG TPP	Steam	2	600.000		2015
222	Odisha	Private Sector	IBPIL	UTKAL TPP (IND BARATH)	Steam	1	350.000		2016
	Total (Odisha)						4940.000		
223	West Bengal	State Sector	DPL	D.P.L. TPS	Steam	7	300.000		2007
	West Bengal	State Sector	DPL	D.P.L. TPS	Steam	8	250.000		2014
224	West Bengal	State Sector	WBPDCL	BAKRESWAR TPS	Steam	1	210.000		1999
	West Bengal	State Sector	WBPDCL	BAKRESWAR TPS	Steam	2	210.000		2000
	West Bengal	State Sector	WBPDCL	BAKRESWAR TPS	Steam	3	210.000		2001
	West Bengal	State Sector	WBPDCL	BAKRESWAR TPS	Steam	4	210.000		2007
	West Bengal	State Sector	WBPDCL	BAKRESWAR TPS	Steam	5	210.000		2009
225	West Bengal	State Sector	WBPDCL	BANDEL TPS	Steam	2	60.000		1965
	West Bengal	State Sector	WBPDCL	BANDEL TPS	Steam	5	210.000		1982
226	West Bengal	State Sector	WBPDCL	KOLAGHAT TPS	Steam	3	210.000		1984
	West Bengal	State Sector	WBPDCL	KOLAGHAT TPS	Steam	4	210.000		1993
	West Bengal	State Sector	WBPDCL	KOLAGHAT TPS	Steam	5	210.000		1991
	West Bengal	State Sector	WBPDCL	KOLAGHAT TPS	Steam	6	210.000		1993
227	West Bengal	State Sector	WBPDCL	SANTALDIH TPS	Steam	5	250.000		2007
	West Bengal	State Sector	WBPDCL	SANTALDIH TPS	Steam	6	250.000		2011
228	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	1	300.000		2007



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	2	300.000		2008
	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	3	500.000		2015
	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	4	500.000		2016
229	West Bengal	State Sector	WBPDCL	HALDIA GT (Liq.)	GT-Gas	1	20.000		1979
	West Bengal	State Sector	WBPDCL	HALDIA GT (Liq.)	GT-Gas	2	20.000		1979
230	West Bengal	State Sector	WBPDCL	KASBA GT (Liq.)	GT-Gas	1	20.000		1979
	West Bengal	State Sector	WBPDCL	KASBA GT (Liq.)	GT-Gas	2	20.000		1979
231	West Bengal	Private Sector	CESC Ltd	BUDGE BUDGE TPS	Steam	1	250.000		1997
	West Bengal	Private Sector	CESC Ltd	BUDGE BUDGE TPS	Steam	2	250.000		1999
	West Bengal	Private Sector	CESC Ltd	BUDGE BUDGE TPS	Steam	3	250.000		2009
232	West Bengal	Private Sector	CESC Ltd	SOUTHERN REPL. TPS	Steam	1	67.500		1991
	West Bengal	Private Sector	CESC Ltd	SOUTHERN REPL. TPS	Steam	2	67.500		1990
233	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	1	60.000		1985
	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	2	60.000		1982
	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	3	60.000		1983
	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	4	60.000		1984
234	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	1	300.000		2015
	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	2	300.000		2015
235	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	1	150.000		2017
	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	2	150.000		2017
236	West Bengal	Private Sector	DPSCLTD	DISHERGARH TPP	Steam	1	12.000		2019
	Total (West Bengal)						6927.000		
237	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	6	105.000		1983
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	7	105.000		1985
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	8	250.000		2018
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	9	250.000		2018
238	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	1	210.000		1992
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	2	210.000		1994
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	3	210.000		1995
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	4	210.000		1996
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	5	500.000		2007
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	6	500.000		2008
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	7	500.000		2009
239	Bihar	Central Sector	NTPC	BARH I STPP	Steam	1	660.000		2021



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
240	Bihar	Central Sector	NTPC	BARH II STPP	Steam	4	660.000		2013
241	Bihar	Central Sector	NTPC	BARH II STPP	Steam	5	660.000		2015
	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	3	195.000		2015
	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	4	195.000		2017
	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	1	250.000		2016
242	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	2	250.000		2017
	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	3	250.000		2019
	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	4	250.000		2021
	Bihar	Central Sector	NPGCL	NABINAGAR STPP	Steam	1	660.000		2019
243	Bihar	Central Sector	NPGCL	NABINAGAR STPP	Steam	2	660.000		2021
	Bihar	Central Sector	NPGCL	NABINAGAR STPP	Steam	3	660.000		2022
	Bihar	Central Sector	DVC	KODARMA TPP	Steam	1	500.000		2011
	Bihar	Central Sector	DVC	KODARMA TPP	Steam	2	500.000		2013
244	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	7	250.000		2009
	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	8	250.000		2010
	Jharkhand	Central Sector	DVC	BOKARO 'A' TPS	Steam	1	500.000		2016
	Jharkhand	Central Sector	NTPC	NORTH KARANPURA STPP	Steam	1	660.000		2023
248	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	1	500.000		1995
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	2	500.000		1996
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	3	500.000		2003
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	4	500.000		2003
249	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	5	500.000		2004
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	6	500.000		2005
	Odisha	Central Sector	NTPC	DARLIPALI STPS	Steam	1	800.000		2019
	Odisha	Central Sector	NTPC	DARLIPALI STPS	Steam	2	800.000		2021
250	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	1	500.000		2011
	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	2	500.000		2012
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	1	210.000		1995
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	2	210.000		1997
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	3	210.000		1998
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	4	210.000		2004
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	5	250.000		2007
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	6	250.000		2007
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	7	500.000		2010



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APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	8	500.000		2011
252	West Bengal	Central Sector	DVC	RAGHUNATHPUR TPP	Steam	1	600.000		2014
	West Bengal	Central Sector	DVC	RAGHUNATHPUR TPP	Steam	2	600.000		2016
253	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	1	200.000		1986
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	2	200.000		1986
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	3	200.000		1987
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	4	500.000		1992
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	5	500.000		1994
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	6	500.000		2011
	Total (DVC)						6540.000		
	Total (NTPC & NTPC's Joint Ventures)						15760.000		
	Total Central Sector (Eastern Region)						22300.000		
	Eastern Region Total						36509.710		
	5. North Eastern Region								
254	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	5	20.000		1994
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	6	20.000		1994
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	7	20.000		1995
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	8	37.200		2012
255	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	2	17.000		1965
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	3	15.000		1965
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	6	9.000		1985
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	7	62.250		2017
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	8	36.150		2020
256	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	1	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	2	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	3	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	4	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	5	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	6	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	7	9.965		2018
	Total (Assam)						306.355		
257	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	1	6.000		2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	2	6.000		2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	3	6.000		2002



