



अखिल भारतीय विद्युत सांख्यिकी All India Electricity Statistics



सामान्य पुनर्विलोकन 2020
(2018-2019 के आंकड़े समाविष्ट)

GENERAL REVIEW 2020
(Containing Data for the year 2018-2019)

भारत सरकार
विद्युत मंत्रालय
केन्द्रीय विद्युत प्राधिकरण
नई दिल्ली
अक्टूबर 2020

Government of India
Ministry of Power
Central Electricity Authority
New Delhi
October 2020



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प्रकाश मस्के
अध्यक्ष
केंद्रीय विद्युत प्राधिकरण
भारत सरकार

प्राक्कथन

विद्युत अधिनियम 2003 के प्रावधानों के अनुसार केंद्रीय विद्युत प्राधिकरण द्वारा समय-समय पर देश के विभिन्न क्षेत्रों द्वारा विद्युत उत्पादन, पारेषण, ट्रेडिंग, वितरण और उपभोग संबंधी आंकड़े सार्वजनिक किए जाते हैं। “अखिल भारतीय विद्युत सांख्यिकी – सामान्य पुनर्विलोकन” का प्रकाशन इस दिशा में एक कदम है। यह प्रकाशन वर्ष 2018-19 के आंकड़ों पर आधारित है।

“अखिल भारतीय विद्युत सांख्यिकी – सामान्य पुनर्विलोकन” के लिए आंकड़े भारतीय विद्युत क्षेत्र के विभिन्न संगठनों से संग्रहित किये गये हैं। उपलब्ध आंकड़ों के अनुसार, वर्ष 2018-19 के दौरान विद्युत उत्पादन क्षमता पिछले वर्ष की तुलना में 8.11% बढ़ी है। इस वर्ष कुल विद्युत उर्जा उत्पादन, जिसमें कैप्टिव प्लांट भी शामिल हैं, पिछले वर्ष की तुलना में 6.85% बढ़ा है। वर्ष 2018-19 के दौरान, देश में कुल स्थापित विद्युत उत्पादन क्षमता में, अक्षय ऊर्जा स्रोतों (25 मेगावाट से अधिक जल विद्युत को छोड़कर) की स्थापित क्षमता की हिस्सेदारी 18.71% रही, और इन स्रोतों से उत्पादन की हिस्सेदारी, कुल विद्युत उत्पादन में 8.23% रही।

मैं उन सभी यूटिलिटीयों/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 2020” भारत के, विद्युत क्षेत्र के विकास में शामिल सभी अंशदायकों की अपेक्षाओं को पूरी करेगा।

अक्टूबर, 2020


(प्रकाश मस्के)



Prakash Mhaske
Chairperson
Central Electricity Authority
Govt of India

FOREWORD

In fulfilment of its statutory obligations under the Electricity Act, 2003, Central Electricity Authority makes public from time to time, the statistics concerning generation, transmission, trading, distribution and utilization of electricity by different sectors in the country. The publication “All India Electricity Statistics - General Review 2020” is a step in this direction, which is based on data for the year 2018-19.

The data for this publication has been collected from various organisations of the Indian Electricity Sector. As per the available data, the installed capacity including captive plants during the year 2018-19 has increased by 8.11% over the previous year and the total electricity generated in the country including that from captive plants during the year 2018-19 has registered a growth of 6.85% over the previous year. The share of renewable energy resources (excluding Hydro above 25MW) in total installed capacity was 18.71% and the share of generation from these sources in total generation was 8.23% in the country during the year 2018-19.

The Cooperation of all utilities/ organizations who have timely furnished the requisite information, making this publication possible, is gratefully acknowledged.

I hope that “All India Electricity Statistics - General Review 2020” will fulfill the expectations of all stakeholders who are involved in the development of electricity sector in India.



October, 2020

(PRAKASH MHASKE)



सन्देश कुमार शर्मा
सदस्य (योजना)
केंद्रीय विद्युत प्राधिकरण

प्रस्तावना

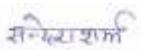
हाल ही में भारतीय विद्युत क्षेत्र ने काफी सकारात्मक विकास किया है लेकिन अभी इस क्षेत्र को आत्मनिर्भर बनने में कुछ समय लगेगा। विद्युत क्षेत्र में विभिन्न यूटिलिटीयों के विघटित होने, निजी क्षेत्र की भागीदारी, ईंधन मिश्रण में ज्यादा विविधताओं और विभिन्न वर्षों में मौसमानुसार लोड आवश्यकता पर ध्यान देने के साथ विद्युत अधिप्राप्ति योजना के कारण बहुत बदलाव हुए हैं। पिछले तीन वर्षों में यद्यपि विद्युत कमी काफी हद तक कम हुई है और वर्तमान में हमारे पास अतिरिक्त उत्पादन क्षमता है। यह मुख्य रूप से कुछ राज्यों के उप-पारेषण एवं वितरण प्रणाली में बाध्यताओं तथा उनकी प्रतिकूल वित्तीय स्थिति के कारण है। इसको ध्यान में रखते हुए भारत सरकार ने राज्य विद्युत वितरण यूटिलिटी के वित्तीय टर्नअराउंड के लिए उज्ज्वल डिस्कोम एश्योरेंस योजना (उदय) का शुभारम्भ किया है, जहाँ वित्तीय घाटे को कम करने के लिए राज्य सरकारें जिम्मेवार होंगी। कुछ लक्ष्य निर्धारित किए गए हैं जिनके पूर्ण होने पर राज्य सरकारें भविष्य में केंद्र सरकार से लाभ के लिए हकदार होंगी। भारत सरकार, असंबद्ध उपभोक्ताओं की अंतिम मील कनेक्टिविटी को सक्षम करने के लिए सौभाग्य योजना भी लाई है।

सामान्य पुनर्विलोकन में डाटा का भंडार जैसे कि स्थापित क्षमता, विद्युत ऊर्जा उत्पादन, ट्रांसमिशन और वितरण नेटवर्क, कैपिटल पावर प्लांट्स और विद्युत उपभोग इत्यादि शामिल है। 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। इस प्रकाशन में शामिल सूचना देश में भिन्न विकास दरों और क्षेत्रीय योजना को सुविधाजनक बनाने के लिए उपभोग रूझान और विद्युत के विभिन्न क्षेत्रों की उपलब्धियों के निर्धारण में उपयोगी होंगी।

वार्षिक विद्युत सांख्यिकी का संग्रहण, संवीक्षा और संकलन विद्युत अधिनियम 2003 के तहत अपनी बाध्यताओं को पूरा करने में के.वि.प्रा. द्वारा निष्पादित किया जा रहा एक महत्वपूर्ण कार्य है। यूटिलिटी स्रोतों और उद्योगों में कैपिटल पावर प्लांट जिनकी मांग 1 मे.वा. या अधिक है, से जुड़े आंकड़े भी रिपोर्ट में शामिल किए गए हैं। कुछ यूटिलिटीयों से संबंधित वर्ष 2018-19 के पूर्ण आंकड़े/सूचना का अभाव होना एक प्रमुख बाधा है और ऐसे मामलों में वर्ष 2017-18 के आंकड़ों की ही पुनरावृत्ति की गई है अथवा इन्होंने से अनुमान लगाया गया है।

“अखिल भारतीय विद्युत सांख्यिकी सामान्य पुनर्विलोकन-2020” में शामिल मई, 2020 तक प्राप्त आंकड़ों/सूचना के आधार पर वर्ष 2018-19 के आंकड़ों का संकलन किया गया है। मुझे विश्वास है कि इस प्रकाशन में निहित सूचना भारत के विद्युत क्षेत्र से जुड़े सभी लोगों को अपनी गतिविधियों को नियोजित करने के लिए काफी महत्वपूर्ण साबित होंगी। इस प्रकाशन में सुधार के लिए टिप्पणियों/प्रेक्षणों/सुझावों का स्वागत है और अखिल भारतीय सांख्यिकी-सामान्य पुनर्विलोकन के अगले अंक में इन सुझावों को ध्यान में रखा जाएगा।

अक्टूबर, 2020


(सन्देश कुमार शर्मा)



Sandesh Kumar Sharma
Member (Planning)
Central Electricity Authority

PREFACE

The Indian Electricity Sector has registered many positive developments in the recent past but it still has some way to go before the sector becomes self-sustaining. Power sector has changed substantially due to unbundling of various utilities, private sector participation, greater diversification in the fuel mix and forward looking power procurement planning, with emphasis on seasonal load requirement in different years. In the last 3 years, however, the shortages have reduced substantially. At present, we have unutilized generating capacity. This is mainly because of constraints in the sub-transmission and distribution system in some of the States, as well as adverse financial position of many of the States. Taking this into account, the Government of India has launched the Ujwal Discoms Assurance Yojna (UDAY) Scheme for financial turnaround of the State Distribution utilities, where the State Government has been made responsible for reduction of financial losses. Certain targets have been set, which, if achieved, would entitle the State Government to further benefits from the Central Government. The Government of India has also brought out the Saubhagya scheme for enabling last mile connectivity of unconnected consumers.

The General Review contains a wealth of data, including Installed capacity, Electrical Energy Generation, Transmission and Distribution Network, 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. The information contained in this publication would be useful in working out the various growth rates and consumption trends to facilitate sectoral planning and for assessment of the achievement of various sectors of electricity in the country.

Collection, scrutiny, compilation of annual electricity statistics has been an important task being accomplished by CEA in fulfillment of its obligation under the Electricity Act, 2003. Data pertaining to utility sources and Captive Power Plants in Industries having demand of 1 MW and above have also been included in the Report. The non-availability of complete data/information in respect of certain utilities for the year 2018-19 is a major constraint and in such cases the data for the year 2017-18 has either been repeated or estimated. I strongly urge the Utilities to provide the requisite input data on priority so that General Review could be finalized in time.

The "All India Electricity Statistics- General Review 2020" containing data for 2018-19 has been compiled based on the data/information received till May, 2020. I am sure that the information contained in the publication shall be of immense importance 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 All India Electricity Statistics-General Review.



(SANDESH KUMAR SHARMA)

October, 2020



प्रह्लाद
मुख्य अभियंता (पी.डी.एम.)
केंद्रीय विद्युत प्राधिकरण

आभार

इस प्रकाशन “अखिल भारतीय विद्युत सांख्यिकी सामान्य पुनर्विलोकन-2020” में विभिन्न क्षेत्रों/श्रेणियों द्वारा विद्युत के उत्पादन, पारेषण, संवितरण और खपत से संबंधित देशव्यापी आंकड़े अंतर्निहित हैं। इस प्रकाशन के लिए आंकड़े सरकारी और निजी दोनों क्षेत्रों में विद्युत क्षेत्र की यूटिलिटियों, विद्युत विभाग और भारत की गैर-यूटिलिटियों और विशिष्ट श्रेणी के उपभोक्ताओं से एकत्रित किए गए हैं। विश्वसनीय आंकड़ों की उपलब्धता विद्युत के विभिन्न क्षेत्रों में निर्णय करने को सुगम बनाने के लिए विभिन्न संकेतकों को तैयार करने के लिए एक महत्वपूर्ण इनपुट है। संगठनों की बड़ी संख्या के कारण आंकड़ा संग्रहण का कार्य निश्चय ही बहुत जटिल हो गया है। योजनाओं और नीति निर्माण में पारस्परिक लाभ के लिए सभी प्रकार के आंकड़ों के प्रबंधन के कार्य राज्यों में एक केंद्रीय आंकड़ा पूलिंग और प्रकाशन संगठन के होने से यह संकलन भली-भांति किया जा सकेगा।

आंकड़ों का यह संकलन सभी यूटिलिटियों, संगठनों के सक्रिय सहयोग का ही परिणाम है जिन्होंने अपेक्षित जानकारी को उपलब्ध कराया और उनके इस योगदान के लिए हम हार्दिक आभार प्रकट करते हैं।

पी.डी.एम. प्रभाग के अधिकारियों ने इस प्रकाशन के आंकड़ों के संकलन के लिए अपनी निरंतर निगरानी के माध्यम से असाधारण प्रयास किया है। श्री के. एस. बाबू, निदेशक; श्री अंजुम परवेज, निदेशक; श्रीमती किरण मीणा, उप निदेशक; श्री अक्षय कुमार, सहायक निदेशक एवं श्री पवन कुमार गुप्ता, सहायक निदेशक द्वारा दिए गए योगदान के लिए मैं उनका आभार प्रकट करता हूँ। इस प्रकाशन को जारी किए जाने में श्री आर.आर. शर्मा, वरिष्ठ सांख्यिकी अधिकारी ने प्रशासनिक सहयोग एवं श्री दीपक कुमार शर्मा, निजी सचिव ने सचिवालयी सहायता प्रदान की। इस पुनर्विलोकन को तैयार करने में क्षेत्रीय विद्युत सर्वेक्षण कार्यालयों (आर.पी.एस.ओ.), के.वि.प्रा द्वारा महत्वपूर्ण इनपुट प्रदान किए गए।

इस पुनर्विलोकन में विद्युत क्षेत्र के आंकड़ों को समाविष्ट करने और इनकी विशुद्धता को बनाए रखने के लिए हर संभव प्रयास किए गए हैं। इस पुनर्विलोकन में यदि कोई विसंगति पाई जाती है तो इसे कृपया हमारे ध्यान में लाया जाए जिसके लिए हम आपके आभारी रहेंगे।

अक्टूबर, 2020

(प्रह्लाद)



Prahlad
Chief Engineer (PDM)
Central Electricity Authority

ACKNOWLEDGEMENT

This publication “All India Electricity Statistics- General Review 2020” contains countrywide statistics relating to generation, transmission, distribution and consumption of electricity by different sectors/categories. The data for this publication are collected from Utilities of Electricity Sector in public and private sectors, Electricity Departments and Non-Utilities of India and specific category consumers. The availability of reliable data is an important input to work out various indicators for facilitation of decision making in various sectors of electricity. With large number of organizations, the work of data collection has indeed become very complex. States would be well served in having a central data pooling and publishing organization for management of all the data for the mutual benefit in planning and policy making.

This compilation is a result of active co-operation of all utilities/organizations, who have furnished the requisite information and their contribution is sincerely acknowledged.

The Officers of PDM Division had to put extraordinary efforts in compilation of this publication through constant follow-up for data collection. The contribution made by Shri K. S. Babu, Director; Shri Anzum Parwej, Deputy Director; Ms. Kiran Meena, Deputy Director; Shri Akshay Kumar, Assistant Director and Shri Pawan Kumar Gupta, Assistant Director is gratefully acknowledged. Shri R.R. Sharma, Sr. Statistical Officer provided administrative support and Shri Deepak Kumar Sharma, PS rendered secretarial assistance in bringing out this publication. The vital inputs provided by Regional Power Survey Offices (RPSOs) of CEA for preparation of this Review are acknowledged with thanks.

All efforts have been made to incorporate the data on electricity sector and maintain accuracy. Any discrepancy, if noticed in this review, may be brought to our notice which will be gratefully acknowledged.

October, 2020



(PRAHLAD)

GLOSSARY

Containing Definitions, Expansion of Abbreviations

A & W	As & When
APPGCL	Andhra Pradesh Power Generation Corporation Limited
APTRANSCO	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	Indraprastha Power 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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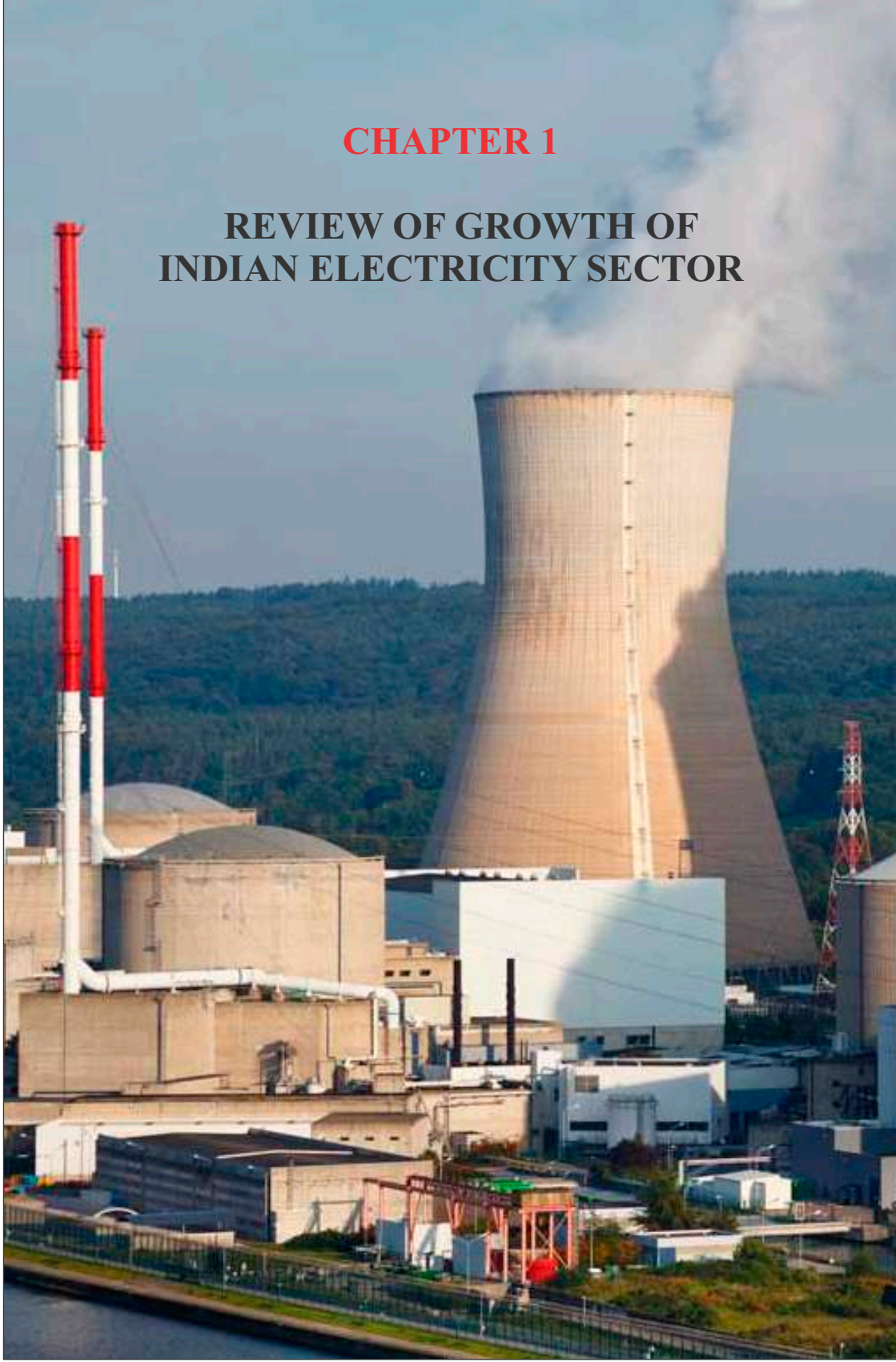
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(XV)



CHAPTER 1

REVIEW OF GROWTH OF INDIAN ELECTRICITY SECTOR





CHAPTER 1

REVIEW OF GROWTH OF INDIAN ELECTRICITY SECTOR

Power development in India commenced at the end of 19th century with the Commissioning of first hydro unit of 130 kW generators at Sidrapong in Darjeeling during 1897, followed by first steam driven power plant rated 1000 kW two years later at Calcutta in 1899 by CESC. In the pre-independence era, the power supply was mainly in the hands of Private Sector that too restricted to the urban areas. After independence, the Government of India felt the need for broadening electricity supply industry with a view to rationalize its growth all over the country.

With the formation of State Electricity Boards in the various parts 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 power generation activity started increasing significantly. The central participation in power generation programme started with the creation of two generating corporations viz. National Thermal Power Corporation and National Hydro Power Corporation during the year 1975, which gave a fillip to the growth of power sector in the country. The setting up of Nuclear Power Corporation and Power Grid Corporation of India Ltd. gave further boost to the power development programme. The 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 into force in June, 2003. It replaces 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, 2019 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 2019, the All India installed capacity (excluding captive capacity) has increased to 356100 MW consisting of 45399 MW hydro, 226279 MW thermal, 6780 MW nuclear and 77642 MW renewable energy taking into account the addition of new capacity and up-rating/de-rating of existing capacity and retirement of old and inefficient units at the end of the year 2018-19. The details of growth of installed capacity (conventional & RES) is given at Table 1.2.

The total installed capacity of captive power plants in industries having demand of 1 MW & above, at the end of the fiscal year 2018-19 has grown to 75207 MW out of which the contribution of hydro was 103 MW, steam 47679 MW, diesel 15571 MW, gas 8787 MW, and RES 3067 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 1371779 GWh (excluding generation from captive plants) during the year 2018-19 constituting 134894 GWh hydro, 1072314 GWh thermal, 37813 GWh nuclear and 126759 GWh R.E.S. Yearly details of generation growth are given at Table 1.3. Electricity generated from the captive electricity generation plants during the year 2018-19 was 213074 GWh, constituting 270 GWh from hydro, 184250 GWh from steam, 5334 GWh from diesel, 19545 GWh from gas and 3674 GWh from RES. Details are given at Table 1.6.

3. ELECTRICITY CONSUMPTION

The consumption of electricity was 5610 GWh as on 31.12.1950. The consumption has been increased to 1209972 GWh during the year 2018-19. Details are given at Table 1.4 & 1.7. The industrial, domestic and agricultural categories constitute the major categories of consumers of electricity, constituting about 42.91%, 23.82% and 17.64% respectively of the total consumption including non-utilities.

4. RURALELECTRIFICATION

The total number of villages electrified as on 31.12.1950 was 3061. The total number of villages electrified as on 31.03.2019 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.

5. TRANSMISSION & DISTRIBUTION LINES

The length of transmission and distribution lines which was 29271 ckt. kms as on 31.12.1950 rose to 12682649 ckt. kms as on 31st March 2019. Details are given at Table 1.1.

6. PER CAPITA ELECTRICITY CONSUMPTION

The per capita electricity consumption which was 18.17 kWh during 1950, has increased to 1181 kWh during the year 2018-19. 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.

GROWTH OF PER CAPITA ELECTRICITY CONSUMPTION IN kwh 2005-06 to 2018-19



Per Capita Electricity Consumption= Gross Energy Generation + Net Import / Mid Year Population (As per UN Practice)

Table 1.0
OVERVIEW OF ALL INDIA INSTALLED CAPACITY, GENERATION
AND PER CAPITA CONSUMPTION OF ELECTRICITY
2018-19

A Installed Capacity as on 31.03.2019								
(I) Utilities (MW)								
Sector	Hydro	Thermal				Nuclear	RES	Grand Total
		Steam	Gas	Diesel	Total Thermal			
1	2	3	4	5	6 (3+4+5)	7	8	9 (2+6+7+8)
State Sector	29878.80	65366.50	7118.71	363.93	72849.13	0.00	2347.93	105075.86
Central Sector	12126.42	58820.00	7237.91	0.00	66057.91	6780.00	1632.30	86596.63
Private Sector	3394.00	76518.00	10580.60	273.70	87372.30	0.00	73661.40	164427.70
All India Total	45399.22	200704.50	24937.22	637.63	226279.34	6780.00	77641.63	356100.19
(ii) Non-Utilities	103.39	47679.04	8787.13	15570.97	72037.14	0.00	3066.59	75207.13
(iii) Total (Utilities+Non-Utilities)	45502.61	248383.54	33724.35	16208.60	298316.49	6780.00	80708.22	431307.31
B Generation for 2018-19								
(I) Utilities (MW)								
Sector	Hydro	Thermal				Nuclear	RES	Grand Total
		Steam	Gas	Diesel	Total Thermal			
1	2	3	4	5	6 (3+4+5)	7	8	9 (2+6+7+8)
State Sector	76357.31	318904.08	15932.25	177.85	335014.18	0.00	4130.43	415501.92
Central Sector	44969.27	348580.77	19576.71	0.00	368157.48	37812.60	2274.01	453213.36
Private Sector	13567.04	354780.47	14324.78	37.25	369142.50	0.00	120354.65	503064.19
All India Total	134893.62	1022265.32	49833.74	215.10	1072314.16	37812.60	126759.10	1371779.48
(ii) Non-Utilities	270.04	184250.36	19545.09	5334.32	209129.77	0.00	3673.92	213073.73
(iii) Total (Utilities + Non-Utilities)	135163.66	1206515.68	69378.83	5549.42	1281443.92	37812.60	130433.02	1584853.21
(iv) Net Import (+)/Export (-) outside the Country								-4073.08
(v) Total Energy available in the Country								1580780.13
C Per Capita Consumption for 2018-19 (KWh)								1181
D Growth								
		2016-17		2017-18		2018-19		
		Value%	Growth	Value%	Growth	Value%	Growth	
1. Installed Capacity (MW)		326832.53	7.10	344002.39	5.25	356100.19	3.52	
2. Generation (GWh)		1235357.98	5.80	1303454.68	5.51	1371779.48	5.24	
3. Per Capita Consumption (KWh)		1122	4.38	1149	2.44	1181	2.77	
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	560266@	9080556	914
21	31.03.2014 (2nd year of 12th Plan)	248554	42258	571782	9312634	957
22	31.03.2015 (3rd year of 12th Plan)	274904	44657	578957	9972918	1010
23	31.03.2016 (4th year of 12th Plan)	305162	48279	586065	10316547	1075
24	31.03.2017 (End of 12th Plan)	326833	51529	592972	10686448	1122
25	31.03.2018 (End of Annual Plan)	344002	54933	597121	11958511	1149
26	31.03.2019 (End of Annual Plan)	356100	75207	597464	12682649	1181

@ : As per revised definition of Electrification 2001 Census

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	34988	248554
22	31.03.2015 (3rd year of 12th Plan)	41267	188898	5780	38959	274904
23	31.03.2016 (4th year of 12th Plan)	42783	210675	5780	45924	305162
24	31.03.2017 (End of 12th Plan)	44478	218330	6780	57244	326833
25	31.03.2018 (End of Annual Plan)	45293	222907	6780	69022	344002
26	31.03.2019 (End of Annual Plan)	45399	226279	6780	77642	356100

RES : Renewable Energy Sources. Includes Small Hydro Projects, Wind, Biomass, Biomass Gasifier, Urban & Industrial Waste & Solar.

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

(GWh)

Sl. No.	As on	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	61785	1105072
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

Note: 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	Percentage Share(2018-19)	23.82	8.12	42.91	1.56	17.64	5.96	100

Table 1.5
GROWTH OF INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW AND ABOVE
MODE-WISE

Sl. No.	HYDRO	STEAM	DIESEL	GAS	RES	SUB – TOTAL	RAILWAYS	TOTAL
	3	4	5	6	7	8	9	10
1								
1						587.85		587.85
2						759.65		759.65
3						1001.37		1001.37
4						1082.36		1082.36
5						1277.47		1277.47
6						1732.70		1732.70
7	2.61	1949.23	559.17	44.27	0.00	2555.28	62.31	2617.59
8	2.61	2021.61	720.58	54.27	0.00	2799.07	60.44	2859.51
9	2.91	2803.18	2077.06	155.31	0.00	5038.46	81.80	5120.26
10	3.60	4822.85	2754.48	42.51	0.00	8006.44	109.29	8115.73
11	4.30	5377.10	3291.06	495.72	0.00	9168.18	133.23	9301.41
12	3.50	6151.69	4529.91	1166.38	64.83	11916.31	162.62	12078.93
13	51.10	8354.03	6521.95	2125.91	92.21	17145.20	NA	17145.20
14	60.50	11397.52	7723.35	2976.00	177.67	22335.04	NA	22335.04
15	60.50	11763.99	8647.92	4209.23	304.75	24986.39	NA	24986.39
16	110.79	13817.53	8749.67	3621.05	374.63	26673.68	NA	26673.68
17	55.01	17183.34	9456.61	4368.02	453.89	31516.87	NA	31516.87
18	56.88	19111.54	9655.25	5053.76	566.69	34444.12	NA	34444.12
19	47.59	22615.39	9955.23	5884.95	872.21	39375.37	NA	39375.37
20	66.90	23889.61	11148.14	4497.69	1124.05	40726.39	NA	40726.39
21	63.59	24751.58	11432.35	4751.35	1259.00	42257.87	NA	42257.87
22	65.09	26088.59	12008.89	5193.44	1300.84	44656.85	NA	44656.85
23	59.09	28687.59	12346.61	5818.62	1367.58	48279.48	NA	48279.48
24	65.29	30571.95	13349.69	6109.21	1433.06	51529.19	NA	51529.19
25	50.96	32854.41	13144.60	7156.37	1726.17	54932.51	NA	54932.51
26	103.39	47679.04	15570.97	8787.13	3066.59	75207.13	NA	75207.13

Note: * Break-up not available | NA - Not Available

Table 1.6
GROWTH OF ELECTRICITY GENERATION FROM CAPTIVE POWER PLANTS
IN INDUSTRIES HAVING DEMAND OF 1 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

Note: * Break-up not available

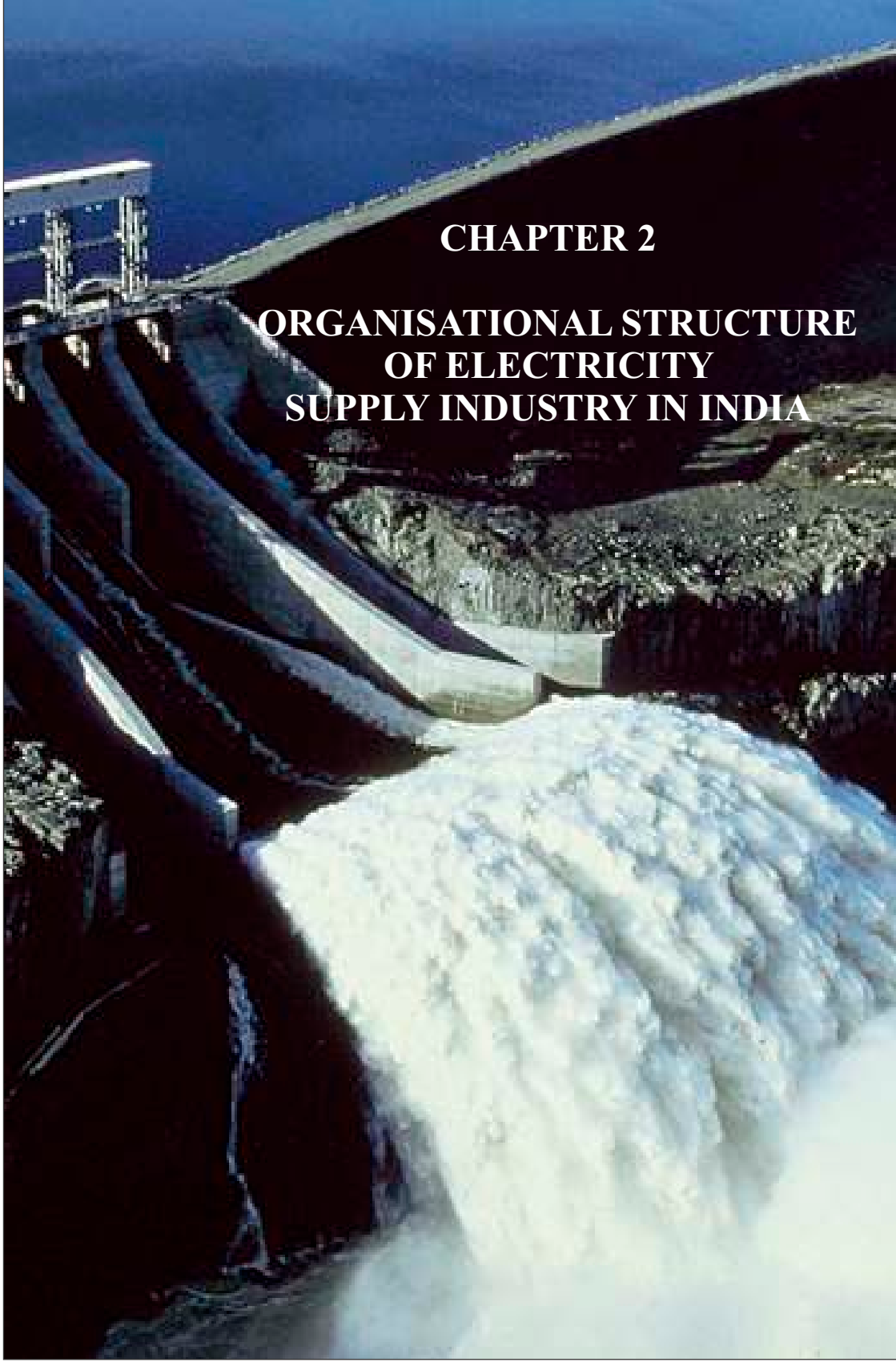
NA - Not Available

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

State/UTs	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
Chandigarh	1340	1301	1365	1419	1472	1497	1589	1574	1535
Delhi	21077	23015	23144	23981	24775	25658	26604	28488	29169
Haryana	24015	27614	26258	29083	32197	35092	34501	38215	41017
Himachal Pradesh	6296	6844	7358	7649	7842	7958	7974	8405	9041
Jammu & Kashmir	4041	4267	5163	5754	6372	7144	7902	8395	9633
Punjab	32155	33888	35825	37557	39384	40843	44050	47027	50120
Rajasthan	33927	37904	42160	43151	49920	50359	51027	53618	60151
Uttar Pradesh	43742	50592	55550	59177	64707	70967	81068	90395	91355
Uttarakhand	7250	8253	8574	9597	9980	10298	11162	11210	11543
Sub-Total (NR)	173843	193679	205397	217368	236648	249816	265878	287327	303565
Chhattisgarh	12205	13178	14115	14791	17102	18887	19159	20363	22210
Gujarat	54013	57654	63427	66878	73890	77028	85556	90719	95970
Madhy Pradesh	25329	28541	32936	36770	41757	46384	45681	52523	56972
Maharashtra	87532	96642	100285	100842	108496	115356	121051	124921	132619
Daman & Diu	1633	1771	1814	1819	1595	1692	1737	2377	2431
D & N Haveli	3906	4139	4595	5190	5164	5548	5737	5672	6066
Goa	2780	2973	2998	3085	3151	3391	3475	3618	3787
Sub-Total (WR)	187398	204899	220170	229375	251154	268286	282397	300193	320056
Andhra Pradesh	64011	70421	68439	72919	41914	44353	47761	51001	55407
Telangana					39639	41289	44446	51198	58366
Karnataka	39789	47456	51439	53716	55166	57223	58152	59236	62405
Kerala	14578	15993	16833	18025	18786	19829	20218	21354	21414
Tamil Nadu	62751	61897	62077	71772	77618	80083	83936	86654	91788
Puducherry	1931	2322	2492	2532	2441	2468	2556	2540	2654
Lakshadweep	30	34	38	41	45	46	48	49	49
Sub-Total (SR)	183089	198122	201318	219005	235608	245291	257118	272031	292083
Bihar	5583	6184	6721	7980	9807	13250	17251	18713	20856
Jharkhand	14667	15595	17124	18175	16533	17542	19549	19950	21184
Orissa	13099	13054	13552	14411	15440	16053	16988	17714	19373
West Bengal	32609	33903	36320	36592	39059	42497	43946	45478	48290
Sikkim	338	371	385	405	405	354	437	344	381
A & N Islands	187	199	206	216	229	242	266	266	255
Sub-Total (ER)	66483	69306	74309	77778	81473	89938	98436	102464	110339
Arunachal Pradesh	360	436	471	481	543	375	371	437	447
Assam	3460	3969	4205	4763	5484	6199	6525	7064	7268
Manipur	271	325	379	398	465	475	512	564	613
Meghalaya	969	1075	1259	1322	1233	1283	972	1064	1105
Mizoram	238	252	287	303	327	339	354	396	408
Nagaland	289	317	328	395	529	549	635	664	679
Tripura	569	554	721	722	786	813	895	928	956
Sub-Total (NER)	6155	6929	7649	8383	9367	10033	10264	11116	11475
Total(All India)	616969	672933	708843	751908	814250	863364	914093	973131	1037518

Table 1.8
ALL INDIA CAPACITY ADDITION TARGETS & ACHIEVEMENTS
DURING VARIOUS PLANS

PLAN	Targets (MW)	Achievements Achievements	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

A photograph of a large concrete dam with multiple spillways. Water is cascading over the spillways, creating a large plume of white water at the base. The dam is set against a clear blue sky. The text is overlaid on the upper right portion of the image.

CHAPTER 2

ORGANISATIONAL STRUCTURE OF ELECTRICITY SUPPLY INDUSTRY IN INDIA



CHAPTER 2

ORGANISATIONAL STRUCTURE OF ELECTRICITY SUPPLY INDUSTRY IN INDIA

Formation of State Electricity Boards in various parts of the country started in the early 50s 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 2019, there were one hundred forty-three (143) 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 31.03.2019, there were thirty-seven (37) Power Trading Companies, one hundred forty-four (144) 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
31.03.2019

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	Jharkhand Urja Utpadan Nigam Ltd.	Ranchi	Jharkhand
18	Kanti Bijlee Utpadan Nigam Ltd.	New Delhi	Central Sector (JV)
19	Karnataka Power Corp. Ltd.	Bengaluru	Karnataka
20	M.P. Power Generating Co. Ltd.	Jabalpur	Madhya Pradesh
21	Machkund Hydro Electric Project	Vishakhapatnam	A.P./Odisha
22	Maharashtra State Power Generation Co. Ltd.	Mumbai	Maharashtra
23	Meghalaya Power Generation Corporation Ltd.	Shillong	Meghalaya
24	Meja Urja Nigam Pvt Limited	Delhi	Central Sector (JV)
25	Narmada Hydroelectric Development Corpn. Ltd	Bhopal	Central
26	National Hydroelectric Power Corp. Ltd.	Faridabad	Central
27	National Thermal Power Corp. Ltd.	New Delhi	Central
28	Neyveli Lignite Corporation Ltd.	Neyveli	Central
29	NLC Tamil nadu Power Ltd.	Chennai	Tamil Nadu
30	North-Eastern Electric Power Corpn. Ltd.	Shillong	Central
31	NTPC-Sail Power Company Ltd.	New delhi	Central Sector (JV)
32	NTPC-Tamil Nadu Energy Company Ltd.	Chennai	Central Sector (JV)
33	Nuclear Power Corporation of India Ltd.	Mumbai	Central
34	Odisha Hydro Power Corpn. Ltd.	Bhubaneswar	Odisha
35	Odisha Power Generation Corpn. Ltd.	Bhubaneswar	Odisha
36	ONGC Tripura Power Company Ltd	New Delhi	Central Sector (JV)
37	Pench Hydel Power Station	Totladoh	M.P. & Maharashtra
38	Pragati Power Corporation Ltd.	Delhi	Delhi
39	Puducherry Power Corporation Ltd.	Puducherry	Puducherry
40	Raichur power Corporation Limited	Bengaluru	State(JV)

Table 2.1(Contd.)
COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY
FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION
31.03.2019

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

Table 2.1(Contd.)

**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY
FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION
31.03.2019**

Sl. No.	Name	Head Quarter	Ownership by Govt.
25	Madhya Gujarat Vij Co. Ltd.	Vadodara	Gujarat
26	Madhyanchal Vidyut Vitran Nigam Ltd.	Lucknow	Uttar Pradesh
27	Maharashtra State Electricity Distribution Co. Ltd.	Mumbai	Maharashtra
28	Mangalore Electricity Supply Co. Ltd.	Mangalore	Karnataka
29	Manipur State Power Distribution Company Ltd.	Imphal	Manipur
30	Meghalaya Power Distribution Corporation Ltd.	Shillong	Meghalaya
31	Military Engineering Services	Delhi	Delhi
32	Military Engineering Services	Ranchi	Jharkhand
33	New Delhi Municipal Council	New Delhi	Delhi
34	North Bihar Power Distribution Co. Ltd.	Patna	Bihar
35	Northern Power Distribution Corpn. of Telangana Ltd.	Hyderabad	Telangana
36	Paschim Gujarat Vij Co. Ltd.	Rajkot	Gujarat
37	Paschimanchal Vidyut Vitran Nigam Ltd.	Meerut	Uttar Pradesh
38	Purvanchal Vidyut Vitran Nigam Ltd.	Varanasi	Uttar Pradesh
39	Rubber Park India Pvt. Ltd.	Ernakulam	Kerala
40	South Bihar Power Distribution Co. Ltd.	Patna	Bihar
41	Southern Power Distribution Co. of A.P. Ltd.	Tirupati	Andhra Pradesh
42	Southern Power Distribution co. of Telangana Ltd.	Hyderabad	Telangana
43	TechnoPark	Trivandrum	Kerala
44	Thrissur Corporation	Thrissur	Kerala
45	Uttar Gujarat Vij Company Ltd.	Mehsana	Gujarat
46	Uttar Haryana Bijli Vitran Nigam Ltd.	Panchkula	Haryana
47	Uttarakhand Power Corporation Ltd.	Dehradun	Uttarakhand
48	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	Karnataka Power Transmission Corp. Ltd.	Bengaluru	Karnataka
9	M.P. Power Transmission Corp. Ltd.	Jabalpur	Madhya Pradesh
10	Maharashtra State Electricity Transmission Co. Ltd.	Mumbai	Maharashtra
11	Meghalaya Power Transmission Corporation Ltd.	Shillong	Meghalaya
12	Odisha Power Transmission Corporation Ltd.	Bhubneshwar	Odisha
13	Power Grid Corporation of India Ltd.	Gurugram	Central
14	Power Transmission Corporation of Uttarakhand Ltd.	Dehradun	Uttarakhand
15	Punjab Power Transmission Corporation Ltd	Patiala	Punjab
16	Rajasthan Rajya Vidyut Prasaran Nigam Ltd.	Jaipur	Rajasthan

Table 2.1(Contd.)
COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER
CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY
FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION
31.03.2019

Sl. No.	Name	Head Quarter	Ownership by Govt.
17	Tamil Nadu Transmission Corpn. Ltd.	Chennai	Tamil Nadu
18	Transmission Corp. of Andhra Pradesh Ltd.	Vijaywada	Andhra Pradesh
19	Transmission Corpn. Of Telangana Ltd.	Hyderabad	Telangana
20	Uttar Pradesh Power Transmission Corporation Ltd (UPPTCL)	Lucknow	Uttar Pradesh
21	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	Jharkhand Urja Vikas Nigam Ltd.	Ranchi	Jharkhand
5	Maharashtra SEB Holding Co. Ltd.	Mumbai	Maharashtra
6	Meghalaya Energy Corporation Ltd.	Shillong	Meghalaya
(E) Generation + Distribution Undertakings			
1	Punjab State Power Corporation Ltd	Patiala	Punjab
2	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
(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) Transmission and Distribution Undertakings			
1	J & K State Power Development Corporation Ltd.	Srinagar / Jammu	J & K Govt.
(K) State/ UT Electricity Departments			
(i) STATE ELECTRICITY DEPARTMENTS			
1	Arunachal Pradesh	Itanagar	State
2	Jammu & Kashmir	Srinagar/Jammu	State
3	Goa	Panaji	State
4	Mizoram	Aizawal	State
5	Nagaland	Kohima	State
6	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	Lakshadweep	Kavaratti	Electricity Deptt.
5	Puducherry	Puducherry	Electricity Deptt.

Table 2.2
CLASSIFICATION OF COMPANIES IN PRIVATE SECTOR
EXISTING IN THE COUNTRY
AS ON 31.03.2019

Sl. No.	Name of the State	No. of Companies & Co-operatives			Total
		Generation	Generation* & Distribution	Distribution\$	
(A) NORTHERN REGION					
1	Haryana	1	0	0	1
2	Himachal Pradesh	6	0	0	6
3	Punjab	3	0	0	3
4	Delhi	0	1	2	3
5	Rajasthan	2	0	0	2
6	Uttar Pradesh	5	0	1	6
7	Uttarakhand	4	0	0	4
(B) WESTERN REGION					
1	Chhattisgarh	15	0	1	16
2	Goa	1	1	0	2
3	Gujarat	6	1	5	12
4	Madhya pradesh	6	0	0	6
5	Maharashtra	16	2	5	23
(C) SOUTHERN REGION					
1	Andhra Pradesh	15	0	3	18
2	Telangana	0	0	1	1
3	Karnataka	4	1	1	6
4	Kerala	1	0	2	3
5	Tamil Nadu	10	0	0	10
(D) EASTERN REGION					
1	Jharkhand	3	0	2	5
2	Orissa	4	0	4	8
3	West Bengal	2	2	0	4
4	A.& N. Islands	1	0	0	1
5	Sikkim	3	0	0	3
(E) NORTH EASTERN REGION					
1	Assam	1	0	0	1
ALL INDIA		109	8	27	144

* 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 31.03.2019
(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	GVK Power (Goindwal Sahib) Ltd.	Punjab
9	Nabha Power Ltd.	Punjab
10	Talwandi Sabo Power Ltd.	Punjab
11	Adani Power Rajasthan Ltd.	Rajasthan
12	Rajwest Power Ltd.	Rajasthan
13	Bajaj Energy Pvt. Ltd.	Uttar Pradesh
14	Lalitpur Power Generation Co. Ltd.	Uttar Pradesh
15	Lanco Anpara Power Ltd.	Uttar Pradesh
16	Prayagraj Power Generation Co. Ltd.	Uttar Pradesh
17	Rosa Power Supply Co. Ltd.	Uttar Pradesh
18	Alaknanda Hydro Power Co. Ltd.	Uttarakhand
19	Gama Infraprop Pvt. Ltd.	Uttarakhand
20	Jai Prakash Power Venture Ltd.	Uttarakhand
21	Sravanthi Energy Pvt. Ltd.	Uttarakhand
22	ACB(India) Ltd.	Chhattisgarh
23	Bharat Aluminium Co. Ltd.	Chhattisgarh
24	DB Power Ltd.	Chhattisgarh
25	GMR Chhattisgarh Energy Ltd.	Chhattisgarh
26	Jindal Power Ltd.	Chhattisgarh
27	Korba West Power Co. Ltd.	Chhattisgarh
28	KSK Mahanadi Power Co. Ltd.	Chhattisgarh
29	Lanco Amarkantak Power Ltd.	Chhattisgarh
30	Maruti Clean Coal & Power Ltd.	Chhattisgarh
31	RKM Powergen Pvt. Ltd.	Chhattisgarh
32	Spectrum Coal & Power Ltd.	Chhattisgarh
33	SV Power Pvt. Ltd.	Chhattisgarh
34	TRN Energy Pvt. Ltd.	Chhattisgarh
35	Vandana Energy & Steel Pvt. Ltd.	Chhattisgarh
36	Vandana Vidyut Ltd.	Chhattisgarh

Table 2.3
Details of Companies in Private Sector and Co-operatives as on 31.03.2019
(Utilities)

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

Table 2.3
Details of Companies in Private Sector and Co-operatives as on 31.03.2019
(Utilities)

Sl. No.	Name of Company	Name of State
74	LVS Power Ltd.	Andhra Pradesh
75	Meenakshi Energy Pvt. Ltd.	Andhra Pradesh
76	Reliance Infrastructure Ltd.	Andhra Pradesh
77	Sembcorp Energy India Ltd.	Andhra Pradesh
78	Sembcorp Gayatri Power Ltd.	Andhra Pradesh
79	Simhapuri Energy Ltd.	Andhra Pradesh
80	Spectrum Power Generation Ltd.	Andhra Pradesh
81	JSW Energy Ltd.	Karnataka
82	Sree Rayalseema Alkalies and Allied Chemical Ltd.	Karnataka
83	Tata Power Company Ltd.	Karnataka
84	Udupi Power Corporation Ltd.	Karnataka
85	BSES Kerala Power Ltd.	Kerala
86	ARKAY Energy Limited	Tamil Nadu
87	Costal Energen Pvt. Ltd.	Tamil Nadu
88	IL&FS Tamil Nadu Power Company Ltd.	Tamil Nadu
89	India Barath Power Infra Ltd.	Tamil Nadu
90	Lanco Tanjore Power Co. Ltd.	Tamil Nadu
91	Madurai Power Corpn. Pvt. Ltd.	Tamil Nadu
92	Penna Power Ltd.	Tamil Nadu
93	PPN Power Generating Company Pvt. Ltd.	Tamil Nadu
94	Samalpatti Power Company Pvt. Ltd.	Tamil Nadu
95	ST-CMS Electric Company Pvt. Ltd.	Tamil Nadu
96	Adhunik Power & Natural Resources Ltd.	Jharkhand
97	Maithon Power Ltd.	Jharkhand
98	Tata Power Company Ltd.	Jharkhand
99	GMR Energy Ltd.	Odisha
100	India Barath Power Infra Ltd.	Odisha
101	Jindal India Thermal Power Ltd.	Odisha
102	Sterlite Energy Ltd.	Odisha
103	Suryachakra Power Company Ltd.	A&N Islands
104	DLF Power Supply Company Ltd.	Assam
105	Dans Energy Pvt. Ltd.	Sikkim
106	Gati Infrastructure Ltd.	Sikkim
107	Sneha Kinetic Projects Ltd.	Sikkim
108	Haldia Energy Ltd.	West Bengal
109	Hiranmaye Energy Limited	West Bengal

Table 2.3
Details of Companies in Private Sector and Co-operatives as on 31.03.2019
(Utilities)

Sl. No.	Name of Company	Name of State
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	Gigaplex Estate Pvt Ltd (SEZ-IT & ITES at Airoli)	Maharashtra
6	Maharashtra Airport Development Corporation (MIHAN Nagpur)	Maharashtra
7	Mindspace Business Parks Pvt Ltd. (SEZ-IT Park Airoli)	Maharashtra
8	Nidar Utilities Panvel LLP	Maharashtra
9	Quadron Business Park Ltd (SEZ IT Park Hinjewadi, Pune)	Maharashtra
10	Aspen Infrastructure Ltd. (Synefra), SEZ, Vadodara	Gujarat
11	Gift Power Co ltd, Gandhinagar	Gujarat
12	Jubilant Infrastructure Ltd., Industrial Estate, Bharuch	Gujarat
13	Mundra Port SEZ Utilities Pvt Ltd. (MUPL)	Gujarat
14	Torrent Energy Limited –SEZ -Dahej	Gujarat
15	Anakapalle Rural Electric Cooperative Society Ltd.	Andhra Pradesh
16	Cheepurupalli Rural Electric Cooperative Society Ltd.	Andhra Pradesh
17	Kuppam Rural Electric Cooperative Society Ltd.	Andhra Pradesh
18	Cooperative Electric Supply Society Ltd Sircilla	Telangana
19	Hukkeri Rural Electric Cooperative Society Ltd.	Karnataka
20	Kanan Devan Hills Plantations Company (P) Ltd.	Kerala
21	KINESCO Power Utility Ltd, Kochi	Kerala
22	Jamshedpur Utility & Services Company Ltd.	Jharkhand
23	Tata Steel Limited	Jharkhand
24	Central Electricity Supply Utility of Odisha	Odisha
25	North Eastern Electricity Supply company of Odisha Limited	Odisha
26	Southern Electricity supply company of Odisha Limited	Odisha
27	Western Electricity supply company of Odisha Limited	Odisha
C. Generation (Conventional) & Distribution		
1	Tata Power Delhi Distribution Ltd.	Delhi
2	Torrent Power Company 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	Calcutta Electric Supply Corp. Ltd.	West Bengal
8	India Power Corporation Ltd.	West Bengal

Table 2.4
CLASSIFICATION OF MUNICIPAL UNDERTAKINGS
31.03.2019

Sl. No.	Name of 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 31.03.2019

Sl. No.	Name of the Trading Licensee	Date of Issue	Present Category of License
1	Adani Enterprises Ltd.	09.06.2004	I
2	Global Energy (P) Ltd.	28.11.2008	I
3	GMR Energy Trading Ltd	14.10.2008	I
4	IL&FS Energy Dev.Corp. Ltd.	04.09.2014	I
5	Jai Prakash Associate Ltd.	23.03.2011	I
6	JSW Power Trading Company Ltd.	25.04.2006	I
7	Knowledge Infrastructure Systems (P) Ltd	18.12.2008	I
8	National Energy Trading & Services Ltd.	23.07.2004	I
9	NTPC Vidyut Vyapar Nigam Ltd.	23.07.2004	I
10	PTC India Ltd.	30.06.2004	I
11	Shree Cement Ltd	16.03.2010	I
12	Tata Power Trading Co. Ltd.	09.06.2004	I
13	Statkraft Market (P) Ltd.Jay Polychem (India) Ltd.	21.06.2012	I
14	NHPC Limited	23.04.2018	I
15	NLC India Ltd.	13.07.2018	I
16	Refex Energy Ltd.	30.08.2018	I
17	Solar Energy Corporation of India	01.04.2014	I
18	Manikaran Power Limited, Kolkata	29.06.2012	I
19	Arunachal Pradesh Power Corporation Private Limited, Itanagar.	11.09.2012	II
20	Essar Electric Power Development Corporation Ltd.	14.12.2005	II
21	Kreate Energy (I) Pvt. Ltd.	12.02.2019	II
22	RPG Power Trading Company Ltd	23.09.2008	II
23	Amplus Energy Solutions (P) Ltd	17.04.2017	II
24	Jindal Poly Films Limited	20.09.2017	III
25	Gita Power & Infrastructure(P) Ltd.	20.10.2015	III
26	Greenko Energies (P)Ltd.	22.01.2008	III
27	Instinct Infra & Power Ltd.	07.09.2005	III
28	IPCL Power Trading (P) Ltd.	10.02.2015	III
29	Shyam Indus Power Solutions (P) Ltd	11.11.2008	III
30	ABJA Power Pvt. Ltd	26.04.2011	III
31	Customised Energy Solutions India Pvt. Ltd.	08.06.2011	III
32	Ambitious Power Trading Company Ltd.	16.09.2008	IV
33	Parshavnath Power Projects(P) Ltd.	19.05.2014	IV
34	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
35	Renew Solar Services Pvt. Ltd.	27.01.2017	IV
36	Ved Prakash Power Private Limited	19.08.2013	IV
37	Atria Energy Services (P) Ltd	20.06.2017	IV

Trading Limit for Category of License

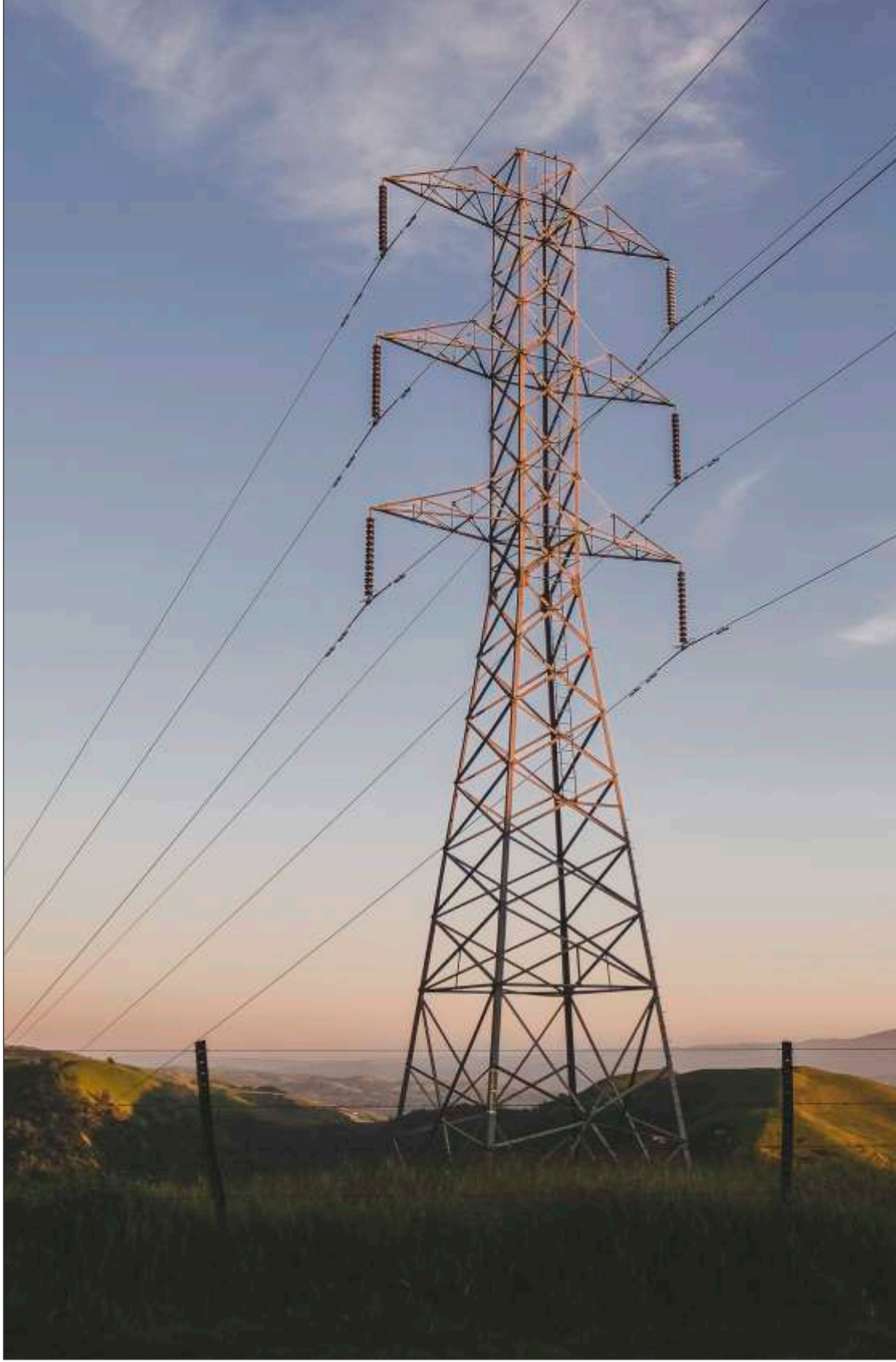
Category I : No limit
Category II : Up to 1500 MU
Category III : Up to 500 MU
Category IV : Up to 100 MU

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 1MW and above) increased to 431307 MW as on 31.03.2019 as compared to 398935 MW as on 31.03.2018. The net addition in generating capacity amounted to 32372 MW (Hydro-158 MW, Thermal-22254 MW & Renewable Energy Sources-9960 MW). The increase in All India Installed Capacity including captive power plant capacity over the last year was 8.11%. The total installed capacity comprises 278459 MW from conventional sources (Utilities), 77642 MW from Renewable Energy Sources and 75207 MW from Industrial Captive power plants.

UTILITIES

Installed capacity (Utilities) in the country increased to 356100 MW as on 31.03.2019 as compared to 344002 MW as on 31.03.2018 thereby registering an increase of 3.52% over the previous year. The total net addition in generating capacity amounted to 12098 MW which includes 3479 MW from conventional sources viz Hydro, Thermal & Nuclear and 8619 MW from Renewable Energy Sources. 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 12.75%, 63.54%, 1.90% and 21.80% respectively as on 31.03.2019.

NON-UTILITIES (CAPTIVE POWER PLANTS)

The installed capacity (Non-Utilities) in respect of Industries having demand of 1 MW and above in the country increased to 75207 MW as on 31.03.2019 as compared to 54933 MW as on 31.03.2018 thereby registering an increase of 36.91% 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 0.14%, 63.40%, 20.70%, 11.68% & 4.08% respectively.

The various tables in the chapter from 3.1 to 3.10 gives the salient features of the Installed Capacity in the country as on 31st March, 2019.

GROWTH OF INSTALLED CAPACITY UTILITIES 2016-17 to 2018-19



Table 3.1
ALL INDIA INSTALLED CAPACITY MODE-WISE
UTILITIES AND NON-UTILITIES
As on 31.03.2019

(MW)

Sl. No.	Year	Installed Capacity									
		Hydro	Thermal			Gas	Total (Thermal) (4+5+6)		Nuclear	R E S	Total (3+7+8+9)
			Steam	Diesel	5		6	7			
1	2	3	4	5	6	7	8	9	10		
(I) Installed Capacity: Utilities											
	31.03.2018	45293.42	197171.50	837.63	24897.46	222906.59	6780.00	69022.39	344002.39		
	31.03.2019	45399.22	200704.50	637.63	24937.22	226279.34	6780.00	77641.63	356100.19		
	% Increase	0.23	1.79	-23.88	0.16	1.51	0.00	12.49	3.52		
(ii) Installed Capacity : Non-Utilities (Industries having demand of 1 MW & above)											
	31.03.2018	50.96	32854.41	13144.60	7156.37	53155.38	0.00	1726.17	54932.51		
	31.03.2019	103.39	47679.04	15570.97	8787.13	72037.14	0.00	3066.59	75207.13		
	% Increase	102.88	45.12	18.46	22.79	35.52	0.00	77.65	36.91		
(iii) Installed Capacity : Total (i-ii)											
	31.03.2018	45344.38	230025.91	13982.23	32053.83	276061.97	6780.00	70748.56	398934.91		
	31.03.2019	45502.61	248383.54	16208.60	33724.35	298316.49	6780.00	80708.22	431307.31		
	% Increase	0.35	7.98	15.92	5.21	8.06	0.00	14.08	8.11		

INSTALLED CAPACITY MODEWISE UTILITIES As on 31.03.2019

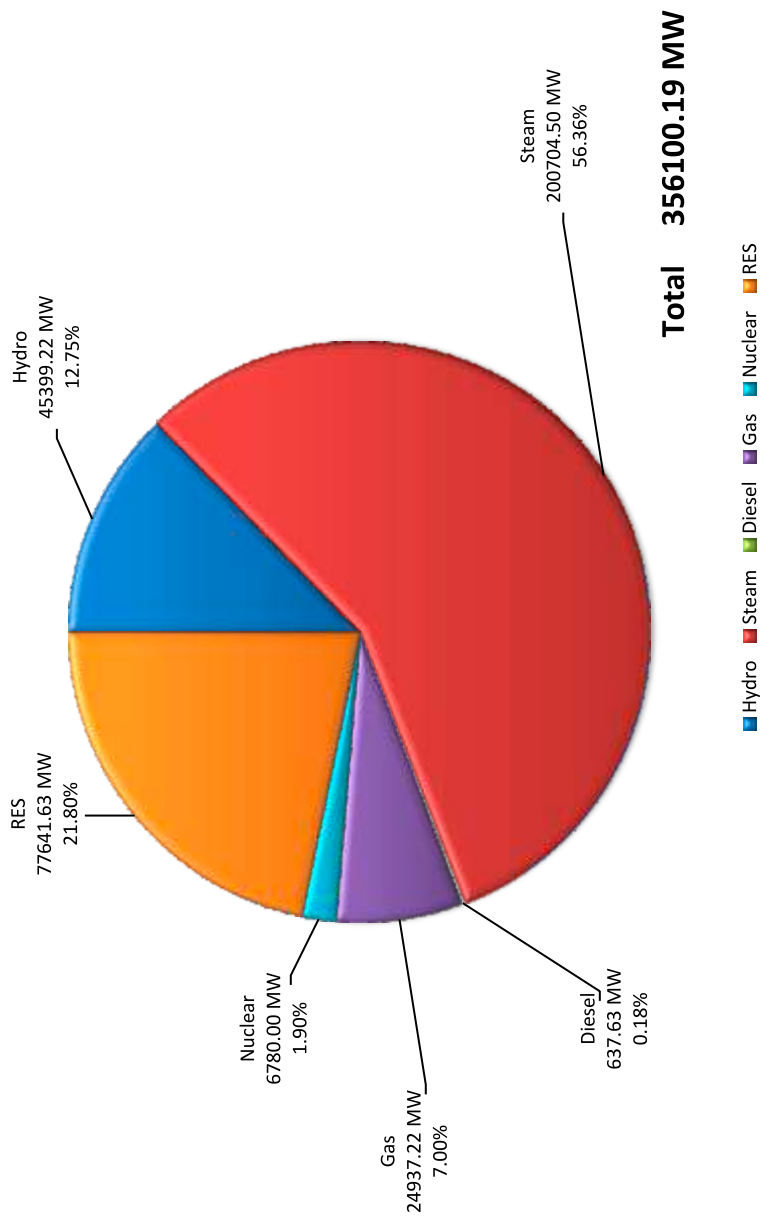


Table 3.2
ALL INDIA INSTALLED CAPACITY OWNERSHIP-WISE AND MODE-WISE
UTILITIES
As on 31.03.2019

Sl. No.	Sector	Installed Capacity								(MW)
		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	
1	Public Sector									
1.1	Elect. Dept./Govt./ Corpsns./Joint Ventures	29878.80	65366.50	363.93	7118.71	72849.13	0.00	2347.93	105075.86	
1.2	Central Sector	12126.42	58820.00	0.00	7237.91	66057.91	6780.00	1632.30	86596.63	
	Sub-total Public Sector	42005.22	124186.50	363.93	14356.62	138907.04	6780.00	3980.23	191672.49	
2	Private Sector									
2.1	Private Companies	3394.00	76518.00	273.70	10580.60	87372.30	0.00	73661.40	164427.70	
	Sub total Private Sector	3394.00	76518.00	273.70	10580.60	87372.30	0.00	73661.40	164427.70	
	Total All India	45399.22	200704.50	637.63	24937.22	226279.34	6780.00	77641.63	356100.19	

Note:DVC installed capacity is considered under central sector

INSTALLED CAPACITY SECTORWISE UTILITIES

As on 31.03.2019

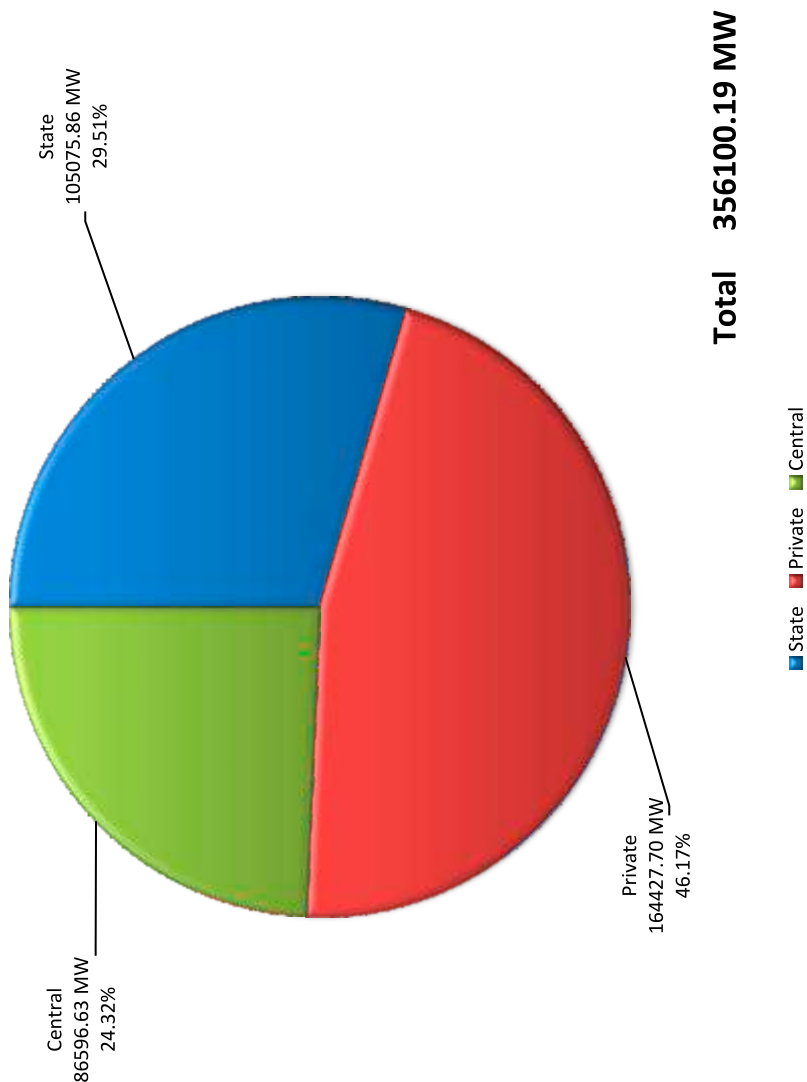


Table 3.3
ALL INDIA INSTALLED CAPACITY STATE-WISE
UTILITIES
31.03.2019

(MW)

State/UT	31.03.2018	31.03.2019	% INCREASE
Chandigarh	25.20	34.71	37.74
Delhi	2611.97	2669.29	2.19
Haryana	6525.26	6551.24	0.40
Himachal Pradesh	3332.44	3361.89	0.88
Jammu & Kashmir	1585.39	1598.86	0.85
Punjab	11636.65	10804.12	-7.15
Rajasthan	17217.40	18731.64	8.79
Uttar Pradesh	16239.11	16410.80	1.06
Uttarakhand	3078.55	3125.22	1.52
Central Sector (NR)	24814.28	24159.28	-2.64
Sub-Total (NR)	87066.25	87447.05	0.44
Chhattisgarh	16743.35	17103.35	2.15
Gujarat	27458.84	28798.32	4.88
Madhya Pradesh	15253.46	17718.02	16.16
Maharashtra	36073.72	36810.37	2.04
Daman & Diu	10.61	14.47	36.38
D. & N. Haveli	5.46	5.46	0.00
Goa	48.96	51.97	6.15
Central Sector (WR)	21921.97	23386.97	6.68
Sub-Total (WR)	117516.37	123888.93	5.42
Andhra Pradesh	20866.35	21999.13	5.43
Telangana	11972.28	12711.36	6.17
Karnataka	23271.77	24649.51	5.92
Kerala	2544.92	2553.57	0.34
Tamil Nadu	21895.59	23102.06	5.51
Puducherry	32.66	35.64	9.12
Lakshadweep	0.75	0.75	0.00
Central Sector (SR)	16661.48	16611.48	-0.30
Sub-Total (SR)	97245.80	101663.50	4.54
Bihar	1036.15	326.15	-68.52
Jharkhand	2409.72	2419.00	0.39
Odisha	6466.52	6781.68	4.87
West Bengal	9066.82	8997.45	-0.77
Sikkim	811.11	811.12	0.00
A. & N. Islands	46.76	51.93	11.06
Central Sector (ER)	18440.30	19400.30	5.21
Sub-Total (ER)	38277.37	38787.62	1.33
Arunachal Pradesh	110.00	136.50	24.09
Assam	459.51	484.22	5.38
Manipur	41.51	44.89	8.14
Meghalaya	353.05	354.65	0.45
Mizoram	36.67	36.97	0.82
Nagaland	31.67	31.67	0.00
Tripura	185.60	185.60	0.00
Central Sector (NER)	2678.60	3038.60	13.44
Sub-Total (NER)	3896.61	4313.09	10.69
Central Sector All India	84516.63	86596.63	2.46
Total All India	344002.39	356100.19	3.52

Note: (1) (-ve) figures in the states & region sub total are mainly due to retirements.

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

(3) DVC installed capacity is considered under central sector

Table 3.4
ALL INDIA GROSS INSTALLED CAPACITY MODEWISE/REGIONWISE/STATEWISE
UTILITIES
As on 31.03.2019

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	34.71	34.71
Delhi	0.00	582.00	0.00	1908.40	2490.40	0.00	178.89	2669.29
Haryana	1102.82	4884.00	0.00	150.00	5034.00	0.00	414.42	6551.24
Himachal Pradesh	2478.60	0.00	0.00	0.00	0.00	0.00	883.29	3361.89
Jammu & Kashmir	1230.00	0.00	0.00	175.00	175.00	0.00	193.86	1598.86
Punjab	2597.70	6774.00	0.00	150.00	6924.00	0.00	1282.42	10804.12
Rajasthan	1096.18	9706.00	0.00	603.80	10309.80	0.00	7325.66	18731.64
Uttar Pradesh	724.10	12774.00	0.00	0.00	12774.00	0.00	2912.70	16410.80
Uttarakhand	1982.15	99.00	0.00	450.00	549.00	0.00	594.07	3125.22
Central Sector (NR)	8596.22	11220.00	0.00	2344.06	13564.06	1620.00	379.00	24159.28
Sub-Total (NR)	19807.77	46039.00	0.00	5781.26	51820.26	1620.00	14199.02	87447.05
Chhattisgarh	120.00	16448.00	0.00	0.00	16448.00	0.00	535.35	17103.35
Gujarat	772.00	13392.00	0.00	6237.82	19629.82	0.00	8396.50	28798.32
Madhya Pradesh	1703.66	11750.00	0.00	0.00	11750.00	0.00	4264.36	17718.02
Maharashtra	3331.84	23046.00	0.00	1240.00	24286.00	0.00	9192.53	36810.37
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	14.47	14.47
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	3.97	51.97
Central Sector (WR)	1520.00	16080.00	0.00	3280.67	19360.67	1840.00	666.30	23386.97
Sub-Total (WR)	7447.50	80716.00	0.00	10806.49	91522.49	1840.00	23078.94	123888.93
Andhra Pradesh	1673.60	8750.55	36.80	4048.58	12835.93	0.00	7489.60	21999.13
Telangana	2479.93	5421.95	0.00	831.82	6253.77	0.00	3977.66	12711.36
Karnataka	3586.60	7080.00	153.12	0.00	7233.12	0.00	13829.79	24649.51
Kerala	1856.50	0.00	159.96	174.00	333.96	0.00	363.11	2553.57
Tamil Nadu	2178.20	7270.00	211.70	1027.18	8508.88	0.00	12414.98	23102.06
Puducherry	0.00	0.00	0.00	32.50	32.50	0.00	3.14	35.64
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.75
Central Sector (SR)	0.00	12390.00	0.00	359.58	12749.58	3320.00	541.90	16611.48
Sub-Total (SR)	11774.83	40912.50	561.58	6473.66	47947.74	3320.00	38620.93	101663.50
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	326.15	326.15
Jharkhand	130.00	2250.00	0.00	0.00	2250.00	0.00	39.00	2419.00
Odisha	2061.92	4220.00	0.00	0.00	4220.00	0.00	499.76	6781.68
West Bengal	986.00	7437.00	0.00	100.00	7537.00	0.00	474.45	8997.45
Sikkim	759.00	0.00	0.00	0.00	0.00	0.00	52.12	811.12
A. & N. Islands	0.00	0.00	40.05	0.00	40.05	0.00	11.88	51.93
Central Sector (ER)	1005.20	18380.00	0.00	0.00	18380.00	0.00	15.10	19400.30
Sub-Total (ER)	4942.12	32287.00	40.05	100.00	32427.048	0.00	1418.46	38787.62
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	136.50	136.50
Assam	100.00	0.00	0.00	352.71	352.71	0.00	31.51	484.22
Manipur	0.00	0.00	36.00	0.00	36.00	0.00	8.89	44.89
Meghalaya	322.00	0.00	0.00	0.00	0.00	0.00	32.65	354.65
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	36.97	36.97
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	31.67	31.67
Tripura	0.00	0.00	0.00	169.50	169.50	0.00	16.10	185.60
Central Sector (NER)	1005.00	750.00	0.00	1253.60	2003.60	0.00	30.00	3038.60
Sub-Total (NER)	1427.00	750.00	36.00	1775.81	2561.81	0.00	324.29	4313.09
Central Sector All India	12126.42	58820.00	0.00	7237.91	66057.91	6780.00	1632.30	86596.63
Total All India	45399.22	200704.50	637.63	24937.22	226279.34	6780.00	77641.63	356100.19

Note: DVC installed capacity is 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 31.03.2019

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	135.00	0.00	1800.40	1935.40	0.00	0.00	1935.40
Haryana	1102.82	2720.00	0.00	150.00	2870.00	0.00	69.30	4042.12
Himachal Pradesh	694.60	0.00	0.00	0.00	0.00	0.00	256.61	951.21
Jammu & Kashmir	1230.00	0.00	0.00	175.00	175.00	0.00	129.03	1534.03
Punjab	2597.70	1760.00	0.00	150.00	1910.00	0.00	127.80	4635.50
Rajasthan	1096.18	6510.00	0.00	603.80	7113.80	0.00	23.85	8233.83
Uttar Pradesh	724.1	5469.00	0.00	0.00	5469.00	0.00	25.10	6218.20
Uttarakhand	1252.15	0.00	0.00	0.00	0.00	0.00	67.87	1320.02
Central Sector (NR)	8596.22	11220.00	0.00	2344.06	13564.06	1620.00	379.00	24159.28
Sub Total (NR)	17293.77	27814.00	0.00	5223.26	33037.26	1620.00	1078.56	53029.59
Chhattisgarh	120.00	3280.00	0.00	0.00	3280.00	0.00	11.05	3411.05
Gujarat	772.00	4750.00	0.00	2177.82	6927.82	0.00	64.70	7764.52
Madhya Pradesh	1703.66	5400.00	0.00	0.00	5400.00	0.00	83.96	7187.62
Maharashtra	2850.84	10170.00	0.00	672.00	10842.00	0.00	388.13	14080.97
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
Central Sector (WR)	1520.00	16080.00	0.00	3280.67	19360.67	1840.00	666.30	23386.97
Sub Total (WR)	6966.50	39680.00	0.00	6130.49	45810.49	1840.00	1214.19	55831.18
Andhra Pradesh	1673.60	5010.00	0.00	235.40	5245.40	0.00	56.18	6975.18
Telangana	2479.93	4582.50	0.00	0.00	4582.50	0.00	41.22	7103.65
Karnataka	3586.60	5020.00	127.92	0.00	5147.92	0.00	193.89	8928.41
Kerala	1856.50	0.00	159.96	0.00	159.96	0.00	172.90	2189.36
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	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector (SR)	0.00	12390.00	0.00	359.58	12749.58	3320.00	541.90	16611.48
Sub Total (SR)	11774.83	31322.50	287.88	1151.56	32761.94	3320.00	1128.78	48985.55
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	2061.92	420.00	0.00	0.00	420.00	0.00	26.30	2508.22
West Bengal	986.00	5400.00	0.00	100.00	5500.00	0.00	121.95	6607.95
Sikkim	360.00	0.00	0.00	0.00	0.00	0.00	52.11	412.11
A. & N. Islands	0.00	0.00	40.05	0.00	40.05	0.00	5.25	45.30
Central Sector (ER)	1005.20	18380.00	0.00	0.00	18380.00	0.00	15.10	19400.30
Sub Total (ER)	4543.12	24620.00	40.05	100.00	24760.05	0.00	295.46	29598.63
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	107.11	107.11
Assam	100.00	0.00	0.00	328.21	328.21	0.00	5.01	433.22
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	36.47	36.47
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	30.67	30.67
Tripura	0.00	0.00	0.00	169.50	169.50	0.00	16.01	185.51
Central Sector (NER)	1005.00	750.00	0.00	1253.60	2003.60	0.00	30.00	3038.60
Sub-Total (NER)	1427.00	750.00	36.00	1751.31	2537.31	0.00	263.25	4227.55
Total-I, (All India)	42005.22	124186.50	363.93	14356.62	138907.04	6780.00	3980.23	191672.49

Note: 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 31.03.2019**

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	34.71	34.71
Delhi	0.00	447.00	0.00	108.00	555.00	0.00	178.89	733.89
Haryana	0.00	2164.00	0.00	0.00	2164.00	0.00	345.12	2509.12
Himachal Pradesh	1784.00	0.00	0.00	0.00	0.00	0.00	626.68	2410.68
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	64.83	64.83
Punjab	0.00	5014.00	0.00	0.00	5014.00	0.00	1154.62	6168.62
Rajasthan	0.00	3196.00	0.00	0.00	3196.00	0.00	7301.81	10497.81
Uttar Pradesh	0.00	7305.00	0.00	0.00	7305.00	0.00	2887.60	10192.60
Uttarakhand	730.00	99.00	0.00	450.00	549.00	0.00	526.20	1805.20
Chhattisgarh	0.00	13168.00	0.00	0.00	13168.00	0.00	524.30	13692.30
Gujarat	0.00	8642.00	0.00	4060.00	12702.00	0.00	8331.80	21033.80
Madhya Pradesh	0.00	6350.00	0.00	0.00	6350.00	0.00	4180.40	10530.40
Maharashtra	481.00	12876.00	0.00	568.00	13444.00	0.00	8804.41	22729.41
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	14.47	14.47
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	3.92	51.92
Andhra Pradesh	0.00	3740.55	36.80	3813.18	7590.53	0.00	7433.42	15023.95
Telangana	0.00	839.45	0.00	831.82	1671.27	0.00	3936.44	5607.71
Karnataka	0.00	2060.00	25.20	0.00	2085.20	0.00	13635.905	15721.11
Kerala	0.00	0.00	0.00	174.00	174.00	0.00	190.21	364.21
TamilNadu	0.00	2950.00	211.70	503.10	3664.80	0.00	12292.28	15957.08
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	3.14	3.14
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.75
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	255.45	255.45
Jharkhand	0.00	1830.00	0.00	0.00	1830.00	0.00	34.95	1864.95
Odisha	0.00	3800.00	0.00	0.00	3800.00	0.00	473.46	4273.46
West Bengal	0.00	2037.00	0.00	0.00	2037.00	0.00	352.5	2389.50
Sikkim	399.00	0.00	0.00	0.00	0.00	0.00	0.01	399.01
A. & N. Islands	0.00	0.00	0.00	0.00	0.00	0.00	6.63	6.63
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	29.39	29.39
Assam	0.00	0.00	0.00	24.50	24.50	0.00	26.50	51.00
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	3.44	3.44
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
Tripura	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
Total-II, (All India)	3394.00	76518.00	273.70	10580.60	87372.30	0.00	73661.40	164427.70
All India Total (I+II)	45399.22	200704.50	637.63	24937.22	226279.34	6780.00	77641.63	356100.19

Table 3.6
ALL INDIA INSTALLED CAPACITY ADDITION
UTILITIES
DURING 2018-19

Sl. No.	State/UT	Owner	Name of project	Dt. of Commissioning	No. of units	Unit Size (MW)	Total Capacity (MW)
A	Hydro Telangana Arunachal Pradesh	TSGENCO NEEPCO.	PULICHINTALA HPS PARE	08/09/18	1	30.00	30.00
				21/05/18	2	55.00	110.00
				28/05/18		55.00	140.00
B	Steam Rajasthan Chhattisgarh Madhya Pradesh Maharashtra Telangana Bihar West Bengal Assam	RRVUNL RKM POWERGEN PVT. LIMITED MPPGCL ESSAR POWER MP LTD. NTPC LIMITED TELANGANA STATE GENCO BRBCL DPSCL NTPC	CHHABRA TPP UCHPINDA TPP SHREE SINGAJI TPP MAHAN TPP GADARWARA TPP SOLAPUR STPS KOTHAGUDEM TPS (STAGE-7) NABI NAGAR TPP DISHERGARH TPP BONGAIGAON TPP	29/03/19	1	660.00	660.00
				20/03/19	1	360.00	360.00
				18/11/18	2	660.00	1320.00
				27/03/19		660.00	660.00
				07/10/18	1	600.00	600.00
				29/03/19	1	800.00	800.00
				30/03/19	1	660.00	660.00
				26/12/18	1	800.00	800.00
				26/02/19	1	250.00	250.00
				27/03/19	1	12.00	12.00
				26/03/19	1	250.00	250.00
							5712.00
C	Gas Assam	APGCL	NAMRUP CCPP	26/04/18	7	9.97	69.76
				26/04/18		9.97	9.97
				26/04/18		9.97	9.97
				26/04/18		9.97	9.97
				26/04/18		9.97	9.97
				26/04/18		9.97	9.97
Gas Total						69.76	
Grand Total (A+B+C)						5921.76	

Table 3.7
ALL INDIA INSTALLED CAPACITY ADDITION
MODE-WISE/STATE-WISE/ REGION-WISE
2018-19

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total (2+6+7+8)
		Steam	Diesel	Gas	Total (Thermal) (3+4+5)			
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	9.51	9.51
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	57.32	57.32
Haryana	0.00	0.00	0.00	0.00	0.00	0.00	7.67	7.67
Himachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	29.45	29.45
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	13.47	13.47
Punjab	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rajasthan	0.00	660.00	0.00	0.00	660.00	0.00	846.02	1506.02
Uttar Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	265.69	265.69
Uttarakhand	0.00	0.00	0.00	0.00	0.00	0.00	46.67	46.67
Central Sector (NR)	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00
Sub Total (NR)	0.00	660.00	0.00	0.00	660.00	0.00	1325.80	1985.80
Chhattisgarh	0.00	360.00	0.00	0.00	360.00	0.00	0.00	360.00
Gujarat	0.00	0.00	0.00	0.00	0.00	0.00	1339.48	1339.48
Madhya Pradesh	0.00	1920.00	0.00	0.00	1920.00	0.00	544.56	2464.56
Maharashtra	0.00	0.00	0.00	0.00	0.00	0.00	736.66	736.66
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	3.86	3.86
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	3.01	3.01
Central Sector (WR)	0.00	1460.00	0.00	0.00	1460.00	0.00	5.00	1465.00
Sub Total (WR)	0.00	3740.00	0.00	0.00	3740.00	0.00	2632.57	6372.57
Andhra Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	1013.72	1013.72
Telangana	30.00	800.00	0.00	0.00	800.00	0.00	328.14	1158.14
Karnataka	0.00	0.00	0.00	0.00	0.00	0.00	1390.94	1390.94
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	33.65	33.65
Tamil Nadu	0.00	0.00	0.00	0.00	0.00	0.00	1431.47	1431.47
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	2.98	2.98
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector (SR)	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00
Sub Total (SR)	30.00	800.00	0.00	0.00	800.00	0.00	4250.90	5080.90
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	9.28	9.28
Odisha	0.00	0.00	0.00	0.00	0.00	0.00	315.16	315.16
West Bengal	0.00	12.00	0.00	0.00	12.00	0.00	38.63	50.63
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
A. & N. Islands	0.00	0.00	0.00	0.00	0.00	0.00	5.17	5.17
Central Sector (ER)	0.00	250.00	0.00	0.00	250.00	0.00	0.00	250.00
Sub Total (ER)	0.00	262.00	0.00	0.00	262.00	0.00	368.25	630.25
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	26.50	26.50
Assam	0.00	0.00	0.00	69.76	69.76	0.00	-15.05	54.71
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	3.38	3.38
Meghalaya	0.00	0.00	0.00	0.00	0.00	1.60	1.60	
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.30
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
Central Sector (NER)	110.00	250.00	0.00	0.00	250.00	0.00	25.00	385.00
Sub Total (NER)	110.00	250.00	0.00	69.76	319.76	0.00	41.73	471.49
Total (All India)	140.00	5712.00	0.00	69.76	5781.76	0.00	8619.24	14541.00

Table 3.8
DETAILS OF ALL INDIA INSTALLED CAPACITY RETIRED
STATE-WISE/MODE-WISE
2018-19

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	Delhi	NTPC	BADARPUR TPS	1	0.00	95.00	0.00	0.00	95.00	0.00	0.00	95.00
2	Delhi	NTPC	BADARPUR TPS	2	0.00	95.00	0.00	0.00	95.00	0.00	0.00	95.00
3	Delhi	NTPC	BADARPUR TPS	3	0.00	95.00	0.00	0.00	95.00	0.00	0.00	95.00
4	Delhi	NTPC	BADARPUR TPS	4	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00
5	Delhi	NTPC	BADARPUR TPS	5	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00
6	Punjab	PSPCL	GND TPS(BHATINDA)	1	0.00	110.00	0.00	0.00	110.00	0.00	0.00	110.00
7	Punjab	PSPCL	GND TPS(BHATINDA)	2	0.00	110.00	0.00	0.00	110.00	0.00	0.00	110.00
8	Punjab	PSPCL	GND TPS(BHATINDA)	3	0.00	110.00	0.00	0.00	110.00	0.00	0.00	110.00
9	Punjab	PSPCL	GND TPS(BHATINDA)	4	0.00	110.00	0.00	0.00	110.00	0.00	0.00	110.00
10	Punjab	PSPCL	ROPAR TPS	1	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00
11	Punjab	PSPCL	ROPAR TPS	2	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00
12	Uttar Pradesh	UPRVUNL	OBRA TPS	8	0.00	94.00	0.00	0.00	94.00	0.00	0.00	94.00
13	Tamil Nadu	NLC	NEYVELI TPS- I	7	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00
14	Tamil Nadu	GMR PCPL	B. BRIDGE D.G	1	0.00	0.00	50.00	0.00	50.00	0.00	0.00	50.00
15	Tamil Nadu	GMR PCPL	B. BRIDGE D.G	2	0.00	0.00	50.00	0.00	50.00	0.00	0.00	50.00
16	Tamil Nadu	GMR PCPL	B. BRIDGE D.G	2	0.00	0.00	50.00	0.00	50.00	0.00	0.00	50.00
17	Tamil Nadu	GMR PCPL	B. BRIDGE D.G	4	0.00	0.00	50.00	0.00	50.00	0.00	0.00	50.00
18	Telangana	TSGENCO	KOTHAGUDEM TPS	3	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00
19	Telangana	TSGENCO	KOTHAGUDEM TPS	6	0.00	120.00	0.00	0.00	120.00	0.00	0.00	120.00
20	Telangana	TSGENCO	KOTHAGUDEM TPS	8	0.00	120.00	0.00	0.00	120.00	0.00	0.00	120.00
21	West Bengal	WBPDCL	BANDEL TPS	3	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00
22	West Bengal	WBPDCL	BANDEL TPS	4	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00
23	Assam	APGCL	LAKWA GT	2	0.00	0.00	0.00	15.00	15.00	0.00	0.00	15.00
24	Assam	APGCL	LAKWA GT	3	0.00	0.00	0.00	15.00	15.00	0.00	0.00	15.00
	Net Deletion/Retirement				0.00	2179.00	200.00	30.00	2409.00	0.00	0.00	2409.00

Table 3.8 (contd.)
DETAILS OF ALL INDIA INSTALLED CAPACITY REMOVED DUE TO CHANGE FROM CONVENTIONAL TO RES
STATE-WISE/MODE-WISE
2018-19

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	Karnataka	KPCL	BHADRA HPS	4	7.20	0.00	0.00	0.00	0.00	0.00	0.00	7.20
2	Karnataka	KPCL	BHADRA HPS	5	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
3	Kerala	KSEB	NARIAMANGLAM HPS	4	25.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
4	Tamil Nadu	PSPCL	SHOLAYAR HPS (TN)	3	25.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
5	Assam	NEEPCO.	KOPILI HPS	5	25.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
	Net Capacity removed				88.20	0.00	0.00	0.00	0.00	0.00	0.00	88.20

* The above mentioned units of hydro power stations are already being monitored by MNRE under small hydro category

Table 3.8 (contd.)
DETAILS OF ALL INDIA INSTALLED CAPACITY REMOVED DUE TO CHANGE FROM CONVENTIONAL TO RES
STATE-WISE/MODE-WISE
2018-19

2018-19														(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	Himachal Pradesh	BBMB	BHAKRA LEFT HPS	2	18.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00		
2	Himachal Pradesh	BBMB	BHAKRA LEFT HPS	4	18.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00		
3	Himachal Pradesh	BBMB	BHAKRA LEFT HPS	5	18.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00		
Net Uprration					54.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00		

Table 3.9
ALL INDIA INSTALLED CAPACITY
NET ADDITION/DELETION MODEWISE
2018-19

Activity	Hydro	Thermal			Total (Thermal) (3+4+5)	Nuclear	R E S	Total (2+6+7+8)
		Steam	Diesel	Gas				
1	2	3	4	5	6	7	8	9
Gross Addition	140.00	5712.00	0.00	69.76	5781.76	0.00	8619.24	14541.00
Deletion/Retirement	0.00	-2179.00	-200.00	-30.00	-2409.00	0.00	0.00	-2409.00
Capacity removed due to change from Conventional to RES	-88.20	0.00	0.00	0.00	0.00	0.00	0.00	-88.20
Up-rating	54.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
De-rating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net Addition	105.80	3533.00	-200.00	39.76	3372.76	0.00	8619.24	12097.80

Table 3.10
SHARE OF PARTICIPATING STATES IN JOINTLY OWNED
POWER STATIONS
As on 31.03.2019

Name of the Power Station	Name of the Beneficiary States	Share of the Participating States		Total Capacity (MW)
		%age	I.C.(MW)	
BBMB PROJECTS				
BHAKRA NANGAL COMPLEX*	Haryana	33.91	501.97	1480.30
	Punjab	50.87	753.03	
	Rajasthan	15.22	225.30	
DEHAR HPS	Haryana	32.00	316.80	990.00
	Punjab	48.00	475.20	
	Rajasthan	20.00	198.00	
PONG HPS	Haryana	16.60	65.74	396.00
	Punjab	24.90	98.60	
	Rajasthan	58.50	231.66	
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	

*Comprises capacity of Ganguwal 77.25 MW, Kotla 77.25 MW, Bhakra Left Bank 540 MW & Bhakra Right Bank 785 MW.



CHAPTER 4

ELECTRICITY GENERATION





CHAPTER 4

ELECTRICITY GENERATION

GENERATION - UTILITIES

The All India gross electricity generation by the Utilities during the year 2018-19 was 1371779.48 GWh as compared to 1303454.68 GWh during 2017-18. The All India generation from utilities has shown a growth of 5.24%. During the year 2018-19, the generation from Hydro, Thermal, Nuclear and Non-Conventional Energy Sources has been 134893.62 GWh, 1072314.16 GWh, 37812.60 GWh and 126759.10 GWh respectively. The respective percentage of this generation with respect to gross generation from above sources has been 9.83%, 78.17%, 2.76% & 9.24%. The Gross Generation during 2018-19 in Central, State and Private Sector was 453213.36 GWh, 415501.92 GWh and 503064.19 GWh constituting 33.04%, 30.29% and 36.67% respectively.

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 1 MW & above have produced 213073.73 GWh comprising 270.04 GWh from hydro, 184250.36 GWh from steam, 5334.32 GWh from diesel, 19545.09 GWh from gas and 3673.92 GWh from RES respectively. The captive power plant energy generation has registered a growth of 18.52% over previous year's generation.

TOTAL GENERATION (UTILITIES + NON-UTILITIES)

The total electricity produced in the country including that from captive plants during the year 2018-19 was 1584853.21 GWh as compared to 1483232.07 GWh during the year 2017-18. Thus the electricity generation has registered a growth of 6.85% over previous year's generation.

Tables 4.1 to 4.5 give break-up details of electrical energy generation Mode-wise, State-wise, Region-wise and Sector-wise.

ALL INDIA GROSS ELECTRICITY GENERATION UTILITIES

2016-17 to 2018-19

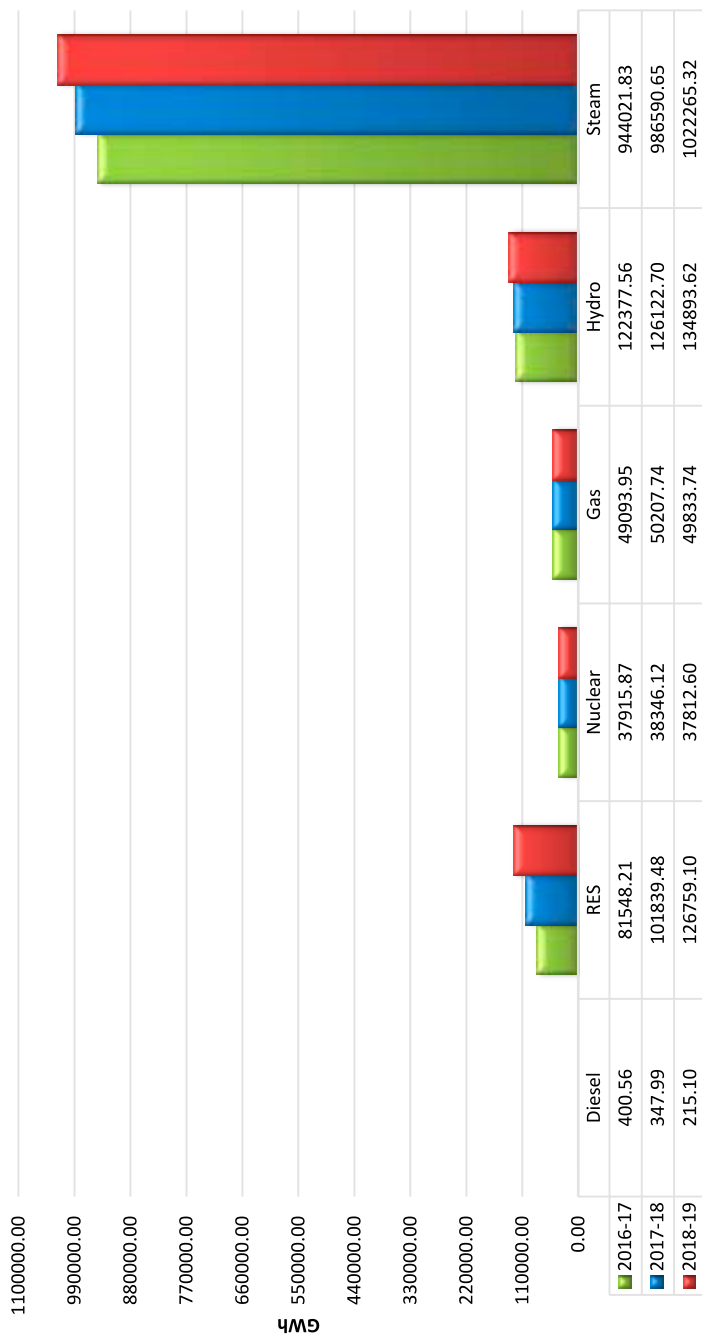


Table 4.1
ALL INDIA GROSS ELECTRICITY GENERATION MODE-WISE
UTILITIES & NON-UTILITIES
2018-19

Sl. No.	Year	Gross Electricity Generation (Gwh)							Total (3+7+8+9)
		Hydro	Thermal			Nuclear	RES		
			Steam	Diesel	Gas			Total (Thermal) (4+5+6)	
1	2	3	4	5	6	7	8	9	10
(i) UTILITIES GROSS ELECTRICAL ENERGY GENERATION									
	2017-18	126122.70	986590.65	347.99	50207.74	1037146.38	38346.12	101839.48	1303454.68
	2018-19	134893.62	1022265.32	215.10	49833.74	1072314.16	37812.60	126759.10	1371779.48
	% Increase	6.95	3.62	-38.19	-0.74	3.39	-1.39	24.47	5.24
(ii) NON-UTILITIES GROSS ELECTRICAL ENERGY GENERATION (Industries having Capacity 1 MW & above)									
	2017-18	112.48	143867.68	8106.89	25362.17	177336.74	0.00	2328.17	179777.39
	2018-19	270.04	184250.36	5334.32	19545.09	209129.77	0.00	3673.92	213073.73
	% Increase	140.08	28.07	-34.20	-22.94	17.93	0.00	57.80	18.52
(iii) TOTAL GROSS ELECTRICAL ENERGY GENERATION (i+ii)									
	2017-18	126235.18	1130458.33	8454.87	75569.91	1214483.12	38346.12	104167.65	1483232.07
	2018-19	135163.66	1206515.68	5549.42	69378.83	1281443.92	37812.60	130433.02	1584853.21
	% Increase	7.07	6.73	-34.36	-8.19	5.51	-1.39	25.21	6.85

ALL INDIA GROSS ELECTRICITY GENERATION UTILITIES 2018-19

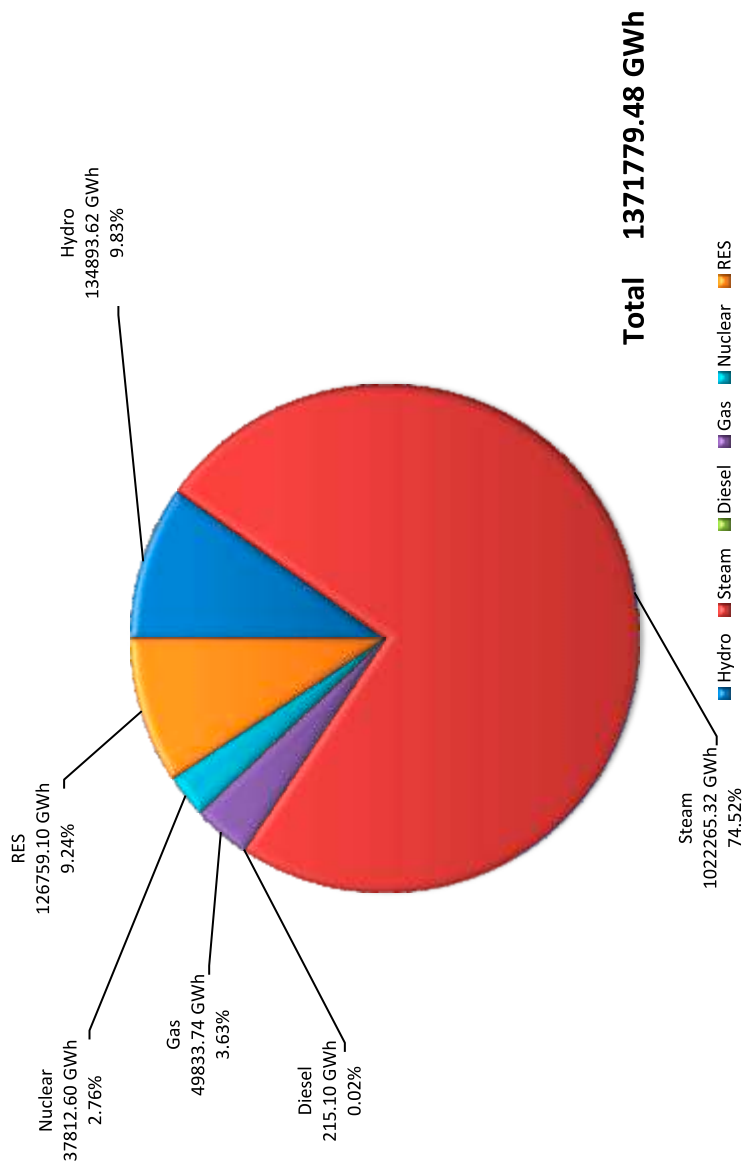


Table 4.2
ALL INDIA GROSS ELECTRICITY GENERATION OWNERSHIP-WISE AND MODE-WISE UTILITIES
2018-19

(Gwh)

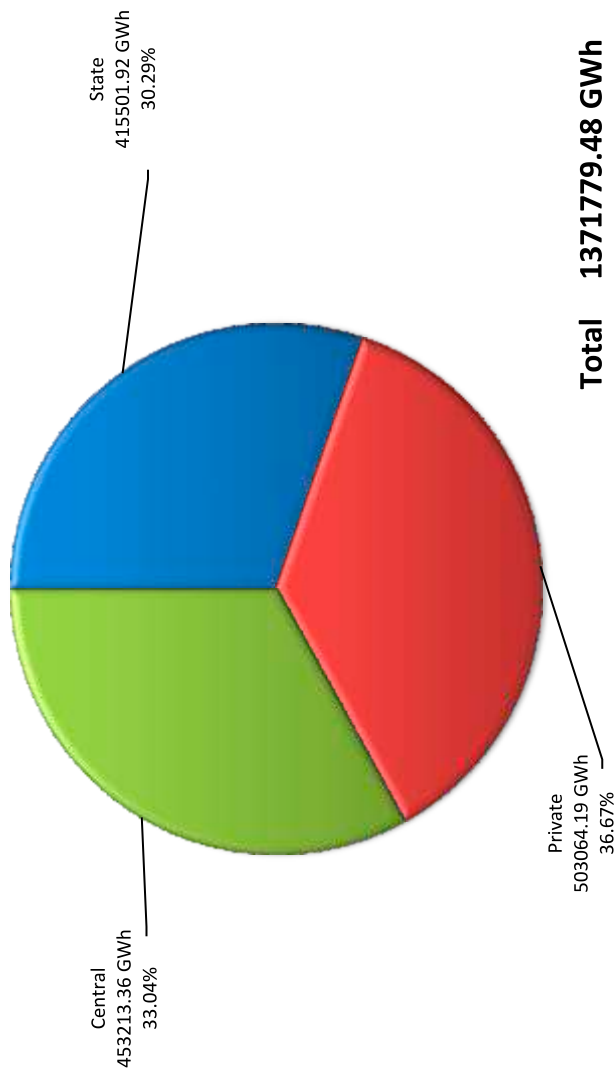
SL No.	State/UTs	Gross Electricity Generation (Gwh)							
		Hydro	Thermal				Nuclear	RES	Total (2+6+7+8)
			Steam	Diesel	Gas	Total (Thermal) (3+4+5)			
1		2	3	4	5	6	7	8	9
1	Public Sector								
1.1	Elect.Deptt./Govt.Undertakings / Corpsns./Joint Ventures	76357.31	318904.08	177.85	15932.25	335014.18	0.00	4130.43	415501.92
1.2	Central Sector	44969.27	348580.77	0.00	19576.71	368157.48	37812.60	2274.01	453213.36
	Sub-total Public Sector	121326.58	667484.85	177.85	35508.96	703171.66	37812.60	6404.45	868715.28
2	Private Sector								
2.1	Private Companies	13567.04	354780.47	37.25	14324.78	369142.50	0.00	120354.65	503064.19
	Sub total Private Sector	13567.04	354780.47	37.25	14324.78	369142.50	0.00	120354.65	503064.19
	Total All India	134893.62	1022265.32	215.10	49833.74	1072314.16	37812.60	126759.10	1371779.48

Note: DVC Generation is considered under central sector

ALL INDIA GROSS ELECTRICITY GENERATION SECTORWISE

UTILITIES

2018-19



■ State ■ Private ■ Central

Table 4.3
ALL INDIA GROSS ELECTRICITY GENERATION STATE-WISE
UTILITIES
2018-19

(Gwh)

State/UTs	2017-18	2018-19	% INCREASE
Chandigarh	7.87	13.51	71.66
Delhi	8730.70	9011.11	3.21
Haryana	29185.24	28678.93	-1.73
Himachal Pradesh	11610.81	11453.14	-1.36
Jammu & Kashmir	5821.94	5647.46	-3.00
Punjab	45504.30	46601.63	2.41
Rajasthan	58989.52	66863.21	13.35
Uttar Pradesh	73624.51	70215.21	-4.63
Uttarakhand	11671.74	10967.24	-6.04
Central Sector NR	120083.71	117814.13	-1.89
Sub Total (NR)	365230.34	367265.57	0.56
Chhattisgarh	63745.44	68979.75	8.21
Gujarat	88052.21	90699.27	3.01
Madhya Pradesh	59531.69	69862.64	17.35
Maharashtra	121209.57	128545.57	6.05
Daman & Diu	18.53	18.94	2.21
D. & N. Haveli	5.23	5.76	10.13
Goa 0.00	0.00	0.00	
Central Sector WR	113083.67	121917.95	7.81
Sub Total (WR)	445646.34	480029.88	7.72
Andhra Pradesh	60875.95	63986.05	5.11
Telangana	35912.79	39838.43	10.93
Karnataka	46547.01	56494.24	21.37
Kerala	6018.15	8054.62	33.84
Tamil Nadu	55392.00	60794.61	9.75
Puducherry	227.62	232.46	2.13
Lakshadweep	51.82	54.17	4.53
Central Sector SR	85724.69	86137.93	0.48
Sub Total (SR)	290750.03	315592.51	8.54
Bihar 348.54	488.13	40.05	
Jharkhand	14026.34	13474.27	-3.94
Odisha	19945.29	22199.18	11.30
West Bengal	39733.52	38983.13	-1.89
Sikkim	2653.31	3018.74	13.77
A.& N. Islands	315.69	182.58	-42.16
Central Sector ER	108532.86	113074.12	4.18
Sub Total (ER)	185555.55	191420.14	3.16
Arunachal Pradesh	0.70	1.76	151.43
Assam	1493.36	1460.37	-2.21
Manipur	0.15	1.88	1153.33
Meghalaya	1210.82	980.04	-19.06
Mizoram	54.67	40.08	-26.69
Nagaland	91.00	87.46	-3.89
Tripura	630.79	630.55	-0.04
Central Sector NER	12790.93	14269.24	11.56
Sub Total (NER)	16272.42	17471.38	7.37
Central Sector All India	440215.86	453213.36	2.95
Total All India	1303454.68	1371779.48	5.24

Note: (1) (-ve) figures in the states & region sub total are mainly due to retirements.

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

(3) DVC Generation is considered under central sector

Table 4.4
ALL INDIA GROSS ELECTRICITY GENERATION MODE-WISE/REGION-WISE/STATE-WISE
UTILITIES ONLY
2018-19

(Gwh)

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	13.51	13.51
Delhi	0.00	3711.84	0.00	5011.61	8723.45	0.00	287.66	9011.11
Haryana	3840.51	23820.53	0.00	362.05	24182.58	0.00	655.84	28678.93
Himachal Pradesh	9165.22	0.00	0.00	0.00	0.00	0.00	2287.92	11453.14
Jammu & Kashmir	5335.26	0.00	0.00	0.00	0.00	0.00	312.20	5647.46
Punjab	9143.63	34650.74	0.00	362.05	35012.79	0.00	2445.21	46601.63
Rajasthan	3246.57	51290.48	0.00	1019.01	52309.49	0.00	11307.15	66863.21
Uttar Pradesh	1926.25	62636.38	0.00	0.00	62636.38	0.00	5652.58	70215.21
Uttarakhand	7786.10	821.93	0.00	1254.24	2076.17	0.00	1104.97	10967.24
Central Sector NR	34813.06	67845.67	0.00	3354.21	71199.88	11196.17	605.02	117814.13
Sub Total (NR)	75256.60	244777.57	0.00	11363.17	256140.74	11196.17	24672.06	367265.57
Chhattisgarh	243.08	67791.57	0.00	0.00	67791.57	0.00	945.10	68979.75
Gujarat	543.14	67661.25	0.00	8723.43	76384.68	0.00	13771.45	90699.27
Madhya Pradesh	2028.35	60193.80	0.00	0.00	60193.80	0.00	7640.49	69862.64
Maharashtra	5149.73	104435.42	0.00	3985.51	108420.93	0.00	14974.91	128545.57
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	18.94	18.94
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	5.76	5.76
Goa 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector WR	1920.83	98880.48	0.00	8538.93	107419.41	11766.35	811.36	121917.95
Sub Total (WR)	9885.13	398962.52	0.00	21247.87	420210.39	11766.35	38168.01	480029.88
Andhra Pradesh	1433.88	43671.10	0.00	4750.71	48421.81	0.00	14130.36	63986.05
Telangana	3136.66	29670.52	0.00	0.00	29670.52	0.00	7031.25	39838.43
Karnataka	12050.29	22786.41	0.00	0.00	22786.41	0.00	21657.54	56494.24
Kerala	7320.21	0.00	4.07	0.00	4.07	0.00	730.34	8054.62
Tamil Nadu	5281.59	36034.44	0.00	2904.05	38938.49	0.00	16574.53	60794.61
Puducherry	0.00	0.00	0.00	229.88	229.88	0.00	2.58	232.46
Lakshadweep	0.00	0.00	53.05	0.00	53.05	0.00	1.12	54.17
Central Sector SR	0.00	70488.21	0.00	0.81	70489.02	14850.08	798.83	86137.93
Sub Total (SR)	29222.63	202650.68	57.12	7885.45	210593.25	14850.08	60926.55	315592.51
Bihar 0.00	0.00	0.00	0.00	0.00	0.00	488.13	488.13	0.00
Jharkhand	101.19	13352.12	0.00	0.00	13352.12	0.00	20.96	13474.27
Odisha	6361.86	15197.78	0.00	0.00	15197.78	0.00	639.54	22199.18
West Bengal	1537.94	35958.24	0.00	0.00	35958.24	0.00	1486.95	38983.13
Sikkim	2990.64	0.00	0.00	0.00	0.00	0.00	28.10	3018.74
A. & N. Islands	0.00	0.00	157.98	0.00	157.98	0.00	24.60	182.58
Central Sector ER	4512.21	108542.20	0.00	0.00	108542.20	0.00	19.71	113074.12
Sub Total (ER)	15503.84	173050.34	157.98	0.00	173208.32	0.00	2707.98	191420.14
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	1.76	1.76
Assam	372.72	0.00	0.00	1066.92	1066.92	0.00	20.73	1460.37
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	1.88	1.88
Meghalaya	929.53	0.00	0.00	0.00	0.00	0.00	50.51	980.04
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	40.08	40.08
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	87.46	87.46
Tripura	0.00	0.00	0.00	587.57	587.57	0.00	42.98	630.55
Central Sector NER	3723.17	2824.21	0.00	7682.76	10506.97	0.00	39.10	14269.24
Sub Total (NER)	5025.42	2824.21	0.00	9337.25	12161.46	0.00	284.50	17471.38
Central Sector All India	44969.27	348580.77	0.00	19576.71	368157.48	37812.60	2274.01	453213.36
Total All India	134893.62	1022265.32	215.10	49833.74	1072314.16	37812.60	126759.10	1371779.48

Note: 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
2018-19

(Gwh)

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	5011.61	5011.61	0.00	0.00	5011.61
Haryana	3840.51	10552.71	0.00	362.05	10914.76	0.00	193.78	14949.05
Himachal Pradesh	2243.25	0.00	0.00	0.00	0.00	0.00	682.19	2925.44
Jammu & Kashmir	5335.26	0.00	0.00	0.00	0.00	0.00	225.01	5560.27
Punjab	9143.63	4155.13	0.00	362.05	4517.18	0.00	258.64	13919.45
Rajasthan	3246.57	31019.46	0.00	1019.01	32038.47	0.00	5.17	35290.21
Uttar Pradesh	1926.25	31908.89	0.00	0.00	31908.89	0.00	31.29	33866.43
Uttarakhand	4478.77	0.00	0.00	0.00	0.00	0.00	214.32	4693.09
Central Sector (NR)	34813.06	67845.67	0.00	3354.21	71199.88	11196.17	605.02	117814.13
Sub Total (NR)	65027.30	145481.86	0.00	10108.93	155590.79	11196.17	2215.42	234029.68
Chhattisgarh	243.08	21259.45	0.00	0.00	21259.45	0.00	11.64	21514.17
Gujarat	543.14	24692.81	0.00	1988.45	26681.26	0.00	90.25	27314.65
Madhya Pradesh	2028.35	25543.14	0.00	0.00	25543.14	0.00	127.35	27698.84
Maharashtra	3525.11	46133.72	0.00	2574.69	48708.41	0.00	663.80	52897.32
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector (WR)	1920.83	98880.48	0.00	8538.93	107419.41	11766.35	811.36	121917.95
Sub Total (WR)	8260.51	216509.60	0.00	13102.07	229611.67	11766.35	1704.39	251342.92
Andhra Pradesh	1433.88	24480.70	0.00	826.31	25307.01	0.00	71.11	26812.00
Telangana	3136.66	29670.52	0.00	0.00	29670.52	0.00	24.41	32831.59
Karnataka	12050.29	13767.97	0.00	0.00	13767.97	0.00	274.96	26093.22
Kerala	7320.21	0.00	4.07	0.00	4.07	0.00	400.26	7724.54
Tamil Nadu	5281.59	25977.75	0.00	1903.71	27881.46	0.00	346.98	33510.03
Puducherry	0.00	0.00	0.00	229.88	229.88	0.00	0.00	229.88
Lakshadweep	0.00	0.00	53.05	0.00	53.05	0.00	0.00	53.05
Central Sector (SR)	0.00	70488.21	0.00	0.81	70489.02	14850.08	798.83	86137.93
Sub Total (SR)	29222.63	164385.15	57.12	2960.71	167402.98	14850.08	1916.54	213392.23
Bihar	0.00	0.00	0.00	0.00	0.00	27.74	27.74	0.00
Jharkhand	101.19	1689.05	0.00	0.00	1689.05	0.00	1.76	1792.00
Odisha	6361.86	3085.46	0.00	0.00	3085.46	0.00	38.89	9486.21
West Bengal	1537.94	24967.32	0.00	0.00	24967.32	0.00	167.14	26672.40
Sikkim	1277.52	0.00	0.00	0.00	0.00	0.00	28.10	1305.62
A. & N. Islands	0.00	0.00	120.73	0.00	120.73	0.00	16.56	137.29
Central Sector (ER)	4512.21	108542.20	0.00	0.00	108542.20	0.00	19.71	113074.12
Sub Total (ER)	13790.72	138284.03	120.73	0.00	138404.76	0.00	299.90	152495.38
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.45
Assam	372.72	0.00	0.00	1066.92	1066.92	0.00	7.74	1447.38
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	929.53	0.00	0.00	0.00	0.00	0.00	50.51	980.04
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	39.96	39.96
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	87.46	87.46
Tripura	0.00	0.00	0.00	587.57	587.57	0.00	42.98	630.55
Central Sector (NER)	3723.17	2824.21	0.00	7682.76	10506.97	0.00	39.10	14269.24
Sub Total (NER)	5025.42	2824.21	0.00	9337.25	12161.46	0.00	268.20	17455.08
Total-I, (All India)	121326.58	667484.85	177.85	35508.96	703171.66	37812.60	6404.45	868715.28

Note: DVC Generation is considered under central sector

Table 4.6
ALL INDIA GROSS ELECTRICITY GENERATION BY PRIVATE SECTOR
MODEWISE
2018-19

(Gwh)

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	13.51	13.51
Delhi	0.00	3711.84	0.00	0.00	3711.84	0.00	287.66	3999.50
Haryana	0.00	13267.82	0.00	0.00	13267.82	0.00	462.06	13729.88
Himachal Pradesh	6921.97	0.00	0.00	0.00	0.00	0.00	1605.73	8527.70
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	87.19	87.19
Punjab	0.00	30495.61	0.00	0.00	30495.61	0.00	2186.57	32682.18
Rajasthan	0.00	20271.02	0.00	0.00	20271.02	0.00	11301.98	31573.00
Uttar Pradesh	0.00	30727.49	0.00	0.00	30727.49	0.00	5621.29	36348.78
Uttarakhand	3307.33	821.93	0.00	1254.24	2076.17	0.00	890.65	6274.15
Chhattisgarh	0.00	46532.12	0.00	0.00	46532.12	0.00	933.46	47465.58
Gujarat	0.00	42968.44	0.00	6734.98	49703.42	0.00	13681.20	63384.62
Madhya Pradesh	0.00	34650.66	0.00	0.00	34650.66	0.00	7513.14	42163.80
Maharashtra	1624.62	58301.70	0.00	1410.82	59712.52	0.00	14311.11	75648.25
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	18.94	18.94
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	5.76	5.76
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Andhra Pradesh	0.00	19190.40	0.00	3924.40	23114.80	0.00	14059.25	37174.05
Telangana	0.00	0.00	0.00	0.00	0.00	0.00	7006.84	7006.84
Karnataka	0.00	9018.44	0.00	0.00	9018.44	0.00	21382.58	30401.02
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	330.08	330.08
TamilNadu	0.00	10056.69	0.00	1000.34	11057.03	0.00	16227.55	27284.58
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	2.58	2.58
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.12
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	460.39	460.39
Jharkhand	0.00	11663.07	0.00	0.00	11663.07	0.00	19.20	11682.27
Odisha	0.00	12112.32	0.00	0.00	12112.32	0.00	600.64	12712.96
West Bengal	0.00	10990.92	0.00	0.00	10990.92	0.00	1319.81	12310.73
Sikkim	1713.12	0.00	0.00	0.00	0.00	0.00	0.00	1713.12
A. & N. Islands	0.00	0.00	37.25	0.00	37.25	0.00	8.04	45.29
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	1.31	1.31
Assam	0.00	0.00	0.00	0.00	0.00	0.00	12.99	12.99
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	1.88	1.88
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	0.12	0.12
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
Total-II, (All India)	13567.04	354780.47	37.25	14324.78	369142.50	0.00	120354.65	503064.19
All India Total (I+II)	134893.62	1022265.32	215.10	49833.74	1072314.16	37812.60	126759.10	1371779.48

CHAPTER 5

CAPTIVE ELECTRICITY GENERATION PLANTS





CHAPTER 5

CAPTIVE ELECTRICITY GENERATION PLANTS

Power intensive Industries such as Aluminium, Cement, Chemicals, Fertilizers, Iron & Steel, Paper and Sugar etc. have started setting 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.

In the year 2018-19, Industrial Sector is the largest consumer of energy which has consumed about 42.91% of total electricity consumption in the country. The information has been collected from the industries with demand of 1 MW and above having their own captive power plants. The same has been compiled in this section of the book.