LIST OF THERMAL POWER STATIONS AS ON 31.03.2023

APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	4	6.000		2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	5	6.000		2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	6	6.000		2002
	Total (Manipur)						36.000		
258	Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	4	21.000		2002
	Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	5	21.000		2010
259	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	7	21.000		2002
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	8	21.000		2006
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	9	21.000		2013
	Total (T ripura)						105.000		
260	Assam	Central Sector	NTPC	BONGAIGAON TPP	Steam	1	250.000		2015
	Assam	Central Sector	NTPC	BONGAIGAON TPP	Steam	2	250.000		2017
	Assam	Central Sector	NTPC	BONGAIGAON TPP	Steam	3	250.000		2019
261	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	1	33.500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	2	33.500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	3	33.500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	4	33.500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	5	33.500		1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	6	33.500		1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	7	30.000		1998
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	8	30.000		1998
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	9	30.000		1998
262	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	1	21.000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	2	21.000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	3	21.000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	4	21.000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	5	25.500		2015
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	6	25.500		2016
263	Tripura	Central Sector	NEEPCO	MONARCHAK CCPP	GT-Gas	1	65.400		2015
	Tripura	Central Sector	NEEPCO	MONARCHAK CCPP	GT-Gas	3	35.600		2016
264	Tripura	Central Sector	ONGC	TRIPURA CCPP	GT-Gas	1	363.300		2013
	Tripura	Central Sector	ONGC	TRIPURA CCPP	GT-Gas	2	363.300		2014
	Total Central Sector (North Eastern Region)						2003.600		
	North Eastern Region Total						2450.955		
	Total All India Thermal						237268.910		



LIST OF HYDRO POWER STATIONS AS ON 31.03.2023

APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
1. Northern Region (NR)								
1	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	1	16.50		1970
	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	2	16.50		1971
	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	3	16.50		1970
	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	4	16.50		1981
2	Himachal Pradesh	State Sector	HPSEB	GIRI BATA HPS	1	30.00		1978
	Himachal Pradesh	State Sector	HPSEB	GIRI BATA HPS	2	30.00		1978
3	Himachal Pradesh	State Sector	HPSEB	LARJI HPS	1	42.00		2006
	Himachal Pradesh	State Sector	HPSEB	LARJI HPS	2	42.00		2006
	Himachal Pradesh	State Sector	HPSEB	LARJI HPS	3	42.00		2006
4	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	1	40.00		1989
	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	2	40.00		1989
	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	3	40.00		1989
5	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	1	65.00		2016
	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	2	65.00		2016
	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	3	65.00		2017
6	Himachal Pradesh	State Sector	HPPCL	SAINJ HPS	1	50.00		2017
	Himachal Pradesh	State Sector	HPPCL	SAINJ HPS	2	50.00		2017
7	Himachal Pradesh	State Sector	HPPCL	SAWRA KUDDU HPS	1	37.00		2020
	Himachal Pradesh	State Sector	HPPCL	SAWRA KUDDU HPS	2	37.00		2020
	Himachal Pradesh	State Sector	HPPCL	SAWRA KUDDU HPS	3	37.00		2020
8	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	1	15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	2	15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	3	15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	4	15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	5	50.00		1982
9	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	1	261.25		2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	2	261.25		2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	3	261.25		2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	4	261.25		2011
10	Himachal Pradesh	Private Sector	EPPL	MALANA-II HPS	1	50.00		2011
	Himachal Pradesh	Private Sector	EPPL	MALANA-II HPS	2	50.00		2011
11	Himachal Pradesh	Private Sector	ADHPL	ALLAIN DUHANGAN HPS	1	96.00		2010
	Himachal Pradesh	Private Sector	ADHPL	ALLAIN DUHANGAN HPS	2	96.00		2010



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
12	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	1	100.00		2003
	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	2	100.00		2003
	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	3	100.00		2003
13	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	1	43.00		2001
	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	2	43.00		2001
14	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	1	35.00		2012
	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	2	35.00		2012
15	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	1	12.00		2017
	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	2	12.00		2017
	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	3	12.00		2017
16	Himachal Pradesh	Private Sector	Himachal Sorang Power Co. Ltd.	SORANG HPS	1	50.00		2021
	Himachal Pradesh	Private Sector	Himachal Sorang Power Co. Ltd.	SORANG HPS	2	50.00		2021
17	Himachal Pradesh	Private Sector	GBHPPL	BAJOLI HOLI HPS	1	60.00		2022
	Himachal Pradesh	Private Sector	GBHPPL	BAJOLI HOLI HPS	2	60.00		2022
	Himachal Pradesh	Private Sector	GBHPPL	BAJOLI HOLI HPS	3	60.00		2022
	Total (Himachal Pradesh)					2997.00		
18	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELMUM HPS	1	35.00		
	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELMUM HPS	2	35.00		1979
	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELMUM HPS	3	35.00		1979
19	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	1	35.00		2001
	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	2	35.00		2001
	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	3	35.00		2002
20	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	1	150.00		2008
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	2	150.00		2008
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	3	150.00		2008
21	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	1	150.00		2015
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	2	150.00		2015
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	3	150.00		2015
	Total (Jammu & Kashmir)					1110.00		
22	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	1	33.50		1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	2	33.50		1985
23	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	3	33.50		1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	4	33.50		1985



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
24	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	1	15.00		1983
	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	2	15.00		1983
	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	3	15.00		1983
25	Punjab	State Sector	PSPCL	MUKERIAN-II HPS	4	15.00		1988
	Punjab	State Sector	PSPCL	MUKERIAN-II HPS	5	15.00		1988
	Punjab	State Sector	PSPCL	MUKERIAN-II HPS	6	15.00		1989
26	Punjab	State Sector	PSPCL	MUKERIAN-III HPS	7	19.50		1989
	Punjab	State Sector	PSPCL	MUKERIAN-III HPS	8	19.50		1989
	Punjab	State Sector	PSPCL	MUKERIAN-III HPS	9	19.50		1989
27	Punjab	State Sector	PSPCL	MUKERIAN-IV HPS	10	19.50		1989
	Punjab	State Sector	PSPCL	MUKERIAN-IV HPS	11	19.50		1989
	Punjab	State Sector	PSPCL	MUKERIAN-IV HPS	12	19.50		1989
28	Punjab	State Sector	PSPCL	RANJIT SAGAR HPS	1	150.00		2000
	Punjab	State Sector	PSPCL	RANJIT SAGAR HPS	2	150.00		2000
	Punjab	State Sector	PSPCL	RANJIT SAGAR HPS	3	150.00		2000
	Punjab	State Sector		RANJIT SAGAR HPS	4	150.00		2000
	Total (Punjab)					941.00		
29	Rajasthan	State Sector	RRVUNL	JAWAHAR SAGAR HPS	1	33.00		1972
	Rajasthan	State Sector	RRVUNL	JAWAHAR SAGAR HPS	2	33.00		1973
	Rajasthan	State Sector	RRVUNL	JAWAHAR SAGAR HPS	3	33.00		1973
30	Rajasthan	State Sector	RRVUNL	R P SAGAR HPS	1	43.00		1968
	Rajasthan	State Sector	RRVUNL	R P SAGAR HPS	2	43.00		1968
	Rajasthan	State Sector	RRVUNL	R P SAGAR HPS	3	43.00		1968
	Rajasthan	State Sector	RRVUNL	R P SAGAR HPS	4	43.00		1968
31	Rajasthan	State Sector	RRVUNL	MAHI BAJAJ-I HPS	1	25.00		1986
	Rajasthan	State Sector	RRVUNL	MAHI BAJAJ-I HPS	2	25.00		1986
32	Rajasthan	State Sector	RRVUNL	MAHI BAJAJ-II HPS	3	45.00		1989
	Rajasthan	State Sector	RRVUNL	MAHI BAJAJ-II HPS	4	45.00		1989
	Total (Rajasthan)					411.00		
33	Uttar Pardesh	State Sector	UPJVNL	KHARA HPS	1	24.00		1992
	Uttar Pardesh	State Sector	UPJVNL	KHARA HPS	2	24.00		1992
	Uttar Pardesh	State Sector	UPJVNL	KHARA HPS	3	24.00		1992
34	Uttar Pardesh	State Sector	UPJVNL	MATATILA HPS	1	10.20		1965