Details were received from 6051 industrial units with demand of 1 MW and above having Captive generation plants. The total installed capacity of such captive generating power plants was 75207.13 MW as on 31.03.2019. The installed capacity has registered a growth of 36.91% over the total installed captive power plant capacity of 54932.51 MW as on 31.03.2018. The contribution of Hydro, Steam, Diesel, Gas and Wind & Solar capacity had been 0.14%, 63.40%, 20.70%, 11.68% and 4.08% respectively in the total capacity. The Captive Power Plant generated 213073.73 GWh during 2018-19 and registered a growth of 18.52% over the generation of 179777.39 GWh during 2017-18. The contribution of Hydro, Steam, Diesel, Gas and Wind & Solar generation had been 0.13%, 86.47%, 2.50%, 9.17% and 1.72% respectively in the total captive generation.

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 1 MW & above and having Captive generation plants.

INSTALLED CAPACITY NON-UTILITIES 2016-17 to 2018-19

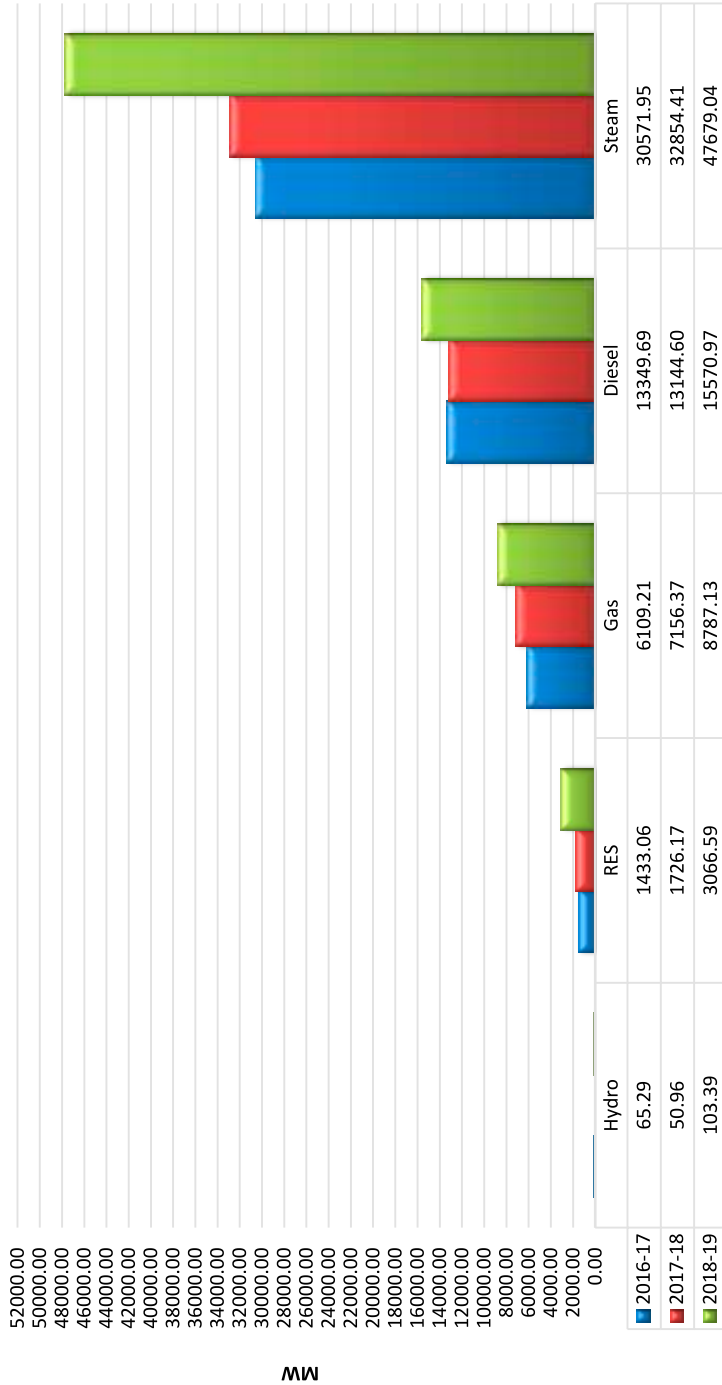


Table 5.1
INDUSTRY-WISE BREAK-UP OF INSTALLED CAPACITY,
ELECTRICITY GENERATION AND CONSUMPTION
2018-19

(Gwh)

Name of Industry	No. of Industries covered	Installed Generating Capacity (MW)	Energy Generation (GWh)	Energy Consumption (Gwh)
Aluminium	50	7253.50	43732.84	41239.39
Automobiles	253	1233.31	682.23	3419.88
Cement	281	6051.81	19095.12	24172.87
Chemicals	516	5474.11	13023.13	22128.88
Collieries	17	195.97	177.58	3216.42
Elect.Engg.	186	5958.20	7709.79	4330.58
Fertilizers	49	1202.34	3724.29	4401.18
Food Products	335	1009.39	562.75	2069.60
Heavy Engg.	112	544.83	972.64	1516.08
Iron & Steel	582	14237.66	62006.23	67875.66
Jute	51	146.91	33.29	525.19
Light Engg.	283	1036.66	1031.56	3571.83
Mineral Oil & Petroleum	154	4890.40	19639.17	20701.76
Mining & Quarrying	43	487.47	1455.97	2376.92
Misc.	1616	7711.32	3825.30	11588.27
Non-Ferrous	63	1371.77	4446.91	4958.23
Paper	149	1677.60	6574.34	7402.89
Plastic	62	241.69	723.11	1054.60
Rubber	132	1280.99	1657.82	3014.95
Sugar	287	8028.23	12061.21	10579.02
Textiles	830	5172.96	9938.42	15022.10
All India(Non-Utilities)	6051	75207.13	213073.73	255166.28

**INSTALLED CAPACITY
NON-UTILITIES
As on 31.03.2019**

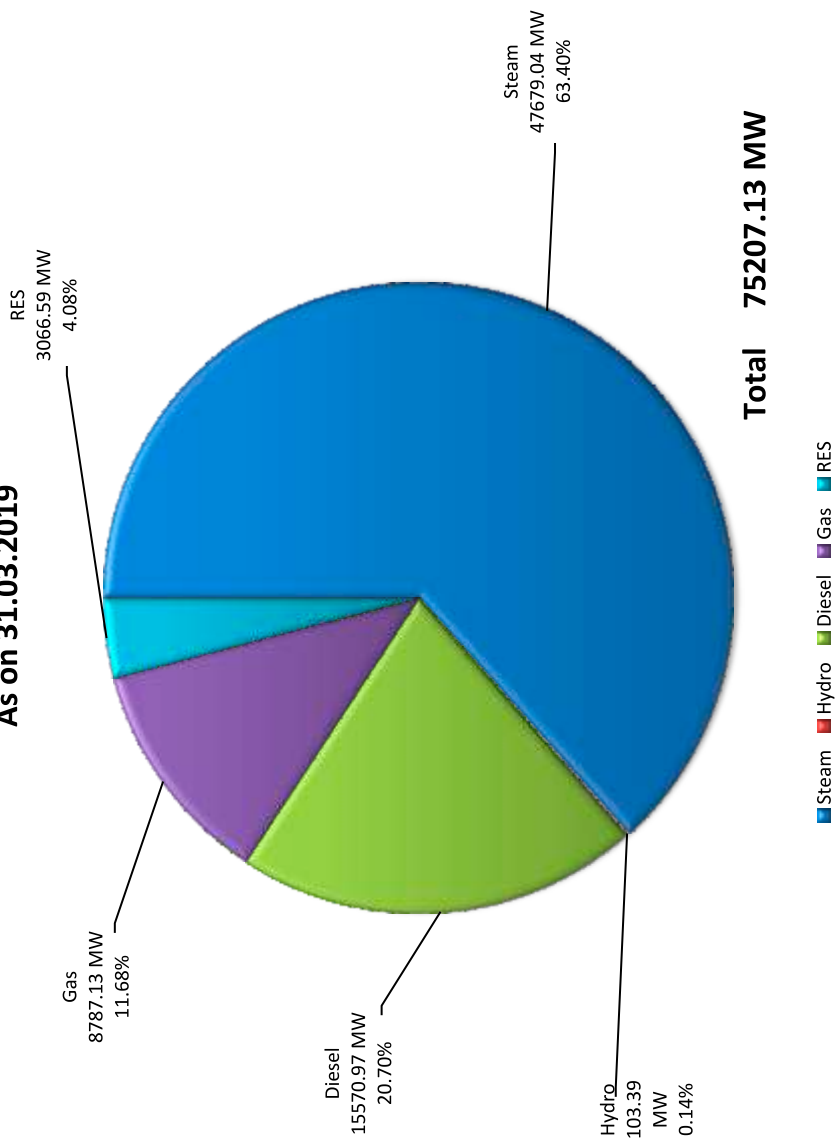


Table 5.2
ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE
2018-19

(KW)

State/UTs	Alumi- nium	Autom- obiles	Cement	Chemical	Colleries	Elect. Engg.	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0	2150	0	0	0	6570	0	0
Delhi	0	0	0	0	0	1020	0	4070
Haryana	9100	567547	47578	80431	15918	157237	30000	137265
Himachal Pradesh	0	8500	76920	6335	0	6200	0	10766
Jammu & Kashmir	0	0	0	0	0	0	0	2665
Punjab	0	103576	30000	20637	0	6598	32168	184859
Rajasthan	4850	81877	988886	29428	0	28575	67200	41603
Uttar Pradesh	924000	29340	127828	82720	0	12875	229040	97526
Uttarakhand	0	41409	13988	45042	0	4638	0	47702
Sub-Total (NR)	937950	834399	1285199	264593	15918	223712	358408	526456
Chhattisgarh	0	0	413600	16000	0	286980	0	0
Gujarat	8750	12696	386168	2464542	0	634814	396536	82358
Madhya Pradesh	602	5050	1567511	523723	0	310406	2112	78721
Maharashtra	116450	61365	199628	523421	0	2942335	103992	11406
Daman & Diu	0	0	0	0	0	0	0	0
D & N Haveli	2400	0	7225	10032	0	17175	0	0
Goa	0	0	0	20060	0	0	0	7200
Sub-Total (WR)	128202	79111	2574132	3557778	0	4191710	502640	179685
Andhra Pradesh	232364	0	415150	278907	0	126797	0	71674
Telangana	7317	16026	421458	436978	18000	45400	0	28131
Karnataka	7690	41624	729190	223300	251	40630	0	57235
Kerala	1150	0	1050	92061	0	33000	3996	1000
Tamil Nadu	11075	258746	378551	402880	0	1291736	45322	113319
Puducherry	0	1000	0	36634	0	0	0	4000
Lakshadweep	0	0	0	0	0	0	0	0
Sub-Total (SR)	259596	317396	1945399	1470759	18251	1537562	49318	275358
Bihar	0	0	0	0	0	0	0	800
Jharkhand	34520	0	36400	60000	123800	0	0	0
Odisha	5891900	0	120076	0	2000	0	166600	1200
West Bengal	1330	2400	42486	48450	36000	5220	95370	23631
Sikkim	0	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0	0
Sub-Total (ER)	5927750	2400	198962	108450	161800	5220	261970	25631
Arunachal Pradesh	0	0	0	0	0	0	0	0
Assam	0	0	800	72530	0	0	30000	558
Manipur	0	0	0	0	0	0	0	0
Meghalaya	0	0	47320	0	0	0	0	1697
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	48120	72530	0	0	30000	2255
Total (All India)	7253498	1233305	6051812	5474111	195969	5958204	1202336	1009386

Table 5.2 (Contd.)
ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE
2018-19

(KW)

State/UTs	Heavy Engg	Iron & Steel	Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Misc.
	9	10	11	12	13	14	15
Chandigarh	0	9000	0	0	0	0	75946
Delhi	0	402	0	0	1700	0	2037
Haryana	109858	164254	0	56993	487056	2303	1554835
Himachal Pradesh	0	4488	0	0	0	0	53726
Jammu & Kashmir	0	2090	0	0	0	0	0
Punjab	8541	61789	0	14645	176460	0	287632
Rajasthan	11508	16561	0	11288	84987	167400	190243
Uttar Pradesh	14458	108786	5888	111481	203360	0	238237
Uttarakhand	1200	5700	0	1204	6840	0	124181
Sub-Total (N R)	145565	373070	5888	195611	960403	169703	2526838
Chhattisgarh	0	4161581	0	0	12000	31385	639810
Gujarat	18760	413447	0	178034	1526037	359	796711
Madhya Pradesh	57507	29922	0	1675	138380	0	57889
Maharashtra	18000	374874	0	57120	460871	0	240045
Daman & Diu	0	0	0	1250	0	0	3700
D & N Haveli	0	0	0	0	0	0	3625
Goa	3500	16200	0	3497	0	1710	12784
Sub-Total (W R)	97767	4996024	0	241576	2137288	33454	1754564
Andhra Pradesh	142750	787210	13100	63827	158622	1600	234199
Telangana	5600	35946	0	30346	0	5284	372468
Karnataka	88731	1289950	8000	225821	263377	46480	1445878
Kerala	3085	10407	0	41065	159100	2408	132415
Tamil Nadu	28536	546914	0	208840	170800	16701	881599
Puducherry	0	7700	0	7526	3600	0	47771
Lakshadweep	0	0	0	0	0	0	0
Sub-Total (S R)	268702	2678127	21100	577425	755499	72473	3114329
Bihar	0	0	2240	5250	110500	0	14136
Jharkhand	15420	1352860	0	10403	0	90825	5752
Odisha	0	4237854	0	3825	400460	46020	20350
West Bengal	17380	578678	117686	2574	243970	0	273388
Sikkim	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0
Sub-Total (E R)	32800	6169392	119926	22052	754930	136845	313626
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	0	5810	0	0	282276	75000	1960
Manipur	0	0	0	0	0	0	0
Meghalaya	0	15240	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	21050	0	0	282276	75000	1960
Total (All India)	544834	14237664	146914	1036664	4890395	487474	7711316

Table 5.2 (Contd)
ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE
2018-19

(KW)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total
	16	17	18	19	20	21	22
Chandigarh	0	0	0	0	0	5800	99466
Delhi	0	0	0	0	0	0	9229
Haryana	51089	37613	19773	16601	58797	89312	3693557
Himachal Pradesh	0	8100	0	0	0	81151	256186
Jammu & Kashmir	0	0	0	0	0	36424	41179
Punjab	0	82590	5139	21326	120054	339601	1495615
Rajasthan	528744	0	15474	11480	6150	261586	2547838
Uttar Pradesh	185000	69123	5377	22840	560065	93218	3121163
Uttarakhand	400	123077	35020	23240	0	5573	479214
Sub-Total (N R)	765232	320503	80783	95487	745066	912665	11743447
Chhattisgarh	30500	5800	0	0	3000	639148	6239804
Gujarat	16212	94391	0	75876	158699	1034369	8298759
Madhya Pradesh	52615	105024	6650	12860	4605867	580972	8137486
Maharashtra	12688	280787	55474	838668	39980	429972	6767076
Daman & Diu	0	0	0	0	0	4051	9001
D & N Haveli	3020	2400	0	0	1350	40072	87299
Goa	0	0	0	11520	0	74495	150966
Sub-Total (W R)	115035	488402	62124	938924	4808896	2803078	29690391
Andhra Pradesh	11358	103121	19214	0	313688	40224	3013805
Telangana	7066	157302	1914	43108	161861	36421	1830627
Karnataka	51865	137640	0	36416	1359645	66723	6120444
Kerala	18791	25520	0	17299	0	5672	548018
Tamil Nadu	16156	271559	73840	114737	528026	1288014	6647352
Puducherry	0	0	1200	14860	6732	5574	136597
Lakshadweep	0	0	0	0	0	0	0
Sub-Total (S R)	105236	695142	96168	226420	2369952	1442628	18296841
Bihar	0	0	0	0	91000	0	223926
Jharkhand	6700	0	0	0	0	0	1736680
Odisha	362500	108728	0	16100	13320	0	11390933
West Bengal	425	34824	2612	4060	0	14593	1545077
Sikkim	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0
Sub-Total (E R)	369625	143552	2612	20160	104320	14593	14896616
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	0	30000	0	0	0	0	498934
Manipur	0	0	0	0	0	0	0
Meghalaya	16640	0	0	0	0	0	80897
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)	16640	30000	0	0	0	0	579831
Total (All India)	1371768	1677599	241687	1280991	8028234	5172965	75207126

Table 5.3
ALL INDIA GROSS ELECTRICITYYY GENERATION BY CAPTIVE
POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE
2018-19 (Gwh)

State/UTs	Alumi- nium	Autom- obiles	Cement	Chemical	Colleries	Elect. Engg.	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
Delhi	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.74
Haryana	0.00	103.83	1.24	8.00	0.00	6.25	155.51	8.85
Himachal Pradesh	0.00	1.39	57.80	1.20	0.00	0.62	0.00	5.74
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27
Punjab	0.00	3.62	106.02	14.56	0.00	0.25	162.05	132.66
Rajasthan	2.07	25.97	4291.41	50.28	0.00	0.87	215.68	1.90
Uttar Pradesh	7097.33	143.34	335.02	383.78	0.00	1.22	1160.07	9.64
Uttarakhand	0.00	23.91	38.88	126.69	0.00	0.47	0.00	10.66
Sub-Total (N R)	7099.40	302.07	4830.37	584.52	0.00	9.80	1693.31	170.46
Chhattisgarh	0.00	0.00	1809.70	5.00	0.00	1956.51	0.00	0.00
Gujarat	22.00	1.03	1792.40	5250.36	0.00	36.11	665.32	91.24
Madhya Pradesh	0.00	4.72	2044.61	1603.68	0.00	669.03	0.00	44.69
Maharashtra	65.82	3.87	1005.00	1194.72	0.00	979.04	552.50	0.87
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D & N Haveli	0.03	0.00	0.16	0.59	0.00	0.55	0.00	0.00
Goa	0.00	0.00	0.00	94.30	0.00	0.00	0.00	0.20
Sub-Total (W R)	87.85	9.62	6651.86	8148.64	0.00	3641.23	1217.82	137.00
Andhra Pradesh	18.61	0.00	1442.75	424.67	0.00	414.69	0.00	55.69
Telangana	0.49	2.75	1586.06	1592.34	38.93	320.25	0.00	5.39
Karnataka	0.04	10.03	2705.61	547.82	0.08	27.12	0.00	38.32
Kerala	1.50	0.00	0.02	77.37	0.00	84.00	0.13	0.60
Tamil Nadu	8.79	357.57	1137.69	687.10	0.00	3212.70	38.96	151.34
Puducherry	0.00	0.14	0.00	142.57	0.00	0.00	0.00	0.30
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	29.42	370.48	6872.14	3471.87	39.01	4058.77	39.09	251.64
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
Jharkhand	142.36	0.00	125.39	336.56	138.58	0.00	0.00	0.00
Odisha	36373.78	0.00	528.44	0.00	0.00	0.00	518.80	0.00
West Bengal	0.04	0.06	0.13	159.27	0.00	0.00	67.82	2.05
Sikkim	0.00	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	0.00
Sub-Total (E R)	36516.18	0.06	653.96	495.83	138.58	0.00	586.62	2.22
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.06	322.26	0.00	0.00	187.46	0.02
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	86.73	0.00	0.00	0.00	0.00	1.41
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	86.78	322.26	0.00	0.00	187.46	1.43
Total (All India)	43732.84	682.23	19095.12	13023.13	177.58	7709.79	3724.29	562.75

Table 5.3 (Contd.)
ALL INDIA GROSS ELECTRICITY GENERATION BY CAPTIVE POWER
PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE
2018-19 **(Gwh)**

State/UTs	Heavy Engg	Iron & Steel	Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Misc.
	9	10	11	12	13	14	15
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.10
Delhi 0.00	0.05	0.00	0.00	0.83	0.00	0.52	
Haryana	2.46	8.26	0.00	24.43	2458.72	0.00	40.63
Himachal Pradesh	0.00	0.37	0.00	0.00	0.00	0.00	5.34
Jammu & Kashmir	0.00	1.92	0.00	0.00	0.00	0.00	0.00
Punjab	0.21	2.80	0.00	1.00	1061.85	0.00	103.92
Rajasthan	0.22	1.12	0.00	0.87	495.13	435.94	27.50
Uttar Pradesh	0.88	265.24	0.15	338.68	924.48	0.00	133.80
Uttarakhand	1.00	0.79	0.00	0.01	1.64	0.00	129.67
Sub-Total (N R)	4.78	280.55	0.15	365.00	4942.64	435.94	441.48
Chhattishgarh	0.00	22268.01	0.00	0.00	22.98	90.97	160.37
Gujarat	49.61	1015.53	0.00	102.06	5067.14	0.01	373.45
Madhya Pradesh	2.51	77.42	0.00	0.00	433.54	0.00	8.17
Maharashtra	84.70	1482.91	0.00	9.60	1762.96	0.00	30.60
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.29
D & N Haveli	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Goa 0.00	0.10	0.00	1.23	0.00	0.00	3.08	
Sub-Total (W R)	136.82	24843.98	0.00	112.89	7286.62	90.98	576.04
Andhra Pradesh	714.70	4265.55	1.17	207.75	917.61	0.00	543.51
Telangana	12.06	58.86	0.00	6.55	0.00	0.11	260.43
Karnataka	89.93	6794.55	28.65	191.62	1394.84	65.36	487.74
Kerala	0.80	0.01	0.00	0.84	716.48	0.00	53.49
Tamil Nadu	13.31	2252.91	0.00	145.07	801.24	6.00	1203.74
Puducherry	0.00	0.01	0.00	1.16	1.41	0.00	5.25
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	830.80	13371.88	29.82	552.99	3831.57	71.47	2554.17
Bihar 0.00	0.00	0.81	0.25	362.16	0.00	1.39	
Jharkhand	0.00	5286.42	0.00	0.10	0.00	487.65	0.95
Orissa	0.00	17430.87	0.00	0.29	1368.77	261.47	62.40
West Bengal	0.25	757.82	2.51	0.04	1060.37	0.00	188.13
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)	0.25	23475.11	3.33	0.68	2791.30	749.12	252.87
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	787.04	108.45	0.75
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	34.71	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	34.71	0.00	0.00	787.04	108.45	0.75
Total (All India)	972.64	62006.23	33.29	1031.56	19639.17	1455.97	3825.30

Table 5.3 (Contd.)
ALL INDIA GROSS ELECTRICITY GENERATION BY CAPTIVE POWER
PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE
2018-19 (Gwh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total
	16	17	18	19	20	21	22
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.19
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	2.17
Haryana	4.92	137.03	0.00	8.46	72.64	77.47	3118.70
Himachal Pradesh	0.00	51.42	0.00	0.00	0.00	3.09	126.97
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	1.13	3.32
Punjab	0.00	336.51	1.09	0.46	38.45	615.47	2580.92
Rajasthan	2677.62	0.00	0.76	1.97	0.00	586.75	8816.07
Uttar Pradesh	0.00	203.89	0.52	2.59	165.15	139.76	11305.54
Uttarakhand	0.03	583.68	6.71	113.70	0.00	1.83	1039.66
Sub-Total (N R)	2682.57	1312.52	9.07	127.18	276.24	1425.51	26993.54
Chhattishgarh	95.68	23.60	0.00	0.00	0.00	4296.09	30728.91
Gujarat	3.20	377.27	0.00	83.84	432.23	621.01	15983.79
Madhya Pradesh	112.67	272.00	12.00	0.02	6614.21	820.17	12719.45
Maharashtra	29.43	921.18	201.69	1336.99	97.39	786.33	10545.62
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.20	0.49
D & N Haveli	0.00	0.28	0.00	0.00	1.20	1.14	4.02
Goa	0.00	0.00	0.00	1.00	0.00	434.10	534.01
Sub-Total (W R)	240.98	1594.33	213.69	1421.85	7145.03	6959.04	70516.28
Andhra Pradesh	0.54	376.44	111.25	0.00	658.04	19.07	10172.06
Telangana	0.16	763.60	0.08	0.29	348.53	3.33	5000.21
Karnataka	233.64	442.86	0.00	0.99	2783.08	39.96	15882.22
Kerala	34.25	32.94	0.00	0.17	0.00	0.29	1002.90
Tamil Nadu	2.27	1253.92	388.59	51.56	831.77	1478.74	14023.25
Puducherry	0.00	0.00	0.12	3.67	0.99	11.08	166.70
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	270.85	2869.77	500.04	56.67	4622.41	1552.48	46247.34
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	364.78
Jharkhand	0.24	0.00	0.00	0.00	0.00	0.00	6518.25
Orissa	1214.20	579.08	0.00	52.06	17.53	0.00	58407.69
West Bengal	0.00	83.76	0.31	0.05	0.00	1.40	2324.01
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)	1214.44	662.85	0.31	52.11	17.53	1.40	67614.73
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	134.89	0.00	0.00	0.00	0.00	1540.93
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	38.07	0.00	0.00	0.00	0.00	0.00	160.92
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)	38.07	134.89	0.00	0.00	0.00	0.00	1701.84
Total (All India)	4446.91	6574.34	723.11	1657.82	12061.21	9938.42	213073.73

Table 5.4
INDUSTRY-WISE/MODE-WISE ALL INDIA INSTALLED CAPACITY
OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE
31.03.2019

(kW)

Name of Industry	No. of Industries covered	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8	9
Aluminium	50	0	7038196	126782	0	37970	50550	7253498
Automobile	253	0	52000	972771	133487	38378	36670	1233305
Cement	281	0	4652008	1286976	19565	47238	46025	6051812
Chemical	516	0	2946449	1318253	879327	38131	291951	5474111
Collieries	17	0	128251	65718	0	2000	0	195969
Electrical Engineering	186	33000	1841775	379617	2984665	368385	350762	5958204
Fertiliser	49	0	478840	53784	614312	34400	21000	1202336
Food Products	335	0	281793	652668	21659	12830	40436	1009386
Heavy Engineering	112	0	168286	269828	37500	60620	8600	544834
Iron & Steel	582	2550	2448464	1019614	611330	20620	135086	4237664
Jute	51	600	5000	138664	2400	250	0	146914
Light Engineering	283	0	98012	754311	74082	23184	87075	1036664
Mineral Oil & Petroleum	154	0	2141634	389077	2281193	25831	52660	4890395
Mining & Quarrying	43	0	324880	72594	89000	1000	0	487474
Miscellaneous	1616	1875	1973453	5198283	222647	211249	103810	7711316
Non Ferrous	63	35366	1162100	151309	4200	15793	3000	1371768
Paper	149	0	1510035	139580	20318	4441	3225	1677599
Plastic	62	0	106000	116135	0	6472	13080	241687
Rubber	132	0	894830	313874	11926	8644	51717	1280991
Sugar	287	0	7304961	560372	125521	33330	4050	8028234
Textile	830	30000	2122074	1590759	654000	72992	703140	5172965
Total	6051	103391	47679042	15570968	8787132	1063757	2002837	75207126

Table 5.5
INDUSTRY-WISE/MODE-WISE ALL INDIA ELECTRICITY GENERATION
AND CONSUMPTION BY
CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF
1MW & ABOVE
2018-19

(GWh)

Name of Industry	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8
Aluminium	0.00	43616.82	2.01	0.00	30.30	83.71	43732.84
Automobile	0.00	289.78	296.96	42.29	22.14	31.05	682.23
Cement	0.00	18310.13	576.67	90.35	51.58	66.38	19095.12
Chemical	0.00	9944.26	514.75	2087.53	40.45	436.14	13023.13
Colleries	0.00	177.47	0.11	0.00	0.00	0.00	177.58
Electrical Engineering	84.00	6441.19	21.52	258.31	193.23	711.54	7709.79
Fertiliser	0.00	1383.84	1.78	2298.60	1.77	38.30	3724.29
Food Products	0.00	284.45	192.64	15.22	4.05	66.38	562.75
Heavy Engineering	0.00	698.20	53.76	191.92	14.28	14.47	972.64
Iron & Steel	3.50	58544.53	640.54	2657.87	17.86	141.93	62006.23
Jute	0.00	23.05	4.31	5.60	0.33	0.00	33.29
Light Engineering	0.00	453.37	334.41	77.63	39.57	126.59	1031.56
Mineral Oil & Petroleum	0.00	8188.53	945.32	10421.96	39.15	44.22	19639.17
Mining & Quarrying	0.00	1329.77	1.12	108.45	0.40	16.22	1455.97
Miscellaneous	5.38	2451.03	563.12	391.61	215.84	198.32	3825.30
Non Ferrous	94.72	4329.41	6.79	0.00	12.79	3.20	4446.91
Paper	0.00	6322.23	182.55	59.87	3.80	5.90	6574.34
Plastic	0.00	684.08	25.38	0.00	2.74	10.91	723.11
Rubber	0.00	1538.69	61.78	14.41	2.91	40.03	1657.82
Sugar	0.00	11452.40	575.27	20.85	8.94	3.75	12061.21
Textile	82.43	7787.13	333.52	802.62	77.56	855.16	9938.42
Total	270.04	184250.36	5334.32	19545.09	779.72	2894.21	213073.73

Table 5.5 (Contd.)
INDUSTRY-WISE/MODE-WISE ALL INDIA ELECTRICITY GENERATION
AND CONSUMPTION BY
CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF
1MW & ABOVE
2018-19

(GWh)

Name of Industry	Auxiliary Consumption	Net Generation (8-9)	Export to Utilities	Energy used in the industry out of self Generation (10-11)	Import from Utilities	Energy Consumed in the Industry (12+13)
	9	10	11	12	13	14
Aluminium	3872.73	39860.11	1011.86	38848.25	2391.13	41239.39
Automobile	43.10	639.14	133.43	505.71	2914.17	3419.88
Cement	1572.98	17522.14	1037.91	16484.23	7688.63	24172.87
Chemical	1045.37	11977.75	996.13	10981.63	11147.26	22128.88
Collieries	31.54	146.05	8.64	137.41	3079.01	3216.42
Electrical Engineering	609.79	7100.00	4185.48	2914.51	1416.07	4330.58
Fertiliser	144.56	3579.73	363.70	3216.03	1185.15	4401.18
Food Products	22.26	540.49	196.27	344.22	1725.38	2069.60
Heavy Engineering	68.36	904.28	178.64	725.64	790.44	1516.08
Iron & Steel	5892.45	56113.79	4396.28	51717.51	16158.15	67875.66
Jute	2.24	31.05	0.50	30.55	494.64	525.19
Light Engineering	27.93	1003.63	7.03	996.60	2575.23	3571.83
Mineral Oil & Petroleum	1084.64	18554.53	348.65	18205.88	2495.88	20701.76
Mining & Quarrying	173.59	1282.37	139.62	1142.75	1234.16	2376.92
Miscellaneous	259.71	3565.59	1396.60	2168.99	9419.28	11588.27
Non Ferrous	332.59	4114.32	523.31	3591.01	1367.22	4958.23
Paper	638.51	5935.84	194.78	5741.05	1661.83	7402.89
Plastic	73.50	649.61	95.29	554.32	500.28	1054.60
Rubber	139.45	1518.37	951.95	566.42	2448.53	3014.95
Sugar	496.99	11564.22	2132.35	9431.87	1147.16	10579.02
Textile	723.55	9214.88	5065.75	4149.12	10872.97	15022.10
Total	17255.84	195817.89	23364.18	172453.71	82712.58	255166.28

Table 5.6
STATE-WISE INSTALLED CAPACITY OF CAPTIVE POWER PLANTS
IN INDUSTRIES HAVING DEMAND OF
1 MW & ABOVE
31.03.2019
(kW)

State/UTs	No. of Industries covered	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8	9
Chandigarh	34	0	25000	73996	0	470	0	99466
Delhi	12	0	0	9129	0	100	0	9229
Haryana	832	0	276960	2884180	480217	52201	0	3693557
Himachal Pradesh	59	0	35100	215716	0	5370	0	256186
Jammu & Kashmir	6	0	0	41179	0	0	0	41179
Punjab	336	0	538120	869951	82342	5202	0	1495615
Rajasthan	313	0	1762870	528053	101120	101496	54300	2547838
Uttar Pradesh	213	0	2064345	473066	540457	43295	0	3121163
Uttarakhand	115	0	179350	284611	11220	4033	0	479214
Sub-Total (NR)	1920	0	4881745	5379880	1215356	212166	54300	11743447
Chhattisgarh	128	0	5999000	187654	31000	22150	0	6239804
Gujarat	520	2550	3681939	1308150	2724467	87758	493895	8298759
Madhya Pradesh	200	0	6873474	878612	162910	5740	216750	8137486
Maharashtra	387	21000	2718676	884645	2573887	270328	298541	6767076
Daman & Diu	6	0	0	9001	0	0	0	9001
D & N Haveli	22	0	8400	78899	0	0	0	87299
Goa	22	0	9900	70066	71000	0	0	150966
Sub-Total (WR)	1285	23550	19291389	3417026	5563264	385976	1009186	29690391
Andhra Pradesh	288	1875	2239715	615422	119968	26705	10120	3013805
Telangana	281	0	1143372	662512	1000	23743	0	1830627
Karnataka	670	26175	3253359	2152412	512900	115087	60511	6120444
Kerala	90	51791	165100	211303	78500	41325	0	548018
Tamil Nadu	997	0	3290384	2087768	195702	204778	868720	6647352
Puducherry	54	0	14000	87197	34700	700	0	136597
Lakshadweep	0	0	0	0	0	0	0	0
Sub-Total (SR)	2380	79841	10105930	5816613	942770	412337	939351	18296841
Bihar	20	0	170900	12026	40000	1000	0	223926
Jharkhand	49	0	1497320	139360	100000	0	0	1736680
Odisha	109	0	10894580	116603	343500	36250	0	11390933
West Bengal	245	0	680378	630094	221578	13027	0	1545077
Sikkim	0	0	0	0	0	0	0	0
Andaman & Nicobar Is.	0	0	0	0	0	0	0	0
Sub-Total (ER)	423	0	13243178	898083	705078	50277	0	14896616
Arunachal Pradesh	0	0	0	0	0	0	0	0
Assam	31	0	118000	17270	360664	3000	0	498934
Manipur	0	0	0	0	0	0	0	0
Meghalaya	12	0	38800	42097	0	0	0	80897
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)	43	0	156800	59367	360664	3000	0	579831
Total (All India)	6051	103391	47679042	15570968	8787132	1063757	2002837	75207126

Table 5.7
STATE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION
BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF
1 MW & ABOVE
2018-19

(Gwh)

ENERGY GENERATED							
State/UTs	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8
Chandigarh	0.00	0.00	0.03	0.00	0.16	0.00	0.19
Delhi	0.00	0.00	2.06	0.00	0.11	0.00	2.17
Haryana	0.00	942.84	208.66	1955.02	12.19	0.00	3118.70
Himachal Pradesh	0.00	105.84	20.26	0.00	0.87	0.00	126.97
Jammu & Kashmir	0.00	0.00	3.32	0.00	0.00	0.00	3.32
Punjab	0.00	1944.59	94.94	535.69	5.70	0.00	2580.92
Rajasthan	0.00	8414.71	53.09	215.48	78.41	54.38	8816.07
Uttar Pradesh	0.00	8590.45	489.58	2212.39	13.12	0.00	11305.54
Uttarakhand	0.00	950.81	62.85	24.35	1.66	0.00	1039.66
Sub-Total(NR)	0.00	20949.24	934.78	4942.92	112.21	54.38	26993.54
Chhattisgarh	0.00	30437.90	180.20	97.23	13.58	0.00	30728.91
Gujarat	3.50	10999.17	443.75	3807.15	58.91	671.30	15983.79
Madhya Pradesh	0.00	11390.89	436.25	384.10	6.70	501.50	12719.45
Maharashtra	51.04	8205.14	612.65	1148.35	61.56	466.87	10545.62
Daman & Diu	0.00	0.00	0.49	0.00	0.00	0.00	0.49
D & N Haveli	0.00	0.19	3.84	0.00	0.00	0.00	4.02
Goa	0.00	53.00	30.86	450.16	0.00	0.00	534.01
Sub-Total(WR)	54.54	61086.30	1708.03	5886.99	140.75	1639.67	70516.28
Andhra Pradesh	5.38	8923.05	723.93	469.20	36.91	13.59	10172.06
Telangana	0.00	4867.56	90.31	0.34	42.00	0.00	5000.21
Karnataka	91.86	11475.67	1165.13	2922.78	80.95	145.83	15882.22
Kerala	118.25	497.62	22.22	328.81	36.00	0.00	1002.90
Tamil Nadu	0.00	11326.89	570.22	788.61	296.80	1040.73	14023.25
Puducherry	0.00	3.31	10.03	153.36	0.00	0.00	166.70
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total(SR)	215.49	37094.10	2581.83	4663.10	492.67	1200.15	46247.34
Bihar	0.00	155.20	1.40	206.96	1.22	0.00	364.78
Jharkhand	0.00	6086.32	8.22	423.71	0.00	0.00	6518.25
Odisha	0.00	57009.81	15.12	1359.46	23.31	0.00	58407.69
West Bengal	0.00	1046.83	62.32	1206.71	8.15	0.00	2324.01
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(ER)	0.00	64298.16	87.06	3196.84	32.67	0.00	67614.73
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	679.94	4.33	855.24	1.42	0.00	1540.93
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	142.63	18.29	0.00	0.00	0.00	160.92
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(NER)	0.00	822.57	22.62	855.24	1.42	0.00	1701.84
Total (All India)	270.04	184250.36	5334.32	19545.09	779.72	2894.21	213073.73

Table 5.7 (Contd.)
STATE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION
BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF
1 MW & ABOVE
2018-19

(GWh)

State/UTs	Auxiliary Consumption	Net Generation (8-9)	Export to Utilities	Energy used in the industry out of self Generation (10-11)	Import from Utilities	Energy Consumed in the Industry (12+13)
	9	10	11	12	13	14
Chandigarh	0.00	0.19	0.00	0.19	3.06	3.25
Delhi	0.00	2.17	0.00	2.17	42.69	44.85
Haryana	58.80	3059.91	0.02	3059.89	1706.33	4766.21
Himachal Pradesh	3.53	123.44	0.00	123.44	1207.92	1331.36
Jammu & Kashmir	0.00	3.32	0.00	3.32	263.69	267.01
Punjab	311.75	2269.17	24.88	2244.29	2350.65	4594.95
Rajasthan	638.88	8177.19	523.28	7653.91	3767.04	11420.95
Uttar Pradesh	696.12	10609.42	229.20	10380.22	1805.31	12185.53
Uttarakhand	88.08	951.58	0.00	951.58	1668.64	2620.22
Sub-Total(NR)	1797.15	25196.38	777.38	24419.00	12815.32	37234.32
Chhattisgarh	3120.82	27608.09	5068.85	22539.24	1656.30	24195.54
Gujarat	1125.86	14857.92	667.06	14190.86	9193.84	23384.70
Madhya Pradesh	418.03	12301.41	39.48	12261.93	4666.57	16928.50
Maharashtra	976.92	9568.69	2699.34	6869.35	9066.03	15935.38
Daman & Diu	0.00	0.49	0.00	0.49	34.80	35.29
D & N Haveli	0.02	4.01	0.00	4.01	1750.53	1754.54
Goa	11.49	522.53	206.00	316.53	196.65	513.18
Sub-Total(WR)	5653.14	64863.14	8680.73	56182.41	26564.72	82747.13
Andhra Pradesh	785.54	9386.51	1451.62	7934.90	8299.94	16234.83
Telangana	438.89	4561.32	1286.86	3274.46	4388.52	7662.98
Karnataka	1072.65	14809.57	1914.53	12895.04	6689.43	19584.46
Kerala	51.73	951.17	82.01	869.16	1623.96	2493.12
Tamil nadu	991.56	13031.68	6562.99	6468.70	11780.01	18248.70
Puducherry	4.32	162.38	0.00	162.38	754.22	916.60
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total(SR)	3344.70	42902.64	11298.00	31604.63	33536.06	65140.70
Bihar	23.39	341.40	0.00	341.40	26.82	368.22
Jharkhand	701.20	5817.05	186.65	5630.40	2861.12	8491.51
Odisha	5377.66	53030.03	2198.17	50831.86	2217.69	53049.55
West Bengal	218.80	2105.21	195.57	1909.64	4332.74	6242.38
Sikkim	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
Sub-Total(ER)	6321.05	61293.69	2580.39	58713.29	9438.37	68151.66
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00
Assam	123.84	1417.09	27.67	1389.42	116.11	1505.52
Manipur	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	15.96	144.95	0.00	144.95	242.00	386.95
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)	139.80	1562.04	27.67	1534.37	358.11	1892.48
Total (All India)	17255.84	195817.89	23364.18	172453.71	82712.58	255166.28

Table 5.8
ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE
POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE
2018-19 (Gwh)

State/UTs	Alumi- nium	Autom- obiles	Cement	Chemical	Colleries	Elect. Engg.	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0.00	0.00	0.00	0.00	0.00	1.95	0.00	0.00
Delhi	0.00	0.00	0.00	0.00	0.00	0.05	0.00	32.78
Haryana	0.00	165.95	37.51	43.75	6.69	19.74	164.92	41.38
Himachal Pradesh	0.00	18.45	503.88	11.71	0.00	15.48	0.00	47.35
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.07
Punjab	0.00	287.24	103.75	88.76	0.00	1.93	152.53	251.34
Rajasthan	12.32	234.20	4439.99	285.62	0.00	79.47	225.23	51.92
Uttar Pradesh	6638.61	100.13	490.72	363.44	0.00	13.30	1150.29	116.03
Uttarakhand	0.00	185.67	167.29	280.21	0.00	13.92	0.00	135.36
Sub-Total (N R)	6650.93	991.65	5743.14	1073.48	6.69	145.85	1692.97	682.24
Chhattisgarh	0.00	0.00	2320.32	2.49	0.00	1745.00	0.00	0.00
Gujarat	272.00	36.20	2005.43	8105.15	0.00	230.75	1050.20	420.22
Madhya Pradesh	709.00	30.14	2918.22	2506.48	0.00	1109.90	14.96	155.99
Maharashtra	195.13	317.22	861.67	2815.98	0.00	254.47	577.52	66.29
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D & N Haveli	13.59	0.00	611.16	167.89	0.00	95.38	0.00	0.00
Goa	0.00	0.00	0.00	103.76	0.00	0.00	0.00	31.20
Sub-Total (W R)	1189.72	383.56	8716.80	13701.75	0.00	3435.50	1642.68	673.71
Andhra Pradesh	73.45	0.00	2725.94	1596.89	0.00	226.59	0.00	186.88
Telangana	42.61	100.25	2055.96	1574.22	669.90	116.55	0.00	80.50
Karnataka	9.37	142.43	2703.54	1297.10	0.07	57.05	0.00	134.51
Kerala	14.69	0.00	1.75	379.17	0.00	121.61	28.04	4.19
Tamil Nadu	28.40	1797.59	1152.99	1455.57	0.00	221.18	286.64	216.01
Puducherry	0.00	4.34	0.00	343.77	0.00	0.00	0.00	26.29
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	168.52	2044.61	8640.17	6646.72	669.96	742.98	314.68	648.38
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.74
Jharkhand	103.14	0.00	241.80	258.04	1671.17	0.00	0.00	0.00
Odisha	33121.67	0.00	521.30	0.00	0.00	0.00	500.79	3.23
West Bengal	5.41	0.06	127.80	122.43	868.60	6.25	62.41	55.14
Sikkim	0.00	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	0.00
Sub-Total (E R)	33230.22	0.06	890.90	380.47	2539.77	6.25	563.20	62.10
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	18.24	326.47	0.00	0.00	187.66	0.28
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	163.63	0.00	0.00	0.00	0.00	2.89
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	181.86	326.47	0.00	0.00	187.66	3.17
Total (All India)	41239.39	3419.88	24172.87	22128.88	3216.42	4330.58	4401.18	2069.60

Table 5.8 (Contd.)
ALL INDIA ELECTRICITY CONSUMPTION
BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE
2018-19

(Gwh)

State/UTs	Heavy Engg	Iron & Steel	Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Misc.
	9	10	11	12	13	14	15
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	1.29
Delhi	0.00	7.23	0.00	0.00	0.83	0.00	3.97
Haryana	37.63	835.98	0.00	51.13	2502.85	0.00	336.56
Himachal Pradesh	0.00	49.51	0.00	0.00	0.00	0.00	116.69
Jammu & Kashmir	0.00	34.03	0.00	0.00	0.00	0.00	0.00
Punjab	7.48	371.32	0.00	12.95	1000.66	0.00	314.96
Rajasthan	6.73	149.56	0.00	5.46	614.13	859.66	260.52
Uttar Pradesh	29.67	495.58	2.29	365.90	1176.33	0.00	534.40
Uttarakhand	1.00	293.30	0.00	8.54	11.67	0.00	491.23
Sub-Total (N R)	82.51	2236.50	2.29	443.97	5306.47	859.66	2059.61
Chhattisgarh	0.00	19652.51	0.00	0.00	22.09	46.47	210.42
Gujarat	62.86	1893.66	0.00	462.16	5042.43	21.60	876.04
Madhya Pradesh	224.24	126.13	0.00	0.95	536.54	0.00	89.19
Maharashtra	73.80	4464.12	0.00	294.30	2612.86	0.00	582.19
Daman & Diu	0.00	0.00	0.00	1.80	0.00	0.00	14.59
D & N Haveli	0.00	0.00	0.00	0.00	0.00	0.00	21.63
Goa	4.18	12.30	0.00	15.21	0.00	0.04	18.39
Sub-Total (W R)	365.08	26148.73	0.00	774.42	8213.91	68.11	1812.45
Andhra Pradesh	587.75	7048.40	41.63	393.90	756.92	0.48	680.66
Telangana	42.28	183.55	0.00	118.01	0.00	78.76	801.40
Karnataka	254.77	7018.70	34.75	618.62	1355.19	327.64	3205.08
Kerala	33.78	13.31	0.00	123.63	804.39	80.93	359.12
Tamil Nadu	110.39	1828.67	0.00	717.75	810.25	17.90	1689.23
Puducherry	0.00	209.99	0.00	28.39	27.26	0.00	179.09
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	1028.98	16302.61	76.39	2000.30	3754.00	505.71	6914.59
Bihar	0.00	0.00	8.11	0.25	346.95	0.00	9.17
Jharkhand	35.45	5218.51	0.00	324.61	0.00	586.02	4.89
Odisha	0.00	15513.36	0.00	12.73	1231.86	259.86	133.91
West Bengal	4.06	2337.51	438.41	15.56	1061.27	0.00	652.90
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)	39.51	23069.38	446.52	353.14	2640.09	845.88	800.87
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	787.29	97.56	0.75
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	118.44	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	118.44	0.00	0.00	787.29	97.56	0.75
Total (All India)	1516.08	67875.66	525.19	3571.83	20701.76	2376.92	11588.27

Table 5.8 (Contd.)
ALL INDIA ELECTRICITY CONSUMPTION
BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE
2018-19

(Gwh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total
	16	17	18	19	20	21	22
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	3.25
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	44.85
Haryana	56.08	131.68	0.00	58.20	68.68	207.48	4766.21
Himachal Pradesh	0.00	59.55	0.00	0.00	0.00	508.73	1331.36
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	226.91	267.01
Punjab	0.00	390.08	75.49	6.14	40.34	1489.97	4594.95
Rajasthan	2395.88	0.00	44.13	58.58	0.00	1697.57	11420.95
Uttar Pradesh	0.00	239.32	9.24	34.35	89.78	336.15	12185.53
Uttarakhand	7.11	732.74	150.11	114.27	0.00	27.80	2620.22
Sub-Total (N R)	2459.07	1553.38	278.96	271.54	198.80	4494.62	37234.32
Chhattisgarh	114.11	22.64	0.00	0.00	0.00	59.49	24195.54
Gujarat	15.20	425.55	0.00	347.54	517.13	1600.59	23384.70
Madhya Pradesh	125.92	505.80	12.03	39.42	6606.85	1216.75	16928.50
Maharashtra	84.25	886.96	217.17	529.31	128.40	973.75	15935.38
Daman & Diu	0.00	0.00	0.00	0.00	0.00	18.90	35.29
D & N Haveli	17.20	13.33	0.00	0.00	301.20	513.16	1754.54
Goa	0.00	0.00	0.00	93.00	0.00	235.10	513.18
Sub-Total (W R)	356.68	1854.27	229.20	1009.27	7553.58	4617.73	82747.13
Andhra Pradesh	261.07	404.93	166.98	0.00	683.99	398.36	16234.83
Telangana	64.31	903.48	13.03	227.08	276.38	314.69	7662.98
Karnataka	215.94	462.68	0.00	144.10	1457.54	145.38	19584.46
Kerala	62.53	138.61	0.00	185.69	0.00	141.69	2493.12
Tamil Nadu	51.57	1343.55	348.62	1029.46	382.00	4760.95	18248.70
Puducherry	0.00	0.00	5.82	62.60	9.23	19.82	916.60
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total (S R)	655.42	3253.25	534.46	1648.94	2809.13	5780.89	65140.70
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	368.22
Jharkhand	47.89	0.00	0.00	0.00	0.00	0.00	8491.51
Odisha	1081.09	578.22	0.00	74.02	17.51	0.00	53049.55
West Bengal	256.09	76.48	11.98	11.17	0.00	128.86	6242.38
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)	1385.07	654.70	11.98	85.20	17.51	128.86	68151.66
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	87.29	0.00	0.00	0.00	0.00	1505.52
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	101.99	0.00	0.00	0.00	0.00	0.00	386.95
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)	101.99	87.29	0.00	0.00	0.00	0.00	1892.48
Total (All India)	4958.23	7402.89	1054.60	3014.95	10579.02	15022.10	255166.28

Table 5.9
CAPACITY WISE CLASSIFICATION OF ELECTRICITY GENERATED
BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF
1 MW & ABOVE
2018-19

Range of Installed Capacity (MW)	No. of Generating Industries	Installed Capacity of the Group		Gross Energy Generation of the Group	
		Aggregate (kW)	%age of Total Capacity	Aggregate (GWh)	%age of Total Generation
1.00MW & Upto 10.00 MW	5061	13630692	18.12	9453.67	4.44
10.00MW & Upto 20.00 MW	415	5983368	7.96	10595.85	4.97
20.00MW & Upto	208	5271908	7.01	12907.06	6.06
30.00MW & Upto 40.00 MW	85	3004167	3.99	7513.45	3.53
40.00MW & Upto 50.00 MW	55	2548913	3.39	8584.25	4.03
50.00MW & Upto 100.00 MW	134	9629713	12.80	36321.91	17.05
Over 100.00MW	93	35138365	46.72	127697.55	59.93
Total	6051	75207126	100.00	213073.73	100.00

Table 5.10
GROWTH OF INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & 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

Table 5.10 (Contd.)
GROWTH OF INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE

(MW)

As on	Hydro	Steam	Diesel @	Gas	Railways	Total
31.03.1984	2.61	2633.02	1602.49	60.05	68.53	4366.70
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

@ Includes RES

*Breakup not available

Table 5.11
GROWTH OF ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1MW & ABOVE

(GWh)

As on	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

Table 5.11 (Contd.)
GROWTH OF INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE

(GWh)

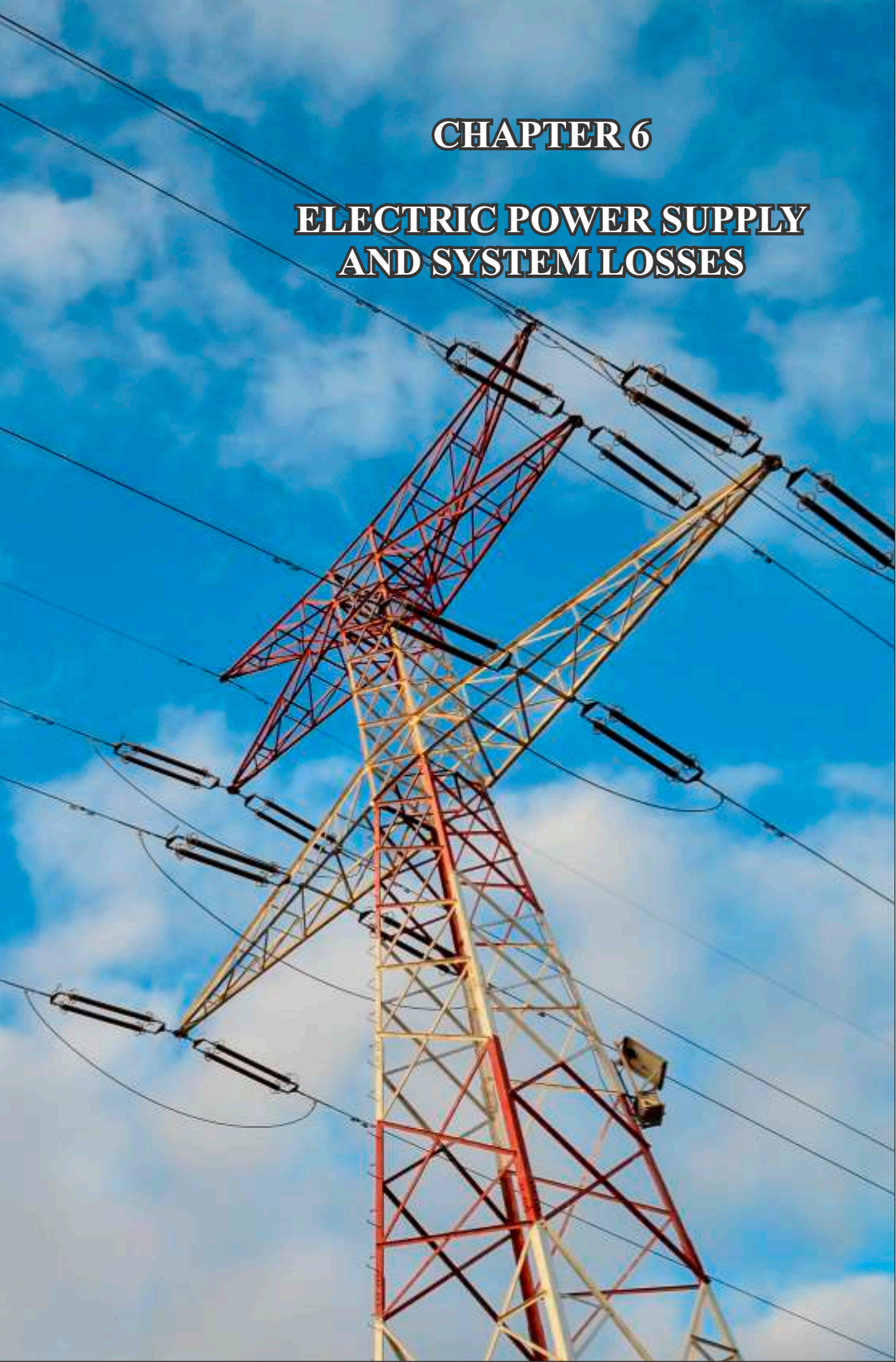
As on	Hydro	Steam	Diesel @	Gas	Railways	Total
1985-86	18.29	10226.83	2350.92	401.31	42.97	13040.32
1986-87	18.09	10910.02	2258.28	341.79	36.60	13564.78
1987-88	18.09	13737.16	2595.97	504.22	35.10	16890.54
1988-89	16.45	16314.23	2686.13	864.13	30.51	19911.45
1989-90	15.83	19110.46	2757.27	1313.29	29.07	23225.92
1990-91	14.89	20005.67	3216.27	1844.98	28.82	25110.63
1991-92	17.57	23409.35	3247.81	1905.24	22.52	28602.49
1992-93	16.54	24679.89	3828.01	2803.31	23.76	31351.51
1993-94	14.89	25413.58	3684.64	3149.48	22.45	32285.04
1994-95	14.89	27387.92	4234.01	3407.04	22.70	35066.56
1995-96	17.39	28751.69	4796.89	4576.25	23.85	38166.07
1996-97	28.84	29127.94	6619.01	5039.22	25.07	40840.08
1997-98	78.84	30683.70	7512.43	5775.66	26.96	44077.59
1998-99	80.38	31198.19	8202.80	8871.96	26.20	48379.53
1999-00	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

@ Includes RES

*Breakup not available

CHAPTER 6

ELECTRIC POWER SUPPLY AND SYSTEM LOSSES





CHAPTER 6

ELECTRIC POWER SUPPLY AND SYSTEM LOSSES

During the year 2018-19 gross electricity generation (utilities) was 1371779.48 GWh, out of which 83386.01 GWh representing 6.08% of gross generation was consumed in power station auxiliaries. Thus net generation available at the bus-bar was 1288393.47 GWh. Electricity purchased by public utilities from captive power plants was 23364.18 GWh and electricity imported from Bhutan was 4395.86 GWh. Thus the total electricity available for supply during the year was 1316153.51 GWh as compared to 1239708.16 GWh during the year 2017-18.