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
35	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	2	10.20		1965
	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	3	10.20		1965
	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	1	33.00		1970
36	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	2	33.00		1970
	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	3	33.00		1971
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	1	50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	2	50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	3	50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	4	50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	5	50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	6	50.00		1965
	Total (Uttar Pradesh)					501.60		
37	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	1	60.00		1975
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	2	60.00		1975
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	3	60.00		1975
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	4	60.00		1976
38	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	1	11.25		1965
	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	2	11.25		1966
	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	3	11.25		1970
	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	1	17.00		1965
39	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	2	17.00		1966
	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	3	17.00		1970
	Uttarakhand	State Sector	UJVNL	KHATIMA HPS	1	13.80		1955
	Uttarakhand	State Sector	UJVNL	KHATIMA HPS	2	13.80		1956
41	Uttarakhand	State Sector	UJVNL	KHATIMA HPS	3	13.80		1956
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	1	30.00		1984
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	2	30.00		1984
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	3	30.00		1984
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	4	30.00		1984
	Uttarakhand	State Sector	UJVNL	KULHAL HPS	1	10.00		1975
42	Uttarakhand	State Sector	UJVNL	KULHAL HPS	2	10.00		1975
	Uttarakhand	State Sector	UJVNL	KULHAL HPS	3	10.00		1975
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - I HPS	1	30.00		1984



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW	
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - I HPS	2		30.00	1984
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - I HPS	3		30.00	1984
44	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	1		76.00	2008
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	2		76.00	2008
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	3		76.00	2008
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	4		76.00	2008
45	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	1		66.00	1975
	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	2		66.00	1976
	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	3		66.00	1977
46	Uttarakhand	State Sector	UJVNL	CHILLA HPS	1		36.00	1980
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	2		36.00	1980
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	3		36.00	1980
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	4		36.00	1981
47	Uttarakhand	State Sector	UJVNL	VYASI HPS	1		60.00	2022
	Uttarakhand	State Sector	UJVNL	VYASI HPS	2		60.00	2022
48	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	1		100.00	2006
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	2		100.00	2006
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	3		100.00	2006
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	4		100.00	2006
49	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	1		82.50	2015
	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	2		82.50	2015
	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	3		82.50	2015
	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	4		82.50	2015
50	Uttarakhand	Private Sector	L&T UHL	SINGOLI BHATWARI HPS	1		33.00	2020
	Uttarakhand	Private Sector	L&T UHL	SINGOLI BHATWARI HPS	2		33.00	2020
	Uttarakhand	Private Sector	L&T UHL	SINGOLI BHATWARI HPS	3		33.00	2020
	Total (Uttarakhand)						2201.15	
51	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	1		108.00	1960
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	2		126.00	1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	3		126.00	1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	4		126.00	1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	5		126.00	1961



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW	
52	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	6		157.00	1966
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	7		157.00	1966
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	8		157.00	1967
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	9		157.00	1967
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	10		157.00	1968
53	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	1		165.00	1977
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	2		165.00	1978
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	3		165.00	1979
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	4		165.00	1979
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	5		165.00	1983
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	6		165.00	1983
54	Himachal Pradesh	State Sector	BBMB	PONG HPS	1		66.00	1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	2		66.00	1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	3		66.00	1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	4		66.00	1979
	Himachal Pradesh	State Sector	BBMB	PONG HPS	5		66.00	1982
	Himachal Pradesh	State Sector	BBMB	PONG HPS	6		66.00	1983
55	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	1		60.00	1980
	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	2		60.00	1980
	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	3		60.00	1981
56	Himachal Pradesh	Central Sector	NHPC	CHAMERA- I HPS	1		180.00	1994
	Himachal Pradesh	Central Sector	NHPC	CHAMERA- I HPS	2		180.00	1994
	Himachal Pradesh	Central Sector	NHPC	CHAMERA- I HPS	3		180.00	1994
57	Himachal Pradesh	Central Sector	NHPC	CHAMERA- II HPS	1		100.00	2003
	Himachal Pradesh	Central Sector	NHPC	CHAMERA- II HPS	2		100.00	2003
	Himachal Pradesh	Central Sector	NHPC	CHAMERA- II HPS	3		100.00	2004
58	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	1		77.00	2012
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	2		77.00	2012
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	3		77.00	2012
59	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	1		250.00	2004
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	2		250.00	2003
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	3		250.00	2003



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	4	250.00		2004
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	5	250.00		2004
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	6	250.00		2004
60	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	1	130.00		2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	2	130.00		2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	3	130.00		2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	4	130.00		2014
61	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	1	68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	2	68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	3	68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	4	68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	5	68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	6	68.67		2014
62	Himachal Pradesh	Central Sector	NTPC	KOLDAM	1	200.00		2015
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	2	200.00		2015
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	3	200.00		2015
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	4	200.00		2015
63	Jammu & Kashmir	Central Sector	NHPC	SEWA-II HPS	1	40.00		2010
	Jammu & Kashmir	Central Sector	NHPC	SEWA-II HPS	2	40.00		2010
	Jammu & Kashmir	Central Sector	NHPC	SEWA-II HPS	3	40.00		2010
64	Jammu & Kashmir	Central Sector	NHPC	DULHASTI HPS	1	130.00		2007
	Jammu & Kashmir	Central Sector	NHPC	DULHASTI HPS	2	130.00		2007
	Jammu & Kashmir	Central Sector	NHPC	DULHASTI HPS	3	130.00		2007
65	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	1	115.00		1987
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	2	115.00		1987
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	3	115.00		1987
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	4	115.00		1993
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	5	115.00		1994
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	6	115.00		1995
66	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	1	120.00		1997
	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	2	120.00		1997
	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	3	120.00		1997



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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	4		120.00	1996
67	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	1		11.00	2012
	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	2		11.00	2012
	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	3		11.00	2012
	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	4		11.00	2013
68	Jammu & Kashmir	Central Sector	NHPC	NIMBOO BAZDO HPS	1		15.00	2013
	Jammu & Kashmir	Central Sector	NHPC	NIMBOO BAZDO HPS	2		15.00	2013
	Jammu & Kashmir	Central Sector	NHPC	NIMBOO BAZDO HPS	3		15.00	2013
69	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	1		60.00	2013
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	2		60.00	2013
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	3		60.00	2013
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	4		60.00	2014
70	Jammu & Kashmir	Central Sector	NHPC	KISHANGANGA HPS	1		110.00	2018
	Jammu & Kashmir	Central Sector	NHPC	KISHANGANGA HPS	2		110.00	2018
	Jammu & Kashmir	Central Sector	NHPC	KISHANGANGA HPS	3		110.00	2018
71	Punjab	State Sector	BBMB	GANGUWAL HPS	1		24.20	1962
	Punjab	State Sector	BBMB	GANGUWAL HPS	2		24.20	1955
	Punjab	State Sector	BBMB	GANGUWAL HPS	3		29.25	1955
72	Punjab	State Sector	BBMB	KOTLA HPS	1		24.20	1961
	Punjab	State Sector	BBMB	KOTLA HPS	2		29.25	1956
	Punjab	State Sector	BBMB	KOTLA HPS	3		24.20	1956
73	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	1		70.00	2005
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	2		70.00	2005
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	3		70.00	2005
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	4		70.00	2005
74	Uttarakhand	Central Sector	NHPC	TANAKPUR HPS	1		31.40	1992
	Uttarakhand	Central Sector	NHPC	TANAKPUR HPS	2		31.40	1992
	Uttarakhand	Central Sector	NHPC	TANAKPUR HPS	3		31.40	1992
75	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	1		250.00	2006
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	2		250.00	2006
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	3		250.00	2007
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	4		250.00	2007
76	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	1		100.00	2011



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	2	100.00		2011
	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	3	100.00		2012
	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	4	100.00		2012
	Total Central Sector (Northern Region)						11534.52	
	Northern Region Total						19696.27	
	2. Western Region							
77	Chhattisgarh	State Sector	CSPGCL	HASDEOBANGO HPS	1	40.00		1994
	Chhattisgarh	State Sector	CSPGCL	HASDEOBANGO HPS	2	40.00		1994
	Chhattisgarh	State Sector	CSPGCL	HASDEOBANGO HPS	3	40.00		1995
	Total (Chhattisgarh)						120.00	
78	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	1	50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	2	50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	3	50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	4	50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	5	50.00		2004
79	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	1	200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	2	200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	3	200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	4	200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	5	200.00		2006
80	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	6	200.00		2006
	Gujarat	State Sector	GSECL	KADANA HPS	1	60.00		1990
	Gujarat	State Sector	GSECL	KADANA HPS	2	60.00		1990
	Gujarat	State Sector	GSECL	KADANA HPS	3	60.00		1997
	Gujarat	State Sector	GSECL	KADANA HPS	4	60.00		1998
81	Gujarat	State Sector	GSECL	UKAI HPS	1	75.00		1974
	Gujarat	State Sector	GSECL	UKAI HPS	2	75.00		1974
	Gujarat	State Sector	GSECL	UKAI HPS	3	75.00		1975
	Gujarat	State Sector	GSECL	UKAI HPS	4	75.00		1976
	Total (Gujarat)						1990.00	
82	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	1	23.00		1960
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	2	23.00		1960
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	3	23.00		1960



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW	
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	4	23.00		1963
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	5	23.00		1966
83	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR TONS HPS -I	1	105.00		1976
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR TONS HPS -I	2	105.00		1970
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR TONS HPS -I	3	105.00		1992
84	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	1	15.00		2002
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	2	15.00		2002
85	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-III HPS	1	20.00		2000
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-III HPS	2	20.00		2001
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-III HPS	3	20.00		2002
86	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	1	45.00		1988
	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	2	45.00		1988
87	Madhya Pradesh	State Sector	MPPGCL	MADHIKHERA HPS	1	20.00		2006
	Madhya Pradesh	State Sector	MPPGCL	MADHIKHERA HPS	2	20.00		2006
	Madhya Pradesh	State Sector	MPPGCL	MADHIKHERA HPS	3	20.00		2006
88	Madhya Pradesh	State Sector	MPPGCL	RAJGHAT HPS	1	15.00		1999
	Madhya Pradesh	State Sector	MPPGCL	RAJGHAT HPS	2	15.00		1999
	Madhya Pradesh	State Sector	MPPGCL	RAJGHAT HPS	3	15.00		1999
	Total (Madhya Pradesh)						715.00	
89	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	1	80.00		1986
	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	2	80.00		1987
90	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	1	40.00		1988
	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	2	40.00		1987
91	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	1	18.00		1980
	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	2	18.00		1981
92	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	1	70.00		1962
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	2	70.00		1962
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	3	70.00		1963
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	4	70.00		1963
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	5	80.00		1967
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	6	80.00		1966
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	7	80.00		1967
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	8	80.00		1966



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
93	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	1	80.00		1975
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	2	80.00		1976
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	3	80.00		1977
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	4	80.00		1978
94	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	1	250.00		2000
	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	2	250.00		2000
	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	3	250.00		1999
	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	4	250.00		1999
95	Maharashtra	State Sector	MAHAGENCO	TILLARI HPS	1	60.00		1986
96	Maharashtra	State Sector	MAHAGENCO	VAITARNA HPS	1	60.00		1976
97	Maharashtra	State Sector	MAHAGENCO	GHATGHAR PSS HPS	1	125.00		2008
	Maharashtra	State Sector	MAHAGENCO	GHATGHAR PSS HPS	2	125.00		2008
98	Maharashtra	State Sector	DLHP	BHANDARDHARA HPS ST-II	1	34.00		1996
99	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA PSS HPS	1	150.00		1995
100	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	1	25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	2	25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	3	25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	4	25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	5	25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	6	25.00		1949
101	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	1	24.00		1998
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	2	24.00		1997
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	3	24.00		1998
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	4	1.50		1997
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	5	1.50		1999
102	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	1	12.00		2002
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	2	12.00		2003
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	3	12.00		2001
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	4	12.00		2002
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	5	12.00		2002
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	6	12.00		2002
	Total (Maharashtra)					3047.00		