Electricity sold to various classes of consumers during the year 2018-19 was 1037517.93 GWh and electricity exported outside the country i.e. to Nepal, Bangladesh and Myanmar was 8468.94 GWh. The electricity lost in transformation, transmission and distribution system and electricity unaccounted worked out to 270166.64 GWh representing 20.66% of the total available electricity. Amongst all the regions percentage system losses were maximum in North-Eastern Region i.e. 28.59%. This was followed by Eastern Region with 24.74%, Western Region 21.47%, Northern Region with 21.17% and Southern Region with 17.10% 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
2018-19

Sl. No.	Item	Energy (GWh)	Percentage (%) of Sl. 1
1	Gross Energy Generated (Utilities)	1371779.48	100.00
2	Energy Used in Power Station Auxiliaries	83386.01	6.08
3	Net Energy at bus bars (1-2)	1288393.47	93.92
			Percentage (%) of sl. 4
4	Energy at bus bars (same as 3)	1288393.47	100.00
5	Energy purchased from Non-Utilities	23364.18	1.81
6	Energy Imported from other country	4395.86	0.34
7	Total Energy Available (4+5+6)	1316153.51	102.15
8	Energy sold to other countries	8468.94	0.66
9	Net Energy Available for Supply (7-8)	1307684.57	101.50
			Percentage (%) of sl. 10
10	Net Energy available for supply (same as 9)	1307684.57	100.00
11	*Energy sold to ultimate consumers	1037517.93	79.34
12	Energy loss in transformation, transmission and distribution and unaccounted for (10-11)	270166.64	20.66

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

Table 6.2
Regional Transmission Losses
Utilities
2018-19

Region	Energy Available in the Region (GWh)	Export to other Region (GWh)	Export to Nepal (GWh)	Export to Bangladesh (GWh)	Export to Myanmar (GWh)	Total Energy drawal by States/ Utilities	Transmission Losses (GWh)	Transmission Losses (%)
1	2	3	4	5	6	7	8 (2-3-4-5-6-7)	9 9((8/2)x100)
Northern Region	209595.54	19513.88	97.51	0.00	0.00	180935.74	9048.41	4.32
Western Region	252880.75	95284.23	0.00	0.00	0.00	147222.62	10373.89	4.10
Southern Region	145511.67	1406.16	0.00	0.00	0.00	138055.43	6050.09	4.16
Eastern Region	114354.30	39380.00	2676.05	4808.11	0.00	63490.18	3999.96	3.50
North Eastern Region	17886.18	4065.00	0.00	882.20	5.07	12139.02	794.89	4.44

Table 6.3
Regionwise Energy Generated, Purchased, Sold and Losses
Utilities
2018-19

Sl. No.	ITEM	NORTHERN	WESTERN	SOUTHERN	EASTERN	NORTH-EAST	ALL INDIA
1	Own Including IPP & others Ex-bus Generation (GWh)	194338.12	241304.20	196916.32	76544.09	3107.45	712210.18
2	Ex-bus import from cpp (GWh)	777.38	8680.73	11298.00	2580.39	27.67	23364.18
3	Energy available for drawal from grid including Import from other country (GWh)	190081.66	157596.51	144105.52	74974.30	13821.18	580579.17
4	Total Energy Available (GWh) (1+2+3)	385197.16	407581.45	352319.84	154098.78	16956.30	1316153.54
5	Energy Sold/Export to other countries (GWh)	97.51	0.00	0.00	7484.16	887.27	8468.94
6	Net Energy available for supply/Availability (4-5) Ex-bus (GWh)	385099.65	407581.45	352319.84	146614.62	16069.03	1307684.60
7	Energy sold to ultimate consumers (GWh)	303565.35	320056.02	292082.63	110338.83	11475.10	1037517.93
8	Energy loss in transformation, transmission and distribution and unaccounted for (GWh) (6-7)	81534.30	87525.44	60237.21	36275.79	4593.93	270166.67
9	Percentage loss (%) $(= (8/6) \times 100)$	21.17	21.47	17.10	24.74	28.59	20.66

Table 6.4
STATE-WISE SYSTEM LOSSES IN THE YEAR
2018-19

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	
							2018-19 (7*100/5)	2017-18
	GWh	GWh	GWh	GWh	GWh	GWh	%	%
1	2	3	4	5	6	7	8	9
Chandigarh	13.51	1838.41	0.00	1851.92	1535.45	316.47	17.09	13.45
Delhi	7007.26	26350.24	0.00	33357.49	29168.82	4188.67	12.56	17.38
Haryana	17425.61	35690.12	0.02	53115.75	41017.42	12098.32	22.78	28.24
Himachal	5859.60	4688.46	0.00	10548.06	9040.86	1507.20	14.29	21.78
J & K	5248.10	11415.51	0.00	16663.61	9633.20	7030.41	42.19	45.47
Punjab	32843.01	25912.12	24.88	58780.01	50119.80	8660.21	14.73	17.52
Rajasthan	55479.54	23982.96	523.28	79985.79	60151.43	19834.35	24.80	28.66
Uttar Pradesh	63279.48	52445.07	229.20	115953.75	91355.02	24598.73	21.21	23.19
Uttarakhand	7182.02	7661.26	0.00	14843.28	11543.34	3299.94	22.23	25.00
NORTHERN REGION	194338.12	189984.15	777.38	385099.65	303565.35	81534.30	21.17	24.49
Chhattisgarh	15894.19	8704.97	5068.85	29668.01	22210.21	7457.80	25.14	23.97
Gujarat	76785.94	42967.56	667.06	120420.56	95970.44	24450.13	20.30	17.90
Madhya Pradesh	38450.72	40252.91	39.48	78743.10	56972.24	21770.87	27.65	26.75
Maharashtra	110148.65	51815.07	2699.34	164663.06	132618.57	32044.49	19.46	17.85
Daman & Diu	18.94	2757.03	0.00	2775.97	2431.44	344.53	12.41	12.74
D & N Haveli	5.76	6784.21	0.00	6789.97	6065.98	723.99	10.66	13.97
Goa	0.00	4314.77	206.00	4520.77	3787.13	733.64	16.23	17.21
WESTERN REGION	241304.20	157596.51	8680.73	407581.45	320056.02	87525.44	21.47	19.89
Andhra Pradesh	46832.93	18975.85	1451.62	67260.40	55406.79	11853.61	17.62	16.07
Telangana	37454.64	29804.16	1286.86	68545.67	58365.62	10180.05	14.85	18.26
Karnataka	49808.04	22576.34	1914.53	74298.92	62405.45	11893.47	16.01	13.25
Kerala	8022.47	17508.45	82.01	25612.93	21413.72	4199.21	16.39	15.76
Tamilnadu	54531.15	52398.20	6562.99	113492.34	91788.33	21704.01	19.12	15.94
Puducherry	217.07	2842.50	0.00	3059.57	2653.82	405.75	13.26	17.93
Lakshadweep	50.03	0.00	0.00	50.03	48.91	1.12	2.24	3.56
SOUTHERN REGION	196916.32	144105.52	11298.00	352319.84	292082.63	60237.21	17.10	15.85
Bihar	487.88	30415.92	0.00	30903.80	20856.40	10047.40	32.51	30.29
Jharkhand	18985.66	6779.85	186.65	25952.16	21184.40	4767.76	18.37	16.27
Orissa	13457.72	14122.58	2198.17	29778.47	19372.82	10405.65	34.94	38.11
West Bengal	43299.08	15633.92	195.57	59128.57	48289.72	10838.85	18.33	22.20
Sikkim	28.10	537.88	0.00	565.97	380.81	185.16	32.72	35.54
A.& N. Islands	285.65	0.00	0.00	285.65	254.68	30.98	10.84	12.39
EASTERN REGION	76544.09	67490.14	2580.39	146614.62	110338.83	36275.79	24.74	26.06
Arunachal Pradesh	1.76	906.44	0.00	908.20	446.54	461.66	50.83	48.32
Assam	1375.68	8158.07	27.67	9561.42	7268.18	2293.24	23.98	24.60
Manipur	1.88	949.81	0.00	951.69	612.78	338.91	35.61	36.41
Meghalaya	977.39	965.23	0.00	1942.62	1105.02	837.60	43.12	35.08
Mizoram	39.24	505.98	0.00	545.22	407.76	137.46	25.21	24.23
Nagaland	87.17	768.95	0.00	856.12	679.14	176.99	20.67	19.67
Tripura	624.32	679.44	0.00	1303.76	955.69	348.07	26.70	29.89
NORTH EASTERN REGION	3107.45	12933.91	27.67	16069.03	11475.10	4593.93	28.59	27.87
All India	712210.18	572110.23	23364.18	1307684.60	1037517.93	270166.67	20.66	21.04
Export to Other Countries				8468.94				

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

ALL INDIA AUXILIARIES POWER CONSUMPTION % AGE

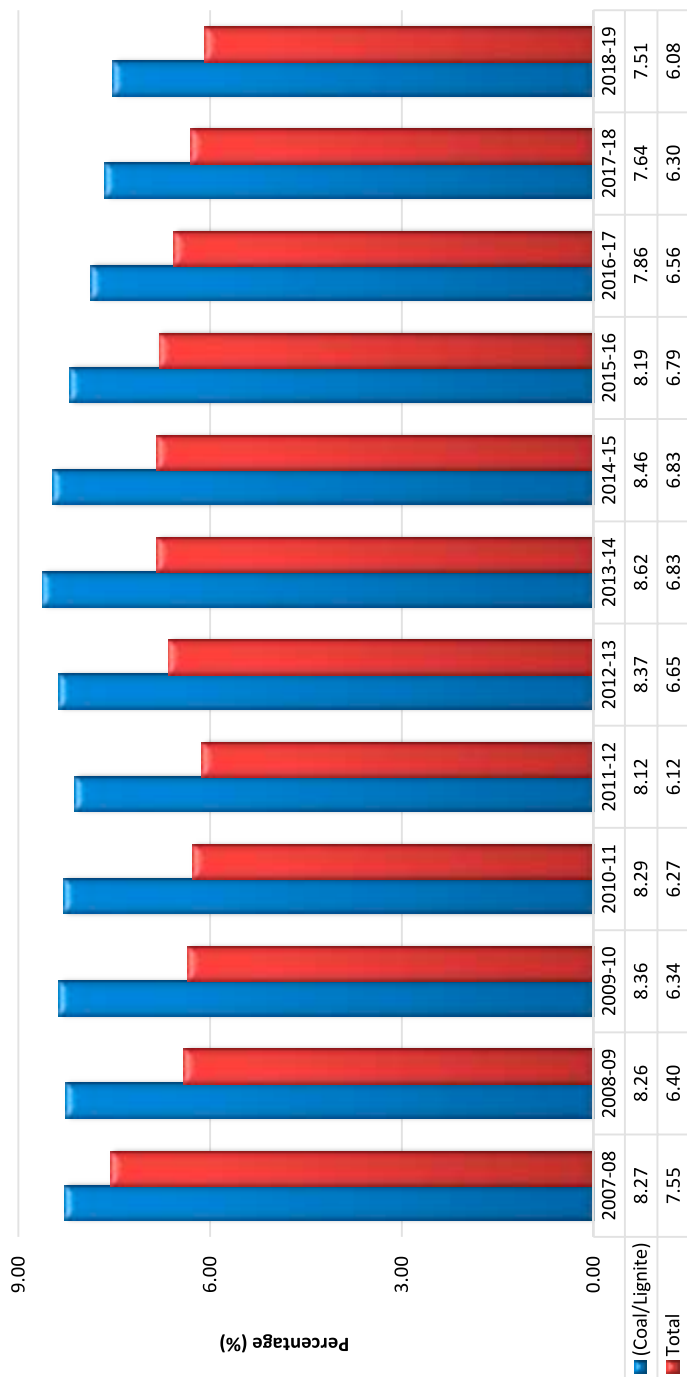


Table 6.5.0
AUXILIARY CONSUMPTION - ALL MODES
UTILITIES
2018-19

(GWh)

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	222.67	0.00	166.21	0.00	0.00	388.88
Haryana	42.05	1716.24	0.00	13.47	0.00	0.00	1771.76
Himachal Pradesh	69.76	0.00	0.00	0.00	0.00	1.06	70.81
Jammu & Kashmir	109.75	0.00	0.00	0.00	0.00	0.00	109.75
Punjab	74.31	2400.15	0.00	13.47	0.00	0.84	2488.77
Rajasthan	28.42	4319.00	0.00	61.39	0.00	2.06	4410.87
Uttar Pradesh	10.55	4385.34	0.00	0.00	0.00	0.29	4396.18
Uttarakhand	73.03	49.31	0.00	35.44	0.00	2.59	160.36
Central Sector	292.38	4966.77	0.00	116.75	1169.22	0.00	6545.12
NORTHERN REGION	700.24	18059.48	0.00	406.73	1169.22	6.84	20342.51
Chhattisgarh	0.77	5180.05	0.00	0.00	0.00	1.97	5182.79
Gujarat	3.99	5881.78	0.00	346.45	0.00	12.24	6244.46
Madhya Pradesh	12.36	4424.50	0.00	0.00	0.00	0.72	4437.58
Maharashtra	63.42	8069.40	0.00	108.21	0.00	6.00	8247.04
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D & N Haveli	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector	10.95	6091.71	0.00	200.10	1039.85	2.94	7345.55
WESTERN REGION	91.49	29647.44	0.00	654.76	1039.85	23.87	31457.42
Andhra Pradesh	9.04	3712.10	0.00	122.71	0.00	2.78	3846.64
Telangana	37.93	2046.66	0.00	0.00	0.00	1.22	2085.81
Karnataka	88.21	1867.04	0.00	0.00	0.00	3.68	1958.93
Kerala	30.06	0.00	0.28	0.00	0.00	2.62	32.96
Tamil Nadu	21.00	2832.09	0.00	202.39	0.00	11.66	3067.14
Puducherry	0.00	0.00	0.00	15.39	0.00	0.00	15.39
Lakshadweep	0.00	0.00	4.14	0.00	0.00	0.00	4.14
Central Sector	0.00	5444.88	0.00	0.03	1387.49	0.00	6832.41
SOUTHERN REGION	186.24	15902.79	4.43	340.52	1387.49	21.96	17843.42
Bihar	0.00	0.00	0.00	0.00	0.00	0.25	0.25
Jharkhand	0.12	998.76	0.00	0.00	0.00	0.00	998.89
Orissa	21.83	1198.95	0.00	0.00	0.00	0.11	1220.90
West Bengal	22.80	3206.46	0.00	0.00	0.00	1.42	3230.68
Sikkim	48.05	0.00	0.00	0.00	0.00	0.00	48.05
A. & N. Islands	0.00	0.00	6.31	0.00	0.00	0.62	6.93
Central Sector	44.69	7513.39	0.00	0.00	0.00	0.13	7558.21
EASTERN REGION	137.50	12917.57	6.31	0.00	0.00	2.52	13063.90
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	1.85	0.00	0.00	82.75	0.00	0.09	84.69
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	2.51	0.00	0.00	0.00	0.00	0.14	2.65
Mizoram	0.00	0.00	0.00	0.00	0.00	0.84	0.84
Nagaland	0.00	0.00	0.00	0.00	0.00	0.29	0.29
Tripura	0.00	0.00	0.00	5.92	0.00	0.31	6.23
Central Sector	37.28	255.40	0.00	291.25	0.00	0.12	584.05
NORTH EASTERN REGION	41.64	255.40	0.00	379.93	0.00	1.77	678.75
All India	1157.12	76782.68	10.74	1781.94	3596.56	56.97	83386.01

Table 6.5.1
TOTAL AUXILIARY CONSUMPTION REGION-WISE/STATE-WISE
UTILITIES
2018-19

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	13.51	13.51	0.00	0.00
Delhi	9011.11	8622.23	388.88	4.32
Haryana	28678.93	26907.17	1771.76	6.18
Himachal Pradesh	11453.14	11382.33	70.81	0.62
Jammu & Kashmir	5647.46	5537.71	109.75	1.94
Punjab	46601.63	44112.86	2488.77	5.34
Rajasthan	66863.21	62452.34	4410.87	6.60
Uttar Pradesh	70215.21	65819.03	4396.18	6.26
Uttarakhand	10967.24	10806.88	160.36	1.46
Central Sector	117814.13	111269.01	6545.12	5.56
NORTHERN REGION	367265.57	346923.06	20342.51	5.54
Chhattisgarh	68979.75	63796.96	5182.79	7.51
Gujarat	90699.27	84454.81	6244.46	6.88
Madhya Pradesh	69862.64	65425.06	4437.58	6.35
Maharashtra	128545.57	120298.53	8247.04	6.42
Daman & Diu	18.94	18.94	0.00	0.00
D & N Haveli	5.76	5.76	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	121917.95	114572.40	7345.55	6.02
WESTERN REGION	480029.88	448572.46	31457.42	6.55
Andhra Pradesh	63986.05	60139.41	3846.64	6.01
Telangana	39838.43	37752.62	2085.81	5.24
Karnataka	56494.24	54535.31	1958.93	3.47
Kerala	8054.62	8021.66	32.96	0.41
Tamil Nadu	60794.61	57727.47	3067.14	5.05
Puducherry	232.46	217.07	15.39	6.62
Lakshadweep	54.17	50.03	4.14	7.64
Central Sector	86137.93	79305.52	6832.41	7.93
SOUTHERN REGION	315592.51	297749.08	17843.42	5.65
Bihar	488.13	487.88	0.25	0.05
Jharkhand	13474.27	12475.38	998.89	7.41
Orissa	22199.18	20978.28	1220.90	5.50
West Bengal	38983.13	35752.45	3230.68	8.29
Sikkim	3018.74	2970.69	48.05	1.59
A. & N. Islands	182.58	175.65	6.93	3.79
Central Sector	113074.12	105515.91	7558.21	6.68
EASTERN REGION	191420.14	178356.24	13063.90	6.82
Arunachal Pradesh	1.76	1.76	0.00	0.00
Assam	1460.37	1375.68	84.69	5.80
Manipur	1.88	1.88	0.00	0.00
Meghalaya	980.04	977.39	2.65	0.27
Mizoram	40.08	39.24	0.84	2.10
Nagaland	87.46	87.17	0.29	0.33
Tripura	630.55	624.32	6.23	0.99
Central Sector	14269.24	13685.19	584.05	4.09
NORTH EASTERN REGION	17471.38	16792.63	678.75	3.88
All India	1371779.48	1288393.47	83386.01	6.08

Table 6.5.2
AUXILIARY CONSUMPTION FOR HYDRO POWER PLANTS
REGION-WISE/STATE-WISE
UTILITIES
2018-19

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	3840.51	3798.46	42.05	1.09
Himachal Pradesh	9165.22	9095.46	69.76	0.76
Jammu & Kashmir	5335.26	5225.51	109.75	2.06
Punjab	9143.63	9069.32	74.31	0.81
Rajasthan	3246.57	3218.15	28.42	0.88
Uttar Pradesh	1926.25	1915.70	10.55	0.55
Uttarakhand	7786.10	7713.07	73.03	0.94
Central Sector	34813.06	34520.68	292.38	0.84
NORTHERN REGION	75256.60	74556.36	700.24	0.93
Chhattisgarh	243.08	242.31	0.77	0.32
Gujarat	543.14	539.15	3.99	0.73
Madhya Pradesh	2028.35	2015.99	12.36	0.61
Maharashtra	5149.73	5086.31	63.42	1.23
Daman & Diu	0.00	0.00	0.00	0.00
D & N Haveli	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	1920.83	1909.88	10.95	0.57
WESTERN REGION	9885.13	9793.64	91.49	0.93
Andhra Pradesh	1433.88	1424.84	9.04	0.63
Telangana	3136.66	3098.73	37.93	1.21
Karnataka	12050.29	11962.08	88.21	0.73
Kerala	7320.21	7290.15	30.06	0.41
Tamil Nadu	5281.59	5260.59	21.00	0.40
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
SOUTHERN REGION	29222.63	29036.39	186.24	0.64
Bihar	0.00	0.00	0.00	0.00
Jharkhand	101.19	101.07	0.12	0.12
Orissa	6361.86	6340.03	21.83	0.34
West Bengal	1537.94	1515.14	22.80	1.48
Sikkim	2990.64	2942.59	48.05	1.61
A. & N. Islands	0.00	0.00	0.00	0.00
Central Sector	4512.21	4467.52	44.69	0.99
EASTERN REGION	15503.84	15366.34	137.50	0.89
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	372.72	370.87	1.85	0.50
Manipur	0.00	0.00	0.00	0.00
Meghalaya	929.53	927.02	2.51	0.27
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	3723.17	3685.89	37.28	1.00
NORTH EASTERN REGION	5025.42	4983.78	41.64	0.83
All India	134893.62	133736.50	1157.12	0.86

Table 6.5.3
AUXILIARY CONSUMPTION FOR COAL&LIGNITE POWER PLANTS
REGION-WISE/STATE-WISE
UTILITIES
2018-19

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	3711.84	3489.17	222.67	6.00
Haryana	23820.53	22104.29	1716.24	7.20
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	34650.74	32250.59	2400.15	6.93
Rajasthan	51290.48	46971.48	4319.00	8.42
Uttar Pradesh	62636.38	58251.04	4385.34	7.00
Uttarakhand	821.93	772.62	49.31	6.00
Central Sector	67845.67	62878.90	4966.77	7.32
NORTHERN REGION	244777.57	226718.09	18059.48	7.38
Chhattisgarh	67791.57	62611.52	5180.05	7.64
Gujarat	67661.25	61779.47	5881.78	8.69
Madhya Pradesh	60193.80	55769.30	4424.50	7.35
Maharashtra	104435.42	96366.02	8069.40	7.73
Daman & Diu	0.00	0.00	0.00	0.00
D & N Haveli	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	98880.48	92788.77	6091.71	6.16
WESTERN REGION	398962.52	369315.08	29647.44	7.43
Andhra Pradesh	43671.10	39959.00	3712.10	8.50
Telangana	29670.52	27623.86	2046.66	6.90
Karnataka	22786.41	20919.37	1867.04	8.19
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	36034.44	33202.35	2832.09	7.86
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	70488.21	65043.33	5444.88	7.72
SOUTHERN REGION	202650.68	186747.89	15902.79	7.85
Bihar	0.00	0.00	0.00	0.00
Jharkhand	13352.12	12353.36	998.76	7.48
Orissa	15197.78	13998.83	1198.95	7.89
West Bengal	35958.24	32751.78	3206.46	8.92
Sikkim	0.00	0.00	0.00	0.00
A.& N. Islands	0.00	0.00	0.00	0.00
Central Sector	108542.20	101028.81	7513.39	6.92
EASTERN REGION	173050.34	160132.77	12917.57	7.46
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	2824.21	2568.81	255.40	9.04
NORTH EASTERN REGION	2824.21	2568.81	255.40	9.04
All India	1022265.32	945482.64	76782.68	7.51

Table 6.5.4
AUXILIARY CONSUMPTION FOR DIESEL POWER PLANTS
REGION WISE/STATE - WISE
UTILITIES
2018-19

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	0.00	0.00	0.00	0.00
NORTHERN REGION	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
Daman & Diu	0.00	0.00	0.00	0.00
D & N Haveli	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
WESTERN REGION	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	4.07	3.79	0.28	6.99
Tamil Nadu	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	53.05	48.91	4.14	7.81
Central Sector	0.00	0.00	0.00	0.00
SOUTHERN REGION	57.12	52.69	4.43	7.75
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
A.& N. Islands	157.98	151.67	6.31	3.99
Central Sector	0.00	0.00	0.00	0.00
EASTERN REGION	157.98	151.67	6.31	3.99
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
NORTH EASTERN REGION	0.00	0.00	0.00	0.00
All India	215.10	204.36	10.74	4.99

Table 6.5.5
AUXILIARY CONSUMPTION FOR GAS POWER PLANTS
REGION WISE / STATE -WISE
UTILITIES
2018-19

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	5011.61	4845.40	166.21	3.32
Haryana	362.05	348.58	13.47	3.72
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	362.05	348.58	13.47	3.72
Rajasthan	1019.01	957.62	61.39	6.02
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	1254.24	1218.80	35.44	2.83
Central Sector	3354.21	3237.46	116.75	3.48
NORTHERN REGION	11363.17	10956.44	406.73	3.58
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	8723.43	8376.98	346.45	3.97
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	3985.51	3877.30	108.21	2.72
Daman & Diu	0.00	0.00	0.00	0.00
D & N Haveli	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	8538.93	8338.83	200.10	2.34
WESTERN REGION	21247.87	20593.11	654.76	3.08
Andhra Pradesh	4750.71	4628.00	122.71	2.58
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	2904.05	2701.66	202.39	6.97
Puducherry	229.88	214.49	15.39	6.70
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	0.81	0.78	0.03	4.00
SOUTHERN REGION	7885.45	7544.93	340.52	4.32
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
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
EASTERN REGION	0.00	0.00	0.00	0.00
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	1066.92	984.17	82.75	7.76
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	587.57	581.65	5.92	1.01
Central Sector	7682.76	7391.51	291.25	3.79
NORTH EASTERN REGION	9337.25	8957.32	379.93	4.07
All India	49833.74	48051.80	1781.94	3.58

Table 6.5.6
AUXILIARY CONSUMPTION FOR NUCLEAR POWER PLANTS
REGION WISE / STATE-WISE
UTILITIES
2018-19

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	11196.17	10026.95	1169.22	10.44
NORTHERN REGION	11196.17	10026.95	1169.22	10.44
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
D & N Haveli	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Central Sector	11766.35	10726.50	1039.85	8.84
WESTERN REGION	11766.35	10726.50	1039.85	8.84
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	14850.08	13462.59	1387.49	9.34
SOUTHERN REGION	14850.08	13462.59	1387.49	9.34
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
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
EASTERN REGION	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
NORTH EASTERN REGION	0.00	0.00	0.00	0.00
All India	37812.60	34216.04	3596.56	9.51

CHAPTER 7

OPERATING DATA UTILITIES FUEL CONSUMPTION







CHAPTER 7

OPERATING DATA UTILITIES FUEL CONSUMPTION

There are 178 Nos. of Coal fired thermal stations operating in the country as on 31.03.2019. CEA is monitoring fuel consumption of 168 stations having Installed Capacity 192945 MW. For the year 2018-19, the Coal consumption of 168 stations was 628.94 Million Tonnes.

THERMAL EFFICIENCY

The total numbers of Coal/Lignite/Multi-fuel Power Stations ending March 2019 were 190 having an aggregate installed capacity of 200705 MW. Out of these, 178 Stations are coal fired and 12 are of Lignite fired.

CEA has received actual data of 145 Thermal Power Stations. These Thermal Power Stations have capacity of 172806 MW. On analyzing, it was found that 1.38% stations are operating below 25%, 8.97% stations are operating at 25% to 30%, 31.72% stations are operating at 30% to 35% and 57.93% stations are operating at above 35% efficiency.

PLANT LOAD FACTOR

Under Private Sector, Gujarat recorded the highest PLF of 75.35%. All India Plant Load factors of Central Sector Thermal Power Stations were 72.64% and the All India Plant Load Factors of State and Private Sector of Thermal Power Stations were 57.81% and 55.20% respectively. All India PLF of all Nuclear Power Stations in the country was 63.67%.

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 which was followed by Maharashtra State Electricity Distribution Co. Ltd., Punjab State Power Corporation Ltd. and Kerala State Electricity Board.

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
2018-19

State/UTs	Coal/Lignite based Power Plants						
	COAL	FURNACE	LIGHT DIESEL	LSHS/HHS	GAS	LIGNITE	Generation
	000' MT	OIL (KL)	OIL/HSD(KL)	(KL)	(MMSCM)	000'(MT)	(GWh)
Delhi	0	0	0	0	0	0	0
Haryana	11255	1058	7295	0	0	0	17451
Himachal Pradesh	0	0	0	0	0	0	0
Jammu & Kashmir	0	0	0	0	0	0	0
Punjab	15828	12463	0	0	0	0	26364
Rajasthan	21412	6691	8346	1635	0	5880	45319
Uttar Pradesh	36899	20688	3772	0	0	0	58527
Uttarakhand	0	0	0	0	0	0	0
Central Sector (NR)	40717	12140	15905	0	0	1235	67846
Sub-Total (NR)	126111	53039	35318	1635	0	7115	215507
Chhattisgarh	45280	11290	6710	0	0	0	67792
Gujarat	39130	32075	7174	604	0	7071	81752
Madhya Pradesh	49776	12529	12061	0	0	0	80742
Maharashtra	65489	4926	73282	0	438	0	99068
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)	64314	18227	16500	0	0	0	98880
Sub-Total (WR)	263989	79047	115727	604	438	7071	428234
Andhra Pradesh	28710	14504	2055	0	0	0	43671
Telangana	13048	16324	5591	0	0	0	29671
Karnataka	23696	18889	4442	0	589250	0	22786
Kerala	0	0	0	0	0	0	0
Tamil Nadu	19860	10772	4064	1583	0	1362	36034
Puducherry	0	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0	0
Central Sector (SR)	33842	37993	10607	0	0	21440	70488
Sub-Total (SR)	119157	98482	26759	1583	589250	22802	202651
Bihar	0	0	0	0	0	0	0
Jharkhand	8555	5000	1377	0	0	0	13352
Orissa	11387	0	2808	0	0	0	15198
West Bengal	23607	0	34684	0	0	0	35958
Sikkim	0	0	0	0	0	0	0
A. & N. Islands	0	0	0	0	0	0	0
Central Sector (ER)	74546	35332	20632	0	0	0	108542
Sub-Total (ER)	118095	40332	59501	0	0	0	173050
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)	1587	0	1821	0	0	0	2824
Sub-Total (NER)	1587	0	1821	0	0	0	2824
Total (All India)	628939	270900	239126	3822	589688	36988	1022265

* DVC is included in Central Sector

Table 7.1(A)
CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION
IN THERMAL POWER STATIONS
STATE-WISE BY KIND OF FUELS
2018-19

State/UTs	Gas based Power Plants				Diesel Power Plants		
	Natural Gas	H.S.D.	Naptha	Generation	LSHS	Diesel Oil	Generation
	(MMSCM)	(Kilo Ltrs.)	(Kilo Ltrs.)	(GWh)	(KL)	(Kilo Ltrs.)	(GWh)
Delhi	1305	0	0	5736	0	0	0
Haryana	0	0	0	0	0	0	0
Himachal Pradesh	0	0	0	0	0	0	0
Jammu & Kashmir	0	0	0	0	0	0	0
Punjab	0	0	0	0	0	0	0
Rajasthan	419	2	0	1019	0	0	0
Uttar Pradesh	0	0	0	0	0	0	0
Uttarakhand	261	0	0	1254	0	0	0
Central Sector (NR)	768	9338	4136	3354	0	0	0
Sub-Total (NR)	2754	9340	4136	11363	0	0	0
Chhattisgarh	0	0	0	0	0	0	0
Gujarat	1624	0	2767	8723	0	0	0
Madhya Pradesh	0	0	0	0	0	0	0
Maharashtra	948	0	0	3986	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)	1778	101	3945	8539	0	0	0
Sub-Total (WR)	4349	101	6712	21248	0	0	0
Andhra Pradesh	1044	13	3427	4751	0	0	0
Telangana	0	0	0	0	0	0	0
Karnataka	0	0	0	0	0	0	0
Kerala	0	0	0	0	372	55	4
Tamil Nadu	673	0	0	2904	0	0	0
Puducherry	65	0	0	230	0	0	0
Lakshadweep	0	0	0	0	0	14745	50
Central Sector (SR)	0	0	0	1	0	0	0
Sub-Total (SR)	1782	13.0	3427	7885	372	14800	54
Bihar	0	0	0	0	0	0	0
Jharkhand	0	0	0	0	0	0	0
Orissa	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	93361	158
Central Sector (ER)	0	0	0	0	0	0	0
Sub-Total (ER)	0	0	0	0	0	93361	158
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	464	0	0	1067	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	269	0	0	588	0	0	0
Central Sector (NER)	1694	0	0	7683	0	0	0
Sub-Total (NER)	2427	0	0	9337	0	0	0
Total (All India)	11312	9454	14275	49834	372	108161	212

MMSCM:-Million Metric Standard Cubic Metre.

Table 7.2
CLASSIFICATION OF STEAM TYPE ELECTRICITY GENERATING STATIONS
EFFICIENCY-WISE
2018-19

Thermal Efficiency	Percentage(%) of Generating Stations
Up to 25%	1.38
Above 25% & up to 30%	8.97
Above 30% & up to 35%	31.72
Above 35%	57.93
Total	100.00

* Efficiency has been worked out on the basis of data available for 145 thermal stations.

ALL INDIA THERMAL EFFICIENCY OF COAL & LIGNITE BASED PLANTS

Year	(%)
2012-13	33.84
2013-14	34.32
2014-15	34.68
2015-16	34.94
2016-17	35.11
2017-18	35.35
2018-19	35.62

Table 7.3
SALIENT OPERATING DATA FOR COAL/LIGNITE BASED ELECTRICITY
GENERATING PLANTS
(UTILITIES)
2018-19

Sl. No.	Item	Coal	Lignite	Furnace Oil	Diesel	LSHS & HHS
1	Fuel Consumption of Coal/Lignite Power Stations.	(MMT)	(MMT)	(K.Ltrs.)	(K.Ltrs.)	(K.Ltrs.)
	2008-09	351	25	1351012	254037	384896
	2009-10	363	27	1007110	256251	133320
	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
2	Average Calorific Value	(kcal/kg)	(kcal/kg)	(kcal/litr)	(kcal/litr)	(kcal/litr)
	2008-09	3580	2689	10359	9810	10362
	2009-10	3670	2719	10274	9787	10353
	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
3	Specific Fuel Consumption	(kg/kWh)	(kg/kWh)			
	2008-09	0.72	1.13	N.A.	N.A.	N.A.
	2009-10	0.7	1.09	N.A.	N.A.	N.A.
	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.

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

Table 7.4
ALL INDIA PEAK ELECTRICITY DEMAND/PEAK MET STATE-WISE
2018-19

State/UTs	Peak Demand	Peak Met	Demand Not Met	
	(MW)	(MW)	(MW)	%
Chandigarh	369	369	0	0.00
Delhi	7,016	7,016	0	0.00
Haryana	10,270	10,270	0	0.00
Himachal Pradesh	1,700	1,700	0	0.00
Jammu & Kashmir	3,080	2,464	616	20.00
Punjab	12,638	12,638	0	0.00
Rajasthan	13,276	13,276	0	0.00
Uttar Pradesh	20,498	20,062	436	2.13
Uttarakhand	2,216	2,216	0	0.00
NORTHERN REGION	63,166	61,726	1440	2.28
Chhattisgarh	4,444	4,270	174	3.92
Gujarat	17,053	16,963	90	0.53
Madhya Pradesh	13,815	13,815	0	0.00
Maharashtra	23,864	23,254	610	2.56
Daman & Diu	357	356	1	0.21
Dadra & Nagar Haveli	816	815	1	0.07
Goa	596	596	0	0.00
WESTERN REGION	56,675	55,821	853	1.51
Andhra Pradesh	9,459	9,453	6	0.06
Telangana	10,815	10,815	0	0.00
Karnataka	12,877	12,877	0	0.00
Kerala	4,245	4,228	17	0.41
Tamil Nadu	15,483	15,448	35	0.23
Puducherry	440	421	19	4.26
Lakshadweep #	8	8	0	0.00
SOUTHERN REGION	49,623	49,534	89	0.18
Bihar	5,115	5,084	31	0.61
DVC	3,100	3,098	2	0.06
Jharkhand	1,339	1,291	48	3.58
Orissa	5,357	5,357	0	0.00
West Bengal	9,130	9,123	7	0.08
Sikkim	106	106	0	0.00
Andaman Nicobar #	58	54	4	6.90
EASTERN REGION	23,141	22,733	408	1.76
Arunachal Pradesh	150	148	2	1.22
Assam	1865	1809	56	3.02
Manipur	219	216	3	1.22
Meghalaya	374	372	1	0.39
Mizoram	121	119	2	1.68
Nagaland	156	138	18	11.63
Tripura	298	293	5	1.72
NORTH EAST REGION	2,967	2,850	117	3.93
ALL INDIA	177,022	175,528	1494	0.84

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

Table 7.5
MANPOWER ENGAGED IN STATE POWER
CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2019 (AS REPORTED)

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory & Officers	Technicians & Operating Staff	Non-Technical	Total (Regular) (2 to 6)
1	2	3	4	5	6	7
NORTHERN REGION						
(1) Chandigarh	0	42	91	716	200	1049
(2) Delhi						
(a) IPGCL+PPCL	13	250	131	355	260	1009
(b) Delhi Transco Ltd.	NA	NA	NA	NA	NA	NA
(3) Haryana						
(a) HPGCL	2	524	234	897	480	2137
(b) Uttar Haryana BVNL	13	331	0	0	17849	18193
(c) Dakshin Haryana BVN	10	241	1045	5695	1816	8807
(4) Himachal Pradesh SEBL	20	16	13150	0	609	13795
(5) J&K PDC(R)	NA	NA	NA	NA	NA	NA
(6) Punjab						
(a) Punjab State Power Corpn. Ltd	1857	6602	22692	0	4208	35359
(b) Punjab State Transmission Corpn. Ltd	7	329	547	1450	601	2934
(7) Rajasthan						
(a) RRVUNL	10	1341	892	1394	662	4299
(b) RRVPNL	9	3120	293	3878	793	8093
(c) Jaipur VVN Ltd.	NA	4023	1062	12705	NA	17790
(d) Ajmer VVN Ltd.	7	434	1074	11600	2596	15711
(e) Jodhpur VVN Ltd.	8	392	1034	10596	2625	14655
(8) Uttar Pradesh						
(a) UPRVUNL	22	1354	996	2964	1519	6855
(b) MVVNL(Lucknow UP)	NA	NA	NA	NA	NA	NA
(c) DVVNL(Agra UP)	NA	NA	NA	NA	NA	NA
(d) KESCO(KANPUR)	NA	NA	NA	NA	NA	NA
(e) Pur.VVNL(Varanasi UP)	NA	NA	NA	NA	NA	NA
(f) Paschi.VVNL(Meerut UP)	NA	NA	NA	NA	NA	NA
(g) UPJVUNL	3	87	58	385	105	638
(h) UPPCL	80	2688	3423	18628	7141	31960
(9) Uttarakhand						
(a) UJVNL	NA	NA	NA	NA	NA	NA
(b) PTCUL	14	248	278	113	149	802
(c) UPCL	13	322	275	1295	874	2779

Table 7.5 (Contd.)
MANPOWER ENGAGED IN STATE POWER
CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2019 (AS REPORTED)

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory & Officers	Technicians & Operating Staff	Non-Technical	Total (Regular) (2 to 6)
1	2	3	4	5	6	7
WESTERN REGION						
(10) Chhattisgarh						
(a) Chhattisgarh Power Generation Co. Ltd.	15	931	1361	354	704	3365
(b) Chhattisgarh State Power Trans. Co. Ltd.	NA	NA	NA	NA	NA	NA
(c) Chhattisgarh State Distribution Co. Ltd.	16	645	534	7671	2461	11327
(11) Gujarat						
(a) Guj. State Energy Gen. Ltd.	NA	NA	NA	NA	NA	NA
(b) Guj. Energy Trans Corporation	5	797	950	8949	1495	12196
(c) Madhya Guj.Vij.Co.Ltd.	2	275	369	3895	2697	7238
(d) Dakshin Guj.Vij.Co.Ltd.	2	698	801	3018	2467	6986
(e) Uttar Guj.Vij.Co.Ltd.	3	743	743	4323	2898	8710
(f) Pachim Guj.Vij.Co.Ltd.	2	0	1505	0	4525	6032
(g) Gujrat Mineral Dev.Corpn.	10	38	42	20	60	170
(12) Madhya Pradesh						
(a) MPPGCL	7	1135	533	2063	1182	4920
(b) MPPTCL	2	479	552	1916	907	3856
(c) MPMKVCL, Bhopal	4	469	746	4460	1973	7652
(d) MPPKVCL, Indore	5	440	644	4815	2074	7978
(e) MPPKVCL, Jabalpur	1	397	505	5352	2296	8551
(13) Maharashtra						
(a) Maharashtra State Power Gen. Co. Ltd.	NA	NA	NA	NA	NA	NA
(b) Maharashtra State Elect. Trans. Co. Ltd.	NA	NA	NA	NA	NA	NA
(c) MSEDCL	52	461	7740	59887	12221	80361
(d) BEST	6	1046	307	4215	1352	6926
(14) Goa	1	177	307	4314	1547	6346
(15) Dadra & Nagar Haveli	2	6	5	34	15	62
(16) Daman & Diu	0	0	9	157	71	237

N.A:- Information not available.

Table 7.5 (Contd.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/UNDERTAKINGS
AS ON 31.03.2019 (AS REPORTED)

R E G U L A R						
Name of the Board/Undertaking	Manage- rial and higher executive	Techni- cal & Scien- tific Officers	Techni- cal Supervi- sory & Officers	Techni- cians & Operating Staff	Non- Techni- cal	Total (Regular) (2 to 6)
1	2	3	4	5	6	7
SOUTHERN REGION						
(17) Andhra Pradesh						
(a) APGENCO	16	2132	149	2849	746	5892
(b) APTRANSCO	13	1518	14	244	313	2102
(c) South Power Dis. Co. of AP Ltd.	13	558	1682	9233	4280	15766
(d) Eastern Power Dis. Co. of AP Ltd.	11	813	441	4615	1714	7594
(e) APPDCL	2	216	0	62	38	318
(18) Telangana						
(a) Telangana Transco	20	1389	17	183	483	2092
(b) TSGENCO	21	2210	79	3176	832	6318
(c) TSNPDCL	18	1689	0	4324	1479	7510
(d) TSSPDCL	28	580	1766	4420	2602	9396
(19) Karnataka						
(a) KPTCL	6	2145	1841	4982	1291	10265
(b) KPCL	21	1836	1590	0	458	3905
(c) Hubli Elec. Supply Co. Ltd.	2	45	906	5914	2945	9812
(d) Gulbarga Elec. Supply Co. Ltd.	4	442	219	5546	1054	7265
(e) Bangalore Elec. Supply Co. Ltd.	8	1072	614	9600	3624	14918
(f) Mangalore Elec. Supply Co. Ltd.	5	393	258	3716	1116	5488
(g) Chamundeshwari Elec. Supply Corpn. Ltd.	4	400	215	4742	1501	6862
(h) Thrissur Electricity Department	NA	NA	NA	NA	NA	NA
(20) Kerala SEB	17	3195	9036	14540	6203	32991
(21) Tamil Nadu Gen. & Dist. Corpn. Ltd.	61	9959	1317	44892	29651	85880
(22) PUDDICHERRY+PPCL	0	72	198	1555	650	2475
(23) Lakshdweep	0	2	43	208	84	337
EASTERN REGION						
(24) Bihar						
(a) Bihar SPHCL	NA	NA	NA	NA	NA	NA
(b) BSPGCL	NA	NA	NA	NA	NA	NA
(c) BSPTCL	NA	NA	NA	NA	NA	NA
(d) South Bihar PDCL	NA	NA	NA	NA	NA	NA
(e) North Bihar PDCL	10	519	747	2176	903	4355
(25) Jharkhand						
(a) Jharkhand Urja Utpadan Nigam Ltd.	NA	NA	NA	NA	NA	NA
(b) Jharkhand Bijili Vitran Nigam Ltd.	10	501	0	2403	544	3458
(c) Tenughat Vidyut Nigam Ltd.	2	139	45	352	156	694

Table 7.5 (Contd.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2019 (AS REPORTED)

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory & Officers	Technicians & Operating Staff	Non-Technical	Total (Regular) (2 to 6)
1	2	3	4	5	6	7
(26) Odisha						
(a) GRIDCO/OPTCL	15	823	158	1396	550	2942
(b) OPGCL	NA	NA	NA	NA	NA	NA
(c) OHPCL	4	344	23	818	271	1460
(d) NESCO	6	182	143	1692	429	2452
(e) CESCO	18	362	157	3613	908	5058
(f) SOUTHCO	2	222	80	1308	607	2219
(g) WESCO	2	214	196	1845	495	2752
(27) West Bengal						
(a) WBPCL	17	1608	813	911	660	4009
(b) WBSETCL	17	454	467	1006	354	2298
(c) WBSED Co. Ltd.	24	1510	425	4467	4885	11311
(d) Durgapur Projects Ltd.	NA	NA	NA	NA	NA	NA
NORTH EASTERN REGION						
(28) Arunachal Pradesh	4	130	20	106	260	520
(29) Assam						
(a) APGCL	3	378	78	138	292	889
(b) APDCL	NA	NA	NA	NA	NA	NA
(c) AEGCL	4	563	0	548	396	1511
(30) Meghalaya						
(a) MPGCL	NA	NA	NA	NA	NA	NA
(b) MECL	10	415	308	1419	1039	3191
(31) Mizoram	NA	NA	NA	NA	NA	NA
(32) Manipur SPCL+Manipur SPDCL	2	145	336	1737	745	2965
(33) Nagaland	3	104	269	1439	1047	2862
(34) Tripura State Electricity Corpn. Ltd.	NA	NA	NA	NA	NA	NA
Total	2646	70360	89578	340289	159037	661910

N.A:- Information not available.

Table 7.5 (Contd.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2019 (AS REPORTED)

NON 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	0	0	0	0	1049
(2) Delhi					
(a) IPGCL+PPCL	0	21	0	21	1030
(b) Delhi Transco Ltd.	NA	NA	NA	NA	NA
(3) Haryana					
(a) HPGCL	0	0	0	0	2137
(b) Uttar Haryana BVNL	0	3099	0	3099	21292
(c) Dakshin Haryana BVN	0	5584	0	5584	14391
(4) Himachal Pradesh SEBL	3259	192	2685	6136	19931
(5) J&K PDC(R)	NA	NA	NA	NA	NA
(6) Punjab					
(a) Punjab State Power Corpn. Ltd	0	7084	0	7084	42443
(b) Punjab State Transmission Corpn. Ltd	0	494	4	498	3432
(7) Rajasthan					
(a) RRVUNL	0	0	2	2	4301
(b) RRVPNL	0	0	0	0	8093
(c) Jaipur VVN Ltd.	0	0	0	0	17790
(d) Ajmer VVN Ltd.	0	4	0	4	15715
(e) Jodhpur VVN Ltd.	0	0	0	0	14655
(8) Uttar Pradesh					
(a) UPRVUNL	0	0	0	0	6855
(b) MVVNL(Lucknow UP)	NA	NA	NA	NA	NA
(c) DVVNL(Agra UP)	NA	NA	NA	NA	NA
(d) KESCO(KANPUR)	NA	NA	NA	NA	NA
(e) Pur.VVNL(Varanasi UP)	NA	NA	NA	NA	NA
(f) Paschi.VVNL(Meerut UP)	NA	NA	NA	NA	NA
(g) UPJVUNL	0	0	0	0	638
(h) UPPCL	0	0	0	0	31960
(9) Uttarakhand					
(a) UJVNL	NA	NA	NA	NA	NA
(b) PTCUL	0	0	0	0	802
(c) UPCL	0	3937	0	3937	6716

Table 7.5 (Contd.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS
AS ON 31.03.2019 (AS REPORTED)

NON 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.	152	533	0	685	4050
(b) Chhattisgarh State Power Trans. Co. Ltd.	NA	NA	NA	NA	NA
(c) Chhattisgarh State Distribution Co. Ltd.	221	728	0	949	12276
(11) Gujarat					
(a) Guj. State Elect Gen. Corporation Ltd.	NA	NA	NA	NA	NA
(b) Guj. Energy Trans Corporation	1160	0	0	1160	13356
(c) Madhya Guj.Vij.Co.Ltd.	597	0	0	597	7835
(d) Dakshin Guj.Vij.Co.Ltd.	0	0	0	0	6986
(e) Uttar Guj.Vij.Co.Ltd.	1301	0	0	1301	10011
(f) Pachim Guj.Vij.Co.Ltd.	1211	0	0	1211	7243
(g) Gujrat Mineral Dev.Corpn.	12	0	0	12	182
(12) Madhya Pradesh					
(a) MPPGCL	0	0	0	0	4920
(b) MPPTCL	0	562	1	563	4419
(c) MPMKVVCL, Bhopal	0	0	0	0	7652
(d) MPPKVVCL, Indore	563	11491	20	12074	20052
(e) MPPKVVCL, Jabalpur	1750	9	110	1869	10420
(13) Maharashtra					
(a) Maharashtra State Power Gen. Co. Ltd.	NA	NA	NA	NA	NA
(b) Maharashtra State Elect. Trans. Co. Ltd.	NA	NA	NA	NA	NA
(c) MSEDCL	0	0	0	0	80361
(d) BEST	55	0	738	793	7719
(14) Goa	4	0	0	4	6350
(15) Dadra & Nagar Haveli	0	293	0	293	355
(16) Daman & Diu	0	37	297	334	571

N.A:- Information not available.

Table 7.5 (Contd.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/
UNDERTAKINGS
AS ON 31.03.2019 (AS REPORTED)

NON 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					
(17) Andhra Pradesh					
(a) APGENCO	14	0	0	14	5906
(b) APTRANSCO	0	6204	0	6204	8306
(c) South Power Dis. Co. of AP Ltd.	1754	11682	0	13436	29202
(d) Eastern Power Dis. Co. of AP Ltd.	0	4010	0	4010	11604
(e) APPDCL	31	0	1087	1118	1436
(18) Telangana					
(a) Telangana Transco	0	4359	0	4359	6451
(b) TSGENCO	0	0	0	0	6318
(c) TSNPDCL	0	4339	0	4339	11849
(d) TSSPDCL	0	10329	0	10329	19725
(19) Karnataka					
(a) KPTCL	0	0	7618	7618	17883
(b) KPCL	263	0	0	263	4168
(c) Hubli Elec. Supply Co. Ltd.	0	0	0	0	9812
(d) Gulbarga Elec. Supply Co. Ltd.	0	812	0	812	8077
(e) Bangalore Elec. Supply Co. Ltd.	52	0	0	52	14970
(f) Mangalore Elec. Supply Co. Ltd.	0	0	0	0	5488
(g) Chamundeshwari Elec. Supply Corpn. Ltd.	0	0	0	0	6862
(h) Thrissur Electricity Department	NA	NA	NA	NA	NA
(20) Kerala SEB	2368	0	0	2368	35359
(21) Tamil Nadu Gen. & Dist. Corpn. Ltd.	0	0	0	0	85880
(22) PUDDICHERRY+PPCL	0	380	0	380	2855
(23) Lakshdweep	0	0	0	0	337
EASTERN REGION					
(24) Bihar					
(a) Bihar SPHCL	NA	NA	NA	NA	NA
(b) BSPGCL	NA	NA	NA	NA	NA
(c) BSPTCL	NA	NA	NA	NA	NA
(d) South Bihar PDCL	NA	NA	NA	NA	NA
(e) North Bihar PDCL	0	723	0	723	5078
(25) Jharkhand					
(a) Jharkhand Urja Utpadan Nigam Ltd.	NA	NA	NA	NA	NA
(b) Jharkhand Bijili Vitran Nigam Ltd.	0	0	0	0	3458
(c) Tenughat Vidyut Nigam Ltd.	0	59	0	59	753

Table 7.5 (Contd.)
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/
UNDERTAKINGS
AS ON 31.03.2019 (AS REPORTED)

NON REGULAR					
Name of the Board/Undertaking	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
(26) Odisha					
(a) GRIDCO/OPTCL	0	0	0	0	2942
(b) OPGCL	NA	NA	NA	NA	NA
(c) OHPCL	0	0	86	86	1546
(d) NESCO	35	0	0	35	2487
(e) CESCO	108	508	427	1043	6101
(f) SOUTHCO	36	40	1259	1335	3554
(g) WESCO	1	0	0	1	2753
(27) West Bengal					
(a) WBPCL	0	0	0	0	4009
(b) WBSETCL	19	0	4	23	2321
(c) WBSED Co. Ltd.	0	0	0	0	11311
(d) Durgapur Projects Ltd.	NA	NA	NA	NA	NA
NORTH EASTERN REGION					
(28) Arunachal Pradesh	0	2786	6148	8934	9454
(29) Assam					
(a) APGCL	34	252	70	356	1245
(b) APDCL	NA	NA	NA	NA	NA
(c) AEGCL	0	515	19	534	2045
(30) Meghalaya					
(a) MPGCL	NA	NA	NA	NA	NA
(b) MECL	0	15	1981	1996	5187
(31) Mizoram	NA	NA	NA	NA	NA
(32) Manipur SPCL+Manipur SPDCL	0	194	26	220	3185
(33) Nagaland	0	2052	0	2052	4914
(34) Tripura State Electricity Corpn. Ltd.	NA	NA	NA	NA	NA
Total	15000	83327	22582	120909	782819

N.A:- Information not available.

Table 7.5A
MANPOWER ENGAGED IN CENTRAL POWER CORPORATIONS/
UNDERTAKINGS
2018-19

Name of the Power Corporation	Manag-erial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Oprating Staff	Non-Techn-ical	Total (Regular) (2to6)
1	2	3	4	5	6	7
NTPC	364	14049	NA	NA	3946	18359
NTPC JVs	69	1416	NA	NA	399	1884
NHPC	256	2455	162	1882	1998	6753
NPCIL	168	1764	1430	3170	1686	8218
PGCIL	504	2836	1958	1527	1671	8496
NHDC	14	216	27	124	160	541
NLC	462	606	48	1616	253	2985
NTPL	69	85	8	20	37	219
NEEPCO	77	559	281	887	247	2051
SJVNL	16	184	130	247	81	658
THDC	155	465	103	930	238	1891
ONGC Tripura PCL	16	19	0	0	10	45
DVC	47	2116	1751	1731	1776	7421
BBMB	Details not available					8265

Table 7.5A
MANPOWER ENGAGED IN CENTRAL POWER CORPORATIONS/ UNDERTAKINGS
2018-19

Name of the Power Corporation	Technical Trainees and Apprentises	Worked Charged Staff	Casual Regular (8+9+10)	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	8	9	10	11	12
NTPC	0	0	0	0	18359
NTPC JVs	0	0	0	0	1884
NHPC	0	0	0	0	6753
NPCIL	0	0	0	0	8218
PGCIL	1100	0	0	1100	9596
NHDC	0	0	0	0	541
NLC	471	1610	1601	3682	6667
NTPL	0	0	0	0	219
NEEPCO	0	295	0	295	2346
SJVNL	224	0	0	224	882
THDC	0	0	0	0	1891
ONGC Tripura PCL	3	0	0	3	48
DVC	0	0	0	0	7421
BBMB	0	0	0	0	8265

Table 7.6
PLANT LOAD FACTOR OF THERMAL/ NUCLEAR
ELECTRICITY GENERATING PLANTS STATE-WISE
2018-19

State/UTs	Central Sector		State Sector	Private Sector
	Thermal	Nuclear	Thermal	Thermal
NORTHERN REGION				
Chandigarh	-	-	-	-
Delhi	-	-	0.00	-
Haryana	56.22	-	44.29	59.66
Himachal Pradesh	-	-	-	-
Jammu & Kashmir	-	-	-	-
Punjab	-	-	22.37	64.68
Rajasthan	61.97	77.73	61.43	68.01
Uttar Pradesh	78.26	82.03	66.60	44.62
Uttarnanchal	-	-	-	-
WESTERN REGION				
Chhattisgarh	89.03	-	73.99	45.12
Gujarat	-	25.94	64.74	75.35
Madhya Pradesh	90.03	-	67.27	73.92
Maharashtra	52.33	87.79	51.78	55.59
Daman & Diu	-	-	-	-
D. & N. Haveli	-	-	-	-
Goa	-	-	-	-
SOUTHERN REGION				
Andhra Pradesh	71.06	-	55.78	47.83
Telangana	81.44	-	79.00	-
Karnataka	40.07	93.61	31.31	49.98
Kerala	-	-	-	-
Tamil Nadu	66.09	35.71	68.65	38.92
Puducherry	-	-	-	-
Lakshadweep	-	-	-	-
EASTERN REGION				
Bihar	73.42	-	-	-
D.V.C.	59.05	-	-	-
Jharkhand	-	-	45.91	72.75
Orissa	81.98	-	83.86	35.24
West Bengal	72.61	-	55.76	72.20
Sikkim	-	-	-	-
A. & N. Islands	-	-	-	-
NORTH-EASTERN REGION				
Arunachal Pradesh	-	-	-	-
Assam	64.44	-	-	-
Manipur	-	-	-	-
Meghalaya	-	-	-	-
Mizoram	-	-	-	-
Nagaland	-	-	-	-
Tripura	-	-	-	-
Total (All India)	72.64	63.67	57.81	55.20

Table 7.7
COAL CONSUMPTION IN THERMAL POWER PLANTS
2018-19

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	
1	2	3	4	5	6	7	8
Delhi	376	0	0	0	0	0	0
Haryana	16903	11989	0	0	11989	71	11255
Punjab	20830	14894	70	2108	17071	82	15828
Rajasthan	19992	12283	11651	604	24538	123	21412
Uttar Pradesh	46949	35972	1479	0	37451	80	36899
Central Sector	46347	42100	198	172	42471	92	40717
Sub-Total (NR)	151398	117238	13397	2884	133520	88	126111
Chhattisgarh	39943	33558	11443	666	45667	114	45280
Gujarat	24582	11809	0	28500	40309	164	39130
Madhya Pradesh	26984	23513	25886	32	49431	183	49776
Maharashtra	64541	58741	1809	7175	67725	105	65489
Central Sector	63949	62777	1892	60	64729	101	64314
Sub-Total (WR)	219999	190398	41029	36433	267861	122	263989
Andhra Pradesh	27969	20264	177	8081	28522	102	28710
Telangana	8131	10104	0	3574	13678	168	13048
Karnataka	18791	15232	0	8714	23946	127	23696
Tamil Nadu	10673	19918	0	0	19918	187	19860
Central Sector	31124	31281	1148	857	33286	107	33842
Sub-Total (SR)	96688	96798	1325	21226	119349	123	119157
Jharkhand	5635	5026	3318	245	8589	152	8555
Orissa	10839	8056	3265	224	11545	107	11387
West Bengal	17581	17385	6557	112	24054	137	23607
Central Sector	72748	72485	4059	535	77079	106	74546
Sub-Total (ER)	106802	102951	17199	1116	121267	114	118095
Central Sector	1651	1336	410	0	1746	106	1587
Sub-Total (NER)	1651	1336	410	0	1746	106	1587
TOTAL ALL India	576537	508722	73361	61659	643742	112	628939

* DVC is included in Central Sector

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 1643031 Ckt. Kms in the country. Apart from Uttar Pradesh the States of Maharashtra, Rajasthan, Madhya Pradesh, Karnataka, Gujarat, Tamil Nadu, Andhra Pradesh, Telangana & West Bengal have more than 5 lakh Ckt. Kms. of T&D Lines.

The following table depicts the length of lines operating at various voltages as on 31.03.2019 in the country with percentage increase over previous year:

Sl. No	Voltages	Length of Lines (Ckt. kms.)		% Growth
		31.03.19	31.03.18	
A	Transmission Lines			
1	±800 kV HVDC	6126	6126	0.00
2	±500 kV HVDC	9432	9432	0.00
3	765kV	41825	33456	25.01
4	400 kV	177373	168200	5.45
5	230/220 kV	182527	175517	3.99
6	132/110/90 kV	203140	195827	3.73
7	78/66 kV	70225	68468	2.57
8	33/22/20 kV	493086	477447	3.28
9	15/11 kV	4225288	3935804	7.36
10	6.6/4.4/3.3/2.2 kV	37905	36155	4.84
Total (A)		5446926	5106431	6.67
B	Distribution lines			
11	Up to 500 volts	7235723	6852080	5.60
Total (B)		7235723	6852080	5.60
Total (All India) (A+B)		12682649	11958511	6.06

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, 2019 were 5269 having aggregate capacity of 361087 MVA. The total numbers of step-down and distribution transformers were 83694 and 11399943 with aggregate capacity of 1855861 MVA and 588775 MVA respectively.

TABLE No.8.1
STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES
31.03.2019

(Ckt. Kms.)

Name of the State/Uts	HVDC		765 KV	400 KV	230 KV (O.H.)	220 KV (O.H.)	132 KV (O.H.)	110/90 KV (O.H.)
	± 800 KV	± 500 KV						
NORTHERN REGION								
Chandigarh	0	0	0	0	0	54	0	0
Delhi	0	0	0	249	0	826	0	0
Haryana	0	0	0	1614	0	6385	5517	0
Himachal Pradesh	0	0	0	466	0	1350	2447	0
Jammu & Kashmir	0	0	0	581	0	859	1955	0
Punjab	0	0	0	2744	0	10135	3157	0
Rajasthan	0	1980	425	7778	0	15458	17618	0
Uttar Pradesh	0	0	1937	6970	0	12140	21658	0
Uttarakhand	0	0	0	464	0	1279	1590	0
Central Sector(NR)	6083	3210	7008	27675	0	6263	363	0
Sub-Total (NR)	6083	5190	9371	48540	0	54749	54305	0
WESTERN REGION								
Chhattisgarh	0	0	1147	3954	120	3926	6129	0
Gujarat	0	0	0	6800	0	19832	6187	0
Madhya Pradesh	0	0	1459	5395	0	13009	18422	0
Maharashtra	0	1504	1946	12029	0	20000	15454	3683
Daman & Diu	0	0	0	0	0	33	0	0
D. & N. Haveli	0	0	0	0	0	10	0	0
Goa	0	0	0	0	0	407	0	301
Central Sector(WR)	0	0	17360	28420	0	1488	107	0
Sub-Total (WR)	0	1504	21912	56599	120	58705	46300	3984
SOUTHERN REGION								
Andhra Pradesh	0	0	0	5416	0	11650	11238	0
Telangana	0	0	0	5155	0	7562	11170	0
Karnataka	0	0	896	3968	0	11558	0	10738
Kerala	0	0	0	0	0	2879	0	4567
Tamil Nadu	0	0	0	4160	10680	0	0	19225
Puducherry	0	0	0	0	266	0	42	290
Lakshadweep	0	0	0	0	0	0	0	0
Central Sector(SR)	0	2738	5676	21351	273	1370	0	328
Sub-Total (SR)	0	2738	6572	40051	11219	35019	22450	35147
EASTERN REGION								
Bihar	0	0	0	1159	0	4051	9878	0
Jharkhand	0	0	0	809	0	1084	2350	0
Odisha	0	0	305	1838	0	5987	6823	0
West Bengal	0	0	0	2680	0	4032	8489	0
Sikkim	0	0	0	522	0	40	61	0
A. & N. Islands	0	0	0	0	0	0	0	0
Central Sector(ER)	43	0	3665	19683	0	4684	4305	0
Sub-Total (ER)	43	0	3970	26691	0	19878	31905	0
NORTH EASTERN REGION								
Arunachal Pradesh	0	0	0	0	0	19	341	0
Assam	0	0	0	1280	0	1943	3072	0
Manipur	0	0	0	0	0	0	628	0
Meghalaya	0	0	0	4	0	227	1060	0
Mizoram	0	0	0	0	0	0	842	0
Nagaland	0	0	0	0	0	0	348	0
Tripura	0	0	0	495	0	0	572	0
Central Sector(NER)	0	0	0	3713	0	649	2187	0
Sub-Total (NER)	0	0	0	5493	0	2837	9050	0
Total Central Sector	6126	5948	33709	100843	273	14455	6962	328
Total (All India)	6126	9432	41825	177373	11338	171189	164009	39130

TABLE No.8.1(Contd.)
STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES
31.03.2019

(Ckt. Kms.)