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW	
103	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	1		65.00	2007
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	2		65.00	2007
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	3		65.00	2007
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	4		65.00	2007
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	5		65.00	2007
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	6		65.00	2007
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	7		65.00	2007
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	8		65.00	2007
104	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	1		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	2		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	3		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	4		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	5		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	6		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	7		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	8		125.00	2005
Total Central Sector (Western Region)							1520.00	
	Western Region Total						7392.00	
	3. Southern Region							
105	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR RBC HPS	1		30.00	1983
	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR RBC HPS	2		30.00	1990
	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR RBC HPS	3		30.00	1983
106	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	1		110.00	1982
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	2		110.00	1982
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	3		110.00	1983
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	4		110.00	1984
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	5		110.00	1986
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	6		110.00	1986
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	7		110.00	1987
107	Andhra Pradesh	State Sector	APGENCO	UPPER SILERU HPS	1		60.00	1967
	Andhra Pradesh	State Sector	APGENCO	UPPER SILERU HPS	2		60.00	1968
	Andhra Pradesh	State Sector	APGENCO	UPPER SILERU HPS	3		60.00	1994



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW	
	Andhra Pradesh	State Sector	APGENCO	UPPER SILERU HPS	4		60.00	1997
108	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR TPD	1		25.00	2017
	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR TPD	2		25.00	2017
	Total (Andhra Pradesh)						1150.00	
109	Telangana	State Sector	APGENCO	LOWER SILERU HPS	1		115.00	1976
	Telangana	State Sector	APGENCO	LOWER SILERU HPS	2		115.00	1976
	Telangana	State Sector	APGENCO	LOWER SILERU HPS	3		115.00	1977
	Telangana	State Sector	APGENCO	LOWER SILERU HPS	4		115.00	1978
110	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	1		110.00	1978
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	2		100.80	1980
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	3		100.80	1981
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	4		100.80	1982
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	5		100.80	1983
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	6		100.80	1984
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	7		100.80	1985
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	8		100.80	1985
111	Telangana	State Sector	TSGENCO	NAGARJUN SGR LBC HPS	1		30.00	1983
	Telangana	State Sector	TSGENCO	NAGARJUN SGR LBC HPS	2		30.00	1983
112	Telangana	State Sector	TSGENCO	POCHAMPAD HPS	1		9.00	1987
	Telangana	State Sector	TSGENCO	POCHAMPAD HPS	2		9.00	1987
	Telangana	State Sector	TSGENCO	POCHAMPAD HPS	3		9.00	1988
	Telangana	State Sector	TSGENCO	POCHAMPAD HPS	4		9.00	2010
113	Telangana	State Sector	TSGENCO	PRIVADARSHNI JURALA HPS	1		39.00	2008
	Telangana	State Sector	TSGENCO	PRIVADARSHNI JURALA HPS	2		39.00	2008
	Telangana	State Sector	TSGENCO	PRIVADARSHNI JURALA HPS	3		39.00	2009
	Telangana	State Sector	TSGENCO	PRIVADARSHNI JURALA HPS	4		39.00	2010
	Telangana	State Sector	TSGENCO	PRIVADARSHNI JURALA HPS	5		39.00	2010
	Telangana	State Sector	TSGENCO	PRIVADARSHNI JURALA HPS	6		39.00	2011
114	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	1		150.00	2001
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	2		150.00	2001
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	3		150.00	2002
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	4		150.00	2002
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	5		150.00	2003
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	6		150.00	2003



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW	
115	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	1		40.00	2015
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	2		40.00	2015
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	3		40.00	2016
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	4		40.00	2016
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	5		40.00	2016
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	6		40.00	2016
116	Telangana	State Sector	TSGENCO	PULICHINTALA HPS	1		30.00	2016
	Telangana	State Sector	TSGENCO	PULICHINTALA HPS	2		30.00	2017
	Telangana	State Sector	TSGENCO	PULICHINTALA HPS	3		30.00	2017
	Telangana	State Sector	TSGENCO	PULICHINTALA HPS	4		30.00	2018
Total (Telangana)						2865.60		
117	Karnataka	State Sector	KPCL	JOG HPS	1		13.20	1947
	Karnataka	State Sector	KPCL	JOG HPS	2		13.20	1949
	Karnataka	State Sector	KPCL	JOG HPS	3		13.20	1949
	Karnataka	State Sector	KPCL	JOG HPS	4		13.20	1950
	Karnataka	State Sector	KPCL	JOG HPS	5		21.60	1952
	Karnataka	State Sector	KPCL	JOG HPS	6		21.60	1952
	Karnataka	State Sector	KPCL	JOG HPS	7		21.60	1952
	Karnataka	State Sector	KPCL	JOG HPS	8		21.60	1952
118	Karnataka	State Sector	KPCL	MUNIRABAD HPS	1		9.00	1962
	Karnataka	State Sector	KPCL	MUNIRABAD HPS	2		9.00	1962
	Karnataka	State Sector	KPCL	MUNIRABAD HPS	3		10.00	1965
119	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	1		3.00	1922
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	2		3.00	1924
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	3		3.00	1924
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	4		3.00	1925
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	5		3.00	1923
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	6		3.00	1924
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	7		6.00	1928
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	8		6.00	1934
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	9		6.00	1928
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	10		6.00	1928
120	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	1		15.00	2004



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW	
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	2		55.00	2004
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	3		55.00	2005
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	4		55.00	2004
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	5		55.00	2005
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	6		55.00	2005
121	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	1		16.00	1992
	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	2		16.00	1992
122	Karnataka	State Sector	KPCL	KADRA HPS	1		50.00	1997
	Karnataka	State Sector	KPCL	KADRA HPS	2		50.00	1999
	Karnataka	State Sector	KPCL	KADRA HPS	3		50.00	1999
123	Karnataka	State Sector	KPCL	KALINADI HPS	1		150.00	1979
	Karnataka	State Sector	KPCL	KALINADI HPS	2		150.00	1980
	Karnataka	State Sector	KPCL	KALINADI HPS	3		150.00	1981
	Karnataka	State Sector	KPCL	KALINADI HPS	4		150.00	1982
	Karnataka	State Sector	KPCL	KALINADI HPS	5		150.00	1983
	Karnataka	State Sector	KPCL	KALINADI HPS	6		150.00	1984
124	Karnataka	State Sector	KPCL	KODASALI HPS	1		40.00	1998
	Karnataka	State Sector	KPCL	KODASALI HPS	2		40.00	1999
	Karnataka	State Sector	KPCL	KODASALI HPS	3		40.00	1999
125	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	1		27.50	1979
	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	2		27.50	1980
126	Karnataka	State Sector	KPCL	SHARAVATHI HPS	1		103.50	1965
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	2		103.50	1965
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	3		103.50	1967
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	4		103.50	1967
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	5		103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	6		103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	7		103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	8		103.50	1971
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	9		103.50	1976
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	10		103.50	1977
127	Karnataka	State Sector	KPCL	GERUSUPPA HPS	1		60.00	2001
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	2		60.00	2001
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	3		60.00	2001