Name of the State/Uts	78/66 KV (O.H.)	33KV		22/20KV		15/11KV	
		(O.H.)	(U.G.)	(O.H.)	(U.G.)	(O.H.)	(U.G.)
NORTHERN REGION							
Chandigarh	131	22	0	0	0	699	174
Delhi	1371	793	827	0	0	7341	7579
Haryana	3356	6968	0	0	0	134475	0
Himachal Pradesh	702	3250	0	9349	0	23218	19
Jammu & Kashmir	494	4411	0	0	0	35337	0
Punjab	10214	87	0	0	0	237782	0
Rajasthan	303	55687	271	0	0	512082	933
Uttar Pradesh	3139	47953	470	0	0	366179	705
Uttarakhand	42	5487	0	0	0	42556	0
Central Sector(NR)	0	101	2	114	2	13	4
Sub-Total (NR)	19752	124759	1569	9462	2	1359681	9414
WESTERN REGION							
Chhattisgarh	0	22020	114	0	0	111517	225
Gujarat	33208	73	945	1761	619	426795	12722
Madhya Pradesh	71	53885	3	0	0	436301	0
Maharashtra	595	46686	2073	30521	4805	296443	9814
Daman & Diu	89	0	0	0	0	184	251
D. & N. Haveli	269	0	0	0	0	840	0
Goa	0	1644	0	0	0	3862	0
Central Sector(WR)	2	0	32	0	0	0	0
Sub-Total (WR)	34234	124308	3167	32282	5424	1275942	23012
SOUTHERN REGION							
Andhra Pradesh	169	26262	0	0	0	216478	0
Telangana	0	23350	703	0	0	163863	487
Karnataka	11101	6853	75	0	0	353950	1920
Kerala	2072	1808	156	161	0	59528	3370
Tamil Nadu	683	7516	1012	45818	26	119479	3760
Puducherry	0	19	0	1767	0	438	0
Lakshadweep	0	0	0	0	0	0	99
Central Sector(SR)	0	0	0	0	0	0	0
Sub-Total (SR)	14024	65808	1945	47746	26	913737	9637
EASTERN REGION							
Bihar	0	12781	68	0	0	105378	94
Jharkhand	0	9055	172	0	0	62744	261
Orissa	0	13920	1	0	0	140858	16
West Bengal	333	16456	1954	0	50	170154	8377
Sikkim	236	0	0	0	0	2709	77
A. & N. Islands	0	523	0	0	0	898	0
Central Sector(ER)	37	1533	0	0	0	0	136
Sub-Total (ER)	606	54268	2195	0	50	482753	8831
NORTH EASTERN REGION							
Arunachal Pradesh	0	4478	0	0	0	19917	0
Assam	616	6130	0	0	0	73733	0
Manipur	0	1617	0	0	0	7054	88
Meghalaya	0	2702	0	0	0	13880	0
Mizoram	111	2212	0	0	0	5337	0
Nagaland	474	2066	0	0	0	5529	0
Tripura	408	869	0	0	0	16741	0
Central Sector(NER)	0	0	0	0	0	0	0
Sub-Total (NER)	1609	20073	0	0	0	142192	88
Total Central Sector	39	1634	34	114	2	26	10
Total (All India)	70225	389216	8877	89490	5503	4174306	50982

TABLE No.8.1 (Contd.)
STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES
31.03.2019

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	1621	2701
Delhi	0	0	0	0	31025	50010
Haryana	0	0	0	0	121717	280031
Himachal Pradesh	0	0	59	0	63383	104242
Jammu & Kashmir	444	0	0	0	75637	119718
Punjab	0	0	0	0	152012	416131
Rajasthan	0	0	0	0	491111	1103645
Uttar Pradesh	0	0	0	0	1181881	1643031
Uttarakhand	0	0	0	0	65453	116871
Central Sector(NR)	9	0	0	0	34	50882
Sub-Total (NR)	454	0	59	0	2183874	3887264
WESTERN REGION						
Chhattisgarh	13	0	0	0	190399	339564
Gujarat	0	0	0	0	354170	863112
Madhya Pradesh	0	0	0	0	460020	988564
Maharashtra	0	100	0	0	706391	1152044
Daman & Diu	0	0	0	0	784	1341
D. & N. Haveli	0	0	0	0	1788	2908
Goa	0	0	0	0	11805	18020
Central Sector(WR)	12	4	0	0	0	47425
Sub-Total (WR)	25	104	0	0	1725357	3412977
SOUTHERN REGION						
Andhra Pradesh	24730	24	0	0	355635	651602
Telangana	11556	0	0	0	360485	584331
Karnataka	0	0	0	0	566889	967948
Kerala	189	0	20	0	290282	365032
Tamil Nadu	0	19	0	0	638681	851060
Puducherry	0	0	0	0	4020	6841
Lakshadweep	0	0	0	10	332	441
Central Sector(SR)	0	0	0	0	0	31736
Sub-Total (SR)	36475	43	20	10	2216323	3458991
EASTERN REGION						
Bihar	0	0	0	0	231698	365108
Jharkhand	573	0	0	0	112111	189157
Orissa	0	0	0	0	176259	346006
West Bengal	77	0	19	22	351766	564409
Sikkim	0	0	0	0	4776	8420
A. & N. Islands	0	0	0	0	3623	5043
Central Sector(ER)	26	0	0	0	55	34051
Sub-Total (ER)	675	0	19	22	880288	1512194
NORTH EASTERN REGION						
Arunachal Pradesh	0	0	0	0	14663	39418
Assam	0	0	0	0	143144	229917
Manipur	0	0	0	0	17751	27138
Meghalaya	0	0	0	0	16497	34370
Mizoram	0	0	0	0	3245	11747
Nagaland	0	0	0	0	7775	16192
Tripura	0	0	0	0	26807	45892
Central Sector(NER)	0	0	0	0	0	6549
Sub-Total (NER)	0	0	0	0	229882	411224
Total Central Sector	48	4	0	0	89	170643
Total (All India)	37629	147	98	32	7235723	12682649

Table 8.2
NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY STATEWISE
UTILITIES
31.03.2019

Name of the State/UTs	STEP UP		STEP DOWN	
	Nos.	Capacity(KVA)	Nos.	Capacity(KVA)
NORTHERN REGION				
Chandigarh	0	0	58	1142000
Delhi	23	2515200	866	34680000
Haryana	14	4920000	2402	63574300
Himachal Pradesh	137	4035133	842	6357590
Jammu & Kashmir	85	1253554	2400	13253550
Punjab	122	11697680	1909	62932920
Rajasthan	273	12299976	9661	116214010
Uttar Pradesh	156	18014692	6727	141563360
Uttarakhand	71	2423410	778	12759500
Central Sector(NR)	354	32832710	568	128488268
Sub-Total (NR)	1235	89992355	26211	580965498
WESTERN REGION				
Chhattisgarh	80	16871300	2316	26908500
Gujarat	464	29564902	5232	137488990
Madhya Pradesh	243	15217464	8117	100894360
Maharashtra	591	31502330	8944	192250400
Daman & Diu	0	0	38	1192000
D. & N. Haveli	0	0	52	1800000
Goa	2	106000	130	2552350
Central Sector(WR)	193	29171950	398	127536850
Sub-Total (WR)	1573	122433946	25227	590623450
SOUTHERN REGION				
Andhra Pradesh	142	12843980	4884	71656050
Telangana	107	8829200	6285	95106720
Karnataka	457	15870530	3476	74840900
Kerala	119	2953545	1139	20741500
Tamil Nadu	336	11239762	3885	90861790
Puducherry	2	24000	54	1484000
Lakshadweep	26	24250	0	0
Central Sector(SR)	473	27833850	389	75493150
Sub-Total (SR)	1662	79619117	20112	430184110
EASTERN REGION				
Bihar	16	321000	2472	31761400
D.V.C.	58	9609350	261	13518600
Jharkhand	20	3570000	990	12946380
Odisha	136	7535700	2380	30397140
West Bengal	94	11510850	2860	60393055
Sikkim	40	4707430	43	337500
A. & N. Islands	32	113490	568	85355
Central Sector(ER)	168	24130850	588	76511100
Sub-Total (ER)	564	61498670	10162	225950530
NORTH EASTERN REGION				
Arunachal Pradesh	39	20031	185	609465
Assam	28	597500	928	10709860
Manipur	4	50000	188	1201950
Meghalaya	25	441900	193	3741680
Mizoram	20	63239	105	492150
Nagaland	12	32330	128	562100
Tripura	16	967640	162	1627100
Central Sector(NER)	91	5370470	93	9192900
Sub-Total (NER)	235	7543110	1982	28137205
Total Central Sector	1279	119339830	2036	417222268
Total (All India)	5269	361087197	83694	1855860793

Table 8.2(Contd.)
NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY STATEWISE
UTILITIES
31.03.2019

Name of the State/Uts	DISTRIBUTION	
	Nos.	Capacity(KVA)
NORTHERN REGION		
Chandigarh	2200	733987
Delhi	55907	14893839
Haryana	568979	28287569
Himachal Pradesh	31360	2750234
Jammu & Kashmir	52708	6674515
Punjab	1067021	35075690
Rajasthan	1774819	48526314
Uttar Pradesh	935944	42924244
Uttarakhand	69256	4319357
Central Sector(NR)	857	1010567
Sub-Total (NR)	4559051	185196316
WESTERN REGION		
Chhattisgarh	168277	10359486
Gujarat	1462702	54405089
Madhya Pradesh	778552	40688599
Maharashtra	626248	70706514
Daman & Diu	924	256290
D. & N. Haveli	1109	222850
Goa	6302	1015011
Central Sector(WR)	486	753788
Sub-Total (WR)	3044600	178407627
SOUTHERN REGION		
Andhra Pradesh	950341	32561403
Telangana	699292	31229540
Karnataka	870320	50070950
Kerala	80630	9941820
Tamil Nadu	309507	41707618
Puducherry	2655	617946
Lakshadweep	113	17101
Central Sector(SR)	633	728765
Sub-Total (SR)	2913491	166875143
EASTERN REGION		
Bihar	146073	12170277
D.V.C.	453	663980
Jharkhand	95638	6688789
Orissa	229780	11040920
West Bengal	275914	16248966
Sikkim	2466	297207
A. & N. Islands	1067	179306
Central Sector(ER)	977	1487640
Sub-Total (ER)	752368	48777085
NORTH EASTERN REGION		
Arunachal Pradesh	8892	448648
Assam	84702	5929169
Manipur	6352	578543
Meghalaya	10237	856984
Mizoram	1942	216500
Nagaland	3626	327391
Tripura	14632	1100302
Central Sector(NER)	50	61200
Sub-Total (NER)	130433	9518737
Total Central Sector	3003	4041960
Total (All India)	11399943	588774907

CHAPTER 9

ELECTRICITY UTILISATION







CHAPTER 9

ELECTRICITY UTILISATION

I. Electrical Energy Consumption

Electricity consumption by various categories of consumers served by utilities during the year 2018-19 was 1037517.93 GWh registering an increase of 6.62% over previous year.

As in the preceding year, the major portion of electricity viz. 938679.04 GWh representing 90.47% of the total energy consumption was distributed by the Public Sector and remaining 9.53% was distributed by the private sector (including Cooperatives Societies). Out of 90.47% of energy distributed by the Public Sector, the Municipalities distributed 0.59% and the Electricity Departments of the States and Union Territories and State Govt. distribution companies distributed balance 89.88%. The four major private licensees viz. TATA Electric Companies, Calcutta Electric Supply Corporation (CESC), Torrent Power Ltd., Adani Electricity Mumbai Limited and BSES Ltd. Distributed 1.30%, 0.94%, 1.07%, 0.81% and 1.80% adding up 5.92% only and the balance of 3.61% 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 2018-19 are tabulated below: -

Sl. No	Agency	Electrical Energy Sold to Ultimate Consumers		
		Quantum (GWh)	% of total Consumption	% increase over 2017-18
1.	Elect. Deptts. of State & UTs/State Govt. Distribution Companies	932529.21	89.88	6.7
2.	Municipalities	6149.83	0.59	0.95
3.	Private Licensees (including Coop. Societies)	98838.88	9.53	6.21
	Total	1037517.93	100.00	6.62

Regarding to the energy consumed by various classes of consumers, the Industrial category of consumers, as usual consumed highest energy i.e. 33.42% of total energy sold by Utilities as compared to 32.71% during 2017-18. The energy sales to Industrial consumers registered an increase of 8.93% over the previous year.

Domestic consumers, the second largest category amongst the consumers consumed 27.78% of total energy sales as compared to 28.11% during the previous year. The consumption of energy under this Sector increased by 5.37% over the previous year.

Agricultural consumers, the third largest category amongst the consumers consumed 20.57% of total energy sales as compared to 20.47% during the previous year. However, the consumption of energy by this Sector increased by 7.11% over the previous year.

The electricity consumption in the Commercial and Public Lighting categories during the year was 98227.65 GWh and 9676.06 GWh respectively registering an increase of 4.77% and 0.07% respectively against the overall increase of 6.62% in total energy consumption.

II Electricity Consumption Pattern (Utilities & Non-Utilities)

The total electricity consumed including utilities and non-utilities during the year 2018-19 was 1209971.63 GWh as compared to 1123426.86 GWh during the year 2017-18 registering growth of 7.70% over the previous year. 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 electricity consumption pattern for the year 2018-19 has shown improved share of Domestic, Traction and Industrial electricity consumption. The share of total Domestic consumption was 23.82% during the year 2018-19 as compared to 24.35% during the year 2017-18 and registered a growth of 5.37% over the previous year. The share of Traction consumption was 1.56% during the year 2018-19 as compared to 1.55% during the year 2017-18 and registered a growth of 8.06% over the previous year. The share of Industrial consumption was 42.91% during the year 2018-19 as compared to 41.71% during the year 2017-18 and registered a growth of 10.79% over the previous year.

III. Per Capita Electricity Consumption

The per capita consumption of electricity on All India basis works out to 1181 kWh for the year 2018-19 against 1149 kWh in the year 2017-18. Per Capita Electricity Consumption is worked out as the total gross electrical energy available 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 2018-19, the total number of electrical accidents reported was 22577 which comprised 8239 human fatal accidents, 3886 human non-fatal accidents, 9854 animal fatal accidents and 598 animal non-fatal accidents. The details of electrical accidents are displayed in table 9.10.

GROWTH OF CATEGORY-WISE ELECTRICITY CONSUMPTION UTILITIES 2016-17 to 2018-19

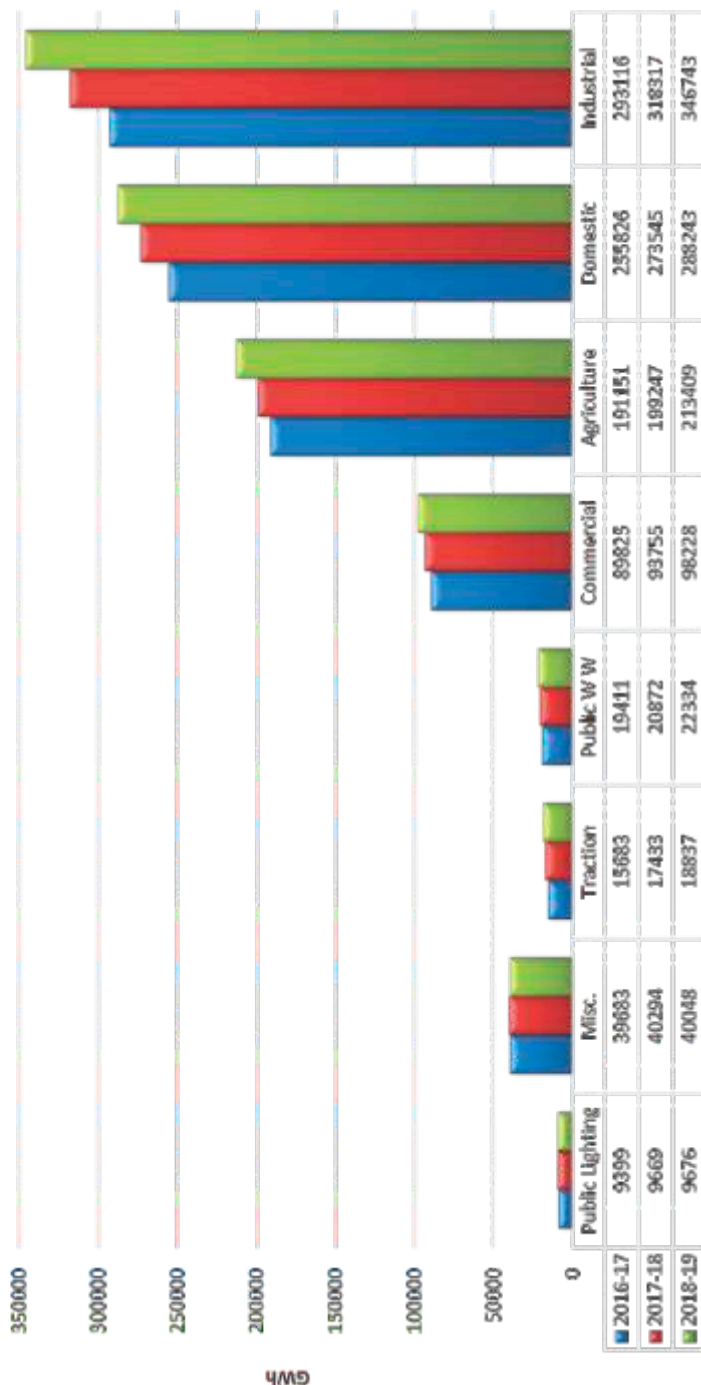


Table 9.1
ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE
(UTILITIES)
2018-19

Category	Energy Sold During 2018-19 (GWh)	% of Total Energy Sold in 2018-19	Energy Sold During 2017-18 (GWh)	% of Total Energy Sold in 2017-18	% Increase in Sale over Previous Year 2017-18
Domestic	288243.11	27.78	273545.02	28.11	5.37
Commercial	98227.65	9.47	93754.85	9.63	4.77
Industrial Power	346742.58	33.42	318317.22	32.71	8.93
Public Lighting	9676.06	0.93	9669.10	0.99	0.07
Railway/ Tramways	18837.43	1.82	17432.67	1.79	8.06
Agriculture	213409.18	20.57	199246.85	20.47	7.11
Public Water Works & Sewage Pumping	22333.67	2.15	20871.56	2.14	7.01
Miscellaneous	40048.24	3.86	40293.50	4.14	-0.61
Total	1037517.93	100.00	973130.78	100.00	6.62

Table 9.1(A)
ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE
(UTILITIES & NON-UTILITIES)
2018-19

Category	Energy Sold During 2018-19 (GWh)	% of Total Energy Sold in 2018-19	Energy Sold During 2017-18 (GWh)	% of Total Energy Sold in 2017-18	% Increase in Sale over Previous Year 2017-18
Domestic	288243.11	23.82	273545.02	24.35	5.37
Commercial	98227.65	8.12	93754.85	8.35	4.77
Industrial Power	519196.29	42.91	468613.30	41.71	10.79
Public Lighting	9676.06	0.80	9669.10	0.86	0.07
Railways/ Tramways	18837.43	1.56	17432.67	1.55	8.06
Agriculture	213409.18	17.64	199246.85	17.74	7.11
Public Water Works & Sewage Pumping	22333.67	1.85	20871.56	1.86	7.01
Miscellaneous	40048.24	3.31	40293.50	3.59	-0.61
Total	1209971.63	100.00	1123426.86	100.00	7.70

Table 9.2
ALL INDIA ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS
OWNERSHIP-WISE/STATE-WISE
(UTILITIES)
2018-19

(GWh)

State / UTs	S.E.B.s	Municipalities	Govt. Deptts./ Undertakings/ Corporations	Private Sector	Total
Chandigarh	0.00	0.00	1535.45	0.00	1535.45
Delhi	0.00	1433.06	240.00	27495.76	29168.82
Haryana	0.00	0.00	41017.42	0.00	41017.42
Himachal Pradesh	0.00	0.00	9040.86	0.00	9040.86
Jammu & Kashmir	0.00	0.00	9633.20	0.00	9633.20
Punjab	0.00	0.00	50119.80	0.00	50119.80
Rajasthan	0.00	0.00	59744.48	406.95	60151.43
Uttar Pradesh	0.00	0.00	89504.95	1850.07	91355.02
Uttarakhand	0.00	0.00	11543.34	0.00	11543.34
Sub-Total (NR)	0.00	1433.06	272379.51	29752.78	303565.35
Chhattisgarh	0.00	0.00	22210.21	0.00	22210.21
Gujarat	0.00	0.00	80537.20	15433.24	95970.44
Madhya Pradesh	0.00	0.00	56362.24	610.00	56972.24
Maharashtra	0.00	4572.01	113935.26	14111.31	132618.57
Daman & Diu	0.00	0.00	2431.44	0.00	2431.44
D & N Haveli	0.00	0.00	6065.98	0.00	6065.98
Goa	0.00	0.00	3661.47	125.66	3787.13
Sub-Total (WR)	0.00	4572.01	285203.80	30280.21	320056.02
Andhra Pradesh	0.00	0.00	54567.05	839.74	55406.79
Telangana	0.00	0.00	57568.78	796.83	58365.62
Karnataka	0.00	0.00	58320.94	4084.51	62405.45
Kerala	0.00	144.76	21031.19	237.77	21413.72
Tamil Nadu	0.00	0.00	91788.33	0.00	91788.33
Puducherry	0.00	0.00	2653.82	0.00	2653.82
Lakshadweep	0.00	0.00	48.91	0.00	48.91
Sub-Total (SR)	0.00	144.76	285979.01	5958.86	292082.63
Bihar	0.00	0.00	20856.40	0.00	20856.40
Jharkhand	0.00	0.00	18252.07	2932.33	21184.40
Odisha	0.00	0.00	0.00	19372.82	19372.82
West Bengal	0.00	0.00	37747.84	10541.89	48289.72
Sikkim	0.00	0.00	380.81	0.00	380.81
A & N Islands	0.00	0.00	254.68	0.00	254.68
Sub-Total (ER)	0.00	0.00	77491.79	32847.04	110338.83
Arunachal Pradesh	0.00	0.00	446.54	0.00	446.54
Assam	0.00	0.00	7268.18	0.00	7268.18
Manipur	0.00	0.00	612.78	0.00	612.78
Meghalaya	0.00	0.00	1105.02	0.00	1105.02
Mizoram	0.00	0.00	407.76	0.00	407.76
Nagaland	0.00	0.00	679.14	0.00	679.14
Tripura	0.00	0.00	955.69	0.00	955.69
Sub-Total (NER)	0.00	0.00	11475.10	0.00	11475.10
Total (All India)	0.00	6149.83	932529.21	98838.88	1037517.93

Table 9.3
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS
CATEGORYWISE/STATEWISE
UTILITIES
2018-19

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	704.67	472.98	125.15	135.27	15.09
Delhi	15430.54	7702.83	3051.59	390.29	366.45
Haryana	9623.26	4547.94	1831.47	12371.16	232.06
Himachal Pradesh	2080.47	614.56	207.58	5127.07	10.37
Jammu & Kashmir	4013.45	1263.40	601.41	1256.45	59.32
Punjab	14163.80	3675.12	2909.50	14077.52	157.83
Rajasthan	12506.43	4863.12	3149.57	12926.19	353.58
Uttar Pradesh	39524.49	6501.05	4293.01	14662.78	938.79
Uttarakhand	2823.78	1269.45	311.28	6033.79	59.03
Sub-Total (NR)	100870.89	30910.45	16480.57	66980.53	2192.52
Chhattisgarh	5214.97	1482.14	539.86	8496.59	94.49
Gujarat	15537.75	4157.85	16224.40	40731.82	312.10
Madhya Pradesh	13385.40	3141.30	1281.21	9810.58	419.24
Maharashtra	28650.32	15274.24	9895.77	32860.10	1991.57
Daman & Diu	132.58	51.30	197.46	2022.29	8.24
D & N Haveli	122.16	34.20	216.07	5670.85	5.80
Goa	1152.05	541.73	131.38	1877.09	2.66
Sub-Total (WR)	64195.23	24682.77	28486.15	101469.32	2834.10
Andhra Pradesh	14201.57	4724.61	5332.67	13162.93	553.73
Telangana	11422.32	5750.00	1243.48	12621.87	365.49
Karnataka	12954.19	6553.68	2495.09	11718.75	1092.41
Kerala	10927.01	2455.89	1186.05	3336.89	381.21
Tamil Nadu	26996.34	10281.76	8600.26	26532.44	1140.89
Puducherry	723.63	212.85	159.59	1450.91	27.58
Lakshadweep	35.97	11.78	0.38	0.00	0.67
Sub-Total (SR)	77261.02	29990.58	19017.51	68823.80	3561.97
Bihar	11505.49	2067.82	553.88	2582.40	62.15
Jharkhand \$	5683.38	808.83	273.46	12852.48	110.33
Odisha	7175.22	1833.48	384.30	6994.00	119.35
West Bengal \$	15478.10	6280.37	2279.45	16977.62	692.96
Sikkim	107.46	40.91	4.89	197.67	0.25
A & N Islands	133.86	60.29	20.99	0.00	6.72
Sub-Total (ER)	40083.51	11091.70	3516.97	39604.16	991.76
Arunachal Pradesh	185.72	51.02	4.38	116.50	10.12
Assam	3677.50	1096.95	112.23	1529.67	15.97
Manipur	376.78	66.14	20.86	9.04	9.89
Meghalaya	442.66	93.30	9.44	423.88	0.20
Mizoram	244.62	61.04	2.39	11.97	2.67
Nagaland	380.43	97.56	67.07	0.00	14.87
Tripura	524.75	86.15	28.97	27.20	41.98
Sub-Total (NER)	5832.46	1552.16	245.32	2118.25	95.71
Total (All India)	288243.11	98227.65	67746.52	278996.06	9676.06

Note:- \$ -Includes DVC's sales to ultimate consumers in Jharkhand & West Bengal area
B - Included under Industrial category

Table 9.3 (Contd.)
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS
CATEGORYWISE/STATEWISE
UTILITIES
2018-19

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	1.36	(B)	80.93	1535.45
Delhi	499.59	33.43	386.33	1307.77	29168.82
Haryana	409.83	9714.29	1024.63	1262.79	41017.42
Himachal Pradesh	0.00	62.98	565.73	372.10	9040.86
Jammu & Kashmir	23.17	349.00	701.00	1366.00	9633.20
Punjab	228.48	11268.38	823.90	2815.27	50119.80
Rajasthan	406.95	23300.35	1952.34	692.90	60151.43
Uttar Pradesh	2231.00	17362.03	1741.77	4100.11	91355.02
Uttarakhand	26.81	450.19	378.24	190.76	11543.34
Sub-Total (NR)	3825.83	62542.01	7573.94	12188.62	303565.35
Chhattisgarh	983.48	5038.43	360.25	0.00	22210.21
Gujarat	743.05	14598.35	2207.79	1457.34	95970.44
Madhya Pradesh	1951.48	20283.80	1572.68	5126.55	56972.24
Maharashtra	3070.35	34616.34	2851.11	3408.76	132618.57
Daman & Diu	0.00	4.83	3.67	11.07	2431.44
D & N Haveli	0.00	7.23	6.24	3.43	6065.98
Goa	0.00	26.37	0.00	55.85	3787.13
Sub-Total (WR)	6748.37	74575.35	7001.73	10063.00	320056.02
Andhra Pradesh	1534.81	12838.59	579.52	2478.36	55406.79
Telangana	725.97	24077.04	604.00	1555.46	58365.62
Karnataka	99.90	22788.19	3903.29	799.94	62405.45
Kerala	321.07	348.67	0.16	2456.77	21413.72
Tamil Nadu	903.40	13077.16	1140.89	3115.19	91788.33
Puducherry	0.00	59.97	0.00	19.29	2653.82
Lakshadweep	0.00	0.00	0.00	0.11	48.91
Sub-Total (SR)	3585.15	73189.62	6227.86	10425.12	292082.63
Bihar	1248.97	726.71	104.77	2004.21	20856.40
Jharkhand \$	757.83	210.36	0.00	487.75	21184.40
Odisha	1203.34	558.89	154.54	949.71	19372.82
West Bengal \$	1467.94	1515.55	955.57	2642.16	48289.72
Sikkim	0.00	0.00	0.00	29.63	380.81
A & N Islands	0.00	1.02	0.00	31.79	254.68
Sub-Total (ER)	4678.08	3012.54	1214.88	6145.25	110338.83
Arunachal Pradesh	0.00	0.03	0.00	78.78	446.54
Assam	0.00	46.71	86.16	702.98	7268.18
Manipur	0.00	2.12	21.18	106.77	612.78
Meghalaya	0.00	0.13	40.81	94.60	1105.02
Mizoram	0.00	0.00	68.58	16.50	407.76
Nagaland	0.00	0.00	10.38	108.83	679.14
Tripura	0.00	40.67	88.17	117.80	955.69
Sub-Total (NER)	0.00	89.67	315.27	1226.26	11475.10
Total (All India)	18837.43	213409.18	22333.67	40048.24	1037517.93

ELECTRICITY CONSUMPTION PATTERN UTILITIES & NON-UTILITIES 2018-19

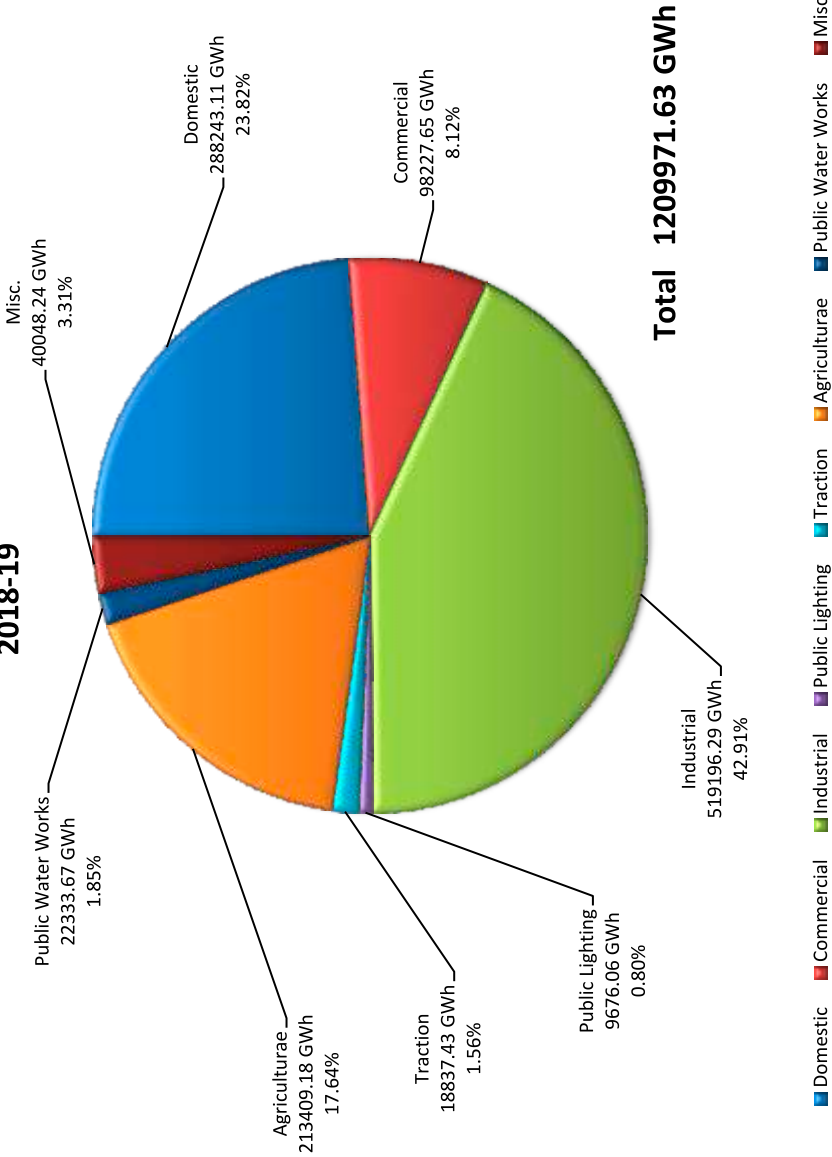


Table 9.3(A)
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS
CATEGORYWISE/STATEWISE
UTILITIES & NON-UTILITIES
2018-19

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	704.67	472.98	125.15	135.46	15.09
Delhi	15430.54	7702.83	3051.59	392.46	366.45
Haryana	9623.26	4547.94	1831.47	15431.05	232.06
Himachal Pradesh	2080.47	614.56	207.58	5250.51	10.37
Jammu & Kashmir	4013.45	1263.40	601.41	1259.77	59.32
Punjab	14163.80	3675.12	2909.50	16321.81	157.83
Rajasthan	12506.43	4863.12	3149.57	20580.10	353.58
Uttar Pradesh	39524.49	6501.05	4293.01	25043.00	938.79
Uttarakhand	2823.78	1269.45	311.28	6985.37	59.03
Sub-Total (NR)	100870.89	30910.45	16480.57	91399.53	2192.52
Chhattisgarh	5214.97	1482.14	539.86	31035.83	94.49
Gujarat	15537.75	4157.85	16224.40	54922.68	312.10
Madhya Pradesh	13385.40	3141.30	1281.21	22072.51	419.24
Maharashtra	28650.32	15274.24	9895.77	39729.45	1991.57
Daman & Diu	132.58	51.30	197.46	2022.78	8.24
D & N Haveli	122.16	34.20	216.07	5674.86	5.80
Goa	1152.05	541.73	131.38	2193.62	2.66
Sub-Total (WR)	64195.23	24682.77	28486.15	157651.73	2834.10
Andhra Pradesh	14201.57	4724.61	5332.67	21097.83	553.73
Telangana	11422.32	5750.00	1243.48	15896.33	365.49
Karnataka	12954.19	6553.68	2495.09	24613.79	1092.41
Kerala	10927.01	2455.89	1186.05	4206.05	381.21
Tamil Nadu	26996.34	10281.76	8600.26	33001.14	1140.89
Puducherry	723.63	212.85	159.59	1613.30	27.58
Lakshadweep	35.97	11.78	0.38	0.00	0.67
Sub-Total (SR)	77261.02	29990.58	19017.51	100428.43	3561.97
Bihar	11505.49	2067.82	553.88	2923.80	62.15
Jharkhand \$	5683.38	808.83	273.46	18482.87	110.33
Odisha	7175.22	1833.48	384.30	57825.85	119.35
West Bengal \$	15478.10	6280.37	2279.45	18887.25	692.96
Sikkim	107.46	40.91	4.89	197.67	0.25
A & N Islands	133.86	60.29	20.99	0.00	6.72
Sub-Total (ER)	40083.51	11091.70	3516.97	98317.45	991.76
Arunachal Pradesh	185.72	51.02	4.38	116.50	10.12
Assam	3677.50	1096.95	112.23	2919.09	15.97
Manipur	376.78	66.14	20.86	9.04	9.89
Meghalaya	442.66	93.30	9.44	568.83	0.20
Mizoram	244.62	61.04	2.39	11.97	2.67
Nagaland	380.43	97.56	67.07	0.00	14.87
Tripura	524.75	86.15	28.97	27.20	41.98
Sub-Total (NER)	5832.46	1552.16	245.32	3652.63	95.71
Total (All India)	288243.11	98227.65	67746.52	451449.77	9676.06

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
2018-19

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	1.36	(B)	80.93	1535.64
Delhi	499.59	33.43	386.33	1307.77	29170.99
Haryana	409.83	9714.29	1024.63	1262.79	44077.31
Himachal Pradesh	0.00	62.98	565.73	372.10	9164.30
Jammu & Kashmir	23.17	349.00	701.00	1366.00	9636.53
Punjab	228.48	11268.38	823.90	2815.27	52364.09
Rajasthan	406.95	23300.35	1952.34	692.90	67805.35
Uttar Pradesh	2231.00	17362.03	1741.77	4100.11	101735.24
Uttarakhand	26.81	450.19	378.24	190.76	12494.92
Sub-Total (NR)	3825.83	62542.01	7573.94	12188.62	327984.36
Chhattisgarh	983.48	5038.43	360.25	0.00	44749.45
Gujarat	743.05	14598.35	2207.79	1457.34	110161.30
Madhya Pradesh	1951.48	20283.80	1572.68	5126.55	69234.17
Maharashtra	3070.35	34616.34	2851.11	3408.76	139487.92
Daman & Diu	0.00	4.83	3.67	11.07	2431.93
D & N Haveli	0.00	7.23	6.24	3.43	6069.99
Goa	0.00	26.37	0.00	55.85	4103.66
Sub-Total (WR)	6748.37	74575.35	7001.73	10063.00	376238.42
Andhra Pradesh	1534.81	12838.59	579.52	2478.36	63341.69
Telangana	725.97	24077.04	604.00	1555.46	61640.07
Karnataka	99.90	22788.19	3903.29	799.94	75300.49
Kerala	321.07	348.67	0.16	2456.77	22282.88
Tamil Nadu	903.40	13077.16	1140.89	3115.19	98257.02
Puducherry	0.00	59.97	0.00	19.29	2816.20
Lakshadweep	0.00	0.00	0.00	0.11	48.91
Sub-Total (SR)	3585.15	73189.62	6227.86	10425.12	323687.26
Bihar	1248.97	726.71	104.77	2004.21	21197.80
Jharkhand \$	757.83	210.36	0.00	487.75	26814.80
Odisha	1203.34	558.89	154.54	949.71	70204.68
West Bengal \$	1467.94	1515.55	955.57	2642.16	50199.36
Sikkim	0.00	0.00	0.00	29.63	380.81
A & N Islands	0.00	1.02	0.00	31.79	254.68
Sub-Total (ER)	4678.08	3012.54	1214.88	6145.25	169052.12
Arunachal Pradesh	0.00	0.03	0.00	78.78	446.54
Assam	0.00	46.71	86.16	702.98	8657.60
Manipur	0.00	2.12	21.18	106.77	612.78
Meghalaya	0.00	0.13	40.81	94.60	1249.97
Mizoram	0.00	0.00	68.58	16.50	407.76
Nagaland	0.00	0.00	10.38	108.83	679.14
Tripura	0.00	40.67	88.17	117.80	955.69
Sub-Total (NER)	0.00	89.67	315.27	1226.26	13009.47
Total (All India)	18837.43	213409.18	22333.67	40048.24	1209971.63

Table 9.4
ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES
CATEGORY-WISE & STATE-WISE
2018-19

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Delhi	15157.88	6624.49	3051.54	390.29	358.52
Rajasthan	0.00	0.00	0.00	0.00	0.00
Uttar Pradesh	452.36	265.90	1001.64	0.00	35.65
Sub-Total (NR)	15610.23	6890.39	4053.18	390.29	394.17
Gujarat	3796.34	1840.96	5895.95	3600.53	58.78
Madhya Pradesh	260.89	31.39	37.12	0.00	5.82
Maharashtra	6206.45	5524.30	856.21	1250.90	56.66
Goa	0.00	0.00	31.60	94.06	0.00
Sub-Total (WR)	10263.67	7396.64	6820.88	4945.50	121.26
Andhra Pradesh	187.96	206.21	44.35	0.00	15.66
Telangana	124.44	19.82	101.25	0.00	6.26
Karnataka	31.93	8.09	5.71	3835.55	2.29
Kerala	5.59	13.17	61.69	156.09	0.57
Sub-Total (SR)	349.92	247.30	213.00	3991.64	24.78
Jharkhand	282.50	71.23	0.00	2081.10	89.11
Odisha	7175.22	1833.48	384.30	6994.00	119.35
West Bengal	4507.84	1897.32	832.13	2048.13	275.15
Sub-Total (ER)	11965.55	3802.03	1216.43	11123.23	483.61
Assam	0.00	0.00	0.00	0.00	0.00
Sub-Total (NER)	0.00	0.00	0.00	0.00	0.00
Total (All India)	38189.38	18336.36	12303.49	20450.66	1023.82

Table 9.4 (Contd.)
ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES
CATEGORY-WISE & STATE-WISE
2018-19

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Delhi	437.48	33.43	386.33	1055.80	27495.76
Rajasthan	406.95	0.00	0.00	0.00	406.95
Uttar Pradesh	0.00	25.83	19.67	49.03	1850.07
Sub-Total (NR)	844.43	59.25	406.00	1104.82	29752.78
Gujarat	16.12	6.69	168.03	49.83	15433.24
Madhya Pradesh	0.00	230.01	18.21	26.55	610.00
Maharashtra	98.07	0.24	93.88	24.61	14111.31
Goa	0.00	0.00	0.00	0.00	125.66
Sub-Total (WR)	114.19	236.94	280.12	100.99	30280.21
Andhra Pradesh	0.93	365.17	15.33	4.12	839.74
Telangana	0.00	477.05	66.65	1.35	796.83
Karnataka	0.00	188.18	12.65	0.12	4084.51
Kerala	0.00	0.65	0.00	0.00	237.77
Sub-Total (SR)	0.93	1031.06	94.64	5.59	5958.86
Jharkhand	0.00	0.00	0.00	408.39	2932.33
Orissa	1203.34	558.89	154.54	949.71	19372.82
West Bengal	245.34	0.00	468.65	267.33	10541.89
Sub-Total (ER)	1448.68	558.89	623.19	1625.43	32847.04
Assam	0.00	0.00	0.00	0.00	0.00
Sub-Total (NER)	0.00	0.00	0.00	0.00	0.00
Total (All India)	2408.23	1886.14	1403.95	2836.84	98838.88

Table 9.5
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY
DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.
UNDERTAKINGS AND MUNICIPALITIES CATEGORY-WISE & STATE-WISE
2018-19 (GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
I. MUNICIPALITIES					
N.D.M.C (Delhi)	272.66	1078.34	0.05	0.00	7.93
Maharashtra	2051.34	2124.46	133.66	156.86	19.84
Kerala	39.88	67.15	4.05	0.00	1.78
Sub-Total	2363.88	3269.95	137.76	156.86	29.55
II. GOVT. DEPTT. / CENTRAL SECTOR UNDERTAKINGS / CORPORATIONS					
Chandigarh	704.67	472.98	125.15	135.27	15.09
Delhi	0.00	0.00	0.00	0.00	0.00
Haryana	9623.26	4547.94	1831.47	12371.16	232.06
Himachal Pradesh	2080.47	614.56	207.58	5127.07	10.37
Jammu & Kashmir	4013.45	1263.40	601.41	1256.45	59.32
Punjab	14163.80	3675.12	2909.50	14077.52	157.83
Rajasthan	12506.43	4863.12	3149.57	12926.19	353.58
Uttar Pradesh	39072.13	6235.15	3291.36	14662.78	903.14
Uttarakhand	2823.78	1269.45	311.28	6033.79	59.03
Chhattisgarh	5214.97	1482.14	539.86	8496.59	94.49
Gujarat	11741.41	2316.90	10328.45	37131.28	253.32
Madhya Pradesh	13124.52	3109.91	1244.09	9810.58	413.42
Maharashtra	20392.53	7625.49	8905.91	31452.34	1915.07
Daman & Diu	132.58	51.30	197.46	2022.29	8.24
D & N Haveli	122.16	34.20	216.07	5670.85	5.80
Goa	1152.05	541.73	99.78	1783.03	2.66
Andhra Pradesh	14013.61	4518.40	5288.32	13162.93	538.07
Telangana	11297.88	5730.17	1142.22	12621.87	359.23
Karnataka	12922.26	6545.59	2489.38	7883.20	1090.12
Kerala	10881.53	2375.57	1120.31	3180.80	378.86
Tamil Nadu	26996.34	10281.76	8600.26	26532.44	1140.89
Puducherry	723.63	212.85	159.59	1450.91	27.58
Lakshadweep	35.97	11.78	0.38	0.00	0.67
Bihar	11505.49	2067.82	553.88	2582.40	62.15
DVC in Jharkhand	0.00	25.65	53.80	8290.75	0.00
DVC in West Bengal	0.00	17.10	35.86	5527.17	0.00
Jharkhand	5400.88	711.95	219.66	2480.63	21.22
Odisha	0.00	0.00	0.00	0.00	0.00
West Bengal	10970.26	4365.95	1411.46	9402.32	417.81
Sikkim	107.46	40.91	4.89	197.67	0.25
A. & N. Islands	133.86	60.29	20.99	0.00	6.72
Arunachal Pradesh	185.72	51.02	4.38	116.50	10.12
Assam	3677.50	1096.95	112.23	1529.67	15.97
Manipur	376.78	66.14	20.86	9.04	9.89
Meghalaya	442.66	93.30	9.44	423.88	0.20
Mizoram	244.62	61.04	2.39	11.97	2.67
Nagaland	380.43	97.56	67.07	0.00	14.87
Tripura	524.75	86.15	28.97	27.20	41.98
Sub-Total	247689.84	76621.34	55305.27	258388.54	8622.68
Total (I & II)	250053.73	79891.29	55443.03	258545.41	8652.24

Table 9.5 (Contd.)

**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY
DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.
UNDERTAKINGS AND MUNICIPALITIES CATEGORY-WISE & STATE-WISE
2018-19**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
I. MUNICIPALITIES					
N.D.M.C (Delhi)	62.11	0.00	0.00	11.97	1433.06
Maharashtra	2.14	0.00	42.57	41.13	4572.01
Kerala	0.04	0.08	0.00	31.78	144.76
Sub-Total	64.30	0.08	42.57	84.87	6149.83
II. GOVT. DEPTT. / CENTRAL SECTOR UNDERTAKINGS / CORPORATIONS					
Chandigarh	0.00	1.36	0.00	80.93	1535.45
Delhi	0.00	0.00	0.00	240.00	240.00
Haryana	409.83	9714.29	1024.63	1262.79	41017.42
Himachal Pradesh	0.00	62.98	565.73	372.10	9040.86
Jammu & Kashmir	23.17	349.00	701.00	1366.00	9633.20
Punjab	228.48	11268.38	823.90	2815.27	50119.80
Rajasthan	0.00	23300.35	1952.34	692.90	59744.48
Uttar Pradesh	2231.00	17336.20	1722.10	4051.08	89504.95
Uttarakhand	26.81	450.19	378.24	190.76	11543.34
Chhattisgarh	983.48	5038.43	360.25	0.00	22210.21
Gujarat	726.93	14591.66	2039.76	1407.51	80537.20
Madhya Pradesh	1951.48	20053.78	1554.46	5100.00	56362.24
Maharashtra	2970.14	34616.10	2714.66	3343.02	113935.26
Daman & Diu	0.00	4.83	3.67	11.07	2431.44
D & N Haveli	0.00	7.23	6.24	3.43	6065.98
Goa	0.00	26.37	0.00	55.85	3661.47
Andhra Pradesh	1533.88	12473.42	564.19	2474.23	54567.05
Telangana	725.97	23599.99	537.35	1554.10	57568.78
Karnataka	99.90	22600.01	3890.63	799.82	58320.94
Kerala	321.03	347.93	0.16	2424.99	21031.19
Tamil Nadu	903.40	13077.16	1140.89	3115.19	91788.33
Puducherry	0.00	59.97	0.00	19.29	2653.82
Lakshadweep	0.00	0.00	0.00	0.11	48.91
Bihar	1248.97	726.71	104.77	2004.21	20856.40
DVC in Jharkhand	0.00	0.00	0.00	79.36	8449.55
DVC in West Bengal	94.96	0.00	0.00	52.90	5728.00
Jharkhand	757.83	210.36	0.00	0.00	9802.52
Odisha	0.00	0.00	0.00	0.00	0.00
West Bengal	1127.64	1515.55	486.92	2321.93	32019.84
Sikkim	0.00	0.00	0.00	29.63	380.81
A. & N. Islands	0.00	1.02	0.00	31.79	254.68
Arunachal Pradesh	0.00	0.03	0.00	78.78	446.54
Assam	0.00	46.71	86.16	702.98	7268.18
Manipur	0.00	2.12	21.18	106.77	612.78
Meghalaya	0.00	0.13	40.81	94.60	1105.02
Mizoram	0.00	0.00	68.58	16.50	407.76
Nagaland	0.00	0.00	10.38	108.83	679.14
Tripura	0.00	40.67	88.17	117.80	955.69
Sub-Total	16364.90	211522.95	20887.15	37126.53	932529.21
Total (I & II)	16429.20	211523.04	20929.72	37211.40	938679.04

Table 9.6
CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY
STATE-WISE
UTILITIES
2018-19

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	45.89	30.80	8.15	8.81	0.98
Delhi	52.90	26.41	10.46	1.34	1.26
Haryana	23.46	11.09	4.47	30.16	0.57
Himachal Pradesh	23.01	6.80	2.30	56.71	0.11
Jammu & Kashmir	41.66	13.12	6.24	0.00	0.62
Punjab	28.26	7.33	5.81	28.09	0.31
Rajasthan	20.79	8.08	5.24	21.49	0.59
Uttar Pradesh	43.26	7.12	4.70	16.05	1.03
Uttarakhand	24.46	11.00	2.70	52.27	0.51
Northern Region	33.23	10.18	5.43	22.06	0.72
Chhattisgarh	23.48	6.67	2.43	38.26	0.43
Gujarat	16.19	4.33	16.91	42.44	0.33
Madhya Pradesh	23.49	5.51	2.25	17.22	0.74
Maharashtra	21.60	11.52	7.46	24.78	1.50
Daman & Diu	5.45	2.11	8.12	83.17	0.34
D & N Haveli	2.01	0.56	3.56	93.49	0.10
Goa	30.42	14.30	3.47	49.57	0.07
Western Region	20.06	7.71	8.90	31.70	0.89
Andhra Pradesh	25.63	8.53	9.62	23.76	1.00
Telangana	19.57	9.85	2.13	21.63	0.63
Karnataka	20.76	10.50	4.00	18.78	1.75
Kerala	51.03	11.47	5.54	15.58	1.78
Tamil Nadu	29.41	11.20	9.37	28.91	1.24
Puducherry	27.27	8.02	6.01	54.67	1.04
Lakshadweep	73.54	24.09	0.79	0.00	1.36
Southern Region	26.45	10.27	6.51	23.56	1.22
Bihar	55.17	9.91	2.66	12.38	0.30
Jharkhand	26.83	3.82	1.29	60.67	0.52
Odisha	37.04	9.46	1.98	36.10	0.62
West Bengal	32.05	13.01	4.72	35.16	1.44
Sikkim	28.22	10.74	1.28	51.91	0.07
A & N Islands	52.56	23.67	8.24	0.00	2.64
Eastern Region	36.33	10.05	3.19	35.89	0.90
Arunachal Pradesh	41.59	11.43	0.98	26.09	2.27
Assam	50.60	15.09	1.54	21.05	0.22
Manipur	61.49	10.79	3.40	1.48	1.61
Meghalaya	40.06	8.44	0.85	38.36	0.02
Mizoram	59.99	14.97	0.59	2.93	0.66
Nagaland	56.02	14.37	9.88	0.00	2.19
Tripura	54.91	9.01	3.03	2.85	4.39
North-Eastern Region	50.83	13.53	2.14	18.46	0.83
Total (All India)	27.78	9.47	6.53	26.89	0.93

Table 9.6 (Contd.)
CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY
STATE-WISE
UTILITIES
2018-19

State / UTs	% age of total Energy Sold				
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	0.09	0.00	5.27	1535.45
Delhi	1.71	0.11	1.32	4.48	29168.82
Haryana	1.00	23.68	2.50	3.08	41017.42
Himachal Pradesh	0.00	0.70	6.26	4.12	9040.86
Jammu & Kashmir	0.24	3.62	7.28	14.18	9633.20
Punjab	0.46	22.48	1.64	5.62	50119.80
Rajasthan	0.68	38.74	3.25	1.15	60151.43
Uttar Pradesh	2.44	19.01	1.91	4.49	91355.02
Uttarakhand	0.23	3.90	3.28	1.65	11543.34
Northern Region	1.26	20.60	2.49	4.02	303565.35
Chhattisgarh	4.43	22.69	1.62	0.00	22210.21
Gujarat	0.77	15.21	2.30	1.52	95970.44
Madhya Pradesh	3.43	35.60	2.76	9.00	56972.24
Maharashtra	2.32	26.10	2.15	2.57	132618.57
Daman & Diu	0.00	0.20	0.15	0.46	2431.44
D & N Haveli	0.00	0.12	0.10	0.06	6065.98
Goa	0.00	0.70	0.00	1.47	3787.13
Western Region	2.11	23.30	2.19	3.14	320056.02
Andhra Pradesh	2.77	23.17	1.05	4.47	55406.79
Telangana	1.24	41.25	1.03	2.67	58365.62
Karnataka	0.16	36.52	6.25	1.28	62405.45
Kerala	1.50	1.63	0.00	11.47	21413.72
Tamil Nadu	0.98	14.25	1.24	3.39	91788.33
Puducherry	0.00	2.26	0.00	0.73	2653.82
Lakshadweep	0.00	0.00	0.00	0.22	48.91
Southern Region	1.23	25.06	2.13	3.57	292082.63
Bihar	5.99	3.48	0.50	9.61	20856.40
Jharkhand	3.58	0.99	0.00	2.30	21184.40
Odisha	6.21	2.88	0.80	4.90	19372.82
West Bengal	3.04	3.14	1.98	5.47	48289.72
Sikkim	0.00	0.00	0.00	7.78	380.81
A & N Islands	0.00	0.40	0.00	12.48	254.68
Eastern Region	4.24	2.73	1.10	5.57	110338.83
Arunachal Pradesh	0.00	0.01	0.00	17.64	446.54
Assam	0.00	0.64	1.19	9.67	7268.18
Manipur	0.00	0.35	3.46	17.42	612.78
Meghalaya	0.00	0.01	3.69	8.56	1105.02
Mizoram	0.00	0.00	16.82	4.05	407.76
Nagaland	0.00	0.00	1.53	16.02	679.14
Tripura	0.00	4.26	9.23	12.33	955.69
North-Eastern Region	0.00	0.78	2.75	10.69	11475.10
Total (All India)	1.82	20.57	2.15	3.86	1037517.93

Table 9.6(A)
CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY
STATE-WISE
UTILITIES & NON-UTILITIES
2018-19

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	45.89	30.80	8.15	8.82	0.98
Delhi	52.90	26.41	10.46	1.35	1.26
Haryana	21.83	10.32	4.16	35.01	0.53
Himachal Pradesh	22.70	6.71	2.27	57.29	0.11
Jammu & Kashmir	41.65	13.11	6.24	0.00	0.62
Punjab	27.05	7.02	5.56	31.17	0.30
Rajasthan	18.44	7.17	4.65	30.35	0.52
Uttar Pradesh	38.85	6.39	4.22	24.62	0.92
Uttarakhand	22.60	10.16	2.49	55.91	0.47
Northern Region	30.75	9.42	5.02	27.87	0.67
Chhattisgarh	11.65	3.31	1.21	69.35	0.21
Gujarat	14.10	3.77	14.73	49.86	0.28
Madhya Pradesh	19.33	4.54	1.85	31.88	0.61
Maharashtra	20.54	10.95	7.09	28.48	1.43
Daman & Diu	5.45	2.11	8.12	83.18	0.34
D & N Haveli	2.01	0.56	3.56	93.49	0.10
Goa	28.07	13.20	3.20	53.46	0.06
Western Region	17.06	6.56	7.57	41.90	0.75
Andhra Pradesh	22.42	7.46	8.42	33.31	0.87
Telangana	18.53	9.33	2.02	25.79	0.59
Karnataka	17.20	8.70	3.31	32.69	1.45
Kerala	49.04	11.02	5.32	18.88	1.71
Tamil Nadu	27.48	10.46	8.75	33.59	1.16
Puducherry	25.70	7.56	5.67	57.29	0.98
Lakshadweep	73.54	24.09	0.79	0.00	1.36
Southern Region	23.87	9.27	5.88	31.03	1.10
Bihar	54.28	9.75	2.61	13.79	0.29
Jharkhand	21.19	3.02	1.02	68.93	0.41
Odisha	10.22	2.61	0.55	82.37	0.17
West Bengal	30.83	12.51	4.54	37.62	0.00
Sikkim	28.22	10.74	1.28	51.91	0.07
A & N Islands	52.56	23.67	8.24	0.00	2.64
Eastern Region	23.71	6.56	2.08	58.16	0.59
Arunachal Pradesh	41.59	11.43	0.98	26.09	2.27
Assam	42.48	12.67	1.30	33.72	0.18
Manipur	61.49	10.79	3.40	1.48	1.61
Meghalaya	35.41	7.46	0.75	45.51	0.02
Mizoram	59.99	14.97	0.59	2.93	0.66
Nagaland	56.02	14.37	9.88	0.00	2.19
Tripura	54.91	9.01	3.03	2.85	4.39
North-Eastern Region	44.83	11.93	1.89	28.08	0.74
Total (All India)	23.82	8.12	5.60	37.31	0.80

Table 9.6(A) (Contd.)
CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY
STATE-WISE
UTILITIES & NON-UTILITIES
2018-19

State / UTs	% age of total Energy Sold				
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	0.09	0.00	5.27	1535.64
Delhi	1.71	0.11	1.32	4.48	29170.99
Haryana	0.93	22.04	2.32	2.86	44077.31
Himachal Pradesh	0.00	0.69	6.17	4.06	9164.30
Jammu & Kashmir	0.24	3.62	7.27	14.18	9636.53
Punjab	0.44	21.52	1.57	5.38	52364.09
Rajasthan	0.60	34.36	2.88	1.02	67805.35
Uttar Pradesh	2.19	17.07	1.71	4.03	101735.24
Uttarakhand	0.21	3.60	3.03	1.53	12494.92
Northern Region	1.17	19.07	2.31	3.72	327984.36
Chhattisgarh	2.20	11.26	0.81	0.00	44749.45
Gujarat	0.67	13.25	2.00	1.32	110161.30
Madhya Pradesh	2.82	29.30	2.27	7.40	69234.17
Maharashtra	2.20	24.82	2.04	2.44	139487.92
Daman & Diu	0.00	0.20	0.15	0.46	2431.93
D & N Haveli	0.00	0.12	0.10	0.06	6069.99
Goa	0.00	0.64	0.00	1.36	4103.66
Western Region	1.79	19.82	1.86	2.67	376238.42
Andhra Pradesh	2.42	20.27	0.91	3.91	63341.69
Telangana	1.18	39.06	0.98	2.52	61640.07
Karnataka	0.13	30.26	5.18	1.06	75300.49
Kerala	1.44	1.56	0.00	11.03	22282.88
Tamil Nadu	0.92	13.31	1.16	3.17	98257.02
Puducherry	0.00	2.13	0.00	0.69	2816.20
Lakshadweep	0.00	0.00	0.00	0.22	48.91
Southern Region	1.11	22.61	1.92	3.22	323687.26
Bihar	5.89	3.43	0.49	9.45	21197.80
Jharkhand	2.83	0.78	0.00	1.82	26814.80
Odisha	1.71	0.80	0.22	1.35	70204.68
West Bengal	2.92	3.02	1.90	5.26	50199.36
Sikkim	0.00	0.00	0.00	7.78	380.81
A & N Islands	0.00	0.40	0.00	12.48	254.68
Eastern Region	2.77	1.78	0.72	3.64	169052.12
Arunachal Pradesh	0.00	0.01	0.00	17.64	446.54
Assam	0.00	0.54	1.00	8.12	8657.60
Manipur	0.00	0.35	3.46	17.42	612.78
Meghalaya	0.00	0.01	3.26	7.57	1249.97
Mizoram	0.00	0.00	16.82	4.05	407.76
Nagaland	0.00	0.00	1.53	16.02	679.14
Tripura	0.00	4.26	9.23	12.33	955.69
North-Eastern Region	0.00	0.69	2.42	9.43	13009.47
Total (All India)	1.56	17.64	1.85	3.31	1209971.63

Table 9.7
PER CAPITA ULTIMATE CONSUMPTION OF ELECTRICITY
STATE-WISE/CATEGORY-WISE
UTILITIES
2018-19

(kWh)

State / UTs	Population (Million)	Domestic	Commercial	Industrial Power	
				(Low & Med. Voltage)	(High Voltage)
Chandigarh	1.99	353.93	237.56	62.86	67.94
Delhi	22.90	673.91	336.41	133.27	17.05
Haryana	28.48	337.90	159.69	64.31	434.38
Himachal Pradesh	7.24	287.44	84.91	28.68	708.35
Jammu & Kashmir	12.74	315.13	99.20	47.22	98.65
Punjab	29.77	475.73	123.44	97.72	472.83
Rajasthan	75.45	165.76	64.45	41.74	171.32
Uttar Pradesh	226.81	174.26	28.66	18.93	64.65
Uttarakhand	10.96	257.60	115.80	28.40	550.43
Northern Region	416.34	242.28	74.24	39.58	160.88
Chhattisgarh	26.67	195.57	55.58	20.25	318.64
Gujarat	64.63	240.42	64.34	251.04	630.25
Madhya Pradesh	80.68	165.91	38.94	15.88	121.60
Maharashtra	123.76	231.50	123.42	79.96	265.51
Daman & Diu	0.37	360.27	139.41	536.58	5495.34
D & N Haveli	0.46	264.99	74.19	468.70	12301.19
Goa	2.10	549.90	258.58	62.71	895.99
Western Region	298.65	214.95	82.65	95.38	339.76
Andhra Pradesh	52.24	271.83	90.43	102.07	251.95
Telangana	37.83	301.92	151.99	32.87	333.63
Karnataka	63.74	203.23	102.82	39.14	183.85
Kerala	36.17	302.08	67.89	32.79	92.25
Tamil Nadu	70.23	384.38	146.40	122.45	377.78
Puducherry	1.84	393.70	115.80	86.83	789.40
Lakshadweep	0.08	428.16	140.24	4.58	0.00
Southern Region	262.15	294.73	114.40	72.55	262.54
Bihar	106.86	107.67	19.35	5.18	24.17
Jharkhand	34.73	163.66	23.29	7.87	370.11
Odisha	43.32	165.63	42.32	8.87	161.44
West Bengal	95.56	161.97	65.72	23.85	177.66
Sikkim	0.66	161.84	61.61	7.36	297.70
A & N Islands	0.58	230.01	103.59	36.06	0.00
Eastern Region	281.71	142.28	39.37	12.48	140.58
Arunachal Pradesh	1.35	137.67	37.82	3.25	86.36
Assam	33.38	110.18	32.87	3.36	45.83
Manipur	2.66	141.54	24.85	7.84	3.40
Meghalaya	2.85	155.38	32.75	3.31	148.78
Mizoram	1.09	224.21	55.95	2.19	10.97
Nagaland	2.44	155.66	39.92	27.44	0.00
Tripura	3.93	133.52	21.92	7.37	6.92
North-Eastern Region	47.70	122.27	32.54	5.14	44.41
Total (All India)	1306.55	220.61	75.18	51.85	213.54

Note:-

Source of Population: Office of Registrar General of India as on 1st October 2018

(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
2018-19

(kWh)

State / UTs	Public Lighting	Agriculture	Traction	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	7.58	0.00	0.68	0.00	40.65	771.20
Delhi	16.00	21.82	1.46	16.87	57.12	1273.91
Haryana	8.15	14.39	341.09	35.98	44.34	1440.22
Himachal Pradesh	1.43	0.00	8.70	78.16	51.41	1249.08
Jammu & Kashmir	4.66	1.82	27.40	55.04	107.26	756.38
Punjab	5.30	7.67	378.48	27.67	94.56	1683.40
Rajasthan	4.69	5.39	308.82	25.88	9.18	797.24
Uttar Pradesh	4.14	9.84	76.55	7.68	18.08	402.78
Uttarakhand	5.39	2.45	41.07	34.50	17.40	1053.03
Northern Region	5.27	9.19	150.22	18.19	29.28	729.13
Chhattisgarh	3.54	36.88	188.95	13.51	0.00	832.93
Gujarat	4.83	11.50	225.88	34.16	22.55	1484.97
Madhya Pradesh	5.20	24.19	251.42	19.49	63.54	706.18
Maharashtra	16.09	24.81	279.71	23.04	27.54	1071.58
Daman & Diu	22.39	0.00	13.13	9.98	30.08	6607.19
D & N Haveli	12.58	0.00	15.68	13.54	7.44	13158.31
Goa	1.27	0.00	12.59	0.00	26.66	1807.70
Western Region	9.49	22.60	249.70	23.44	33.69	1071.66
Andhra Pradesh	10.60	29.38	245.74	11.09	47.44	1060.54
Telangana	9.66	19.19	636.42	15.97	41.11	1542.76
Karnataka	17.14	1.57	357.51	61.24	12.55	979.03
Kerala	10.54	8.88	9.64	0.00	67.92	592.00
Tamil Nadu	16.24	12.86	186.20	16.24	44.36	1306.91
Puducherry	15.01	0.00	32.63	0.00	10.50	1443.86
Lakshadweep	7.94	0.00	0.00	0.00	1.29	582.21
Southern Region	13.59	13.68	279.20	23.76	39.77	1114.20
Bihar	0.58	11.69	6.80	0.98	18.76	195.18
Jharkhand	3.18	21.82	6.06	0.00	14.05	610.04
Odisha	2.76	27.78	12.90	3.57	21.92	447.18
West Bengal	7.25	15.36	15.86	10.00	27.65	505.31
Sikkim	0.38	0.00	0.00	0.00	44.62	573.51
A & N Islands	11.54	0.00	1.76	0.00	54.63	437.59
Eastern Region	3.52	16.61	10.69	4.31	21.81	391.67
Arunachal Pradesh	7.50	0.00	0.02	0.00	58.40	331.02
Assam	0.48	0.00	1.40	2.58	21.06	217.77
Manipur	3.72	0.00	0.80	7.96	40.11	230.20
Meghalaya	0.07	0.00	0.04	14.32	33.20	387.86
Mizoram	2.45	0.00	0.00	62.86	15.12	373.75
Nagaland	6.08	0.00	0.00	4.25	44.53	277.88
Tripura	10.68	0.00	10.35	22.43	29.97	243.18
North-Eastern Region	2.01	0.00	1.88	6.61	25.71	240.56
Total (All India)	7.41	14.42	163.34	17.09	30.65	794.09

Table 9.8
ANNUAL ELECTRICITY CONSUMPTION PER SQUARE KILOMETRE
AND PER THOUSAND POPULATION
REGION-WISE/STATE-WISE
(UTILITIES+NON-UTILITIES)
2018-19

State / UTs	Population (Million)	Area in 1000 sq. kms. \$	Total Energy Sold (GWh)	Energy Consum- ed per thousand population (kWh)	Energy Consum- ed per sq. km. (kWh)
Chandigarh	1.99	0.11	1535.64	771289	13960329
Delhi	22.90	1.48	29170.99	1274009	19710126
Haryana	28.48	44.21	44077.31	1547658	996999
Himachal Pradesh	7.24	55.67	9164.30	1266137	164618
Jammu & Kashmir	12.74	222.24	9636.53	756637	43361
Punjab	29.77	50.36	52364.09	1758778	1039795
Rajasthan	75.45	342.24	67805.35	898679	198122
Uttar Pradesh	226.81	240.93	101735.24	448544	422261
Uttarakhand	10.96	53.48	12494.92	1139839	233637
Northern Region	416.34	1010.72	327984.36	787782	324506
Chhattisgarh	26.67	135.19	44749.45	1678209	331012
Gujarat	64.63	196.03	110161.30	1704544	561961
Madhya Pradesh	80.68	308.25	69234.17	858165	224604
Maharashtra	123.76	307.72	139487.92	1127084	453295
Daman & Diu	0.37	0.11	2431.93	6608518	22108498
D & N Haveli	0.46	0.49	6069.99	13167000	12387729
Goa	2.10	3.70	4103.66	1958788	1109097
Western Region	298.65	951.49	376238.42	1259780	395420
Andhra Pradesh	52.24	160.41	63341.69	1212418	394874
Telangana	37.83	114.65	61640.07	1629314	537637
Karnataka	63.74	191.79	75300.49	1181332	392619
Kerala	36.17	38.86	22282.88	616026	573414
Tamil Nadu	70.23	130.06	98257.02	1399015	755475
Puducherry	1.84	0.48	2816.20	1532211	5867092
Lakshadweep	0.08	0.03	48.91	582211	1630191
Southern Region	262.15	636.28	323687.26	1234764	508718
Bihar	106.86	94.16	21197.80	198379	225125
Jharkhand	34.73	79.71	26814.80	772182	336404
Odisha	43.32	155.71	70204.68	1620532	450868
West Bengal	95.56	88.75	50199.36	525296	565627
Sikkim	0.66	7.10	380.81	573509	53635
A & N Islands	0.58	8.25	254.68	437586	30870
Eastern Region	281.71	433.68	169052.12	600086	389808
Arunachal Pradesh	1.35	83.74	446.54	331018	5332
Assam	33.38	78.44	8657.60	259396	110372
Manipur	2.66	22.33	612.78	230195	27442
Meghalaya	2.85	22.43	1249.97	438739	55727
Mizoram	1.09	21.08	407.76	373747	19343
Nagaland	2.44	16.58	679.14	277879	40961
Tripura	3.93	10.49	955.69	243178	91105
North-Eastern Region	47.70	255.09	13009.47	272729	51000
Total (All India)	1306.55	3287.26	1209971.63	926080	368079

Note:-

Source of Population: Office of Registrar General of India as on 1st October 2018

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

Table 9.9
ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY- STATE-WISE
(UTILITIES & NON UTILITIES)
2018-19

State / UTs	Population\$ (Million)	Net Generation of utilities incl net Import & Drawl from Regional Grid (GWh)	Auxiliary Consumption for States own Gen. (GWh)	Auxiliary Consumption for Drawal from Regional Grid (GWh)	Total Auxiliary Consumption (4+5) (GWh)
1	2	3	4	5	6
Chandigarh	1.99	1819.37	0.00	126.65	126.65
Delhi	22.90	33115.76	524.36	1815.05	2339.41
Haryana	28.48	54885.71	1189.32	2464.79	3654.11
Himachal Pradesh	7.24	9720.42	103.06	322.13	425.19
Jammu & Kashmir	12.74	15927.60	124.01	782.83	906.84
Punjab	29.77	56256.70	1205.02	1788.25	2993.27
Rajasthan	75.45	80344.23	3876.55	1649.13	5525.69
Uttar Pradesh	226.81	117822.60	4556.95	3558.82	8115.76
Uttarakhand	10.96	13980.39	129.12	526.70	655.82
Northern Region	416.34	383872.77	11708.39	13034.34	24742.74
Chhattisgarh	26.67	26666.65	1299.66	586.75	1886.41
Gujarat	64.63	117518.89	5275.85	2891.14	8166.99
Madhya Pradesh	80.68	77195.59	2466.50	2712.14	5178.64
Maharashtra	123.76	159660.34	6973.37	3493.50	10466.86
Daman & Diu	0.37	2666.98	0.00	186.02	186.02
D & N Haveli	0.46	6538.77	0.00	457.71	457.71
Goa	2.10	4417.45	0.00	290.99	290.99
Western Region	298.65	394664.67	16015.39	10618.24	26633.63
Andhra Pradesh	52.24	64296.39	2757.29	1307.02	4064.31
Telangana	37.83	67391.46	2282.33	2066.26	4348.59
Karnataka	63.74	72318	2627	1558	4185
Kerala	36.17	25379.51	195.40	1207.81	1403.22
Tamil Nadu	70.23	110858.70	3320.43	3617.34	6937.77
Puducherry	1.84	2842.26	2.70	196.64	199.34
Lakshadweep	0.08	46.50	0.00	0.00	0.00
Southern Region	262.15	343132.35	11185.65	9952.64	21138.28
Bihar	106.86	30767.05	56.55	2068.88	2125.43
Jharkhand	34.73	21921.24	1407.40	52.51	1459.91
Odisha	43.32	32558.51	554.70	961.06	1515.76
West Bengal	95.56	60629.61	3318.55	720.32	4038.88
Sikkim	0.66	542.57	0.42	36.50	36.92
A & N Islands	0.58	323.12	24.14	0.00	24.14
Eastern Region	281.71	146742.09	5361.77	3839.27	9201.04
Arunachal Pradesh	1.35	886.85	0.00	61.82	61.82
Assam	33.38	9499.49	99.51	554.28	653.79
Manipur	2.66	923.12	0.30	64.36	64.66
Meghalaya	2.85	1979.70	18.99	72.12	91.11
Mizoram	1.09	646.60	0.00	27.02	27.02
Nagaland	2.44	818.38	0.00	52.10	52.10
Tripura	3.93	1878.58	63.94	75.66	139.61
North-Eastern Region	47.70	16632.73	182.74	907.37	1090.10
All India	1306.55	1285044.62	44453.94	38351.86	82805.80

Note:

1. Per Capita Electricity Consumption = (Gross Electricity Generated/Mid Year Population)
2. Gross Electricity Generated = Availability to State (i.e. State own Generation + Drawal From regional Grid)+Auxiliary Consumption+Gross Captive Electricity Generation)
3. Auxiliary Consumption
State own Generation - Hydro 2% ; Thermal 8.15%, Drawal From Regional grid - 7%
4. Gross Captive Electricity Generation
Estimated fig. for the year 2018-19.
5. Population
State wise Mid Year Population (1st Oct of year) as projected by Registrar General of India.

Table 9.9 (Contd.)
ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY- STATE-WISE
(UTILITIES & NON UTILITIES)
2018-19

State / UTs	Gross Generation of Utilities+Net Import (3+6) (GWh)	Gross Generation by self Generating 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	1946.02	1.29	1947.32	978
Delhi	35455.17	0.43	35455.60	1548
Haryana	58539.82	746.41	59286.23	2082
Himachal Pradesh	10145.61	117.34	10262.95	1418
Jammu & Kashmir	16834.44	6.23	16840.68	1322
Punjab	59249.97	1665.84	60915.80	2046
Rajasthan	85869.91	10891.41	96761.32	1282
Uttar Pradesh	125938.36	11450.70	137389.06	606
Uttarakhand	14636.21	1443.36	16079.57	1467
Northern Region	408615.51	26323.02	434938.53	1045
Chhattisgarh	28553.06	23727.86	52280.92	1961
Gujarat	125685.89	27979.51	153665.40	2378
Madhya Pradesh	82374.22	5079.85	87454.08	1084
Maharashtra	170127.20	6139.89	176267.09	1424
Daman & Diu	2853.00	1.96	2854.96	7758
D & N Haveli	6996.48	0.89	6997.37	15179
Goa	4708.44	56.50	4764.94	2274
Western Region	421298.30	62986.46	484284.76	1622
Andhra Pradesh	68360.70	8938.55	77299.25	1480
Telangana	71740.05	0.00	71740.05	1896
Karnataka	76502.59	12461.93	88964.53	1396
Kerala	26782.72	603.16	27385.88	757
Tamil Nadu	117796.47	13282.27	131078.74	1866
Puducherry	3041.59	164.80	3206.39	1745
Lakshadweep	46.50	0.00	46.50	554
Southern Region	364270.64	35450.71	399721.35	1525
Bihar	32892.48	372.53	33265.01	311
Jharkhand	23381.15	9208.22	32589.37	938
Odisha	34074.27	36441.94	70516.21	1628
West Bengal	64668.48	2538.32	67206.80	703
Sikkim	579.50	0.00	579.50	873
A & N Islands	347.26	0.00	347.26	597
Eastern Region	155943.13	48561.01	204504.14	726
Arunachal Pradesh	948.67	0.00	948.67	703
Assam	10153.28	1240.92	11394.21	341
Manipur	987.78	0.00	987.78	371
Meghalaya	2070.82	437.88	2508.70	881
Mizoram	673.62	0.00	673.62	617
Nagaland	870.48	0.00	870.48	356
Tripura	2018.19	0.00	2018.19	514
North-Eastern Region	17722.84	1678.80	19401.64	407
All India	1367850.42	175000.00	1542850.42	1181

Table 9.10
ALL INDIA ELECTRICAL ACCIDENTS
STATE-WISE
2018-19

State / UTs	Generating Stations/Transmission & Distribution				Industrial Installations of Consumers	
	Human		Animals		Human	
	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	557	149	435	1	1	0
Assam	6	1	1	0	0	0
Bihar	530	48	38	0	0	0
Chhattisgarh	280	112	583	0	0	1
Goa	3	12	7	1	0	0
Gujarat	240	207	396	58	20	1
Haryana	186	154	87	1	0	0
Himachal Pradesh	20	47	3	0	0	0
Jammu & Kashmir	NA	NA	NA	NA	NA	NA
Karnataka	734	778	1169	494	14	2
Kerala	113	211	56	0	0	0
Madhya Pradesh	768	308	639	9	0	0
Maharashtra	899	580	856	13	0	0
Manipur	6	6	3	0	0	0
Meghalaya	0	0	0	0	0	0
Nagaland	3	2	0	0	0	0
Orissa	57	28	45	1	0	0
Punjab	84	52	6	0	0	0
Rajasthan	384	193	787	11	2	0
Sikkim	NA	NA	NA	NA	NA	NA
Telangana	1197	159	3622	0	0	0
Tamil Nadu	550	318	190	0	0	0
Tripura	NA	NA	NA	NA	NA	NA
Uttar Pradesh	393	187	544	5	0	0
West Bengal	127	99	51	0	0	0
Arunachal Pradesh	2	4	0	0	0	0
Delhi	26	36	4	1	1	0
Mizoram	12	14	1	0	0	0
Uttarakhand	0	0	0	0	0	0
Jharkhand	18	0	22	0	0	0
Mines	NA	NA	NA	NA	NA	NA
Central Govt. Installn.	1	7	0	0	0	0
Railways	NA	NA	NA	NA	NA	NA
Union Territories						
A & N Islands	0	0	0	0	0	2
Chandigarh	1	0	0	0	0	0
D & N Haveli	3	0	0	0	0	0
Daman & Diu	1	0	0	0	0	0
Lakshadweep	NA	NA	NA	NA	NA	NA
Puducherry	3	2	0	0	0	0
Total (All India)	7204	3714	9545	595	38	6

NA - Not Available.

Table 9.10 (Contd.)
ALL INDIA ELECTRICAL ACCIDENTS
STATE-WISE
2018-19

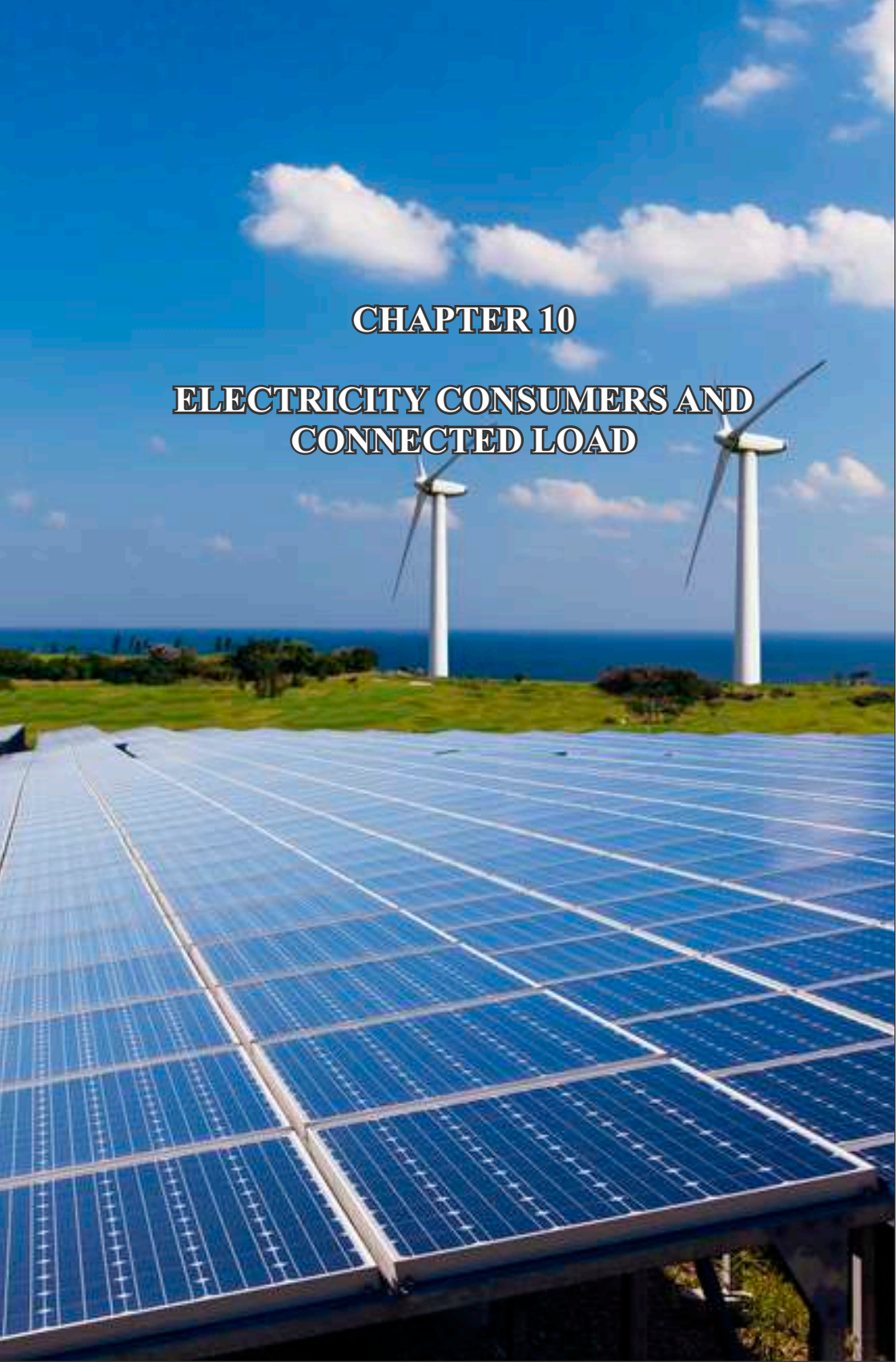
State / UTs	Industrial Installations of Consumers		Installations of Consumers other than Industrial				Total* Accidents
	Animals		Human		Human		
	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal	
Andhra Pradesh	0	0	53	3	0	0	1199
Assam	0	0	0	0	0	0	8
Bihar	0	0	0	0	0	0	616
Chhattisgarh	0	0	8	5	0	0	989
Goa	0	0	1	0	0	0	24
Gujarat	0	0	263	28	24	2	1239
Haryana	0	0	6	1	2	0	437
Himachal Pradesh	0	0	0	0	0	0	70
Jammu & Kashmir	NA	NA	NA	NA	NA	NA	NA
Karnataka	0	0	250	52	28	0	3521
Kerala	0	0	122	9	13	0	524
Madhya Pradesh	0	0	63	13	56	0	1856
Maharashtra	0	0	11	2	0	0	2361
Manipur	0	0	0	0	0	0	15
Meghalaya	0	0	0	0	0	0	0
Nagaland	0	0	0	1	0	0	6
Orissa	0	0	1	0	0	0	132
Punjab	0	0	1	0	0	1	144
Rajasthan	1	0	37	8	50	0	1473
Sikkim	NA	NA	NA	NA	NA	NA	NA
Telangana	0	0	116	8	50	0	5152
Tamil Nadu	0	0	0	0	0	0	1058
Tripura	NA	NA	NA	NA	NA	NA	NA
Uttar Pradesh	0	0	0	0	0	0	1129
West Bengal	0	0	0	0	0	0	277
Arunachal Pradesh	0	0	0	0	0	0	6
Delhi	0	0	5	0	0	0	73
Mizoram	0	0	4	0	0	0	31
Uttarakhand	0	0	56	36	84	0	176
Jharkhand	0	0	0	0	0	0	40
Mines	NA	NA	NA	NA	NA	NA	NA
Central Govt. Installn.	0	0	0	0	0	0	8
Railways	NA	NA	NA	NA	NA	NA	NA
Union Territories							
A & N Islands	1	0	0	0	0	0	3
Chandigarh	0	0	0	0	0	0	1
D.&N. Haveli	0	0	0	0	0	0	3
Daman & Diu	0	0	0	0	0	0	1
Lakshadweep	NA	NA	NA	NA	NA	NA	NA
Puducherry	0	0	0	0	0	0	5
Total (All India)	2	0	997	166	307	3	22577

NA - Not Available.

*Includes total Human Fatal Accidents(8239), Human Non Fatal Accidents(3886) Animal Fatal Accidents(9854) and Animal Non Fatal Accidents(598).

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.

As on 31.03.2019, the total number of electricity consumers were about 298.88 million and the connected load was 713226 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 290691 MW followed by industrial and agricultural sectors having connected load of 165656 MW and 133791 MW respectively.

The Table 10 shows the details of consumers and connected load of different categories in various States/Union Territories.

Table 10
CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD
REGIONWISE/STATEWISE
UTILITIES
31.3.2019

State/UTs	Domestic		Commercial		Industrial (LV&MV)	
	Connected Load(KW)	Consumers	Connected Load(KW)	Consumers	Connected Load(KW)	Consumers
Chandigarh	916992	200030	484709	24925	94059	2673
Delhi	11687302	4950963	6036135	974820	1789753	44475
Haryana	9855223	5150280	3191453	653784	1897404	93352
Himachal Pradesh	3649800	2038482	754700	277523	255299	30524
Jammu & Kashmir	1600234	1602600	374287	212815	637695	22110
Punjab	12464446	6863542	4060200	1091483	2879272	116037
Rajasthan	13769008	11871279	4691485	1327997	2329317	213885
Uttar Pradesh	34855020	22967605	4233925	1464338	2296214	182237
Uttarakhand	2893764	1941096	995644	234335	226549	10229
Sub-Total(NR)	91691788	57585877	24822538	6262020	12405562	715522
Chattisgarh	2958302	4687144	1167230	340906	631981	33944
Gujarat	16057217	13505559	6332869	2065647	7915862	383493
Madhya Pradesh	9083123	11614021	2726142	1028917	1404048	125941
Maharashtra	31965450	23212462	12039651	2655575	6923466	413404
Daman & Diu	123187	48455	22187	7373	112502	1705
Dadra & N. Haveli	110004	63859	28860	8070	121895	2137
Goa	1376255	510554	379427	96494	148521	6162
Sub-Total(WR)	61673539	53642054	22696366	6202982	17258274	966786
Andhra Pradesh	14555350	14984342	4748789	1408837	6801145	179606
Telangana	10515784	10335818	4475809	1244132	1483455	83332
Karnataka	20038652	18695536	6575953	2212866	4552765	462956
Kerala	16381928	9740612	2651040	1494826	2003021	140425
Tamil Nadu	31559971	22159615	11643327	3117970	12227760	679742
Puducherry	575170	348466	128496	55041	127669	6795
Lakshadweep	70671	19674	20800	3960	3050	348
Sub-Total (SR)	93697526	76284063	30244213	9537632	27198865	1553204
Bihar	12188541	13475313	1826809	762438	1315565	92355
Jharkhand	3555871	3480017	498240	223420	296613	16133
Odisha	8024670	7954870	1269804	384273	494293	25335
West Bengal	12571177	19771879	4040615	2139886	2279468	171484
Sikkim	128984	99308	31829	11581	1509	431
A&N Island	183894	112014	73472	18769	25931	581
Sub-Total (ER)	36653138	44893401	7740769	3540367	4413379	306319
Arunachal Pradesh	88953	197063	29009	26092	2761	250
Assam	5183240	5037435	1119880	273205	241678	17961
Manipur	751443	469738	70258	21057	18897	2786
Meghalaya	369827	428802	85572	25219	10206	721
Mizoram	262955	196226	62606	15873	9112	979
Nagaland	108209	268719	17434	22194	11484	4729
Tripura	210414	641504	53190	58935	47873	4347
Sub-Total(NER)	6975041	7239487	1437949	442575	342011	31773
Total (All India)	290691032	239644882	86941835	25985576	61618091	3573604

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).

(b) Data of J&K and Arunachal Pradesh is estimated due to non availability of data

Table 10 (Contd.)
CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD
REGIONWISE/STATEWISE
UTILITIES
31.3.2019

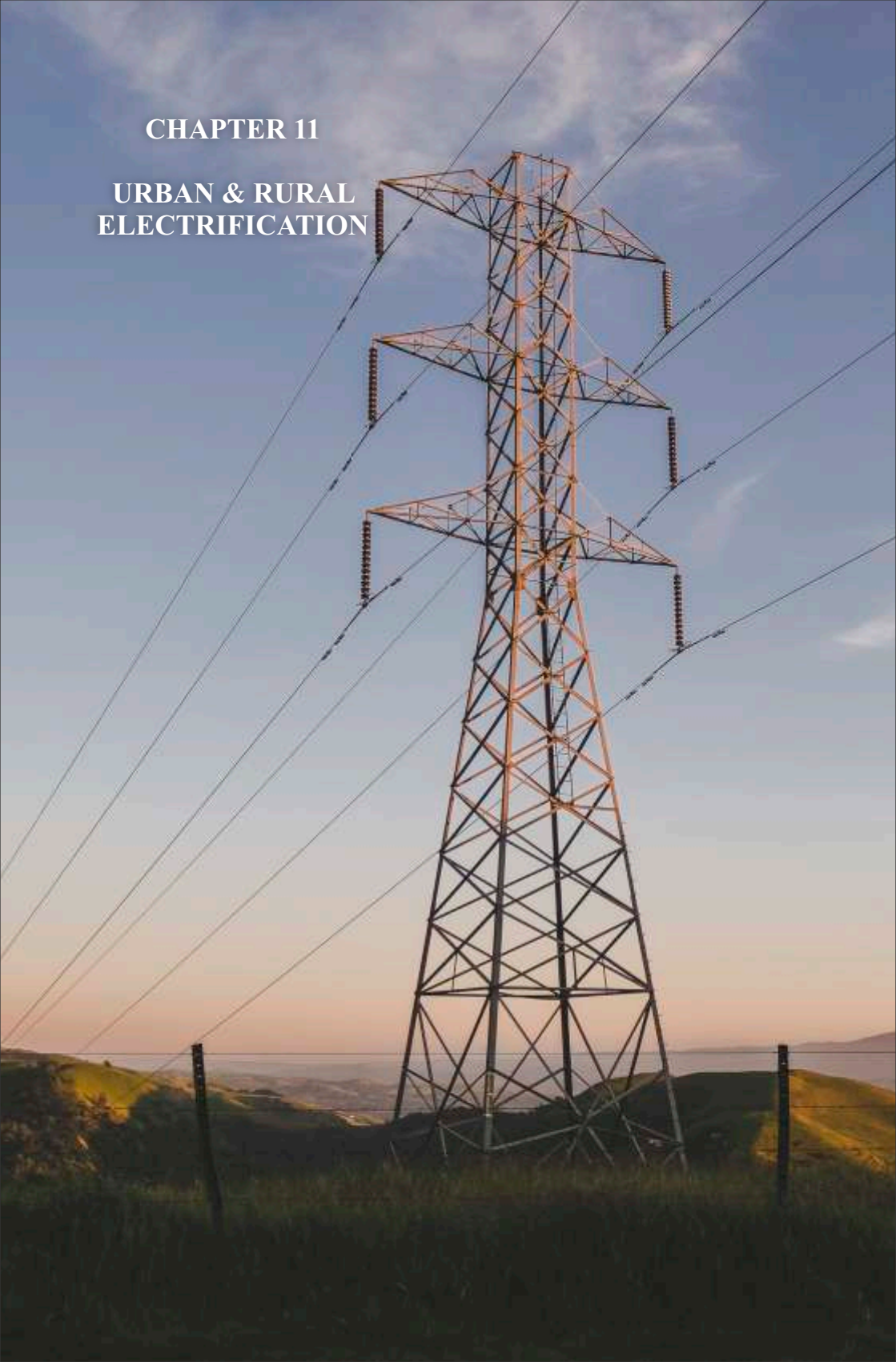
State/UTs	Industrial(H.V.)		Public Lighting		Traction	
	Connected Load(KW)	Consumers	Connected Load(KW)	Consumers	Connected Load(KW)	Consumers
Chandigarh	70294	99	7724	1253	0	0
Delhi	169393	446	170150	14324	80877	9
Haryana	6975005	16327	31606	3367	126162	90
Himachal Pradesh	1729412	3856	6112	1094	0	0
Jammu & Kashmir	35008	14	12631	298	0	0
Punjab	6469809	8223	59413	4469	79908	8
Rajasthan	8443699	31860	368491	21057	0	0
Uttar Pradesh	6168131	16324	257019	6375	170485	10
Uttarakhand	1762523	2329	15883	1470	15000	2
Sub-Total(NR)	31823274	79478	929029	53707	472432	119
Chattisgarh	2347130	1901	42920	7020	355700	23
Gujarat	11625648	17369	171457	46349	14757	16
Madhya Pradesh	2363520	5472	133879	19250	10	2
Maharashtra	19322136	14264	419499	97230	104128	98
Daman & Diu	541148	788	1447	635	0	0
Dadra & N. Haveli	1170027	913	2789	388	0	0
Goa	591280	793	1604	215	0	0
Sub-Total(WR)	37960888	41500	773595	171087	474595	139
Andhra Pradesh	5097002	3878	502502	83472	591094	65
Telangana	3910330	7010	186468	74772	238565	44
Karnataka	5224608	17856	530253	147452	25787	178
Kerala	1130289	2437	164202	35163	98463	19
Tamil Nadu	7170700	6139	2266653	721513	340500	33
Puducherry	510732	552	6252	52418	0	0
Lakshadweep	0	0	246	75	0	0
Sub-Total(SR)	23043660	37872	3656576	1114865	1294408	339
Bihar	647798	1122	26241	2483	97620	11
Jharkhand	2506455	2380	29080	797	41421	2
Odisha	2447271	1869	32905	6609	432780	37
West Bengal	4038206	4614	135739	43228	418775	75
Sikkim	73360	799	59	34	0	0
A&N Island	0	0	3599	689	0	0
Sub-Total(ER)	9713090	10784	227622	53840	990596	125
Arunachal Pradesh	62034	42	6783	1747	0	0
Assam	1142228	4296	7307	1756	0	0
Manipur	13708	98	3896	951	0	0
Meghalaya	186745	140	414	57	0	0
Mizoram	10293	187	921	1283	0	0
Nagaland	0	0	8000	621	0	0
Tripura	82880	1063	12808	2018	0	0
Sub-Total(NER)	1497889	5826	40129	8433	0	0
Total (All India)	104038802	175460	5626950	1401932	3232032	722

Table 10 (Contd.)
CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD
REGIONWISE/STATEWISE
UTILITIES
31.3.2019

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	769	119	0	0	45521	1423	1620068	230522
Delhi	58225	10576	165989	1741	199564	2992	20357386	6000346
Haryana	7071461	638191	422033	21373	186026	659	29756373	6577423
Himachal Pradesh	516091	38517	0	0	387339	47184	7298753	2437180
Jammu & Kashmir	146391	21518	119587	2719	328347	12482	3254182	1874556
Punjab	9776887	1378960	256952	14949	369248	577	36416135	9478248
Rajasthan	15050440	1454245	845743	76210	382281	50137	45880464	15046670
Uttar Pradesh	8541948	1222621	480044	19585	2200720	191249	59203506	26070344
Uttarakhand	237467	34228	95985	1605	58846	77	6301661	2225371
Sub-Total(NR)	41399680	4798975	2386332	138182	4157893	306780	210088528	69940660
Chhattisgarh	1350578	516653	102750	25850	0	0	8956591	5613441
Gujarat	16269593	1649438	1007712	90078	219566	63777	59614680	17821726
Madhya Pradesh	9641792	2810764	251449	31458	485784	3711	26089747	15639536
Maharashtra	16857552	4246157	938229	54017	1629758	117090	90199869	30810297
Daman & Diu	3824	1299	748	110	4150	511	809193	60876
Dadra & N. Haveli	6200	1297	8254	434	2765	381	1450792	77479
Goa	55031	11762	0	0	30991	5427	2583109	631407
Sub-Total(WR)	44184570	9237370	2309142	201947	2373013	190897	189703981	70654762
Andhra Pradesh	9244032	1740418	470039	45308	2722165	151887	44732118	18597813
Telangana	10497773	2305318	300461	58670	1173596	63522	32782240	14172618
Karnataka	14314630	2969013	1542675	193709	2667905	874437	55473227	25574003
Kerala	948794	470780	1500	10	2143851	725801	25523088	12610073
Tamil Nadu	10615886	2117440	0	0	2186444	528915	78011241	29331367
Puducherry	45241	6939	139852	134	2843	35542	1536255	505887
Lakshadweep	0	0	0	0	158	246	94925	24303
Sub-Total(SR)	45666356	9609908	2454527	297831	10896961	2380350	238153093	100816064
Bihar	544185	228423	56347	3700	0	1	16703106	14565846
Jharkhand	66057	58214	0	0	230240	12	7223977	3780975
Odisha	485148	116156	79053	10484	571793	43641	13837719	8543274
West Bengal	1279280	312034	469023	22563	322716	5013	25554999	22470776
Sikkim	0	0	0	0	35868	1863	271609	114016
A&N Island	3284	381	0	0	16726	1556	306904	133990
Sub-Total(ER)	2377954	715208	604423	36747	1177343	52086	63898314	49608877
Arunachal Pradesh	22	18	2628	82	25246	93	217436	225387
Assam	132467	31578	57294	4566	458695	51152	8342790	5421949
Manipur	961	64	22477	203	50406	731	932045	495628
Meghalaya	224	18	13796	430	58863	2522	725647	457909
Mizoram	0	0	47507	64	20975	21143	414369	235755
Nagaland	10	1	750	38	36898	1962	182785	298264
Tripura	29059	5943	65072	5811	65832	2334	567128	721955
Sub-Total(NER)	162743	37622	209524	11194	716914	79937	11382200	7856847
Total (All India)	133791303	24399083	7963948	685901	19322124	3010050	713226117	298877210

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."

As per the information received from the MIS of DDUGJY as on 31st March 2019, 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 21791975 as on 31st March, 2019. Maharashtra has maximum number of energized pump- sets (4360386) followed by Karnataka (2521284). The average capacity and electricity consumption per pump-set was 6.14 kW and 9790 kWh respectively. The electricity consumption during 2018-19 in Agriculture sector is third highest being 20.47 % of total consumption of electricity in the country.

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.

Table 11.1
TOWNS ELECTRIFIED
31.03.2019

Name of the State/UTs	Total No. of Towns as per 2011 Census	Towns Electrified	% age Electrified
Chandigarh	6	6	100.00
Delhi	113	113	100.00
Haryana	154	154	100.00
Himachal Pradesh	59	59	100.00
Jammu & Kashmir	122	122	100.00
Punjab	217	217	100.00
Rajasthan	297	297	100.00
Uttar Pradesh	915	915	100.00
Uttarakhand	116	116	100.00
Sub-Total (NR)	1999	1999	100.00
Chhattisgarh	182	182	100.00
Gujarat	348	348	100.00
Madhya Pradesh	476	476	100.00
Maharashtra	535	535	100.00
Daman & Diu	8	8	100.00
D. & N. Haveli	6	6	100.00
Goa	70	70	100.00
Sub-Total(WR)	1625	1625	100.00
Andhra Pradesh	195	195	100.00
Telangana (erstwhile AP)*	158	158	100.00
Karnataka	347	347	100.00
Kerala	520	520	100.00
Tamil Nadu	1097	1097	100.00
Puducherry	10	10	100.00
Lakshadweep	6	6	100.00
Sub-Total(SR)	2333	2333	100.00
Bihar	199	199	100.00
Jharkhand	228	228	100.00
Odisha	223	223	100.00
West Bengal	909	909	100.00
Sikkim	9	9	100.00
A. & N. Islands	5	5	100.00
Sub-Total(ER)	1573	1573	100.00
Arunachal Pradesh	27	27	100.00
Assam	214	214	100.00
Manipur	51	51	100.00
Meghalaya	22	22	100.00
Mizoram	23	23	100.00
Nagaland	26	26	100.00
Tripura	42	42	100.00
Sub-Total (NER)	405	405	100.00
Total (All India)	7935	7935	100.00

Table 11.2
ALL INDIA VILLAGES ELECTRIFIED
STATEWISE
31.03.2019

Name of the State/UTs	Total Inhabited Villages as per 2011 census	Villages Electrified as on 31.03.2019	% age Electrified
Chandigarh	5	5	100.00
Delhi	103	103	100.00
Haryana	6642	6642	100.00
Himachal Pradesh	17882	17882	100.00
Jammu & Kashmir	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
31.03.2019

Name of the State/UTs	Number. of Pumpsets Energised up to 31.03.2018	New Pumpsets Energised during the year 2018-19	No. of Existing Pumpsets Energised upto 31.03.2019	Agricultural Consumption	
				Energy (GWh)	% of total Consumption in the state
Chandigarh	421	0	421	1.36	0.09
Delhi	30575	0	30575	33.43	0.11
Haryana	616776	2109	618885	9714.29	23.68
Himachal Pradesh	31798	2351	34149	62.98	0.70
Jammu & Kashmir	9714	0	9714	349.00	3.62
Punjab	1268252	0	1268252	11268.38	22.48
Rajasthan	1370209	124637	1494846	23300.35	38.74
Uttar Pradesh	997410	0	997407	17362.03	19.01
Uttarakhand	28054	0	28054	450.19	3.90
Sub-Total (NR)	4353209	129097	4482303	62542.01	20.60
Chhattisgarh	402987	21799	424786	5038.43	22.69
Gujarat	1590314	11269	1601583	14598.35	15.21
Madhya Pradesh	1487603	0	1487603	20283.80	35.60
Maharashtra	4306381	54005	4360386	34616.34	26.10
Daman & Diu	1243	0	1243	4.83	0.20
D. & N. Haveli	953	0	953	7.23	0.12
Goa	8499	0	8499	26.37	0.70
Sub-Total(WR)	7797980	87073	7885053	74575.35	23.30
Andhra Pradesh	1330485	4555	1335040	12838.59	23.17
Telangana	2189745	37671	2227416	24077.04	41.25
Karnataka	2521284	0	2521284	22788.19	36.52
Kerala	523559	7688	531247	348.67	1.63
Tamil Nadu	2100785	18738	2119523	13077.16	14.25
Puducherry	6884	46	6930	59.97	2.26
Lakshadweep	0	0	0	0.00	0.00
Sub-Total(SR)	8672742	68698	8741440	73189.62	25.06
Bihar	285501	0	285501	726.71	3.48
Jharkhand	9453	0	9453	210.36	0.99
Odisha	78200	0	78200	558.89	2.88
West Bengal	302243	5024	307267	1515.55	3.14
Sikkim	0	0	0	0.00	0.00
A. & N. Islands	0	0	0	1.02	0.40
Sub-Total(ER)	675397	5024	680421	3012.54	2.73
Arunachal Pradesh	0	0	0	0.03	0.01
Assam	3675	0	3675	46.71	0.64
Manipur	108	0	108	2.12	0.35
Meghalaya	24	0	24	0.13	0.01
Mizoram	0	0	0	0.00	0.00
Nagaland	194	0	194	0.00	0.00
Tripura	5746	0	5746	40.67	4.26
Sub-Total (NER)	9747	0	9747	89.67	0.78
Total (All India)	21509075	289892	21798964	213409.18	20.57

Note : 3 Nos. of pumpsets have been de-ensured in Uttar Pradesh during 2018-19

Table 11.3 (Contd.)
ALL INDIA IRRIGATION PUMPSETS/ TUBEWELLS
ENERGISED - STATEWISE
31.03.2019

Name of the State/Uts	Agricultural Connected Load (kW)	Average.Capacity pumpset (kW)	Av. Consumption per pumpset (kWh)
Chandigarh	769	1.83	3230
Delhi	58225	1.90	1093
Haryana	7071461	11.43	15696
Himachal Pradesh	516091	15.11	1844
Jammu & Kashmir	146391	15.07	35928
Punjab	9776887	7.71	8885
Rajasthan	15050440	10.07	15587
Uttar Pradesh	8541948	8.56	17407
Uttarakhand	237467	8.46	16047
Sub-Total (NR)	41399680	9.24	13953
Chhattisgarh	1350578	3.18	11861
Gujarat	16269593	10.16	9115
Madhya Pradesh	9641792	6.48	13635
Maharashtra	16857552	3.87	7939
Daman & Diu	3824	3.08	3887
D. & N. Haveli	6200	6.51	7587
Goa	55031	6.47	3103
Sub-Total(WR)	44184570	5.60	9466
Andhra Pradesh	9244032	6.92	9617
Telangana	10497773	4.71	10809
Karnataka	14314630	5.68	9038
Kerala	948794	1.79	656
Tamil Nadu	10615886	5.01	6170
Puducherry	45241	6.53	8654
Lakshadweep	0	0.00	0
Sub-Total(SR)	45666356	5.22	8373
Bihar	544185	1.91	2545
Jharkhand	66057	6.99	22253
Odisha	485148	6.20	7147
West Bengal	1279280	4.16	4932
Sikkim	0	0.00	0
A. & N. Islands	3284	0.00	0
Sub-Total(ER)	2377954	3.49	4427
Arunachal Pradesh	22	0.00	0
Assam	132467	36.05	12712
Manipur	961	8.90	19630
Meghalaya	224	9.33	5292
Mizoram	0	0.00	0
Nagaland	10	0.05	0
Tripura	29059	5.06	7079
Sub-Total (NER)	162743	16.70	9199
Total (All India)	133791303	6.14	9790

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 utilisation of energy; promote exchange of power with the neighbouring countries and easy access for exchange of power within the country from surplus to deficit system. The Chapter on Power Trading has been incorporated in the General Review with a view that it may be useful to the utilities for entering into power exchange.

There are Thirty Seven (37) numbers of trading companies having trading license as on 31-03-2019. These trading companies have been classified as per the volume of trade permitted during the year, based on I to IV category of license for trading. The total volume of electrical energy traded by the companies during 2018-19 was 18301.66 GWh which constitute 1.33 % of the total generation from utilities as against 15728.47 GWh which constituted 1.21% of the total generation from utilities in the previous year 2017-18.

Out of total volume of trade of 18301.66 GWh, Power Trading Corporation which has traded 6702.50 GWh constituting 36.62% of total volume of trade followed by NVVNL which traded 3555.20 GWh constituting 19.43%, MPL which traded 3517.85 GWh constituting 19.22%, APPCPL which traded 1580.73 GWh constituting 8.64%, & of the total volume of trade which amounts to 83.91 % of the total volume of electricity traded.

The chapter at the outset enumerates the 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.

Table 12.1
NAME OF THE TRADING COMPANIES EXISTING
as on 31.03.2019

Sl. No.	Name of the Trading Licensee	Date of Issue	Present Category of License
1	Adani Enterprises Ltd.	09.06.2004	I
2	Tata Power Trading Company Ltd.	09.06.2004	I
3	PTC India Ltd.	30.06.2004	I
4	NTPC Vidyut Vyapar Nigam Ltd.	23.07.2004	I
5	National Energy Trading & Services Ltd.	23.07.2004	I
6	JSW Power Trading Company Ltd.	25.04.2006	I
7	GMR Energy Trading Ltd	14.10.2008	I
8	Global Energy (P) Ltd.	28.11.2008	I
9	Knowledge Infrastructure Systems (P) Ltd	18.12.2008	I
10	Shree Cement Ltd	16.03.2010	I
11	Jai Prakash Associates Ltd.	23.03.2011	I
12	Statkraft Markets (P) Ltd.	21.06.2012	I
13	Manikaran Power Limited, Kolkata	29.06.2012	I
14	Solar Energy Corporation of India	01.04.2014	I
15	IL&FS Energy Development Company Ltd.	04.09.2014	I
16	NHPC Limited	23.04.2018	I
17	NLC India Ltd.	13.07.2018	I
18	Refex Energy Ltd.	30.08.2018	I
19	Essar Electric Power Development Corporation Ltd.	14.12.2005	II
20	RPG Power Trading Company Ltd	23.09.2008	II
21	Kreate Energy (I) Pvt. Ltd.	12.02.2009	II
22	Arunachal Pradesh Power Corporation (P) Limited, Itanagar	11.09.2012	II
23	Amplus Energy Solutions (P) Ltd	17.04.2017	II
24	Instinct Infra & Power Ltd.	07.09.2005	III
25	Greenko Energies (P)Ltd.	22.01.2008	III
26	Shyam Indus Power Solutions (P) Ltd	11.11.2008	III
27	ABJA Power Pvt. Ltd	26.04.2011	III
28	Customised Energy Solutions India (P) Ltd.	08.06.2011	III
29	IPCL Power Trading (P) Ltd.	10.02.2015	III
30	Gita Power & Infrastructure(P) Ltd.	20.10.2015	III
31	Jindal Poly Films Limited	20.09.2017	III
32	Ambitious Power Trading Company Ltd.	16.09.2008	IV
33	Vedprakash Power (P) Limited	19.08.2013	IV
34	Parshavnath Power Projects (P) Ltd.	19.05.2014	IV
35	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
36	Renew Solar Services Pvt. Ltd.	27.01.2017	IV
37	Atria Energy Services Pvt. Ltd.	20.06.2017	IV

Trading Limit for Category of License

Category I : No limit

Category II : Up to 1500 MU

Category III : Up to 500 MU

Category IV : Up to 100 MU

Source – CERC

Table 12.2
STATE WISE IMPORT/EXPORT OF TRADED ENERGY DURING
2018-19

(Gwh)

State/UTs	Export Gwh	Import Gwh
Chandigarh	0.00	0.00
Delhi	201.98	852.35
Haryana	21.66	647.86
Himachal Pradesh	2678.21	49.08
Jammu & Kashmir	1026.26	0.00
Punjab	448.42	737.32
Rajasthan	505.51	0.00
Uttar Pradesh	0.00	6232.32
Uttarakhand	0.00	850.30
Northern Region	4882.04	9369.25
Chhattisgarh	2139.25	500.52
Gujarat	654.82	1037.08
Madhya Pradesh	2747.35	19.12
Maharashtra	76.46	1194.07
Daman & Diu	0.00	0.00
Dadar & Nagar Haveli	0.00	133.87
Goa	0.00	241.82
Western Region	5617.88	3126.48
Andhra Pradesh	4623.14	150.20
Telangana	1026.23	1385.20
Karnataka	62.47	108.57
Kerala	0.00	0.00
Tamil Nadu	516.36	701.33
Puducherry	0.00	0.00
Lakshadweep	0.00	0.00
Southern Region	6228.20	2345.30
Bihar	0.00	735.46
Jharkhand	49.60	0.00
West Bengal	1227.71	273.20
Odisha	88.59	145.37
Sikkim	184.30	2.55
A. & N. Islands	0.00	0.00
Eastern Region	1550.20	1156.57
Arunachal Pradesh	0.00	0.00
Assam	0.58	0.00
Manipur	0.00	0.29
Meghalaya	7.54	0.24
Mizoram	14.99	0.00
Nagaland	0.00	0.00
Tripura	0.24	4.15
North-Eastern Region	23.35	4.68
Central Sector	0.00	0.00
Other Country	0.00	2241.56
Inter Trader	0.00	57.81
All India	18301.66	18301.66

Table 12.3
STATE WISE IMPORT FIGURES DURING
2018-19

State/UTs	Peak	Round the Clock	Other than Peak	Total
Chandigarh	0.00	0.00	0.00	0.00
Delhi	2.99	741.74	107.62	852.35
Haryana	0.54	611.38	35.95	647.86
Himachal Pradesh	0.00	49.08	0.00	49.08
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	0.00	737.32	0.00	737.32
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	154.98	5886.06	191.29	6232.32
Uttarakhand	0.00	850.30	0.00	850.30
Northern Region	158.50	8875.89	334.86	9369.25
Chhattisgarh	0.00	255.85	244.68	500.52
Gujarat	0.00	940.65	96.43	1037.08
Madhya Pradesh	0.00	0.00	19.12	19.12
Maharashtra	0.00	933.17	260.90	1194.07
Daman & Diu	0.00	0.00	0.00	0.00
Dadar & Nagar Haveli	0.00	106.74	27.13	133.87
Goa	4.18	161.89	75.74	241.82
Western Region	4.18	2398.30	724.00	3126.48
Andhra Pradesh	0.00	150.20	0.00	150.20
Telangana	0.00	1319.98	65.23	1385.20
Karnataka	0.00	108.57	0.00	108.57
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	0.00	701.33	0.00	701.33
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Southern Region	0.00	2280.08	65.23	2345.30
Bihar	167.42	0.00	568.04	735.46
Jharkhand	0.00	0.00	0.00	0.00
West Bengal	8.96	243.99	20.25	273.20
Odisha	0.00	102.50	42.86	145.37
Sikkim	0.00	0.00	2.55	2.55
A. & N. Islands	0.00	0.00	0.00	0.00
Eastern Region	176.39	346.49	633.70	1156.57
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Manipur	0.00	0.00	0.29	0.29
Meghalaya	0.00	0.00	0.24	0.24
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	3.01	0.24	0.90	4.15
North-Eastern Region	3.01	0.24	1.43	4.68
Central Sector	0.00	0.00	0.00	0.00
Other Country	0.00	2241.56	0.00	2241.56
Inter Trader	0.00	57.81	0.00	57.81
All India	342.07	16200.37	1759.21	18301.66

Table 12.4
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY DURING
2018-19

(Gwh)

State/UTs	Import	Export	Trader
Delhi	0.00	100.16	APPCL
	9.70	0.00	EEPDCL
	28.12	8.29	GMR
	12.86	0.00	KEIPL
	18.00	44.49	NVVNL
	564.29	14.73	PTC
	219.39	0.00	REL
	0.00	34.31	TPTCL
Total	852.35	201.98	
Haryana	25.24	0.00	GMR
	36.48	0.00	NVVNL
	562.84	0.00	PTC
	23.30	21.66	TPTCL
Total	647.86	21.66	
Himachal Pradesh	0.00	948.94	APPCL
	0.00	6.44	MPL
	0.00	65.09	KEIPL
	49.08	1386.86	PTC
	0.00	270.89	TPTCL
Total	49.08	2678.21	
Jammu & Kashmir	0.00	988.54	PTC
	0.00	37.73	TPTCL
Total	0.00	1026.26	
Punjab	737.32	0.00	APPCPL
	0.00	3.60	I IPL
	0.00	136.31	MPL
	0.00	153.64	PTC
	0.00	154.87	TPTCL
Total	737.32	448.42	
Rajasthan	0.00	281.14	GMR
	0.00	4.99	PTC
	0.00	219.39	REL
Total	0.00	505.51	
Uttar Pradesh	276.95	0.00	APPCPL
	4.02	0.00	GMR
	3.60	0.00	I IPL
	2053.70	0.00	MPL
	66.10	0.00	KEIPL
	647.31	0.00	NVVNL
	2713.92	0.00	PTC
	466.72	0.00	TPTCL
Total	6232.32	0.00	
Uttarakhand	309.39	0.00	GMR

Table 12.4 (Contd.)
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY DURING
2018-19

(Gwh)

State/UTs	Import	Export	Trader
	6.44	0.00	MPL
	451.33	0.00	PTC
	83.14	0.00	TPTCL
Total	850.30	0.00	
Northern Region	9369.25	4882.04	
Chhattisgarh	0.00	0.15	AEL
	17.68	56.33	APPCPL
	0.00	205.24	GMR
	22.25	20.25	MPL
	0.00	6.38	KEIPL
	0.00	27.26	NHPC
	44.49	299.84	NVVNL
	198.34	1026.06	PTC
	217.76	497.73	TPTCL
Total	500.52	2139.25	
Gujarat	0.00	286.25	AEL
	37.85	14.65	APPCPL
	0.00	76.06	GMR
	0.00	13.02	KEIPL
	669.41	155.09	NVVNL
	69.56	42.14	PTC
	260.25	67.61	TPTCL
Total	1037.08	654.82	
Madhya Pradesh	0.00	0.55	APPCPL
	0.00	9.70	EEPDC
	0.00	58.17	GMR
	0.00	84.05	KEIPL
	0.00	130.30	MPL
	0.00	99.64	NVVNL
	0.00	2226.42	PTC
	19.12	138.53	TPTCL
Total	19.12	2747.35	
Maharashtra	378.14	0.00	APPCPL
	11.51	26.13	GMR
	0.00	50.34	MPL
	29.56	0.00	KEIPL
	259.15	0.00	NVVNL
	456.56	0.00	PTC
	59.14	0.00	TPTCL
Total	1194.07	76.46	
Goa	8.29	0.00	GMR
	5.52	0.00	MPL

Table 12.4 (Contd.)
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY DURING
2018-19

(Gwh)

State/UTs	Import	Export	Trader
	8.66	0.00	KEIPL
	200.75	0.00	NVVNL
	4.18	0.00	PTC
	14.43	0.00	TPTCL
Total	241.82	0.00	
D & N Haveli	133.87	0.00	GMR
Total	133.87	0.00	
Western Region	3126.48	5617.88	
Andhra Pradesh	23.53	421.92	APPCPL
	0.00	88.92	KEIPL
	34.97	3139.25	MPL
	0.00	282.34	NVVNL
	91.69	646.35	PTC
	0.00	44.36	TPTCL
Total	150.20	4623.14	
Telangana	324.70	0.00	AEL
	122.72	0.00	GMR
	50.34	0.00	MPL
	445.51	1004.94	NVVNL
	425.49	0.00	PTC
	16.46	21.29	TPTCL
Total	1385.20	1026.23	
Karnataka	0.00	38.94	AEL
	0.00	23.53	APPCPL
	108.57	0.00	PTC
Total	108.57	62.47	
Tamil Nadu	313.52	34.97	MPL
	0.00	481.39	NVVNL
	387.81	0.00	PTC
Total	701.33	516.36	
Southern Region	2345.30	6228.20	
Bihar	88.92	0.00	KEIPL
	83.99	0.00	MPL
	450.24	0.00	PTC
	112.31	0.00	TPTCL
Total	735.46	0.00	
Jharkhand	0.00	4.02	GMR
	0.00	38.09	PTC
	0.00	7.49	TPTCL
Total	0.00	49.60	
Odisha	44.11	12.19	APPCPL
	27.38	62.17	GMR

Table 12.4 (Contd.)
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY DURING
2018-19

(Gwh)

State/UTs	Import	Export	Trader
	73.88	0.00	KEIPL
	0.00	14.23	NVVNL
Total	145.37	88.59	
West Bengal	0.64	0.00	AEL
	62.31	0.00	APPCPL
	0.69	0.00	MPL
	27.26	0.00	NHPC
	0.00	1172.43	NVVNL
	103.42	0.00	PTC
	78.88	55.28	TPTCL
Total	273.20	1227.71	
Sikkim	2.55	2.46	APPCPL
	0.00	7.14	GMR
	0.00	174.70	PTC
Total	2.55	184.30	
Eastern Region	1156.57	1550.20	
Assam	0.00	0.58	NVVNL
Total	0.00	0.58	
Manipur	0.29	0.00	APPCPL
Total	0.29	0.00	
Meghalaya	0.00	7.54	KEIPL
	0.24	0.00	NVVNL
Total	0.24	7.54	
Mizoram	0.00	14.99	KEIPL
Total	0.00	14.99	
Tripura	3.91	0.24	NVVNL
	0.24	0.00	TPTCL
Total	4.15	0.24	
North Eastern Region	4.68	23.35	
Central Sector	0.00	0.00	
All India	16002.28	18301.66	
Export/Import from other country	946.44	0.00	MPL
	1229.95	0.00	NVVNL
	65.18	0.00	PTC
Total Other Country	2241.55	0.00	
Inter Trader	57.81	0.00	GMR
Total	57.81	0.00	
Grand Total	18301.66	18301.66	

Table 12.5
Trader-wise State-wise Energy sales during
2018-19

(Gwh)

Trader	Sales to	Sales Vol.	% Vol.
AEL	Telangana	324.70	
	West Bengal	0.64	
Total AEL		325.33	1.78
APPCPL	Andhra Pradesh	23.53	
	Chhattisgarh	17.68	
	Gujarat	37.85	
	Maharashtra	378.14	
	Manipur	0.29	
	Odisha	44.11	
	Punjab	737.32	
	Sikkim	2.55	
	Uttar Pradesh	276.95	
	West Bengal	62.31	
Total APPCPL		1580.73	8.64
EEPDCL	Delhi	9.70	
Total EEPDCL		9.70	0.05
GMR	*	57.81	
	Delhi	28.12	
	Dadar & Nagar Haveli	133.87	
	Goa	8.29	
	Haryana	25.24	
	Maharashtra	11.51	
	Odisha	27.38	
	Telangana	122.72	
	Uttar Pradesh	4.02	
	Uttarakhand	309.39	
Total GMR		728.35	3.98
IPL	Uttar Pradesh	3.60	
Total IPL		3.60	0.02
KEIPL	Bihar	88.92	
	Delhi	12.86	
	Goa	8.66	
	Maharashtra	29.56	
	Odisha	73.88	
	Uttar Pradesh	66.10	
Total KEIPL		279.99	1.53
MPL	Andhra Pradesh	34.97	
	Bihar	83.99	
	Chhattisgarh	22.25	
	Goa	5.52	
	Nepal	946.44	
	Tamil Nadu	313.52	
	Telangana	50.34	
	Uttar Pradesh	2053.70	
	Uttarakhand	6.44	
	West Bengal	0.69	
Total MPL		3517.85	19.22
NHPC	West Bengal	27.26	
Total NHPC		27.26	0.15

Table 12.5 (Contd.)
Trader-wise State-wise Energy sales during
2018-19

(Gwh)

Trader	Sales to	Sales Vol.	% Vol.
NVVNL	Chhattisgarh	44.49	
	Delhi	18.00	
	Goa	200.75	
	Gujarat	669.41	
	Haryana	36.48	
	Maharashtra	259.15	
	Meghalaya	0.24	
	Nepal	1229.95	
	Telangana	445.51	
	Tripura	3.91	
	Uttar Pradesh	647.31	
Total NVVNL		3555.20	19.43
PTC	Andhra Pradesh	91.69	
	Bihar	450.24	
	Chhattisgarh	198.34	
	Delhi	564.29	
	Goa	4.18	
	Gujarat	69.56	
	Haryana	562.84	
	Himachal Pradesh	49.08	
	Karnataka	108.57	
	Maharashtra	456.56	
	Nepal	65.18	
	Tamil Nadu	387.81	
	Telangana	425.49	
	Uttar Pradesh	2713.92	
	Uttarakhand	451.33	
	West Bengal	103.42	
Total PTC		6702.50	36.62
REL	Delhi	219.39	
Total REL		219.39	1.20
TPTCL	Bihar	112.31	
	Chhattisgarh	217.76	
	Goa	14.43	
	Gujarat	260.25	
	Haryana	23.30	
	Madhya Pradesh	19.12	
	Maharashtra	59.14	
	Telangana	16.46	
	Tripura	0.24	
	Uttar Pradesh	466.72	
	Uttarakhand	83.14	
	West Bengal	78.88	
Total TPTCL		1351.75	7.39
Total All India		18301.66	100.00

* Inter Trader Exchange

Volume of Electricity Traded Sale Price wise 2015-16 to 2018-19

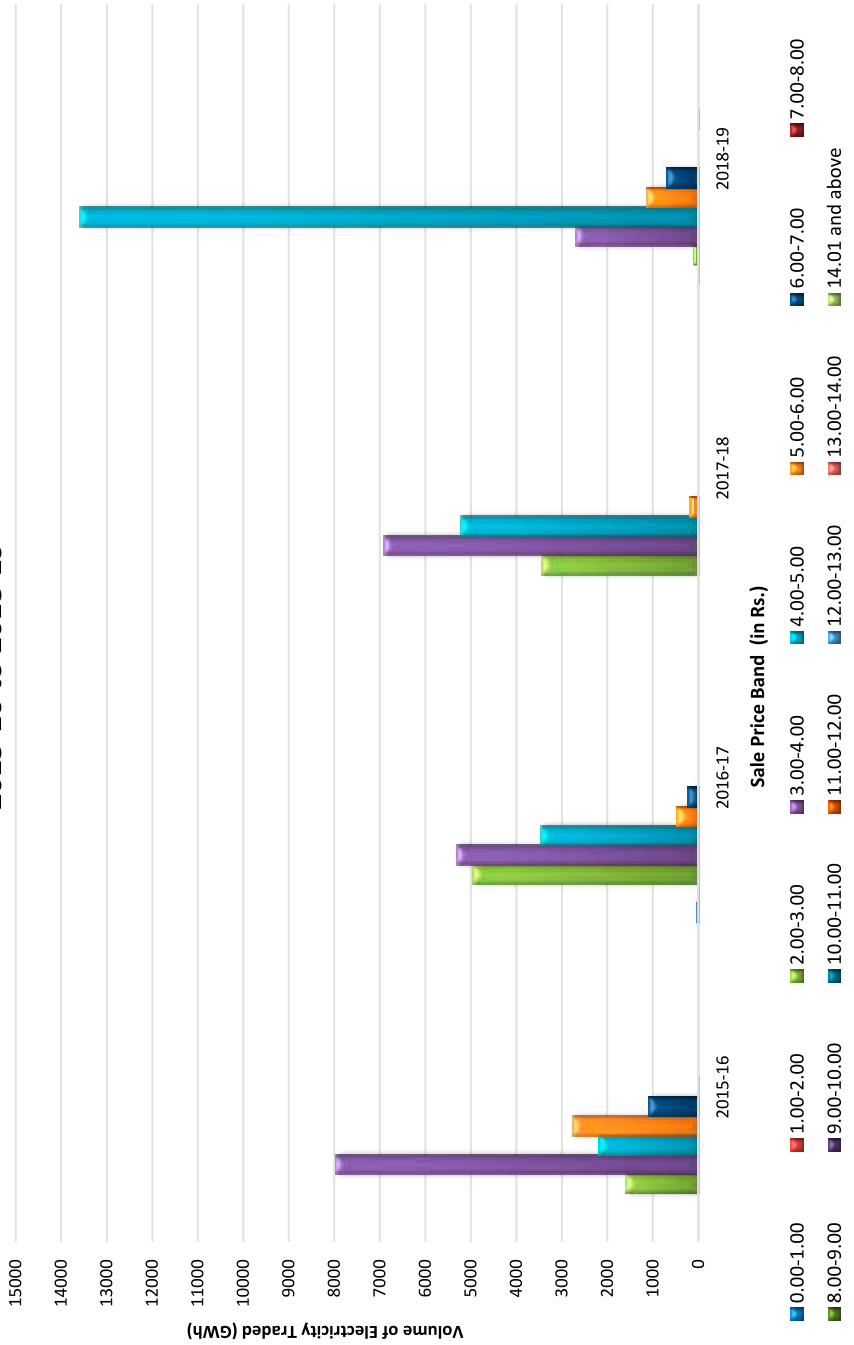


Table 12.6
Average Sale and Purchase Price Electricity Traded
and Trading Margin-Trader-wise
2018-19

Sl. No.	Name of Trading Licensee	Average Purchase Price (Rs.)	Average Sale Price (Rs.)	Average Trading Margin (Rs.)
1	Adani Enterprises Ltd	6.035	6.050	0.015
2	Arunachal Pradesh Power Corporation Private Limited, Itanagar.	4.134	4.169	0.030
3	Essar Electric Power Development Corporation Limited	5.567	5.587	0.020
4	GMR Energy Trading Ltd	3.820	3.864	0.043
5	Instinct Infra & Power Ltd.	9.998	10.000	0.003
6	Kreate Energy (I) Pvt. Ltd.	4.488	4.614	0.061
7	Manikaran Power Limited	4.016	4.183	0.019
8	NHPC Limited	4.745	4.755	0.010
9	NTPC Vidyut Vyapar Nigam Ltd.	4.017	4.287	0.032
10	PTC India Ltd.	4.910	4.941	0.031
11	Refex Energy Ltd.	3.888	3.928	0.040
12	Tata Power Trading Co. Ltd.	4.798	4.822	0.024
Grand Total		4.519	4.605	0.032

Table 12.7
VOLUME OF ELECTRICITY TRADED SALE PRICE-WISE
2018-19

Sale Price (Rs)	Volume (GWh)	% of Total Volume
0.00-1.000	0.00	0.00
1.001-2.000	13.17	0.07
2.001-3.000	115.15	0.63
3.001-4.000	2692.64	14.77
4.001-5.000	13583.98	74.49
5.001-6.000	1139.05	6.25
6.001-7.000	678.63	3.72
7.001-8.000	1.08	0.01
8.001-9.000	0.00	0.00
9.001-10.000	11.34	0.06
10.001-11.000	0.00	0.00
Total	18235.04	100.00

Note - Out of 18301.66 MU volumn traded in year 2018-19 , Sale price is available for 18235.04 MU.