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.	
						MW			
128	Karnataka	State Sector	KPCL	GERUSUPPA HPS	4		60.00	2002	
	Karnataka	State Sector	KPCL	BHADRA HPS	1		2.00	1962	
	Karnataka	State Sector	KPCL	BHADRA HPS	2		12.00	1963	
	Karnataka	State Sector	KPCL	BHADRA HPS	3		12.00	1963	
129	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	1		50.00	1985	
	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	2		50.00	1985	
	Karnataka	State Sector	KPCL	VARAHI HPS	1		115.00	1989	
	Karnataka	State Sector	KPCL	VARAHI HPS	2		115.00	1990	
	Karnataka	State Sector	KPCL	VARAHI HPS	3		115.00	2009	
	Karnataka	State Sector	KPCL	VARAHI HPS	4		115.00	2009	
	131	Karnataka	State Sector	APGENCO	T B DAM HPS	1		9.00	1957
		Karnataka	State Sector	APGENCO	T B DAM HPS	2		9.00	1957
Karnataka		State Sector	APGENCO	T B DAM HPS	3		9.00	1964	
Karnataka		State Sector	APGENCO	T B DAM HPS	4		9.00	1964	
132	Karnataka	State Sector	APGENCO	HAMPI HPS	1		9.00	1958	
	Karnataka	State Sector	APGENCO	HAMPI HPS	2		9.00	1958	
	Karnataka	State Sector	APGENCO	HAMPI HPS	3		9.00	1964	
	Karnataka	State Sector	APGENCO	HAMPI HPS	4		9.00	1964	
	Total (Karnataka)					3689.20			
133	Kerala	State Sector	KSEB	IDAMALAYAR HPS	1		37.50	1987	
134	Kerala	State Sector	KSEB	IDAMALAYAR HPS	2		37.50	1987	
	Kerala	State Sector	KSEB	IDUKKI HPS	1		130.00	1976	
	Kerala	State Sector	KSEB	IDUKKI HPS	2		130.00	1976	
	Kerala	State Sector	KSEB	IDUKKI HPS	3		130.00	1976	
	Kerala	State Sector	KSEB	IDUKKI HPS	4		130.00	1985	
	Kerala	State Sector	KSEB	IDUKKI HPS	5		130.00	1986	
	Kerala	State Sector	KSEB	IDUKKI HPS	6		130.00	1986	
135	Kerala	State Sector	KSEB	KAKKAD HPS	1		25.00	1999	
	Kerala	State Sector	KSEB	KAKKAD HPS	2		25.00	1999	
136	Kerala	State Sector	KSEB	KUTTIVADI HPS	1		25.00	1972	
	Kerala	State Sector	KSEB	KUTTIVADI HPS	2		25.00	1972	
	Kerala	State Sector	KSEB	KUTTIVADI HPS	3		25.00	1972	



LIST OF HYDRO POWER STATIONS AS ON 31.03.2023

APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW	
137	Kerala	State Sector	KSEB	KUTTIYADI EXTN. HPS.	4		50.00	2001
138	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	1		50.00	2010
139	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	2		50.00	2010
	Kerala	State Sector	KSEB	LOWER PERIYAR HPS	1		60.00	1997
	Kerala	State Sector	KSEB	LOWER PERIYAR HPS	2		60.00	1997
	Kerala	State Sector	KSEB	LOWER PERIYAR HPS	3		60.00	1997
140	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	1		17.55	1961
141	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	2		17.55	1961
	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	3		17.55	1963
	Kerala	State Sector	KSEB	PALLIVASAL HPS	1		5.00	1940
	Kerala	State Sector	KSEB	PALLIVASAL HPS	2		5.00	1941
	Kerala	State Sector	KSEB	PALLIVASAL HPS	3		5.00	1942
	Kerala	State Sector	KSEB	PALLIVASAL HPS	4		7.50	1948
	Kerala	State Sector	KSEB	PALLIVASAL HPS	5		7.50	1949
	Kerala	State Sector	KSEB	PALLIVASAL HPS	6		7.50	1951
142	Kerala	State Sector	KSEB	PANNIAR HPS	1		15.00	1963
143	Kerala	State Sector	KSEB	PANNIAR HPS	2		15.00	1964
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	1		8.00	1957
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	2		8.00	1958
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	3		8.00	1959
144	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	4		8.00	1960
	Kerala	State Sector	KSEB	SABARIGIRI HPS	1		50.00	1966
	Kerala	State Sector	KSEB	SABARIGIRI HPS	2		50.00	1966
	Kerala	State Sector	KSEB	SABARIGIRI HPS	3		50.00	1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	4		50.00	1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	5		50.00	1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	6		50.00	1967
	145	Kerala	State Sector	KSEB	SENGULAM HPS	1		12.00
	Kerala	State Sector	KSEB	SENGULAM HPS	2		12.00	1954
	Kerala	State Sector	KSEB	SENGULAM HPS	3		12.00	1954
	Kerala	State Sector	KSEB	SENGULAM HPS	4		12.00	1955
	146	Kerala	State Sector	KSEB	SHOLAYAR HPS	1		18.00
	Kerala	State Sector	KSEB	SHOLAYAR HPS	2		18.00	1968
	Kerala	State Sector	KSEB	SHOLAYAR HPS	3		18.00	1968
Total (Kerala)						1864.15		



LIST OF HYDRO POWER STATIONS AS ON 31.03.2023

APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
147	Tamil Nadu	State Sector	TENGEDCO	ALIYAR HPS	1	60.00		1970
148	Tamil Nadu	State Sector	TENGEDCO	BHAWANI KATTAL HPS	1	15.00		2006
149	Tamil Nadu	State Sector	TENGEDCO	BHAWANI KATTAL HPS	2	15.00		2006
	Tamil Nadu	State Sector	TENGEDCO	BHAWANI BARRAGE II HPS	1	15.00		2013
	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE II HPS	2	15.00		2013
	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE III HPS	1	15.00		2012
150	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE III HPS	2	15.00		2013
	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	1	100.00		1987
	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	2	100.00		1988
	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	3	100.00		1988
151	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	4	100.00		1988
	Tamil Nadu	State Sector	TENGEDCO	KODAYAR-I HPS.	1	60.00		1970
	Tamil Nadu	State Sector	TENGEDCO	KODAYAR-II HPS.	2	40.00		1971
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-I HPS.	1	20.00		1960
152	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-I HPS.	2	20.00		1960
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-I HPS.	3	20.00		1964
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	4	35.00		1960
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	5	35.00		1961
153	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	6	35.00		1961
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	7	35.00		1961
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	8	35.00		1964
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-III HPS.	9	60.00		1965
154	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-III HPS.	10	60.00		1964
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-III HPS.	11	60.00		1978
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-IV HPS.	12	50.00		1966
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-IV HPS.	13	50.00		1978
155	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-V HPS.	14	20.00		1964
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-V HPS.	15	20.00		1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-I HPS.	1	15.00		1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-I HPS.	2	15.00		1988
156	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-II HPS.	3	15.00		1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-II HPS.	4	15.00		1988



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
161	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	5	15.00		1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	6	15.00		1987
162	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-IV HPS.	7	15.00		1989
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-IV HPS.	8	15.00		1988
163	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	1	12.50		1937
	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	2	12.50		1937
	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	3	12.50		1938
	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	4	12.50		1946
164	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	1	50.00		1965
	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	2	50.00		1966
	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	3	50.00		1966
	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	4	50.00		1966
165	Tamil Nadu	State Sector	TENGEDCO	MOYAR HPS	1	12.00		1952
	Tamil Nadu	State Sector	TENGEDCO	MOYAR HPS	2	12.00		1952
	Tamil Nadu	State Sector	TENGEDCO	MOYAR HPS	3	12.00		1953
166	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	1	8.00		1944
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	2	8.00		1944
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	3	8.00		1945
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	4	8.00		1951
167	Tamil Nadu	State Sector	TENGEDCO	PARSON'S VALLEY HPS	1	30.00		2000
168	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	1	42.00		1958
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	2	42.00		1959
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	3	42.00		1959
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	4	35.00		1965
169	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	1	7.00		1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	2	7.00		1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	3	7.00		1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	4	13.60		1954
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	5	13.60		1954
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	6	11.00		1939
170	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	1	50.00		2005
	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	2	50.00		2005



LIST OF HYDRO POWER STATIONS AS ON 31.03.2023

APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	3	50.00		2005
171	Tamil Nadu	State Sector	TENGEDCO	SARKARPATHY HPS	1	30.00		1966
172	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	1	35.00		1971
	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	2	35.00		1971
173	Tamil Nadu	State Sector	TENGEDCO	SURULIYAR HPS	1	35.00		1978
	Total (Tamil Nadu)					2178.20		
	Southern Region Total							
	4. Eastern Region							
174	Jharkhand	State Sector	JUUNL	SUBERNREKHA-I HPS.	1	65.00		1977
175	Jharkhand	State Sector	JUUNL	SUBERNREKHA-II HPS.	2	65.00		1980
	Total (Jharkhand)					130.00		
176	Odisha	State Sector	OHPC	BALIMELA HPS	1	60.00		1973
	Odisha	State Sector	OHPC	BALIMELA HPS	2	60.00		1974
	Odisha	State Sector	OHPC	BALIMELA HPS	3	60.00		1974
	Odisha	State Sector	OHPC	BALIMELA HPS	4	60.00		1975
	Odisha	State Sector	OHPC	BALIMELA HPS	5	60.00		1976
	Odisha	State Sector	OHPC	BALIMELA HPS	6	60.00		1970
	Odisha	State Sector	OHPC	BALIMELA HPS	7	75.00		2008
	Odisha	State Sector	OHPC	BALIMELA HPS	8	75.00		2008
177	Odisha	State Sector	OHPC	HIRAKUD HPS	1	49.50		1956
	Odisha	State Sector	OHPC	HIRAKUD HPS	2	49.50		1957
	Odisha	State Sector	OHPC	HIRAKUD HPS	3	32.00		1956
	Odisha	State Sector	OHPC	HIRAKUD HPS	4	32.00		1957
	Odisha	State Sector	OHPC	HIRAKUD HPS	5	43.65		1962
	Odisha	State Sector	OHPC	HIRAKUD HPS	6	43.65		1963
	Odisha	State Sector	OHPC	HIRAKUD HPS	7	37.50		1990
178	Odisha	State Sector	OHPC	CHIPLIMA HPS	1	24.00		1962
	Odisha	State Sector	OHPC	CHIPLIMA HPS	2	24.00		1962
	Odisha	State Sector	OHPC	CHIPLIMA HPS	3	24.00		1964
179	Odisha	State Sector	OHPC	RENGALI HPS	1	50.00		1985
	Odisha	State Sector	OHPC	RENGALI HPS	2	50.00		1986
	Odisha	State Sector	OHPC	RENGALI HPS	3	50.00		1989



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Odisha	State Sector	OHPC	RENGALI HPS	4	50.00		1990
	Odisha	State Sector	OHPC	RENGALI HPS	5	50.00		1992
180	Odisha	State Sector	OHPC	UPPER INDRAVATI HPS	1	150.00		1999
	Odisha	State Sector	OHPC	UPPER INDRAVATI HPS	2	150.00		1999
	Odisha	State Sector	OHPC	UPPER INDRAVATI HPS	3	150.00		2000
	Odisha	State Sector	OHPC	UPPER INDRAVATI HPS	4	150.00		2001
181	Odisha	State Sector	OHPC	UPPER KOLAB HPS	1	80.00		1988
	Odisha	State Sector	OHPC	UPPER KOLAB HPS	2	80.00		1989
	Odisha	State Sector	OHPC	UPPER KOLAB HPS	3	80.00		1990
	Odisha	State Sector	OHPC	UPPER KOLAB HPS	4	80.00		1993
182	Odisha	State Sector	APGENCO	MACHKUND HPS	1	21.25		1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	2	21.25		1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	3	21.25		1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	4	17.00		1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	5	17.00		1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	6	17.00		1959
						2154.55		
183	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	1	9.00		1967
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	2	9.00		1967
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	3	9.00		1972
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	4	9.00		2012
184	West Bengal	State Sector	WBPDCL	RAMMAM HPS	1	12.50		1995
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	2	12.50		1995
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	3	12.50		1996
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	4	12.50		1996
185	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	1	225.00		2007
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	2	225.00		2007
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	3	225.00		2007
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	4	225.00		2007
						986.00		
186	Sikkim	State Sector	TEESTA Urija Ltd	TEESTA-III HPS	1	200.00		2017
	Sikkim	State Sector	TEESTA Urija Ltd	TEESTA-III HPS	2	200.00		2017
	Sikkim	State Sector	TEESTA Urija Ltd	TEESTA-III HPS	3	200.00		2017