APPENDICES





LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
1. Northern Region (NR)												
1	Delhi	State Sector	IPGCL	RAJGHAT TPS	Steam	1	1	67.50		67.500		1989
	Delhi	State Sector	IPGCL	RAJGHAT TPS	Steam	2	1	67.50		67.500		1989
2	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	1	1	30.00		30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	2	1	30.00		30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	3	1	30.00		30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	4	1	30.00		30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	5	1	30.00		30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	6	1	30.00		30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	7	1	30.00		30.000		1995
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	8	1	30.00		30.000		1995
3	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	9	1	30.00		30.000		1996
	Delhi	State Sector	PPCL	PRAGATI CCPP	GT-Gas	1	1	104.60		104.600		2002
	Delhi	State Sector	PPCL	PRAGATI CCPP	GT-Gas	2	1	104.60		104.600		2002
	Delhi	State Sector	PPCL	PRAGATI CCPP	ST-Gas	3	1	121.20		121.200		2003
4	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	1	1	250.00		250.000		2010
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	2	1	250.00		250.000		2011
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	ST-Gas	3	1	250.00		250.000		2012
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	4	1	250.00		250.000		2012
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	5	1	250.00		250.000		2013
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	ST-Gas	6	1	250.00		250.000		2014
5	Delhi	Private Sector	TPDDL	RITHALA CCPP	GT-Gas	1	1	35.75		35.750		2010
	Delhi	Private Sector	TPDDL	RITHALA CCPP	GT-Gas	2	1	35.75		35.750		2010
	Delhi	Private Sector	TPDDL	RITHALA CCPP	ST-Gas	3	1	36.50		36.500		2011
Total (Delhi)												
6	Haryana	State Sector	HPGCL	YAMUNA NAGAR TPS	Steam	1	1	300.00		300.000		2007
	Haryana	State Sector	HPGCL	YAMUNA NAGAR TPS	Steam	2	1	300.00		300.000		2008
7	Haryana	State Sector	HPGCL	RAJIV GANDHI TPS	Steam	1	1	600.00		600.000		2010
	Haryana	State Sector	HPGCL	RAJIV GANDHI TPS	Steam	2	1	600.00		600.000		2010
8	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	5	1	210.00		210.000		1989

LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	6	1	210.00		210.000		2001
	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	7	1	250.00		250.000		2004
	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	8	1	250.00		250.000		2005
9	Haryana	Private Sector	JHAJJAR POWER LTD.	MAHATMA GANDHI TPS	Steam	1	1	660.00		660.000		2012
	Haryana	Private Sector	JHAJJAR POWER LTD.	MAHATMA GANDHI TPS	Steam	2	1	660.00		660.000		2012
Total (Haryana)										4040.000		
10	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	1	1	25.00		25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	2	1	25.00		25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	3	1	25.00		25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	4	1	25.00		25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	5	1	25.00		25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	6	1	25.00		25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	7	1	25.00		25.000		1995
Total (Jammu & Kashmir)												
11	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	1	1	210.00		210.000		1997
	Punjab	State Sector	PSPCL	TPS (LEH.MOH.)	Steam	2	1	210.00		210.000		1998
	Punjab	State Sector	PSPCL	TPS (LEH.MOH.)	Steam	3	1	250.00		250.000		2008
	Punjab	State Sector	PSPCL	TPS (LEH.MOH.)	Steam	4	1	250.00		250.000		2008
12	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	3	1	210.00		210.000		1988
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	4	1	210.00		210.000		1989
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	5	1	210.00		210.000		1992
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	6	1	210.00		210.000		1993
13	Punjab	Private Sector	Nabha Power Ltd	RAJPURA TPP	Steam	1	1	700.00		700.000		2014
	Punjab	Private Sector	Nabha Power Ltd	RAJPURA TPP	Steam	2	1	700.00		700.000		2014
14	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	1	1	660.00		660.000		2014
	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	2	1	660.00		660.000		2015
	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	3	1	660.00		660.000		2016
15	Punjab	Private Sector	GPGL (GVK)	GOINDWAL SAHIB TPP	Steam	1	1	270.00		270.000		2016
	Punjab	Private Sector	GPGL (GVK)	GOINDWAL SAHIB TPP	Steam	2	1	270.00		270.000		2016
Total (Punjab)										5680.000		

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
16	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	1	1	110.00		110.000		1983
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	2	1	110.00		110.000		1983
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	3	1	210.00		210.000		1988
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	4	1	210.00		210.000		1989
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	5	1	210.00		210.000		1994
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	6	1	195.00		195.000		2003
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	7	1	195.00		195.000		2009
17	Rajasthan	State Sector	RRVUNL	GIRAL TPS	Steam	1	1	125.00		125.000		2007
	Rajasthan	State Sector	RRVUNL	GIRAL TPS	Steam	2	1	125.00		125.000		2010
18	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	1	1	250.00		250.000		2009
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	2	1	250.00		250.000		2010
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	3	1	250.00		250.000		2013
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	4	1	250.00		250.000		2014
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	5	1	660.00		660.000		2017
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	6	1	660.00		660.000		2019
19	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	1	1	250.00		250.000		1998
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	2	1	250.00		250.000		2000
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	3	1	250.00		250.000		2001
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	4	1	250.00		250.000		2002
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	5	1	250.00		250.000		2003
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	6	1	250.00		250.000		2009
20	Rajasthan	State Sector	RRVUNL	KALISINDH TPS	Steam	1	1	600.00		600.000		2014
	Rajasthan	State Sector	RRVUNL	KALISINDH TPS	Steam	2	1	600.00		600.000		2015
21	Rajasthan	State Sector	RRVUNL	DHOLPUR CCPP	GT-Gas	1	1	110.00		110.000		2007
	Rajasthan	State Sector	RRVUNL	DHOLPUR CCPP	GT-Gas	2	1	110.00		110.000		2007
	Rajasthan	State Sector	RRVUNL	DHOLPUR CCPP	GT-Gas	3	1	110.00		110.000		2007
22	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	1	1	3.00		3.000		1994
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	2	1	35.50		35.500		1996
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	3	1	37.50		37.500		2002
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	4	1	37.80		37.800		2003

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	5	1	110.00		110.000		2013
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	6	1	50.00		50.000		2013
23	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	Steam	1	1	660.00		660.000		2013
	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	Steam	2	1	660.00		660.000		2013
24	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	1	1	135.00		135.000		2009
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	2	1	135.00		135.000		2010
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	3	1	135.00		135.000		2011
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	4	1	135.00		135.000		2011
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	5	1	135.00		135.000		2013
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	6	1	135.00		135.000		2013
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	7	1	135.00		135.000		2013
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	8	1	135.00		135.000		2013
	Total (Rajasthan)									9513.800		
25	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	1	1	210.00		210.000		1986
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	2	1	210.00		210.000		1987
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	3	1	210.00		210.000		1988
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	4	1	500.00		500.000		1993
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	5	1	500.00		500.000		1994
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	6	1	500.00		500.000		2015
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	7	1	500.00		500.000		2016
26	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	7	1	105.00		105.000		1978
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	8	1	250.00		250.000		2011
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	9	1	250.00		250.000		2012
27	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	7	1	94.00		94.000		1974
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	9	1	200.00		200.000		1980
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	10	1	200.00		200.000		1979
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	11	1	200.00		200.000		1977
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	12	1	200.00		200.000		1981
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	13	1	200.00		200.000		1982
28	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	1	1	110.00		110.000		1984

Appendix-A

LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Uttar Pradesh	State Sector	UPRVNL	PARICHHA TPS	Steam	2	1	110.00		110.000		1985
	Uttar Pradesh	State Sector	UPRVNL	PARICHHA TPS	Steam	3	1	210.00		210.000		2006
	Uttar Pradesh	State Sector	UPRVNL	PARICHHA TPS	Steam	4	1	210.00		210.000		2006
	Uttar Pradesh	State Sector	UPRVNL	PARICHHA TPS	Steam	5	1	250.00		250.000		2012
	Uttar Pradesh	State Sector	UPRVNL	PARICHHA TPS	Steam	6	1	250.00		250.000		2013
29	Uttar Pradesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	1	1	45.00		45.000		2011
	Uttar Pradesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	2	1	45.00		45.000		2011
30	Uttar Pradesh	Private Sector	BEPL	MAQSOODPUR TPS	Steam	1	1	45.00		45.000		2011
	Uttar Pradesh	Private Sector	BEPL	MAQSOODPUR TPS	Steam	2	1	45.00		45.000		2012
31	Uttar Pradesh	Private Sector	BEPL	BARKHERA TPS	Steam	1	1	45.00		45.000		2011
	Uttar Pradesh	Private Sector	BEPL	BARKHERA TPS	Steam	2	1	45.00		45.000		2012
32	Uttar Pradesh	Private Sector	BEPL	UTRAULA TPS	Steam	1	1	45.00		45.000		2012
	Uttar Pradesh	Private Sector	BEPL	UTRAULA TPS	Steam	2	1	45.00		45.000		2012
33	Uttar Pradesh	Private Sector	BEPL	KUNDARKI TPS	Steam	1	1	45.00		45.000		2012
	Uttar Pradesh	Private Sector	BEPL	KUNDARKI TPS	Steam	2	1	45.00		45.000		2012
34	Uttar Pradesh	Private Sector	LAPPL	ANPARA C TPS	Steam	1	1	600.00		600.000		2011
	Uttar Pradesh	Private Sector	LAPPL	ANPARA C TPS	Steam	2	1	600.00		600.000		2011
35	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	1	1	300.00		300.000		2010
	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	2	1	300.00		300.000		2010
	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	3	1	300.00		300.000		2011
	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	4	1	300.00		300.000		2012
36	Uttar Pradesh	Private Sector	LPGCL	LALITPUR TPS	Steam	1	1	660.00		660.000		2016
	Uttar Pradesh	Private Sector	LPGCL	LALITPUR TPS	Steam	2	1	660.00		660.000		2016
	Uttar Pradesh	Private Sector	LPGCL	LALITPUR TPS	Steam	3	1	660.00		660.000		2016
37	Uttar Pradesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	1	1	660.00		660.000		2015
	Uttar Pradesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	2	1	660.00		660.000		2016
	Uttar Pradesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	3	1	660.00		660.000		2017
	Total (Uttar Pradesh)									12279.000		
38	Uttarakhand	Private Sector	Gama Infraprop Pvt. Ltd.	GAMA CCPP	Steam	1	1	225.00		225.000		2016
39	Uttarakhand	Private Sector	Sravanthi Energy Pvt. Ltd.	KASHIPUR CCPP	Steam	1	1	225.00		225.000		2016

LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity	Year of Comm.
								MW	MW		
Total (Uttarakhand)											
40	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	1	1	500.00		500.000	2010
	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	2	1	500.00		500.000	2011
	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	3	1	500.00		500.000	2012
	41	Haryana	Central Sector	NTPC	FARIDABAD CCPP	GT-Gas	1	1	137.76		137.760
Haryana		Central Sector	NTPC	FARIDABAD CCPP	GT-Gas	2	1	137.76		137.760	1999
42	Haryana	Central Sector	NTPC	FARIDABAD CCPP	ST-Gas	3	1	156.07		156.070	2000
	Rajasthan	Central Sector	NLC	BARSINGSAR LIGNITE	Steam	1	1	125.00		125.000	2010
		Central Sector	NLC	BARSINGSAR LIGNITE	Steam	2	1	125.00		125.000	2011
	43	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	1	1	88.71		88.710
Rajasthan		Central Sector	NTPC	ANTA CCPP	GT-Gas	2	1	88.71		88.710	1989
44	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	3	1	88.71		88.710	1989
	Rajasthan	Central Sector	NTPC	ANTA CCPP	ST-Gas	4	1	153.20		153.200	1989
		Central Sector	NTPC	DADRI (NCTPP)	Steam	1	1	210.00		210.000	1991
	45	Uttar Pardesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	2	1	210.00		210.000
Uttar Pardesh		Central Sector	NTPC	DADRI (NCTPP)	Steam	3	1	210.00		210.000	1993
Uttar Pardesh		Central Sector	NTPC	DADRI (NCTPP)	Steam	4	1	210.00		210.000	1994
Uttar Pardesh		Central Sector	NTPC	DADRI (NCTPP)	Steam	5	1	490.00		490.000	2010
46	Uttar Pardesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	6	1	490.00		490.000	2010
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	1	1	500.00		500.000	1988
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	2	1	500.00		500.000	1989
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	3	1	500.00		500.000	2005
47	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	4	1	500.00		500.000	2005
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	5	1	500.00		500.000	2012
	Uttar Pardesh	Central Sector	NTPC	RIHAND STPS	Steam	6	1	500.00		500.000	2013
	48	Uttar Pardesh	Central Sector	NTPC	SINGRAULI STPS	Steam	1	1	200.00		200.000
Uttar Pardesh		Central Sector	NTPC	SINGRAULI STPS	Steam	2	1	200.00		200.000	1982
Uttar Pardesh		Central Sector	NTPC	SINGRAULI STPS	Steam	3	1	200.00		200.000	1983
Uttar Pardesh		Central Sector	NTPC	SINGRAULI STPS	Steam	4	1	200.00		200.000	1983
49	Uttar Pardesh	Central Sector	NTPC	SINGRAULI STPS	Steam	5	1	200.00		200.000	1984

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity	Year of Comm.
								MW	MW		
	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	6	1	500.00		500.000	1986
	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	7	1	500.00		500.000	1987
47	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	1	1	110.00		110.000	1988
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	2	1	110.00		110.000	1989
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	3	1	110.00		110.000	1990
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	4	1	110.00		110.000	1998
48	Uttar Pradesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	1	1	210.00		210.000	1988
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	2	1	210.00		210.000	1989
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	3	1	210.00		210.000	1999
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	4	1	210.00		210.000	1999
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	5	1	210.00		210.000	2006
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	6	1	500.00		500.000	2017
49	Uttar Pradesh	Central Sector	MUNPL	MEJA STPP	Steam	1	1	660.00		660.000	2018
50	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	1	1	130.19		130.190	1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	2	1	130.19		130.190	1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	3	1	130.19		130.190	1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	4	1	130.19		130.190	1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	ST-Gas	5	1	154.51		154.510	1994
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	ST-Gas	6	1	154.51		154.510	1994
51	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	1	1	111.19		111.190	1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	2	1	111.19		111.190	1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	3	1	111.19		111.190	1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	4	1	111.19		111.190	1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	ST-Gas	5	1	109.30		109.300	1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	ST-Gas	6	1	109.30		109.300	1990
Total Central Sector (Northern Region)										13564.060	
Northern Region Total										48045.260	
2. Western Region											
52	Chhattisgarh	State Sector	CSPGCL	KORBA-II TPS	Steam	1	1	50.00		50.000	1966
	Chhattisgarh	State Sector	CSPGCL	KORBA-II TPS	Steam	2	1	50.00		50.000	1967

LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Chhattisgarh	State Sector	CSPGCL	KORBA-II TPS	Steam	3	1	50.00		50.000		1968
	Chhattisgarh	State Sector	CSPGCL	KORBA-II TPS	Steam	4	1	50.00		50.000		1968
53	Chhattisgarh	State Sector	CSPGCL	KORBA-III TPS	Steam	1	1	120.00		120.000		1976
	Chhattisgarh	State Sector	CSPGCL	KORBA-III TPS	Steam	2	1	120.00		120.000		1981
54	Chhattisgarh	State Sector	CSPGCL	DSPM TPS	Steam	1	1	250.00		250.000		2007
	Chhattisgarh	State Sector	CSPGCL	DSPM TPS	Steam	2	1	250.00		250.000		2007
55	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	1	1	210.00		210.000		1984
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	2	1	210.00		210.000		1983
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	3	1	210.00		210.000		1985
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	4	1	210.00		210.000		1986
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	5	1	500.00		500.000		2013
56	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	1	1	500.00		500.000		2014
	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	2	1	500.00		500.000		2016
57	Chhattisgarh	Private Sector	Vandana Energy & Steel Pvt Ltd	KATGHORA TPP	Steam	1	1	35.00		35.000		2012
58	Chhattisgarh	Private Sector	Lanco Amarkantak Power Ltd	PATHADI TPP	Steam	1	1	300.00		300.000		2009
	Chhattisgarh	Private Sector	Lanco Amarkantak Power Ltd	PATHADI TPP	Steam	2	1	300.00		300.000		2010
59	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPALLI TPP	Steam	1	1	135.00		135.000		2011
	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPALLI TPP	Steam	2	1	135.00		135.000		2012
60	Chhattisgarh	Private Sector	ACB (India) Ltd	CHAKABURA TPP	Steam	2	1	30.00		30.000		2014
61	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	1	1	600.00		600.000		2014
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	2	1	600.00		600.000		2014
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	3	1	600.00		600.000		2015
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	4	1	600.00		600.000		2015
62	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	1	1	250.00		250.000		2007
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	2	1	250.00		250.000		2008
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	3	1	250.00		250.000		2008
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	4	1	250.00		250.000		2008
63	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIIA TPS	Steam	1	1	50.00		50.000		2013
	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIIA TPS	Steam	2	1	50.00		50.000		2016
64	Chhattisgarh	Private Sector	S V Power Private Limited	SVPL TPP	Steam	1	1	63.00		63.000		2011

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
65	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	2	1	600.00		600.000		2018
	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	3	1	600.00		600.000		2013
	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	4	1	600.00		600.000		2014
66	Chhattisgarh	Private Sector	Korba West Power Co Ltd	AVANTHA BHANDAR	Steam	1	1	600.00		600.000		2014
67	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	1	1	600.00		600.000		2014
	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	2	1	600.00		600.000		2015
68	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAIKHEDA TPP	Steam	1	1	685.00		685.000		2015
	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAIKHEDA TPP	Steam	2	1	685.00		685.000		2016
69	Chhattisgarh	Private Sector	Vandana Vidhyut Ltd	SALORA TPP	Steam	1	1	135.00		135.000		2015
70	Chhattisgarh	Private Sector	ACB (India) Ltd	SWASTIK KORBA TPP	Steam	1	1	25.00		25.000		2015
71	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	1	1	360.00		360.000		2015
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	2	1	360.00		360.000		2016
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	3	1	360.00		360.000		2017
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	4	1	360.00		360.000		2019
72	Chhattisgarh	Private Sector	Maruti Clean Coal & Power Ltd	BANDAKHAR TPP	Steam	1	1	300.00		300.000		2015
73	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	1	1	300.00		300.000		2015
	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	2	1	300.00		300.000		2016
74	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	1	1	300.00		300.000		2016
	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	2	1	300.00		300.000		2017
75	Chhattisgarh	Private Sector	SKS Power Generation Ltd	BINJIKOTE TPP	Steam	1	1	300.00		300.000		2017
	Chhattisgarh	Private Sector	SKS Power Generation Ltd	BINJIKOTE TPP	Steam	2	1	300.00		300.000		2018
Total (Chhattisgarh)									16448.000			
76	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	3	1	210.00		210.000		1990
	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	4	1	210.00		210.000		1991
	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	5	1	210.00		210.000		1998
77	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	1	1	70.00		70.000		1990
	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	2	1	70.00		70.000		1991
	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	3	1	75.00		75.000		1997
	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	4	1	75.00		75.000		2009
78	Gujarat	State Sector	GSECL	SIKKA REP. TPS	Steam	3	1	250.00		250.000		2015

LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Gujarat	State Sector	GSECL	SIKKA REP. TPS	Steam	4	1	250.00		250.000		2015
79	Gujarat	State Sector	GSECL	UKAI TPS	Steam	3	1	200.00		200.000		1979
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	4	1	200.00		200.000		1979
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	5	1	210.00		210.000		1985
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	6	1	500.00		500.000		2013
80	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	1	1	210.00		210.000		1982
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	2	1	210.00		210.000		1983
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	3	1	210.00		210.000		1984
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	4	1	210.00		210.000		1986
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	5	1	210.00		210.000		1986
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	6	1	210.00		210.000		1987
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	7	1	210.00		210.000		1998
81	Gujarat	State Sector	GMDCL	AKRIMOTA LIG TPS	Steam	1	1	125.00		125.000		2005
	Gujarat	State Sector	GMDCL	AKRIMOTA LIG TPS	Steam	2	1	125.00		125.000		2005
82	Gujarat	State Sector	Bhavnagar Energy Co. Ltd	BHAVNAGAR CFBC TPP	Steam	1	1	250.00		250.000		2016
	Gujarat	State Sector	Bhavnagar Energy Co. Ltd	BHAVNAGAR CFBC TPP	Steam	2	1	250.00		250.000		2017
83	Gujarat	State Sector	GSEGL	HAZIRA CCPP	GT-Gas	1	1	52.00		52.000		2001
	Gujarat	State Sector	GSEGL	HAZIRA CCPP	GT-Gas	2	1	52.00		52.000		2001
	Gujarat	State Sector	GSEGL	HAZIRA CCPP	GT-Gas	3	1	52.10		52.100		2002
84	Gujarat	State Sector	GSEGL	HAZIRA CCPP EXT	GT-Gas	1	1	351.00		351.000		2012
85	Gujarat	State Sector	GPPCL	PIPAVAV CCPP	GT-Gas	1	1	351.00		351.000		2014
	Gujarat	State Sector	GPPCL	PIPAVAV CCPP	GT-Gas	2	1	351.00		351.000		2013
86	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	1	1	67.85		67.850		2003
	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	2	1	38.77		38.770		2003
	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	3	1	72.00		72.000		2006
	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	4	1	40.00		40.000		2007
	Gujarat	State Sector	GSECL	DHUVARAN CCPP	GT-Gas	5	1	376.10		376.100		2014
87	Gujarat	State Sector	GSECL	UTRAN CCPP	GT-Gas	5	1	240.00		240.000		2009
	Gujarat	State Sector	GSECL	UTRAN CCPP	GT-Gas	6	1	134.00		134.000		2009
88	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (D-F STATIONS)	Steam	1	1	120.00		120.000		1978

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (D-F STATIONS)	Steam	2	1	121.00		121.000		1984
	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (D-F STATIONS)	Steam	3	1	121.00		121.000		1988
89	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (C STATION)	Steam	15	1	30.00		30.000		1962
	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (C STATION)	Steam	16	1	30.00		30.000		1963
90	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CCPP	GT-Gas	1	1	382.50		382.500		2009
	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CCPP	GT-Gas	2	1	382.50		382.500		2009
	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CCPP	GT-Gas	3	1	382.50		382.500		2009
91	Gujarat	Private Sector	Torrent Power Ltd	UNOSUGEN CCPP	GT-Gas	1	1	382.50		382.500		2013
92	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	1	1	110.00		110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	2	1	110.00		110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	3	1	110.00		110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	4	1	185.00		185.000		1997
93	Gujarat	Private Sector	Essar Power Gujarat Ltd	SALAYA TPP	Steam	1	1	600.00		600.000		2012
	Gujarat	Private Sector	Essar Power Gujarat Ltd	SALAYA TPP	Steam	2	1	600.00		600.000		2012
94	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	1	1	330.00		330.000		2009
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	2	1	330.00		330.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	3	1	330.00		330.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	4	1	330.00		330.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	5	1	660.00		660.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	6	1	660.00		660.000		2011
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	7	1	660.00		660.000		2011
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	8	1	660.00		660.000		2012
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	9	1	660.00		660.000		2012
95	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTTPP	Steam	1	1	800.00		800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTTPP	Steam	2	1	800.00		800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTTPP	Steam	3	1	800.00		800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTTPP	Steam	4	1	800.00		800.000		2013
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTTPP	Steam	5	1	800.00		800.000		2013
96	Gujarat	Private Sector	GIPCL	BARODA CCPP	GT-Gas	5	1	106.00		106.000		1997
	Gujarat	Private Sector	GIPCL	BARODA CCPP	GT-Gas	6	1	54.00		54.000		1997

LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
97	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	1	1	125.00		125.000		2000
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	2	1	125.00		125.000		1999
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	3	1	125.00		125.000		2010
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	4	1	125.00		125.000		2010
98	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCPP	GT-Gas	1	1	135.00		135.000		1997
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCPP	GT-Gas	2	1	135.00		135.000		1997
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCPP	GT-Gas	3	1	135.00		135.000		1998
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCPP	GT-Gas	4	1	250.00		250.000		1998
99	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CCPP	GT-Gas	1	1	400.00		400.000		2014
	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CCPP	GT-Gas	2	1	400.00		400.000		2014
	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CCPP	GT-Gas	3	1	400.00		400.000		2014
	Total (Gujarat)									21729.820		
100	Madhya Pradesh	State Sector	MPPGCL	AMARKANTAK EXT TPS	Steam	3	1	210.00		210.000		2008
101	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	1	1	210.00		210.000		1993
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	2	1	210.00		210.000		1994
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	3	1	210.00		210.000		1999
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	4	1	210.00		210.000		1999
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	5	1	500.00		500.000		2007
102	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	6	1	200.00		200.000		1979
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	8	1	210.00		210.000		1983
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	9	1	210.00		210.000		1984
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	10	1	250.00		250.000		2013
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	11	1	250.00		250.000		2013
103	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	1	1	600.00		600.000		2013
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	2	1	600.00		600.000		2014
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	3	1	660.00		660.000		2018
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	4	1	660.00		660.000		2019
104	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	1	1	600.00		600.000		2013
	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	2	1	600.00		600.000		2018
105	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	BINA TPS	Steam	1	1	250.00		250.000		2012

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	BINA TPS	Steam	2	1	250.00		250.000		2013
106	Madhya Pradesh	Private Sector	BLA Power Pvt Ltd	NIWARI TPP	Steam	1	1	45.00		45.000		2013
107	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTP	Steam	1	1	660.00		660.000		2013
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTP	Steam	2	1	660.00		660.000		2013
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTP	Steam	3	1	660.00		660.000		2014
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTP	Steam	4	1	660.00		660.000		2014
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTP	Steam	5	1	660.00		660.000		2014
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTTP	Steam	6	1	660.00		660.000		2015
108	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	NIGRI TPP	Steam	1	1	660.00		660.000		2014
	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	NIGRI TPP	Steam	2	1	660.00		660.000		2015
109	Madhya Pradesh	Private Sector	MB Power Madhya Pradesh Ltd	ANUPPUR TPP	Steam	1	1	600.00		600.000		2015
	Madhya Pradesh	Private Sector	MB Power Madhya Pradesh Ltd	ANUPPUR TPP	Steam	2	1	600.00		600.000		2016
110	Madhya Pradesh	Private Sector	Jhabua Power Ltd	SEONI TPP	Steam	1	1	600.00		600.000		2016
	Total (Madhya Pradesh)									14225.000		
111	Maharashtra	State Sector	MSPGCL	BHUSAWAL TPS	Steam	3	1	210.00		210.000		1982
	Maharashtra	State Sector	MSPGCL	BHUSAWAL TPS	Steam	4	1	500.00		500.000		2012
	Maharashtra	State Sector	MSPGCL	BHUSAWAL TPS	Steam	5	1	500.00		500.000		2012
112	Maharashtra	State Sector	MSPGCL	CHANDRAPUR (MAHARASHTRA) STPS	Steam	3	1	210.00		210.000		1985
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR (MAHARASHTRA) STPS	Steam	4	1	210.00		210.000		1986
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR (MAHARASHTRA) STPS	Steam	5	1	500.00		500.000		1991
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR (MAHARASHTRA) STPS	Steam	6	1	500.00		500.000		1992
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR (MAHARASHTRA) STPS	Steam	7	1	500.00		500.000		1997
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR (MAHARASHTRA) STPS	Steam	8	1	500.00		500.000		2015
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR (MAHARASHTRA) STPS	Steam	9	1	500.00		500.000		2016

LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
113	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	1	1	210.00		210.000		1989
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	2	1	210.00		210.000		1990
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	3	1	210.00		210.000		2000
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	4	1	210.00		210.000		2001
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	5	1	500.00		500.000		2011
114	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	6	1	210.00		210.000		1982
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	7	1	210.00		210.000		1983
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	8	1	660.00		660.000		2015
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	9	1	660.00		660.000		2016
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	10	1	660.00		660.000		2016
115	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	3	1	210.00		210.000		1979
	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	4	1	210.00		210.000		1980
	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	5	1	210.00		210.000		1981
116	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	1	1	250.00		250.000		2007
	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	2	1	250.00		250.000		2010
117	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	4	1	210.00		210.000		1985
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	5	1	210.00		210.000		1987
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	6	1	250.00		250.000		2007
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	7	1	250.00		250.000		2010
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	8	1	250.00		250.000		2016
118	Maharashtra	State Sector	MSPGCL	URAN CCPP	GT-Gas	5	1	108.00		108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CCPP	GT-Gas	6	1	108.00		108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CCPP	GT-Gas	7	1	108.00		108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CCPP	GT-Gas	8	1	108.00		108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CCPP	ST-Gas	9	1	120.00		120.000		1994
	Maharashtra	State Sector	MSPGCL	URAN CCPP	ST-Gas	10	1	120.00		120.000		1994
119	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	1	1	270.00		270.000		2014
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	2	1	270.00		270.000		2017
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	3	1	270.00		270.000		2017
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	4	1	270.00		270.000		2017

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	5	1	270.00		270.000		2017
120	Maharashtra	Private Sector	GMR Energy Ltd	GMR WARORA TPS	Steam	1	1	300.00		300.000		2013
	Maharashtra	Private Sector	GMR Energy Ltd	GMR WARORA TPS	Steam	2	1	300.00		300.000		2013
121	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	1	1	660.00		660.000		2012
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	2	1	660.00		660.000		2013
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	3	1	660.00		660.000		2013
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	4	1	660.00		660.000		2014
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	5	1	660.00		660.000		2014
122	Maharashtra	Private Sector	Gupta Energy Pvt Ltd	GEPL TPP Ph-I	Steam	1	1	60.00		60.000		2012
	Maharashtra	Private Sector	Gupta Energy Pvt Ltd	GEPL TPP Ph-I	Steam	2	1	60.00		60.000		2012
123	Maharashtra	Private Sector	Vidarbha Industries Power Ltd	BUTIBORI TPP	Steam	1	1	300.00		300.000		2012
	Maharashtra	Private Sector	Vidarbha Industries Power Ltd	BUTIBORI TPP	Steam	2	1	300.00		300.000		2014
124	Maharashtra	Private Sector	Ideal Energy Projects Ltd	BELA TPS	Steam	1	1	270.00		270.000		2013
125	Maharashtra	Private Sector	Rattian India Power Ltd	AMARAVATI TPS	Steam	1	1	270.00		270.000		2013
	Maharashtra	Private Sector	Rattian India Power Ltd	AMARAVATI TPS	Steam	2	1	270.00		270.000		2014
	Maharashtra	Private Sector	Rattian India Power Ltd	AMARAVATI TPS	Steam	3	1	270.00		270.000		2015
	Maharashtra	Private Sector	Rattian India Power Ltd	AMARAVATI TPS	Steam	4	1	270.00		270.000		2015
	Maharashtra	Private Sector	Rattian India Power Ltd	AMARAVATI TPS	Steam	5	1	270.00		270.000		2015
126	Maharashtra	Private Sector	JSW Energy Ltd	JSW RATNAGIRI TPP	Steam	1	1	300.00		300.000		2010
	Maharashtra	Private Sector	JSW Energy Ltd	JSW RATNAGIRI TPP	Steam	2	1	300.00		300.000		2010
	Maharashtra	Private Sector	JSW Energy Ltd	JSW RATNAGIRI TPP	Steam	3	1	300.00		300.000		2011
	Maharashtra	Private Sector	JSW Energy Ltd	JSW RATNAGIRI TPP	Steam	4	1	300.00		300.000		2011
127	Maharashtra	Private Sector	Abhijeet MADC Nagpur EPL	MIHAN TPS	Steam	1	1	246.00		246.000		2012
128	Maharashtra	Private Sector	Reliance Infrastructure Ltd	DAHANU TPS	Steam	1	1	250.00		250.000		1995
	Maharashtra	Private Sector	Reliance Infrastructure Ltd	DAHANU TPS	Steam	2	1	250.00		250.000		1995
129	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	1	1	135.00		135.000		2010
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	2	1	135.00		135.000		2010
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	3	1	135.00		135.000		2011
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	4	1	135.00		135.000		2011
130	Maharashtra	Private Sector	Dharwal Infrastructure Pvt Ltd	DHARIWAL TPP	Steam	1	1	300.00		300.000		2013

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Maharashtra	Private Sector	Dharival Infrastructure Pvt Ltd	DHARIWAL TPP	Steam	2	1	300.00		300.000		2014
131	Maharashtra	Private Sector	Shirpur Power Pvt Ltd	SHIRPUR TPP	Steam	1	1	150.00		150.000		2017
132	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY TPS	Steam	5	1	500.00		500.000		1984
	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY TPS	Steam	6	1	500.00		500.000		1990
	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY TPS	Steam	8	1	250.00		250.000		2009
133	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY CCPP	GT-Gas	1	1	120.00		120.000		1993
	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY CCPP	GT-Gas	2	1	60.00		60.000		1994
134	Maharashtra	Private Sector	Pioneer Gas Power Ltd	MANGAON CCPP	GT-Gas	1	1	388.00		388.000		2016
Total (Maharashtra)												
135	Goa	Private Sector	Reliance Energy Trading (P) Ltd	GOA CCPP (Liq.)	GT-Gas		1	48.00		48.000		1999
Total (Goa)												
136	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	1	1	200.00		200.000		1983
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	2	1	200.00		200.000		1983
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	3	1	200.00		200.000		1984
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	4	1	500.00		500.000		1987
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	5	1	500.00		500.000		1988
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	6	1	500.00		500.000		1989
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	7	1	500.00		500.000		2010
137	Chhattiagarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPS	Steam	1	1	250.00		250.000		2008
	Chhattiagarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPS	Steam	2	1	250.00		250.000		2009
138	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	1	1	660.00		660.000		2011
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	2	1	660.00		660.000		2011
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	3	1	660.00		660.000		2012
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	4	1	500.00		500.000		2007
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	5	1	500.00		500.000		2008
139	Chhattiagarh	Central Sector	NTPC	LARA TPP	Steam	1	1	800.00		800.000		2018
140	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	1	1	144.30		144.300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	2	1	144.30		144.300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	3	1	144.30		144.300		1994

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	ST-Gas	4	1	224.49		224.490		1995
141	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	1	1	106.00		106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	2	1	106.00		106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	3	1	106.00		106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	4	1	106.00		106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	ST-Gas	5	1	116.10		116.100		1993
	Gujarat	Central Sector	NTPC	KAWAS CCPP	ST-Gas	6	1	116.10		116.100		1993
142	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	1	1	210.00		210.000		1987
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	2	1	210.00		210.000		1988
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	3	1	210.00		210.000		1989
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	4	1	210.00		210.000		1989
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	5	1	210.00		210.000		1990
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	6	1	210.00		210.000		1991
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	7	1	500.00		500.000		1999
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	8	1	500.00		500.000		2000
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	9	1	500.00		500.000		2006
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	10	1	500.00		500.000		2007
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	11	1	500.00		500.000		2012
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	12	1	500.00		500.000		2013
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	13	1	500.00		500.000		2015
143	Madhya Pradesh	Central Sector	NTPC	GADARWARA TPP	Steam	1	1	800.00		800.000		2019
144	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	1	1	500.00		500.000		2012
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	2	1	500.00		500.000		2013
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	3	1	660.00		660.000		2016
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	4	1	660.00		660.000		2017
145	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	1	1	660.00		660.000		2017
	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	2	1	660.00		660.000		2019
146	Maharashtra	Central Sector	RGPP	RATNAGIRI CCPP	GT-Gas	1	1	205.00		205.000		1998
	Maharashtra	Central Sector	RGPP	RATNAGIRI CCPP	GT-Gas	2	1	205.00		205.000		1998
	Maharashtra	Central Sector	RGPP	RATNAGIRI CCPP	ST-Gas	3	1	230.00		230.000		1998

LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	4	1	213.00		213.000		2006
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	5	1	213.00		213.000		2006
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	ST-Gas	6	1	237.54		237.540		2006
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	7	1	213.00		213.000		2007
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	8	1	213.00		213.000		2007
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	ST-Gas	9	1	237.54		237.540		2007
Total Central Sector (Western Region)											19360.670	
Western Region Total											95297.490	
3. Southern Region												
147	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	1	1	210.00		210.000		1994
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	2	1	210.00		210.000		1995
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	3	1	210.00		210.000		2007
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	4	1	210.00		210.000		2007
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	5	1	210.00		210.000		2010
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	6	1	600.00		600.000		2018
148	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	1	1	210.00		210.000		1979
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	2	1	210.00		210.000		1980
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	3	1	210.00		210.000		1989
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	4	1	210.00		210.000		1990
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	5	1	210.00		210.000		1994
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	6	1	210.00		210.000		1995
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	7	1	500.00		500.000		2009
149	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAIAH TPS	Steam	1	1	800.00		800.000		2014
	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAIAH TPS	Steam	2	1	800.00		800.000		2015
150	Andhra Pradesh	Private Sector	LVS Power Ltd	L.V.S. Diesel Power Station	Diesel	1	1	18.40		18.400		2001
	Andhra Pradesh	Private Sector	LVS Power Ltd	L.V.S. Diesel Power Station	Diesel	2	1	18.40		18.400		2001
151	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	1	1	150.00		150.000		2012
	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	2	1	150.00		150.000		2012

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	3	1	150.00		150.000		2014
	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	4	1	150.00		150.000		2015
152	Andhra Pradesh	Private Sector	Minakshi Energy Ltd	THAMMINAPATNAM TPS	Steam	1	1	150.00		150.000		2012
	Andhra Pradesh	Private Sector	Minakshi Energy Ltd	THAMMINAPATNAM TPS	Steam	2	1	150.00		150.000		2013
153	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	PAINAMPURAM TPP	Steam	1	1	660.00		660.000		2015
	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	PAINAMPURAM TPP	Steam	2	1	660.00		660.000		2015
154	Andhra Pradesh	Private Sector	HNPC	VIZAG TPP	Steam	1	1	520.00		520.000		2015
	Andhra Pradesh	Private Sector	HNPC	VIZAG TPP	Steam	2	1	520.00		520.000		2016
155	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	SGPL TPP	Steam	1	1	660.00		660.000		2016
	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	SGPL TPP	Steam	2	1	660.00		660.000		2017
156	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI CCPP	GT-Gas	1	1	112.00		112.000		2000
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI CCPP	GT-Gas	2	1	112.00		112.000		2000
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI CCPP	ST-Gas	3	1	126.00		126.000		2000
157	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI EXTN CCPP	GT-Gas	1	1	233.00		233.000		2009
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI EXTN CCPP	GT-Gas	2	1	133.00		133.000		2010
158	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI ST-3 CCPP	GT-Gas	1	1	371.00		371.000		2015
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI ST-3 CCPP	GT-Gas	2	1	371.00		371.000		2015
159	Andhra Pradesh	Private Sector	Gautami Power Ltd	GAUTAMI CCPP	GT-Gas	1	1	145.00		145.000		2009
	Andhra Pradesh	Private Sector	Gautami Power Ltd	GAUTAMI CCPP	GT-Gas	2	1	145.00		145.000		2009
	Andhra Pradesh	Private Sector	Gautami Power Ltd	GAUTAMI CCPP	ST-Gas	3	1	174.00		174.000		2009
160	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	1	1	33.00		33.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	2	1	33.00		33.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	3	1	34.00		34.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	4	1	112.00		112.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	5	1	60.00		60.000		2012
161	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	GT-Gas	1	1	140.00		140.000		2009
	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	GT-Gas	2	1	140.00		140.000		2009
	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	ST-Gas	3	1	165.00		165.000		2010
162	Andhra Pradesh	Private Sector	Reliance Infrastructure Ltd - A.P.	PEDDAPURAM CCPP	GT-Gas	1	1	142.00		142.000		2002
	Andhra Pradesh	Private Sector	Reliance Infrastructure Ltd - A.P.	PEDDAPURAM CCPP	GT-Gas	2	1	78.00		78.000		2002

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
163	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	GT-Gas	1	1	52.80		52.800		1996
	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	GT-Gas	2	1	52.80		52.800		1996
	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	GT-Gas	3	1	52.80		52.800		1996
	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	ST-Gas	4	1	77.00		77.000		1997
164	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	1	1	140.00		140.000		2005
	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	2	1	80.00		80.000		2005
165	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	VEMAGIRI CCPP	GT-Gas	1	1	233.00		233.000		2006
	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	VEMAGIRI CCPP	GT-Gas	2	1	137.00		137.000		2006
166	Andhra Pradesh	Private Sector	SPGL	GODAVARI CCPP	GT-Gas	1	1	47.00		47.000		1997
	Andhra Pradesh	Private Sector	SPGL	GODAVARI CCPP	GT-Gas	2	1	47.00		47.000		1997
	Andhra Pradesh	Private Sector	SPGL	GODAVARI CCPP	GT-Gas	3	1	47.00		47.000		1997
	Andhra Pradesh	Private Sector	SPGL	GODAVARI CCPP	ST-Gas	4	1	67.00		67.000		1998
167	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	1	1	42.50		42.500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	2	1	42.50		42.500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	3	1	42.50		42.500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	4	1	42.50		42.500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	ST-Gas	5	1	50.00		50.000		2001
168	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GREL CCPP (Rajahmundry)	GT-Gas	1	1	384.00		384.000		2015
	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GREL CCPP (Rajahmundry)	GT-Gas	2	1	384.00		384.000		2015
Total (Andhra Pradesh)										14507.200		
169	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS	Steam	1	1	60.00		60.000		1966
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS	Steam	2	1	60.00		60.000		1966
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS	Steam	4	1	60.00		60.000		1967
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS	Steam	5	1	120.00		120.000		1974
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS	Steam	7	1	120.00		120.000		1977
170	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	9	1	250.00		250.000		1997
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	10	1	250.00		250.000		1998
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	11	1	500.00		500.000		2011
171	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (STAGE-7)	Steam	12	1	800.00		800.000		2018
172	Telangana	State Sector	TSGENCO	KAKATIYA TPS	Steam	1	1	500.00		500.000		2010

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW	MW	MW	MW	
	Telangana	State Sector	TSGENCO	KAKATIYA TPS	Steam	2	1	600.00		600.000		2015
173	Telangana	State Sector	TSGENCO	RAMAGUNDEM - B TPS	Steam	1	1	62.50		62.500		1971
174	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	1	1	600.00		600.000		2016
	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	2	1	600.00		600.000		2016
	Total (Telangana)							4582.500				
175	Karnataka	State Sector	KPCL	YELHANKA (DG)	Diesel	1	1	21.32		21.320		1999
	Karnataka	State Sector	KPCL	YELHANKA (DG)	Diesel	2	1	21.32		21.320		1999
	Karnataka	State Sector	KPCL	YELHANKA (DG)	Diesel	3	1	21.32		21.320		1999
	Karnataka	State Sector	KPCL	YELHANKA (DG)	Diesel	4	1	21.32		21.320		1999
	Karnataka	State Sector	KPCL	YELHANKA (DG)	Diesel	5	1	21.32		21.320		1999
	Karnataka	State Sector	KPCL	YELHANKA (DG)	Diesel	6	1	21.32		21.320		1999
176	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	1	1	210.00		210.000		1985
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	2	1	210.00		210.000		1986
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	3	1	210.00		210.000		1991
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	4	1	210.00		210.000		1994
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	5	1	210.00		210.000		1999
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	6	1	210.00		210.000		1999
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	7	1	210.00		210.000		2002
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	8	1	250.00		250.000		2010
177	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	1	1	500.00		500.000		2007
	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	2	1	500.00		500.000		2012
	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	3	1	700.00		700.000		2016
178	Karnataka	State Sector	Raichur Power Corp. Ltd	YERMARUS TPP	Steam	1	1	800.00		800.000		2016
	Karnataka	State Sector	Raichur Power Corp. Ltd	YERMARUS TPP	Steam	2	1	800.00		800.000		2017
179	Karnataka	Private Sector	Shri Rayalseema pvt Ltd	BELLARY DG	Diesel	1	1	25.20		25.200		2000
180	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-I)	Steam	1	1	130.00		130.000		1999
	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-I)	Steam	2	1	130.00		130.000		1999
181	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-II)	Steam	1	1	300.00		300.000		2009
	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-II)	Steam	2	1	300.00		300.000		2009
182	Karnataka	Private Sector	Udupi Power Corp. Ltd	UDUPI TPP	Steam	1	1	600.00		600.000		2010

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity	Year of Comm.
								MW	MW		
	Karnataka	Private Sector	Udupi Power Corp. Ltd	UDUPI TPP	Steam	2	1	600.00	600.00	600.000	2011
	Total (Karnataka)										7233.120
183	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	1	1	21.32	21.320	21.320	1997
	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	4	1	21.32	21.320	21.320	1997
	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	5	1	21.32	21.320	21.320	1997
184	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	2	1	16.00	16.000	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	3	1	16.00	16.000	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	5	1	16.00	16.000	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	6	1	16.00	16.000	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	7	1	16.00	16.000	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	8	1	16.00	16.000	16.000	1999
185	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Li.q.)	GT-Gas	1	1	45.00	45.000	45.000	1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Li.q.)	GT-Gas	2	1	45.00	45.000	45.000	1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Li.q.)	GT-Gas	4	1	45.00	45.000	45.000	1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Li.q.)	GT-Gas	3	1	39.00	39.000	39.000	2000
	Total (Kerala)										333.960
186	Puducherry	State Sector	PPCL	KARAIKAL CCPP	GT-Gas	1	1	32.50	32.500	32.500	1999
	Total (Puducherry)										32.500
187	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	1	1	210.00	210.000	210.000	1987
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	2	1	210.00	210.000	210.000	1987
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	3	1	210.00	210.000	210.000	1989
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	4	1	210.00	210.000	210.000	1990
188	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS-II	Steam	1	1	600.00	600.000	600.000	2012
189	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	1	1	210.00	210.000	210.000	1994
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	2	1	210.00	210.000	210.000	1995
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	3	1	210.00	210.000	210.000	1996
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	4	1	600.00	600.000	600.000	2013
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	5	1	600.00	600.000	600.000	2013
190	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	1	1	210.00	210.000	210.000	1979
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	2	1	210.00	210.000	210.000	1980

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	3	1	210.00		210.000		1982
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	4	1	210.00		210.000		1992
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	5	1	210.00		210.000		1991
191	Tamil Nadu	State Sector	TANGEDCO	KUTTALAM CCPP	GT-Gas	1	1	63.00		63.000		2003
	Tamil Nadu	State Sector	TANGEDCO	KUTTALAM CCPP	GT-Gas	2	1	37.00		37.000		2004
192	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	1	1	30.00		30.000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	2	1	30.00		30.000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	3	1	30.00		30.000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	4	1	30.00		30.000		1996
193	Tamil Nadu	State Sector	TANGEDCO	KOVIKALPAL CCPP	GT-Gas	1	1	69.65		69.650		2001
	Tamil Nadu	State Sector	TANGEDCO	KOVIKALPAL CCPP	GT-Gas	2	1	38.23		38.230		2001
194	Tamil Nadu	State Sector	TANGEDCO	NARIMANAM GPS	GT-Gas	1	1	5.00		5.000		1992
	Tamil Nadu	State Sector	TANGEDCO	NARIMANAM GPS	GT-Gas	2	1	5.00		5.000		1992
195	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	1	1	60.00		60.000		2002
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	2	1	59.80		59.800		2008
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	3	1	34.00		34.000		2003
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	4	1	32.40		32.400		2009
196	Tamil Nadu	Private Sector	Madurai Power Corp. Pvt Ltd	SAMAYANALLUR DG	Diesel		7	15.14		106.001		2001
197	Tamil Nadu	Private Sector	Samalpatni Power Co. Pvt Ltd	SAMALPATNI DG	Diesel	1	1	105.70		105.700		2000
198	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	1	1	150.00		150.000		2013
	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	2	1	150.00		150.000		2013
199	Tamil Nadu	Private Sector	ST-CMS Electric Co. Pvt Ltd	NEYVELI TPS(Z)	Steam	1	1	250.00		250.000		2002
200	Tamil Nadu	Private Sector	Coastal Energen Pvt Ltd	MUTHIARA TPP	Steam	1	1	600.00		600.000		2015
	Tamil Nadu	Private Sector	Coastal Energen Pvt Ltd	MUTHIARA TPP	Steam	2	1	600.00		600.000		2016
201	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPCL TPP	Steam	1	1	600.00		600.000		2015
	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPCL TPP	Steam	2	1	600.00		600.000		2016
202	Tamil Nadu	Private Sector	PPN Power Gen. Co. Pvt Ltd	PNALLUR CCPP	GT-Gas	1	1	225.00		225.000		2001
	Tamil Nadu	Private Sector	PPN Power Gen. Co. Pvt Ltd	PNALLUR CCPP	GT-Gas	2	1	105.50		105.500		2001

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
203	Tamil Nadu	Private Sector	Aban Power Co. Ltd	KARUPPUR CCPP	GT-Gas	1	1	70.00		70.000		2005
	Tamil Nadu	Private Sector	Aban Power Co. Ltd	KARUPPUR CCPP	ST-Gas	2	1	49.80		49.800		2005
204	Tamil Nadu	Private Sector	Pioneer Power Ltd	VALANTARVY CCPP	GT-Gas	1	1	38.00		38.000		2005
	Tamil Nadu	Private Sector	Pioneer Power Ltd	VALANTARVY CCPP	GT-Gas	2	1	14.80		14.800		2006
Total (Tamil Nadu)												
205	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	1	1	500.00		500.000		2002
	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	2	1	500.00		500.000		2002
	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	3	1	500.00		500.000		2011
	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	4	1	500.00		500.000		2012
206	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	1	1	200.00		200.000		1983
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	2	1	200.00		200.000		1984
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	3	1	200.00		200.000		1984
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	4	1	500.00		500.000		1988
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	5	1	500.00		500.000		1989
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	6	1	500.00		500.000		1989
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	7	1	500.00		500.000		2004
207	Karnataka	Central Sector	NTPC	KUDGI STPP	Steam	1	1	800.00		800.000		2016
	Karnataka	Central Sector	NTPC	KUDGI STPP	Steam	2	1	800.00		800.000		2017
	Karnataka	Central Sector	NTPC	KUDGI STPP	Steam	3	1	800.00		800.000		2018
208	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	GT-Gas	1	1	115.20		115.200		1998
	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	GT-Gas	2	1	115.20		115.200		1999
	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	ST-Gas	3	1	129.18		129.180		1999
209	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- I	Steam	1	1	50.00		50.000		1962
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- I	Steam	2	1	50.00		50.000		1963
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- I	Steam	3	1	50.00		50.000		1963
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- I	Steam	4	1	50.00		50.000		1963
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- I	Steam	5	1	50.00		50.000		1964
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- I	Steam	6	1	50.00		50.000		1965
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- I	Steam	8	1	100.00		100.000		1969
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- I	Steam	9	1	100.00		100.000		1970

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
210	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	1	1	210.00		210.000		1988
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	2	1	210.00		210.000		1987
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	3	1	210.00		210.000		1986
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	4	1	210.00		210.000		1991
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	5	1	210.00		210.000		1991
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	6	1	210.00		210.000		1992
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	7	1	210.00		210.000		1993
211	Tamil Nadu	Central Sector	NLC	NEYVELI TPS-II EXP	Steam	1	1	250.00		250.000		2012
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS-II EXP	Steam	2	1	250.00		250.000		2015
212	Tamil Nadu	Central Sector	NLC	NEYVELI (EXT) TPS	Steam	1	1	210.00		210.000		2002
	Tamil Nadu	Central Sector	NLC	NEYVELI (EXT) TPS	Steam	2	1	210.00		210.000		2003
213	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	1	1	500.00		500.000		2012
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	2	1	500.00		500.000		2013
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	3	1	500.00		500.000		2014
214	Tamil Nadu	Central Sector	NTPL	TUTICORIN (JV) TPP	Steam	1	1	500.00		500.000		2015
	Tamil Nadu	Central Sector	NTPL	TUTICORIN (JV) TPP	Steam	2	1	500.00		500.000		2015
Total Central Sector (Southern Region)											12749.580	
Southern Region Total											47947.741	
4. Eastern Region												
215	A & N Islands	State Sector	Govt. Deptt.	AND, NICOBAR DG	Diesel		1	40.05		40.048		2000
Total (A & N Islands)											40.048	
216	Jharkhand	State Sector	Tenughat Vidyut Nigam Ltd	TENUGHAT TPS	Steam	1	1	210.00		210.000		1994
	Jharkhand	State Sector	Tenughat Vidyut Nigam Ltd	TENUGHAT TPS	Steam	2	1	210.00		210.000		1996
217	Jharkhand	Private Sector	Tata Power Co. Ltd	JOJOBARA TPS	Steam	2	1	120.00		120.000		2001
	Jharkhand	Private Sector	Tata Power Co. Ltd	JOJOBARA TPS	Steam	3	1	120.00		120.000		2002
218	Jharkhand	Private Sector	Adhunik Power & Natural Resource Ltd	MAHADEV PRASAD STPP	Steam	1	1	270.00		270.000		2012
	Jharkhand	Private Sector	Adhunik Power & Natural Resource Ltd	MAHADEV PRASAD STPP	Steam	2	1	270.00		270.000		2013
219	Jharkhand	Private Sector	Maithon Power Ltd	MAITHON RB TPP	Steam	1	1	525.00		525.000		2011