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	4	200.00		2017
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	5	200.00		2017
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	6	200.00		2017
187	Sikkim	Private Sector	GATI INFRASTRUCTURE LTD.	CHUZACHEN HPS	1	55.00		2013
	Sikkim	Private Sector	GATI INFRASTRUCTURE LTD.	CHUZACHEN HPS	2	55.00		2013
188	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETHANG LOOP HPS	1	48.00		2015
	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETHANG LOOP HPS	2	48.00		2015
189	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	1	48.50		2017
	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	2	48.50		2017
190	Sikkim	Private Sector	Sneha Kinetics Projects Ltd	DIKCHU HPS	1	48.00		2017
	Sikkim	Private Sector	Sneha Kinetics Projects Ltd	DIKCHU HPS	2	48.00		2017
191	Sikkim	Private Sector	Madhya Bharat Power Co. Ltd	RONGNICHU HPS	1	56.50		2021
	Sikkim	Private Sector	Madhya Bharat Power Co. Ltd	RONGNICHU HPS	2	56.50		2021
Total (Sikkim)						1712.00		
192	Jharkhand	Central Sector	DVC	MAITHON HPS	1	20.00		1958
	Jharkhand	Central Sector	DVC	MAITHON HPS	2	20.00		1958
	Jharkhand	Central Sector	DVC	MAITHON HPS	3	23.20		1957
193	Jharkhand	Central Sector	DVC	PANCHET HPS	1	40.00		1959
	Jharkhand	Central Sector	DVC	PANCHET HPS	2	40.00		1990
194	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	1	33.00		2013
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	2	33.00		2013
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	3	33.00		2013
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	4	33.00		2013
195	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	1	40.00		2016
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	2	40.00		2016
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	3	40.00		2016
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	4	40.00		2016
196	Sikkim	Central Sector	NHPC	RANGIT HPS	1	20.00		2000
	Sikkim	Central Sector	NHPC	RANGIT HPS	2	20.00		2000
	Sikkim	Central Sector	NHPC	RANGIT HPS	3	20.00		2000
197	Sikkim	Central Sector	NHPC	TEESTA V HPS	1	170.00		2008
	Sikkim	Central Sector	NHPC	TEESTA V HPS	2	170.00		2008
	Sikkim	Central Sector	NHPC	TEESTA V HPS	3	170.00		2008



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Total (DVC)					143.20		
	Total (NHPC)					862.00		
	Total Central Sector (DVC+NHPC) (Eastern Region)					1005.20		
	Eastern Region Total					5987.75		
	5. North Eastern Region							
198	Assam	State Sector	APGCL	KARBI LANGPI HPS	1	50.00		2007
	Assam	State Sector	APGCL	KARBI LANGPI HPS	2	50.00		2007
	Total (Assam)					100.00		
199	Meghalaya	State Sector	MeECL	KYRDEMKULAI HPS	1	30.00		1979
	Meghalaya	State Sector	MeECL	KYRDEMKULAI HPS	2	30.00		1979
200	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	1	9.00		1965
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	2	9.00		1965
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	3	9.00		1965
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	4	9.00		1965
201	Meghalaya	State Sector	MeECL	UMIAM HPS ST-IV	1	30.00		1992
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-IV	2	30.00		1992
202	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	1	42.00		2011
	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	2	42.00		2012
	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	3	42.00		2013
203	Meghalaya	State Sector	MeECL	NEW UMTRU HPS	1	20.00		2017
	Meghalaya	State Sector	MeECL	NEW UMTRU HPS	2	20.00		2017
	Total (Meghalaya)					322.00		
204	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	1	135.00		2002
	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	2	135.00		2002
	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	3	135.00		2002
205	Arunachal Pradesh	Central Sector	NEEPCO	PARE HPS	1	55.00		2018
	Arunachal Pradesh	Central Sector	NEEPCO	PARE HPS	2	55.00		2018
206	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	1	150.00		2020
	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	2	150.00		2020
	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	3	150.00		2021
	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	4	150.00		2021



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APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
							MW	
207	Assam	Central Sector	NEEPCO	KOPILI HPS	1		50.00	1988
	Assam	Central Sector	NEEPCO	KOPILI HPS	2		50.00	1988
	Assam	Central Sector	NEEPCO	KOPILI HPS	3		50.00	1997
	Assam	Central Sector	NEEPCO	KOPILI HPS	4		50.00	1997
208	Assam	Central Sector	NEEPCO	KHONDONG HPS	1		25.00	1984
	Assam	Central Sector	NEEPCO	KHONDONG HPS	2		25.00	1984
209	Manipur	Central Sector	NHPC	LOKTAK HPS	1		35.00	1983
	Manipur	Central Sector	NHPC	LOKTAK HPS	2		35.00	1983
	Manipur	Central Sector	NHPC	LOKTAK HPS	3		35.00	1983
210	Mizoram	Central Sector	NEEPCO	TUIRIAL HPS	1		30.00	2017
	Mizoram	Central Sector	NEEPCO	TUIRIAL HPS	2		30.00	2017
211	Nagaland	Central Sector	NEEPCO	DOYANG HPS.	1		25.00	2000
	Nagaland	Central Sector	NEEPCO	DOYANG HPS.	2		25.00	2000
	Nagaland	Central Sector	NEEPCO	DOYANG HPS.	3		25.00	2000
Total Central Sector (North Eastern Region)							1605.00	
North Eastern Region Total							2027.00	
Total All India Hydro							46850.17	



LIST OF NUCLEAR POWER STATIONS AS ON 31.03.2023

APPENDIX-C

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
1	Rajasthan	Central Sector	NPCIL	DAE (RAJASTHAN)	1		100	1972
2	Rajasthan	Central Sector	NPCIL	RAJASTHAN A.P.S.	2		200	1980
	Rajasthan	Central Sector	NPCIL	RAJASTHAN A.P.S.	3		220	2000
	Rajasthan	Central Sector	NPCIL	RAJASTHAN A.P.S.	4		220	2000
	Rajasthan	Central Sector	NPCIL	RAJASTHAN A.P.S.	5		220	2010
	Rajasthan	Central Sector	NPCIL	RAJASTHAN A.P.S.	6		220	2010
3	Uttar Pradesh	Central Sector	NPCIL	NARORA A.P.S.	1		220	1989
	Uttar Pradesh	Central Sector	NPCIL	NARORA A.P.S.	2		220	1992
4	Gujarat	Central Sector	NPCIL	KAKRAPARA A.P.S.	1		220	1992
	Gujarat	Central Sector	NPCIL	KAKRAPARA A.P.S.	2		220	1995
5	Maharashtra	Central Sector	NPCIL	TARAPUR A.P.S.	1		160	1960
	Maharashtra	Central Sector	NPCIL	TARAPUR A.P.S.	2		160	1969
	Maharashtra	Central Sector	NPCIL	TARAPUR A.P.S.	3		540	2005
	Maharashtra	Central Sector	NPCIL	TARAPUR A.P.S.	4		540	2006
6	Karnataka	Central Sector	NPCIL	KAIGA A.P.S.	1		220	2000
	Karnataka	Central Sector	NPCIL	KAIGA A.P.S.	2		220	1999
	Karnataka	Central Sector	NPCIL	KAIGA A.P.S.	3		220	2007
	Karnataka	Central Sector	NPCIL	KAIGA A.P.S.	4		220	2011
7	Tamil Nadu	Central Sector	NPCIL	MADRAS A.P.S.	1		220	1983
	Tamil Nadu	Central Sector	NPCIL	MADRAS A.P.S.	2		220	1985
8	Tamil Nadu	Central Sector	NPCIL	KUDANKULAM	1		1000	2014
	Tamil Nadu	Central Sector	NPCIL	KUDANKULAM	2		1000	2017
Total All India Nuclear							6780	



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