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Jharkhand	Private Sector	Maithon Power Ltd	MAITHON RB TPP	Steam	2	1	525.00		525.000		2012
	Total (Jharkhand)							2250.000				
220	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	1	1	210.00		210.000		1994
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	2	1	210.00		210.000		1995
221	Odisha	Private Sector	Sterlite Energy Ltd	STERLITE TPP	Steam	1	1	600.00		600.000		2010
	Odisha	Private Sector	Sterlite Energy Ltd	STERLITE TPP	Steam	2	1	600.00		600.000		2010
222	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	1	1	350.00		350.000		2013
	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	2	1	350.00		350.000		2013
	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	3	1	350.00		350.000		2014
223	Odisha	Private Sector	JITPL	DERANG TPP	Steam	1	1	600.00		600.000		2014
	Odisha	Private Sector	JITPL	DERANG TPP	Steam	2	1	600.00		600.000		2015
224	Odisha	Private Sector	IBPIL	UTKAL TPP (IND BARATH)	Steam	1	1	350.00		350.000		2016
	Total (Odisha)							4220.000				
225	West Bengal	State Sector	DPL	D.P.L. TPS	Steam	6	1	110.00		110.000		1985
	West Bengal	State Sector	DPL	D.P.L. TPS	Steam	7	1	300.00		300.000		2007
	West Bengal	State Sector	DPL	D.P.L. TPS	Steam	8	1	250.00		250.000		2014
226	West Bengal	State Sector	WBPDC	BAKRESWAR TPS	Steam	1	1	210.00		210.000		1999
	West Bengal	State Sector	WBPDC	BAKRESWAR TPS	Steam	2	1	210.00		210.000		2000
	West Bengal	State Sector	WBPDC	BAKRESWAR TPS	Steam	3	1	210.00		210.000		2001
	West Bengal	State Sector	WBPDC	BAKRESWAR TPS	Steam	4	1	210.00		210.000		2007
	West Bengal	State Sector	WBPDC	BAKRESWAR TPS	Steam	5	1	210.00		210.000		2009
227	West Bengal	State Sector	WBPDC	BANDEL TPS	Steam	1	1	60.00		60.000		1965
	West Bengal	State Sector	WBPDC	BANDEL TPS	Steam	2	1	60.00		60.000		1965
	West Bengal	State Sector	WBPDC	BANDEL TPS	Steam	5	1	210.00		210.000		1982
228	West Bengal	State Sector	WBPDC	KOLAGHAT TPS	Steam	1	1	210.00		210.000		1990
	West Bengal	State Sector	WBPDC	KOLAGHAT TPS	Steam	2	1	210.00		210.000		1985
	West Bengal	State Sector	WBPDC	KOLAGHAT TPS	Steam	3	1	210.00		210.000		1984
	West Bengal	State Sector	WBPDC	KOLAGHAT TPS	Steam	4	1	210.00		210.000		1993
	West Bengal	State Sector	WBPDC	KOLAGHAT TPS	Steam	5	1	210.00		210.000		1991
	West Bengal	State Sector	WBPDC	KOLAGHAT TPS	Steam	6	1	210.00		210.000		1993

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LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
229	West Bengal	State Sector	WBPDCL	SANTALDIH TPS	Steam	5	1	250.00		250.000		2007
	West Bengal	State Sector	WBPDCL	SANTALDIH TPS	Steam	6	1	250.00		250.000		2011
230	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	1	1	300.00		300.000		2007
	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	2	1	300.00		300.000		2008
	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	3	1	500.00		500.000		2015
	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	4	1	500.00		500.000		2016
231	West Bengal	State Sector	WBPDCL	HALDIA GT (Liq.)	GT-Gas	1	1	20.00		20.000		1979
	West Bengal	State Sector	WBPDCL	HALDIA GT (Liq.)	GT-Gas	2	1	20.00		20.000		1979
232	West Bengal	State Sector	WBPDCL	KASBA GT (Liq.)	GT-Gas	1	1	20.00		20.000		1979
	West Bengal	State Sector	WBPDCL	KASBA GT (Liq.)	GT-Gas	2	1	20.00		20.000		1979
233	West Bengal	State Sector	WBPDCL	SILIGURI GPS	GT-Gas	1	1	20.00		20.000		1980
234	West Bengal	Private Sector	CECL Ltd	BUDGE BUDGE TPS	Steam	1	1	250.00		250.000		1997
	West Bengal	Private Sector	CECL Ltd	BUDGE BUDGE TPS	Steam	2	1	250.00		250.000		1999
	West Bengal	Private Sector	CECL Ltd	BUDGE BUDGE TPS	Steam	3	1	250.00		250.000		2009
235	West Bengal	Private Sector	CECL Ltd	SOUTHERN REPL. TPS	Steam	1	1	67.50		67.500		1991
	West Bengal	Private Sector	CECL Ltd	SOUTHERN REPL. TPS	Steam	2	1	67.50		67.500		1990
236	West Bengal	Private Sector	CECL Ltd	TITAGARH TPS	Steam	1	1	60.00		60.000		1985
	West Bengal	Private Sector	CECL Ltd	TITAGARH TPS	Steam	2	1	60.00		60.000		1982
	West Bengal	Private Sector	CECL Ltd	TITAGARH TPS	Steam	3	1	60.00		60.000		1983
	West Bengal	Private Sector	CECL Ltd	TITAGARH TPS	Steam	4	1	60.00		60.000		1984
237	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	1	1	300.00		300.000		2015
	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	2	1	300.00		300.000		2015
238	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	1	1	150.00		150.000		2017
	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	2	1	150.00		150.000		2017
239	West Bengal	Private Sector	DPSCLTD	DISHERGARH TPP	Steam	1	1	12.00		12.000		2019
Total (West Bengal)												7537.000
240	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	6	1	105.00		105.000		1983
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	7	1	105.00		105.000		1985
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	8	1	250.00		250.000		2018
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	9	1	250.00		250.000		2018

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
241	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	1	1	210.00		210.000		1992
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	2	1	210.00		210.000		1994
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	4	1	210.00		210.000		1996
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	5	1	500.00		500.000		2007
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	6	1	500.00		500.000		2008
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	7	1	500.00		500.000		2009
242	Bihar	Central Sector	NTPC	BARH II STPP	Steam	4	1	660.00		660.000		2013
	Bihar	Central Sector	NTPC	BARH II STPP	Steam	5	1	660.00		660.000		2015
243	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	1	1	110.00		110.000		1985
	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	2	1	110.00		110.000		1986
	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	3	1	195.00		195.000		2015
	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	4	1	195.00		195.000		2017
244	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	1	1	250.00		250.000		2016
	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	2	1	250.00		250.000		2017
	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	3	1	250.00		250.000		2019
245	Jharkhand	Central Sector	DVC	BOKARO 'B' TPS	Steam	3	1	210.00		210.000		1993
246	Jharkhand	Central Sector	DVC	KODARMA TPP	Steam	1	1	500.00		500.000		2011
	Jharkhand	Central Sector	DVC	KODARMA TPP	Steam	2	1	500.00		500.000		2013
247	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	3	1	130.00		130.000		1968
	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	7	1	250.00		250.000		2009
	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	8	1	250.00		250.000		2010
248	Jharkhand	Central Sector	DVC	BOKARO 'A' TPS	Steam	1	1	500.00		500.000		2016
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	1	1	500.00		500.000		1995
249	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	2	1	500.00		500.000		1996
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	3	1	500.00		500.000		2003
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	4	1	500.00		500.000		2003
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	5	1	500.00		500.000		2004
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	6	1	500.00		500.000		2005
250	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	1	1	60.00		60.000		1967
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	2	1	60.00		60.000		1968

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LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	3	1	60.00		60.000		1968
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	4	1	60.00		60.000		1969
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	5	1	110.00		110.000		1982
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	6	1	110.00		110.000		1983
251	West Bengal	Central Sector	DVC	DURGAPUR TPS	Steam	4	1	210.00		210.000		1982
252	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	1	1	500.00		500.000		2011
	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	2	1	500.00		500.000		2012
253	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	1	1	210.00		210.000		1995
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	2	1	210.00		210.000		1997
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	3	1	210.00		210.000		1998
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	4	1	210.00		210.000		2004
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	5	1	250.00		250.000		2007
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	6	1	250.00		250.000		2007
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	7	1	500.00		500.000		2010
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	8	1	500.00		500.000		2011
254	West Bengal	Central Sector	DVC	RAGHUNATHPUR TPP	Steam	1	1	600.00		600.000		2014
	West Bengal	Central Sector	DVC	RAGHUNATHPUR TPP	Steam	2	1	600.00		600.000		2016
255	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	1	1	200.00		200.000		1986
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	2	1	200.00		200.000		1986
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	3	1	200.00		200.000		1987
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	4	1	500.00		500.000		1992
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	5	1	500.00		500.000		1994
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	6	1	500.00		500.000		2011
Total (DVC)										7090.000		
Total (NTPC)										11290.000		
Total Central Sector (DVC+NTPC) (Eastern Region)										18380.000		
Eastern Region Total										32427.048		
5. North Eastern Region												
256	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	5	1	20.00		20.000		1994
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	6	1	20.00		20.000		1994

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	7	1	20.00		20.000		1995
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	8	1	37.20		37.200		2012
257	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	2	1	21.00		21.000		1965
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	3	1	21.00		21.000		1965
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	4	1	11.00		11.000		1975
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	5	1	24.00		24.000		1976
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	6	1	22.00		22.000		1985
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	7	1	62.25		62.250		2017
258	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	1	1	9.97		9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	2	1	9.97		9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	3	1	9.97		9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	4	1	9.97		9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	5	1	9.97		9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	6	1	9.97		9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	7	1	9.97		9.965		2018
259	Assam	Private Sector	DLF Power Supply Co. Ltd	Adamtilla CCPP	GT-Gas	1	1	3.00		3.000		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Adamtilla CCPP	GT-Gas	2	1	3.00		3.000		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Adamtilla CCPP	GT-Gas	3	1	3.00		3.000		1998
260	Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCPP	GT-Gas	1	1	3.50		3.500		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCPP	GT-Gas	2	1	3.50		3.500		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCPP	GT-Gas	3	1	3.50		3.500		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCPP	GT-Gas	4	1	5.00		5.000		1998
Total (Assam)											352.705	

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LIST OF THERMAL POWER STATIONS AS ON 31.03.2019

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity MW	Year of Comm.
								MW	MW		
261	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel		1	6.00		6.000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel		1	6.00		6.000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel		1	6.00		6.000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel		1	6.00		6.000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel		1	6.00		6.000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel		1	6.00		6.000	2002
Total (Manipur)								36.000			
262	Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	4	1	37.50		37.500	2002
	Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	5	1	21.00		21.000	2010
263	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	1	1	8.00		8.000	1990
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	2	1	8.00		8.000	1990
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	3	1	8.00		8.000	1995
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	4	1	8.00		8.000	1995
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	5	1	8.00		8.000	1997
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	6	1	8.00		8.000	1997
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	7	1	21.00		21.000	2002
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	8	1	21.00		21.000	2006
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	9	1	21.00		21.000	2013
Total (Tripura)								169.500			
264	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	1	1	21.00		21.000	1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	2	1	21.00		21.000	1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	3	1	21.00		21.000	1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	4	1	21.00		21.000	1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	5	1	25.50		25.500	2015

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
								MW		MW		
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	6	1	25.50		25.500		2016
265	Tripura	Central Sector	NEEPCO	MONARCHAK CCPP	GT-Gas	1	1	65.40		65.400		2015
	Tripura	Central Sector	NEEPCO	MONARCHAK CCPP	GT-Gas	3	1	35.60		35.600		2016
266	Tripura	Central Sector	ONGC	TRIPURA CCPP	GT-Gas	1	1	363.30		363.300		2013
	Tripura	Central Sector	ONGC	TRIPURA CCPP	GT-Gas	2	1	363.30		363.300		2014
267	Assam	Central Sector	NTPC	BONGAIGAON TPP	Steam	1	1	250.00		250.000		2015
	Assam	Central Sector	NTPC	BONGAIGAON TPP	Steam	2	1	250.00		250.000		2017
	Assam	Central Sector	NTPC	BONGAIGAON TPP	Steam	3	1	250.00		250.000		2019
268	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	1	1	33.50		33.500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	2	1	33.50		33.500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	3	1	33.50		33.500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	4	1	33.50		33.500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	5	1	33.50		33.500		1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	6	1	33.50		33.500		1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	7	1	30.00		30.000		1998
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	8	1	30.00		30.000		1998
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	9	1	30.00		30.000		1998
Total Central Sector (North Eastern Region)										2003.600		
North Eastern Region Total										2561.805		
Total All India Thermal										226279.344		

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
1. Northern Region (NR)											
1	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	1	1	108.00		108.00		1960
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	2	1	126.00		126.00		1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	3	1	108.00		108.00		1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	4	1	126.00		126.00		1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	5	1	126.00		126.00		1961
2	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	6	1	157.00		57.00		1966
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	7	1	157.00		157.00		1966
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	8	1	157.00		157.00		1967
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	9	1	157.00		157.00		1967
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	10	1	157.00		157.00		1968
3	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	1	1	165.00		165.00		1977
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	2	1	165.00		165.00		1978
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	3	1	165.00		165.00		1979
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	4	1	165.00		165.00		1979
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	5	1	165.00		165.00		1983
4	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	6	1	165.00		165.00		1983
	Himachal Pradesh	State Sector	BBMB	PONG HPS	1	1	66.00		66.00		1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	2	1	66.00		66.00		1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	3	1	66.00		66.00		1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	4	1	66.00		66.00		1979
5	Himachal Pradesh	State Sector	BBMB	PONG HPS	5	1	66.00		66.00		1982
	Himachal Pradesh	State Sector	BBMB	PONG HPS	6	1	66.00		66.00		1983
	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	1	1	16.50		16.50		1970
	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	2	1	16.50		16.50		1971
	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	3	1	16.50		16.50		1970
6	Himachal Pradesh	tate Sector	HPSEB	BASSI HPS	4	1	16.50		16.50		1981
	Himachal Pradesh	State Sector	HPSEB	GIRI BATA HPS	1	1	30.00		30.00		1978
	Himachal Pradesh	State Sector	HPSEB	GIRI BATA HPS	2	1	30.00		30.00		1978

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Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
7	Himachal Pradesh	State Sector	HPSEB	LARJI HPS	1	1	42.00		42.00		2006
	Himachal Pradesh	State Sector	HPSEB	LARJI HPS	2	1	42.00		42.00		2006
	Himachal Pradesh	State Sector	HPSEB	LARJI HPS	3	1	42.00		42.00		2006
8	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	1	1	40.00		40.00		1989
	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	2	1	40.00		40.00		1989
	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	3	1	40.00		40.00		1989
9	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	1	1	65.00		65.00		2016
	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	2	1	65.00		65.00		2016
	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	3	1	65.00		65.00		2017
10	Himachal Pradesh	State Sector	HPPCL	SAINJ HPS	1	1	50.00		50.00		2017
	Himachal Pradesh	State Sector	HPPCL	SAINJ HPS	2	1	50.00		50.00		2017
11	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	1	1	15.00		15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	2	1	15.00		15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	3	1	15.00		15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	4	1	15.00		15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	5	1	50.00		50.00		1982
12	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	1	1	250.00		250.00		2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	2	1	250.00		250.00		2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	3	1	250.00		250.00		2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	4	1	250.00		250.00		2011
13	Himachal Pradesh	Private Sector	EPPL	MALANA-II HPS	1	1	50.00		50.00		2011
	Himachal Pradesh	Private Sector	EPPL	MALANA-II HPS	2	1	50.00		50.00		2011
14	Himachal Pradesh	Private Sector	ADHPL	ALLAIN DUHANGAN HPS	1	1	96.00		96.00		2010
	Himachal Pradesh	Private Sector	ADHPL	ALLAIN DUHANGAN HPS	2	1	96.00		96.00		2010
15	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	1	1	100.00		100.00		2003
	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	2	1	100.00		100.00		2003
	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	3	1	100.00		100.00		2003
16	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	1	1	43.00		43.00		2001
	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	2	1	43.00		43.00		2001

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity MW	Year of Comm.
							MW			
17	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	1	1	35.00		35.00	2012
	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	2	1	35.00		35.00	2012
18	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	1	1	12.00		12.00	2017
	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	2	1	12.00		12.00	2017
	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	3	1	12.00		12.00	2017
Total (Himachal Pradesh)										
19	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELUM HPS	1	1	35.00		35.00	1978
	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELUM HPS	2	1	35.00		35.00	1979
	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELUM HPS	3	1	35.00		35.00	1979
20	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	1	1	35.00		35.00	2001
	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	2	1	35.00		35.00	2001
	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	3	1	35.00		35.00	2002
21	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	1	1	150.00		150.00	2008
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	2	1	150.00		150.00	2008
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	3	1	150.00		150.00	2008
22	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	1	1	150.00		150.00	2015
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	2	1	150.00		150.00	2015
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	3	1	150.00		150.00	2015
Total (Jammu & Kashmir)										
23	Punjab	State Sector	BBMB	GANGUWAL HPS	1	1	24.20		24.20	1962
	Punjab	State Sector	BBMB	GANGUWAL HPS	2	1	24.20		24.20	1955
	Punjab	State Sector	BBMB	GANGUWAL HPS	3	1	29.25		29.25	1955
24	Punjab	State Sector	BBMB	KOTLA HPS	1	1	24.20		24.20	1961
	Punjab	State Sector	BBMB	KOTLA HPS	2	1	29.25		29.25	1956
	Punjab	State Sector	BBMB	KOTLA HPS	3	1	24.20		24.20	1956
25	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	1	1	33.50		33.50	1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	2	1	33.50		33.50	1985
26	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	3	1	33.50		33.50	1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	4	1	33.50		33.50	1985

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
27	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	1	1	15.00		15.00		1983
	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	2	1	15.00		15.00		1983
	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	3	1	15.00		15.00		1983
28	Punjab	State Sector	PSPCL	MUKERIAN-II HPS	4	1	15.00		15.00		1988
	Punjab	State Sector	PSPCL	MUKERIAN-II HPS	5	1	15.00		15.00		1988
	Punjab	State Sector	PSPCL	MUKERIAN-II HPS	6	1	15.00		15.00		1989
29	Punjab	State Sector	PSPCL	MUKERIAN-III HPS	7	1	19.50		19.50		1989
	Punjab	State Sector	PSPCL	MUKERIAN-III HPS	8	1	19.50		19.50		1989
	Punjab	State Sector	PSPCL	MUKERIAN-III HPS	9	1	19.50		19.50		1989
30	Punjab	State Sector	PSPCL	MUKERIAN-IV HPS	10	1	19.50		19.50		1989
	Punjab	State Sector	PSPCL	MUKERIAN-IV HPS	11	1	19.50		19.50		1989
	Punjab	State Sector	PSPCL	MUKERIAN-IV HPS	12	1	19.50		19.50		1989
31	Punjab	State Sector	PSPCL	RANJIT SAGAR HPS	1	1	150.00		150.00		2000
	Punjab	State Sector	PSPCL	RANJIT SAGAR HPS	2	1	150.00		150.00		2000
	Punjab	State Sector	PSPCL	RANJIT SAGAR HPS	3	1	150.00		150.00		2000
	Punjab	State Sector	PSPCL	RANJIT SAGAR HPS	4	1	150.00		150.00		2000
Total (Punjab)							1096.30				
32	Rajasthan	State Sector	RRVUNL	JAWAHAR SAGAR HPS	1	1	33.00		33.00		1972
	Rajasthan	State Sector	RRVUNL	JAWAHAR SAGAR HPS	2	1	33.00		33.00		1973
	Rajasthan	State Sector	RRVUNL	JAWAHAR SAGAR HPS	3	1	33.00		33.00		1973
33	Rajasthan	State Sector	RRVUNL	R P SAGAR HPS	1	1	43.00		43.00		1968
	Rajasthan	State Sector	RRVUNL	R P SAGAR HPS	2	1	43.00		43.00		1968
	Rajasthan	State Sector	RRVUNL	R P SAGAR HPS	3	1	43.00		43.00		1968
	Rajasthan	State Sector	RRVUNL	R P SAGAR HPS	4	1	43.00		43.00		1968
34	Rajasthan	State Sector	RRVUNL	MAHI BAJAJ-I HPS	1	1	25.00		25.00		1986
	Rajasthan	State Sector	RRVUNL	MAHI BAJAJ-I HPS	2	1	25.00		25.00		1986
35	Rajasthan	State Sector	RRVUNL	MAHI BAJAJ-II HPS	3	1	45.00		45.00		1989
	Rajasthan	State Sector	RRVUNL	MAHI BAJAJ-II HPS	4	1	45.00		45.00		1989
Total (Rajasthan)							411.00				

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
36	Uttar Pradesh	State Sector	UPJVNL	KHARA HPS	1	1	24.00		24.00		1992
	Uttar Pradesh	State Sector	UPJVNL	KHARA HPS	2	1	24.00		24.00		1992
	Uttar Pradesh	State Sector	UPJVNL	KHARA HPS	3	1	24.00		24.00		1992
37	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	1	1	10.20		10.20		1965
	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	2	1	10.20		10.20		1965
	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	3	1	10.20		10.20		1965
38	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	1	1	33.00		33.00		1970
	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	2	1	33.00		33.00		1970
	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	3	1	33.00		33.00		1971
39	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	1	1	50.00		50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	2	1	50.00		50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	3	1	50.00		50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	4	1	50.00		50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	5	1	50.00		50.00		1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	6	1	50.00		50.00		1965
Total (Uttar Pradesh)									501.60		
40	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	1	1	60.00		60.00		1975
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	2	1	60.00		60.00		1975
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	3	1	60.00		60.00		1975
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	4	1	60.00		60.00		1976
41	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	1	1	11.25		11.25		1965
	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	2	1	11.25		11.25		1966
	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	3	1	11.25		11.25		1970
42	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	1	1	17.00		17.00		1965
	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	2	1	17.00		17.00		1966
	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	3	1	17.00		17.00		1970
43	Uttarakhand	State Sector	UJVNL	KHATIMA HPS	1	1	13.80		13.80		1955
	Uttarakhand	State Sector	UJVNL	KHATIMA HPS	2	1	13.80		13.80		1956
	Uttarakhand	State Sector	UJVNL	KHATIMA HPS	3	1	13.80		13.80		1956

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
44	Uttarakhand	State Sector	UJVNL	KHODRI HPS	1	1	30.00		30.00		1984
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	2	1	30.00		30.00		1984
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	3	1	30.00		30.00		1984
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	4	1	30.00		30.00		1984
45	Uttarakhand	State Sector	UJVNL	KULHAL HPS	1	1	10.00		10.00		1975
	Uttarakhand	State Sector	UJVNL	KULHAL HPS	2	1	10.00		10.00		1975
	Uttarakhand	State Sector	UJVNL	KULHAL HPS	3	1	10.00		10.00		1975
46	Uttarakhand	State Sector	UJVNL	MANERI BHALI - I HPS	1	1	30.00		30.00		1984
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - I HPS	2	1	30.00		30.00		1984
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - I HPS	3	1	30.00		30.00		1984
47	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	1	1	76.00		76.00		2008
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	2	1	76.00		76.00		2008
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	3	1	76.00		76.00		2008
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	4	1	76.00		76.00		2008
48	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	1	1	66.00		66.00		1975
	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	2	1	66.00		66.00		1976
	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	3	1	66.00		66.00		1977
49	Uttarakhand	State Sector	UJVNL	CHILLA HPS	1	1	36.00		36.00		1980
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	2	1	36.00		36.00		1980
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	3	1	36.00		36.00		1980
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	4	1	36.00		36.00		1981
50	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	1	1	100.00		100.00		2006
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	2	1	100.00		100.00		2006
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	3	1	100.00		100.00		2006
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	4	1	100.00		100.00		2006
51	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	1	1	82.50		82.50		2015
	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	2	1	82.50		82.50		2015
	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	3	1	82.50		82.50		2015
	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	4	1	82.50		82.50		2015
Total (Uttarakhand)										1982.15	

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
52	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	1	1	60.00		60.00		1980
	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	2	1	60.00		60.00		1980
	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	3	1	60.00		60.00		1981
53	Himachal Pradesh	Central Sector	NHPC	CHAMERA- I HPS	1	1	180.00		180.00		1994
	Himachal Pradesh	Central Sector	NHPC	CHAMERA- I HPS	2	1	180.00		180.00		1994
	Himachal Pradesh	Central Sector	NHPC	CHAMERA- I HPS	3	1	180.00		180.00		1994
54	Himachal Pradesh	Central Sector	NHPC	CHAMERA- II HPS	1	1	100.00		100.00		2003
	Himachal Pradesh	Central Sector	NHPC	CHAMERA- II HPS	2	1	100.00		100.00		2003
	Himachal Pradesh	Central Sector	NHPC	CHAMERA- II HPS	3	1	100.00		100.00		2004
55	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	1	1	77.00		77.00		2012
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	2	1	77.00		77.00		2012
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	3	1	77.00		77.00		2012
56	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	1	1	250.00		250.00		2004
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	2	1	250.00		250.00		2003
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	3	1	250.00		250.00		2003
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	4	1	250.00		250.00		2004
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	5	1	250.00		250.00		2004
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	6	1	250.00		250.00		2004
57	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	1	1	130		130.00		2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	2	1	130		130.00		2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	3	1	130		130.00		2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	4	1	130		130.00		2014
58	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	1	1	68.67		68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	2	1	68.67		68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	3	1	68.67		68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	4	1	68.67		68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	5	1	68.67		68.67		2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	6	1	68.67		68.67		2014
59	Himachal Pradesh	Central Sector	NTPC	KOLDAM	1	1	200		200.00		2015

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity MW	Year of Comm.
							MW	MW		
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	2	1	200	200.00	200.00	2015
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	3	1	200	200.00	200.00	2015
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	4	1	200	200.00	200.00	2015
60	Jammu & Kashmir	Central Sector	NHPC	SEWA-II HPS	1	1	40.00	40.00	40.00	2010
	Jammu & Kashmir	Central Sector	NHPC	SEWA-II HPS	2	1	40.00	40.00	40.00	2010
	Jammu & Kashmir	Central Sector	NHPC	SEWA-II HPS	3	1	40.00	40.00	40.00	2010
61	Jammu & Kashmir	Central Sector	NHPC	DULHASTI HPS	1	1	130.00	130.00	130.00	2007
	Jammu & Kashmir	Central Sector	NHPC	DULHASTI HPS	2	1	130.00	130.00	130.00	2007
	Jammu & Kashmir	Central Sector	NHPC	DULHASTI HPS	3	1	130.00	130.00	130.00	2007
62	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	1	1	115.00	115.00	115.00	1987
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	2	1	115.00	115.00	115.00	1987
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	3	1	115.00	115.00	115.00	1987
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	4	1	115.00	115.00	115.00	1993
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	5	1	115.00	115.00	115.00	1994
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	6	1	115.00	115.00	115.00	1995
63	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	1	1	120.00	120.00	120.00	1997
	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	2	1	120.00	120.00	120.00	1997
	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	3	1	120.00	120.00	120.00	1997
	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	4	1	120.00	120.00	120.00	1996
64	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	1	1	11.00	11.00	11.00	2012
	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	2	1	11.00	11.00	11.00	2012
	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	3	1	11.00	11.00	11.00	2012
	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	4	1	11.00	11.00	11.00	2013
65	Jammu & Kashmir	Central Sector	NHPC	NIMBOO BAZDO HPS	1	1	15.00	15.00	15.00	2013
	Jammu & Kashmir	Central Sector	NHPC	NIMBOO BAZDO HPS	2	1	15.00	15.00	15.00	2013
	Jammu & Kashmir	Central Sector	NHPC	NIMBOO BAZDO HPS	3	1	15.00	15.00	15.00	2013
66	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	1	1	60.00	60.00	60.00	2013
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	2	1	60.00	60.00	60.00	2013
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	3	1	60.00	60.00	60.00	2013

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LIST OF HYDRO POWER STATIONS AS ON 31.03.2019

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
67	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	4	1	60.00		60.00		2014
	Jammu & Kashmir	Central Sector	NHPC	KISHANGANGA HPS	1	1	110.00		110.00		2018
	Jammu & Kashmir	Central Sector	NHPC	KISHANGANGA HPS	2	1	110.00		110.00		2018
68	Jammu & Kashmir	Central Sector	NHPC	KISHANGANGA HPS	3	1	110.00		110.00		2018
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	1	1	70.00		70.00		2005
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	2	1	70.00		70.00		2005
69	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	3	1	70.00		70.00		2005
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	4	1	70.00		70.00		2005
	Uttarakhand	Central Sector	NHPC	TANAKPUR HPS	1	1	31.40		31.40		1992
70	Uttarakhand	Central Sector	NHPC	TANAKPUR HPS	2	1	31.40		31.40		1992
	Uttarakhand	Central Sector	NHPC	TANAKPUR HPS	3	1	31.40		31.40		1992
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	1	1	250.00		250.00		2006
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	2	1	250.00		250.00		2006
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	3	1	250.00		250.00		2007
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	4	1	250.00		250.00		2007
71	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	1	1	100.00		100.00		2011
	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	2	1	100.00		100.00		2011
	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	3	1	100.00		100.00		2012
	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	4	1	100.00		100.00		2012
Total Central Sector (Northern Region)									8596.22		
Northern Region Total									19023.27		
2. Western Region											
72	Chhattisgarh	State Sector	CSPGCL	HASDEOBANGO HPS	1	1	40.00		40.00		1994
	Chhattisgarh	State Sector	CSPGCL	HASDEOBANGO HPS	2	1	40.00		40.00		1994
	Chhattisgarh	State Sector	CSPGCL	HASDEOBANGO HPS	3	1	40.00		40.00		1995
Total (Chhattisgarh)									120.00		
73	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	1	1	50.00		50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	2	1	50.00		50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	3	1	50.00		50.00		2004

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	4	1	50.00		50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	5	1	50.00		50.00		2004
74	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	1	1	200.00		200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	2	1	200.00		200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	3	1	200.00		200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	4	1	200.00		200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	5	1	200.00		200.00		2006
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	6	1	200.00		200.00		2006
75	Gujarat	State Sector	GSECL	KADANA HPS	1	1	60.00		60.00		1990
	Gujarat	State Sector	GSECL	KADANA HPS	2	1	60.00		60.00		1990
	Gujarat	State Sector	GSECL	KADANA HPS	3	1	60.00		60.00		1997
	Gujarat	State Sector	GSECL	KADANA HPS	4	1	60.00		60.00		1998
76	Gujarat	State Sector	GSECL	UKAI HPS	1	1	75.00		75.00		1974
	Gujarat	State Sector	GSECL	UKAI HPS	2	1	75.00		75.00		1974
	Gujarat	State Sector	GSECL	UKAI HPS	3	1	75.00		75.00		1975
	Gujarat	State Sector	GSECL	UKAI HPS	4	1	75.00		75.00		1976
Total (Gujarat)							1990.00				
77	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	1	1	23.00		23.00		1960
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	2	1	23.00		23.00		1960
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	3	1	23.00		23.00		1960
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	4	1	23.00		23.00		1963
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	5	1	23.00		23.00		1966
78	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR TONS HPS -I	1	1	105.00		105.00		1976
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR TONS HPS -I	2	1	105.00		105.00		1970
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR TONS HPS -I	3	1	105.00		105.00		1992
79	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	1	1	15.00		15.00		2002
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	2	1	15.00		15.00		2002
80	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-III HPS	1	1	20.00		20.00		2000
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-III HPS	2	1	20.00		20.00		2001

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity MW	Year of Comm.
							MW	MW		
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-III HPS	3	1	20.00	20.00	20.00	2002
	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	1	1	45.00	45.00	45.00	1988
	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	2	1	45.00	45.00	45.00	1988
82	Madhya Pradesh	State Sector	MPPGCL	MADHIKHERA HPS	1	1	20.00	20.00	20.00	2006
	Madhya Pradesh	State Sector	MPPGCL	MADHIKHERA HPS	3	1	20.00	20.00	20.00	2006
83	Madhya Pradesh	State Sector	MPPGCL	RAJGHAT HPS	1	1	15.00	15.00	15.00	1999
	Madhya Pradesh	State Sector	MPPGCL	RAJGHAT HPS	2	1	15.00	15.00	15.00	1999
	Madhya Pradesh	State Sector	MPPGCL	RAJGHAT HPS	3	1	15.00	15.00	15.00	1999
Total (Madhya Pradesh)										715.00
84	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	1	1	80.00	80.00	80.00	1986
	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	2	1	80.00	80.00	80.00	1987
85	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	1	1	40.00	40.00	40.00	1988
	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	2	1	40.00	40.00	40.00	1987
86	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	1	1	18.00	18.00	18.00	1980
	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	2	1	18.00	18.00	18.00	1981
87	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	1	1	70.00	70.00	70.00	1962
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	2	1	70.00	70.00	70.00	1962
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	3	1	70.00	70.00	70.00	1963
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	4	1	70.00	70.00	70.00	1963
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	5	1	80.00	80.00	80.00	1967
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	6	1	80.00	80.00	80.00	1966
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	7	1	80.00	80.00	80.00	1967
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	8	1	80.00	80.00	80.00	1966
88	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	1	1	80.00	80.00	80.00	1975
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	2	1	80.00	80.00	80.00	1976
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	3	1	80.00	80.00	80.00	1977
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	4	1	80.00	80.00	80.00	1978
89	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	1	1	250.00	250.00	250.00	2000
	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	2	1	250.00	250.00	250.00	2000

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	3	1	250.00		250.00		1999
	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	4	1	250.00		250.00		1999
90	Maharashtra	State Sector	MAHAGENCO	TILLARI HPS	1	1	60.00		60.00		1986
91	Maharashtra	State Sector	MAHAGENCO	VAITARNA HPS	1	1	60.00		60.00		1976
92	Maharashtra	State Sector	MAHAGENCO	GHATGHAR PSS HPS	1	1	125.00		125.00		2008
	Maharashtra	State Sector	MAHAGENCO	GHATGHAR PSS HPS	2	1	125.00		125.00		2008
93	Maharashtra	State Sector	DLHP	BHANDARDHARA HPS ST-II	1	1	34.00		34.00		1996
94	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA PSS HPS	1	1	150.00		150.00		1995
95	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	1	1	25.00		25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	2	1	25.00		25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	3	1	25.00		25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	4	1	25.00		25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	5	1	25.00		25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	6	1	25.00		25.00		1949
96	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	1	1	24.00		24.00		1998
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	2	1	24.00		24.00		1997
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	3	1	24.00		24.00		1998
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	4	1	1.50		1.50		1997
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	5	1	1.50		1.50		1999
97	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	1	1	12.00		12.00		2002
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	2	1	12.00		12.00		2003
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	3	1	12.00		12.00		2001
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	4	1	12.00		12.00		2002
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	5	1	12.00		12.00		2002
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	6	1	12.00		12.00		2002
Total (Maharashtra)									3047.00		
98	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	1	1	65.00		65.00		2007
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	2	1	65.00		65.00		2007
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	3	1	65.00		65.00		2007

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

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

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity	Year of Comm.
							MW	MW		
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	2	1	150.00		150.00	2001
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	3	1	150.00		150.00	2002
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	4	1	150.00		150.00	2002
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	5	1	150.00		150.00	2003
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	6	1	150.00		150.00	2003
110	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	1	1	40.00		40.00	2015
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	2	1	40.00		40.00	2015
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	3	1	40.00		40.00	2016
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	4	1	40.00		40.00	2016
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	5	1	40.00		40.00	2016
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	6	1	40.00		40.00	2016
	Telangana	State Sector	TSGENCO	PULICHINTALA HPS	1	1	30.00		30.00	2016
	Telangana	State Sector	TSGENCO	PULICHINTALA HPS	2	1	30.00		30.00	2017
	Telangana	State Sector	TSGENCO	PULICHINTALA HPS	3	1	30.00		30.00	2017
	Telangana	State Sector	TSGENCO	PULICHINTALA HPS	4	1	30.00		30.00	2018
Total (Telangana)							2865.60			
112	Karnataka	State Sector	KPCL	JOG HPS	1	1	13.20		13.20	1947
	Karnataka	State Sector	KPCL	JOG HPS	2	1	13.20		13.20	1949
	Karnataka	State Sector	KPCL	JOG HPS	3	1	13.20		13.20	1949
	Karnataka	State Sector	KPCL	JOG HPS	4	1	13.20		13.20	1950
	Karnataka	State Sector	KPCL	JOG HPS	5	1	21.60		21.60	1952
	Karnataka	State Sector	KPCL	JOG HPS	6	1	21.60		21.60	1952
	Karnataka	State Sector	KPCL	JOG HPS	7	1	21.60		21.60	1952
	Karnataka	State Sector	KPCL	JOG HPS	8	1	21.60		21.60	1952
113	Karnataka	State Sector	KPCL	MUNIRABAD HPS	1	1	9.00		9.00	1962
	Karnataka	State Sector	KPCL	MUNIRABAD HPS	2	1	9.00		9.00	1962
	Karnataka	State Sector	KPCL	MUNIRABAD HPS	3	1	10.00		10.00	1965
114	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	1	1	3.00		3.00	1922
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	2	1	3.00		3.00	1924

LIST OF HYDRO POWER STATIONS AS ON 31.03.2019

Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	3	1	3.00		3.00		1924
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	4	1	3.00		3.00		1925
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	5	1	3.00		3.00		1923
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	6	1	3.00		3.00		1924
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	7	1	6.00		6.00		1928
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	8	1	6.00		6.00		1934
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	9	1	6.00		6.00		1928
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	10	1	6.00		6.00		1928
115	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	1	1	15.00		15.00		2004
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	2	1	55.00		55.00		2004
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	3	1	55.00		55.00		2005
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	4	1	55.00		55.00		2004
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	5	1	55.00		55.00		2005
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	6	1	55.00		55.00		2005
116	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	1	1	16.00		16.00		1992
	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	2	1	16.00		16.00		1992
117	Karnataka	State Sector	KPCL	KADRA HPS	1	1	50.00		50.00		1997
	Karnataka	State Sector	KPCL	KADRA HPS	2	1	50.00		50.00		1999
	Karnataka	State Sector	KPCL	KADRA HPS	3	1	50.00		50.00		1999
118	Karnataka	State Sector	KPCL	KALINADI HPS	1	1	135.00		135.00		1979
	Karnataka	State Sector	KPCL	KALINADI HPS	2	1	135.00		135.00		1980
	Karnataka	State Sector	KPCL	KALINADI HPS	3	1	135.00		135.00		1981
	Karnataka	State Sector	KPCL	KALINADI HPS	4	1	150.00		150.00		1982
	Karnataka	State Sector	KPCL	KALINADI HPS	5	1	150.00		150.00		1983
	Karnataka	State Sector	KPCL	KALINADI HPS	6	1	150.00		150.00		1984
119	Karnataka	State Sector	KPCL	KODASALI HPS	1	1	40.00		40.00		1998
	Karnataka	State Sector	KPCL	KODASALI HPS	2	1	40.00		40.00		1999
	Karnataka	State Sector	KPCL	KODASALI HPS	3	1	40.00		40.00		1999
120	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	1	1	27.50		27.50		1979

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Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Year of Comm.
							MW	Total Capacity MW	
	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	2	1	27.50	27.50	1980
121	Karnataka	State Sector	KPCL	SHARAVATHI HPS	1	1	103.50	103.50	1965
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	2	1	103.50	103.50	1965
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	3	1	103.50	103.50	1967
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	4	1	103.50	103.50	1967
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	5	1	103.50	103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	6	1	103.50	103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	7	1	103.50	103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	8	1	103.50	103.50	1971
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	9	1	103.50	103.50	1976
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	10	1	103.50	103.50	1977
122	Karnataka	State Sector	KPCL	GERUSUPPA HPS	1	1	60.00	60.00	2001
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	2	1	60.00	60.00	2001
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	3	1	60.00	60.00	2001
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	4	1	60.00	60.00	2002
123	Karnataka	State Sector	KPCL	BHADRA HPS	1	1	2.00	2.00	1962
	Karnataka	State Sector	KPCL	BHADRA HPS	2	1	12.00	12.00	1963
	Karnataka	State Sector	KPCL	BHADRA HPS	3	1	12.00	12.00	1963
124	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	1	1	50.00	50.00	1985
	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	2	1	50.00	50.00	1985
125	Karnataka	State Sector	KPCL	VARAHI HPS	1	1	115.00	115.00	1989
	Karnataka	State Sector	KPCL	VARAHI HPS	2	1	115.00	115.00	1990
	Karnataka	State Sector	KPCL	VARAHI HPS	3	1	115.00	115.00	2009
	Karnataka	State Sector	KPCL	VARAHI HPS	4	1	115.00	115.00	2009
126	Karnataka	State Sector	APGENCO	T B DAM HPS	1	1	9.00	9.00	1957
	Karnataka	State Sector	APGENCO	T B DAM HPS	2	1	9.00	9.00	1957
	Karnataka	State Sector	APGENCO	T B DAM HPS	3	1	9.00	9.00	1964
	Karnataka	State Sector	APGENCO	T B DAM HPS	4	1	9.00	9.00	1964
127	Karnataka	State Sector	APGENCO	HAMPI HPS	1	1	9.00	9.00	1958

LIST OF HYDRO POWER STATIONS AS ON 31.03.2019

Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
	Karnataka	State Sector	APGENCO	HAMPI HPS	2	1	9.00		9.00		1958
	Karnataka	State Sector	APGENCO	HAMPI HPS	3	1	9.00		9.00		1964
	Karnataka	State Sector	APGENCO	HAMPI HPS	4	1	9.00		9.00		1964
	Total (Karnataka)								3644.20		
128	Kerala	State Sector	KSEB	IDAMALAYAR HPS	1	1	37.50		37.50		1987
	Kerala	State Sector	KSEB	IDAMALAYAR HPS	2	1	37.50		37.50		1987
129	Kerala	State Sector	KSEB	IDUKKI HPS	1	1	130.00		130.00		1976
	Kerala	State Sector	KSEB	IDUKKI HPS	2	1	130.00		130.00		1976
	Kerala	State Sector	KSEB	IDUKKI HPS	3	1	130.00		130.00		1976
	Kerala	State Sector	KSEB	IDUKKI HPS	4	1	130.00		130.00		1985
	Kerala	State Sector	KSEB	IDUKKI HPS	5	1	130.00		130.00		1986
	Kerala	State Sector	KSEB	IDUKKI HPS	6	1	130.00		130.00		1986
130	Kerala	State Sector	KSEB	KAKKAD HPS	1	1	25.00		25.00		1999
	Kerala	State Sector	KSEB	KAKKAD HPS	2	1	25.00		25.00		1999
131	Kerala	State Sector	KSEB	KUTTIYADI HPS	1	1	25.00		25.00		1972
	Kerala	State Sector	KSEB	KUTTIYADI HPS	2	1	25.00		25.00		1972
	Kerala	State Sector	KSEB	KUTTIYADI HPS	3	1	25.00		25.00		1972
132	Kerala	State Sector	KSEB	KUTTIYADI EXTN. HPS.	4	1	50.00		50.00		2001
133	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	1	1	50.00		50.00		2010
	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	2	1	50.00		50.00		2010
134	Kerala	State Sector	KSEB	LOWER PERIYAR HPS	1	1	60.00		60.00		1997
	Kerala	State Sector	KSEB	LOWER PERIYAR HPS	2	1	60.00		60.00		1997
	Kerala	State Sector	KSEB	LOWER PERIYAR HPS	3	1	60.00		60.00		1997
135	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	1	1	15.00		15.00		1961
	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	2	1	15.00		15.00		1961
	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	3	1	15.00		15.00		1963
136	Kerala	State Sector	KSEB	PALLIVASAL HPS	1	1	5.00		5.00		1940
	Kerala	State Sector	KSEB	PALLIVASAL HPS	2	1	5.00		5.00		1941
	Kerala	State Sector	KSEB	PALLIVASAL HPS	3	1	5.00		5.00		1942

LIST OF HYDRO POWER STATIONS AS ON 31.03.2019

Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity MW	Year of Comm.
							MW	MW		
	Kerala	State Sector	KSEB	PALLIVASAL HPS	5	1	7.50	7.50	7.50	1949
	Kerala	State Sector	KSEB	PALLIVASAL HPS	6	1	7.50	7.50	7.50	1951
137	Kerala	State Sector	KSEB	PANNIAR HPS	1	1	15.00	15.00	15.00	1963
	Kerala	State Sector	KSEB	PANNIAR HPS	2	1	15.00	15.00	15.00	1964
138	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	1	1	8.00	8.00	8.00	1957
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	2	1	8.00	8.00	8.00	1958
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	3	1	8.00	8.00	8.00	1959
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	4	1	8.00	8.00	8.00	1960
139	Kerala	State Sector	KSEB	SABARIGIRI HPS	1	1	50.00	50.00	50.00	1966
	Kerala	State Sector	KSEB	SABARIGIRI HPS	2	1	50.00	50.00	50.00	1966
	Kerala	State Sector	KSEB	SABARIGIRI HPS	3	1	50.00	50.00	50.00	1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	4	1	50.00	50.00	50.00	1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	5	1	50.00	50.00	50.00	1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	6	1	50.00	50.00	50.00	1967
140	Kerala	State Sector	KSEB	SENGULAM HPS	1	1	12.00	12.00	12.00	1954
	Kerala	State Sector	KSEB	SENGULAM HPS	2	1	12.00	12.00	12.00	1954
	Kerala	State Sector	KSEB	SENGULAM HPS	3	1	12.00	12.00	12.00	1954
	Kerala	State Sector	KSEB	SENGULAM HPS	4	1	12.00	12.00	12.00	1955
141	Kerala	State Sector	KSEB	SHOLAYAR HPS	1	1	18.00	18.00	18.00	1966
	Kerala	State Sector	KSEB	SHOLAYAR HPS	2	1	18.00	18.00	18.00	1968
	Kerala	State Sector	KSEB	SHOLAYAR HPS	3	1	18.00	18.00	18.00	1968
Total (Kerala)							1856.50			
142	Tamil Nadu	State Sector	TENGEDCO	ALIYAR HPS	1	1	60.00	60.00	60.00	1970
143	Tamil Nadu	State Sector	TENGEDCO	BHAWANI KATTAL HPS	1	1	15.00	15.00	15.00	2006
	Tamil Nadu	State Sector	TENGEDCO	BHAWANI KATTAL HPS	2	1	15.00	15.00	15.00	2006
144	Tamil Nadu	State Sector	TENGEDCO	BHAWANI BARRAGE II HPS	1	1	15.00	15.00	15.00	2013
	Tamil Nadu	State Sector	TENGEDCO	BHAWANI BARRAGE II HPS	2	1	15.00	15.00	15.00	2013
145	Tamil Nadu	State Sector	TENGEDCO	BHAWANI BARRAGE III HPS	1	2	15.00	15.00	15.00	2012
	Tamil Nadu	State Sector	TENGEDCO	BHAWANI BARRAGE III HPS	2	2	15.00	15.00	15.00	2013

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Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity	Year of Comm.
							MW	MW		
146	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	1	1	100.00	100.00	100.00	1987
	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	2	1	100.00	100.00	100.00	1988
	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	3	1	100.00	100.00	100.00	1988
	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	4	1	100.00	100.00	100.00	1988
147	Tamil Nadu	State Sector	TENGEDCO	KODAYAR-I HPS.	1	1	60.00	60.00	60.00	1970
148	Tamil Nadu	State Sector	TENGEDCO	KODAYAR-II HPS.	2	1	40.00	40.00	40.00	1971
149	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-I HPS.	1	1	20.00	20.00	20.00	1960
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-I HPS.	2	1	20.00	20.00	20.00	1960
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-I HPS.	3	1	20.00	20.00	20.00	1964
150	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	4	1	35.00	35.00	35.00	1960
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	5	1	35.00	35.00	35.00	1961
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	6	1	35.00	35.00	35.00	1961
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	7	1	35.00	35.00	35.00	1961
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	8	1	35.00	35.00	35.00	1964
151	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-III HPS.	9	1	60.00	60.00	60.00	1965
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-III HPS.	10	1	60.00	60.00	60.00	1964
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-III HPS.	11	1	60.00	60.00	60.00	1978
152	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-IV HPS.	12	1	50.00	50.00	50.00	1966
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-IV HPS.	13	1	50.00	50.00	50.00	1978
153	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-V HPS.	14	1	20.00	20.00	20.00	1964
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-V HPS.	15	1	20.00	20.00	20.00	1988
154	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-I HPS.	1	1	15.00	15.00	15.00	1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-I HPS.	2	1	15.00	15.00	15.00	1988
155	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-II HPS.	3	1	15.00	15.00	15.00	1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-II HPS.	4	1	15.00	15.00	15.00	1988
156	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	5	1	15.00	15.00	15.00	1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	6	1	15.00	15.00	15.00	1987
157	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-IV HPS.	7	1	15.00	15.00	15.00	1989
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-IV HPS.	8	1	15.00	15.00	15.00	1988

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Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW	MW	MW	MW	
158	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	1	1	12.50		12.50	12.50	1937
	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	2	1	12.50		12.50	12.50	1937
	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	3	1	12.50		12.50	12.50	1938
	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	4	1	12.50		12.50	12.50	1946
159	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	1	1	50.00		50.00	50.00	1965
	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	2	1	50.00		50.00	50.00	1966
	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	3	1	50.00		50.00	50.00	1966
	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	4	1	50.00		50.00	50.00	1966
160	Tamil Nadu	State Sector	TENGEDCO	MOYAR HPS	1	1	12.00		12.00	12.00	1952
	Tamil Nadu	State Sector	TENGEDCO	MOYAR HPS	2	1	12.00		12.00	12.00	1952
	Tamil Nadu	State Sector	TENGEDCO	MOYAR HPS	3	1	12.00		12.00	12.00	1953
161	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	1	1	8.00		8.00	8.00	1944
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	2	1	8.00		8.00	8.00	1944
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	3	1	8.00		8.00	8.00	1945
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	4	1	8.00		8.00	8.00	1951
162	Tamil Nadu	State Sector	TENGEDCO	PARSON'S VALLEY HPS	1	1	30.00		30.00	30.00	2000
163	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	1	1	42.00		42.00	42.00	1958
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	2	1	42.00		42.00	42.00	1959
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	3	1	42.00		42.00	42.00	1959
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	4	1	35.00		35.00	35.00	1965
164	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	1	1	7.00		7.00	7.00	1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	2	1	7.00		7.00	7.00	1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	3	1	7.00		7.00	7.00	1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	4	1	13.60		13.60	13.60	1954
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	5	1	13.60		13.60	13.60	1954
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	6	1	11.00		11.00	11.00	1939
165	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	1	1	50.00		50.00	50.00	2005
	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	2	1	50.00		50.00	50.00	2005
	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	3	1	50.00		50.00	50.00	2005

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Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
166	Tamil Nadu	State Sector	TENGEDCO	SARKARPATHY HPS	1	1	30.00		30.00		1966
167	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	1	1	35.00		35.00		1971
	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	2	1	35.00		35.00		1971
168	Tamil Nadu	State Sector	TENGEDCO	SURULIYAR HPS	1	1	35.00		35.00		1978
Total (Tamil Nadu)											2178.20
Southern Region Total											11694.50
4. Eastern Region											
169	Jharkhand	State Sector	JUUNL	SUBERNREKHA-I HPS.	1	1	65.00		65.00		1977
170	Jharkhand	State Sector	JUUNL	SUBERNREKHA-II HPS.	2	1	65.00		65.00		1980
Total (Jharkhand)											130.00
171	Odisha	State Sector	OHPC	BALIMELA HPS	1	1	60.00		60.00		1973
	Odisha	State Sector	OHPC	BALIMELA HPS	2	1	60.00		60.00		1974
	Odisha	State Sector	OHPC	BALIMELA HPS	3	1	60.00		60.00		1974
	Odisha	State Sector	OHPC	BALIMELA HPS	4	1	60.00		60.00		1975
	Odisha	State Sector	OHPC	BALIMELA HPS	5	1	60.00		60.00		1976
	Odisha	State Sector	OHPC	BALIMELA HPS	6	1	60.00		60.00		1970
	Odisha	State Sector	OHPC	BALIMELA HPS	7	1	75.00		75.00		2008
	Odisha	State Sector	OHPC	BALIMELA HPS	8	1	75.00		75.00		2008
172	Odisha	State Sector	OHPC	HIRAKUD HPS	1	1	32.00		32.00		1956
	Odisha	State Sector	OHPC	HIRAKUD HPS	2	1	32.00		32.00		1957
	Odisha	State Sector	OHPC	HIRAKUD HPS	3	1	37.50		37.50		1956
	Odisha	State Sector	OHPC	HIRAKUD HPS	4	1	37.50		37.50		1957
	Odisha	State Sector	OHPC	HIRAKUD HPS	5	1	49.50		49.50		1962
	Odisha	State Sector	OHPC	HIRAKUD HPS	6	1	49.50		49.50		1963
	Odisha	State Sector	OHPC	HIRAKUD HPS	7	1	37.50		37.50		1990
173	Odisha	State Sector	OHPC	CHIPLIMA HPS	1	1	24.00		24.00		1962
	Odisha	State Sector	OHPC	CHIPLIMA HPS	2	1	24.00		24.00		1962
	Odisha	State Sector	OHPC	CHIPLIMA HPS	3	1	24.00		24.00		1964
174	Odisha	State Sector	OHPC	RENGALI HPS	1	1	50.00		50.00		1985

LIST OF HYDRO POWER STATIONS AS ON 31.03.2019

Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity	Year of Comm.
							MW	MW		
	Odisha	State Sector	OHPD	RENGALI HPS	2	1	50.00		50.00	1986
	Odisha	State Sector	OHPD	RENGALI HPS	3	1	50.00		50.00	1989
	Odisha	State Sector	OHPD	RENGALI HPS	4	1	50.00		50.00	1990
	Odisha	State Sector	OHPD	RENGALI HPS	5	1	50.00		50.00	1992
175	Odisha	State Sector	OHPD	UPPER INDRAVATI HPS	1	1	150.00		150.00	1999
	Odisha	State Sector	OHPD	UPPER INDRAVATI HPS	2	1	150.00		150.00	1999
	Odisha	State Sector	OHPD	UPPER INDRAVATI HPS	3	1	150.00		150.00	2000
	Odisha	State Sector	OHPD	UPPER INDRAVATI HPS	4	1	150.00		150.00	2001
176	Odisha	State Sector	OHPD	UPPER KOLAB HPS	1	1	80.00		80.00	1988
	Odisha	State Sector	OHPD	UPPER KOLAB HPS	2	1	80.00		80.00	1989
	Odisha	State Sector	OHPD	UPPER KOLAB HPS	3	1	80.00		80.00	1990
	Odisha	State Sector	OHPD	UPPER KOLAB HPS	4	1	80.00		80.00	1993
177	Odisha	State Sector	APGENCO	MACHKUND HPS	1	1	21.25		21.25	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	2	1	21.25		21.25	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	3	1	21.25		21.25	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	4	1	17.00		17.00	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	5	1	17.00		17.00	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	6	1	17.00		17.00	1959
Total (Odisha)							2142.25			
178	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	1	1	9.00		9.00	1967
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	2	1	9.00		9.00	1967
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	3	1	9.00		9.00	1972
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	4	1	9.00		9.00	2012
179	West Bengal	State Sector	WBPDCL	RAMMAM HPS	1	1	12.50		12.50	1995
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	2	1	12.50		12.50	1995
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	3	1	12.50		12.50	1996
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	4	1	12.50		12.50	1996
180	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	1	1	225.00		225.00	2007
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	2	1	225.00		225.00	2007

LIST OF HYDRO POWER STATIONS AS ON 31.03.2019

Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity		Year of Comm.
							MW		MW		
	West Bengal	State Sector	WBPDC	PURULJA PSS HPS	3	1	225.00		225.00		2007
	West Bengal	State Sector	WBPDC	PURULJA PSS HPS	4	1	225.00		225.00		2007
Total (West Bengal)											986.00
181	Sikkim	State Sector	TEESTA Urija Ltd	TEESTA-III HPS	1	1	200.00		200.00		2017
	Sikkim	State Sector	TEESTA Urija Ltd	TEESTA-III HPS	2	1	200.00		200.00		2017
	Sikkim	State Sector	TEESTA Urija Ltd	TEESTA-III HPS	3	1	200.00		200.00		2017
	Sikkim	State Sector	TEESTA Urija Ltd	TEESTA-III HPS	4	1	200.00		200.00		2017
	Sikkim	State Sector	TEESTA Urija Ltd	TEESTA-III HPS	5	1	200.00		200.00		2017
	Sikkim	State Sector	TEESTA Urija Ltd	TEESTA-III HPS	6	1	200.00		200.00		2017
182	Sikkim	Private Sector	GATI INFRASTRUCTURE LTD.	CHUZACHEN HPS	1	1	55.00		55.00		2013
	Sikkim	Private Sector	GATI INFRASTRUCTURE LTD.	CHUZACHEN HPS	2	1	55.00		55.00		2013
183	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETHANG LOOP HPS	1	1	48.00		48.00		2015
	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETHANG LOOP HPS	2	1	48.00		48.00		2015
184	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	1	1	48.50		48.50		2017
	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	2	1	48.50		48.50		2017
185	Sikkim	Private Sector	Sneha Kinetics Projects Ltd	DIKCHU HPS	1	1	48.00		48.00		2017
	Sikkim	Private Sector	Sneha Kinetics Projects Ltd	DIKCHU HPS	2	1	48.00		48.00		2017
Total (Sikkim)											1599.00
186	Jharkhand	Central Sector	DVC	MAITHON HPS	1	1	20.00		20.00		1958
	Jharkhand	Central Sector	DVC	MAITHON HPS	2	1	20.00		20.00		1958
	Jharkhand	Central Sector	DVC	MAITHON HPS	3	1	23.20		23.20		1957
187	Jharkhand	Central Sector	DVC	PANCHET HPS	1	1	40.00		40.00		1959
	Jharkhand	Central Sector	DVC	PANCHET HPS	2	1	40.00		40.00		1990
188	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	1	1	33.00		33.00		2013
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	2	1	33.00		33.00		2013
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	3	1	33.00		33.00		2013
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	4	1	33.00		33.00		2013
189	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	1	1	40.00		40.00		2016
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	3	1	40.00		40.00		2016

LIST OF HYDRO POWER STATIONS AS ON 31.03.2019

Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity	Year of Comm.
							MW	MW		
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	4	1	40.00	40.00	40.00	2016
190	Sikkim	Central Sector	NHPC	RANGIT HPS	1	1	20.00	20.00	20.00	2000
	Sikkim	Central Sector	NHPC	RANGIT HPS	2	1	20.00	20.00	20.00	2000
	Sikkim	Central Sector	NHPC	RANGIT HPS	3	1	20.00	20.00	20.00	2000
191	Sikkim	Central Sector	NHPC	TEESTA V HPS	1	1	170.00	170.00	170.00	2008
	Sikkim	Central Sector	NHPC	TEESTA V HPS	2	1	170.00	170.00	170.00	2008
	Sikkim	Central Sector	NHPC	TEESTA V HPS	3	1	170.00	170.00	170.00	2008
Total (DVC)									143.20	
Total (NHPC)									862.00	
Total Central Sector (DVC+NHPC) (Eastern Region)									1005.20	
Eastern Region Total									5862.45	
5. North Eastern Region										
192	Assam	State Sector	APGCL	KARBI LANGPI HPS	1	1	50.00	50.00	50.00	2007
	Assam	State Sector	APGCL	KARBI LANGPI HPS	2	1	50.00	50.00	50.00	2007
Total (Assam)									100.00	
193	Meghalaya	State Sector	MeECL	KYRDEMKULAI HPS	1	1	30.00	30.00	30.00	1979
	Meghalaya	State Sector	MeECL	KYRDEMKULAI HPS	2	1	30.00	30.00	30.00	1979
194	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	1	1	9.00	9.00	9.00	1965
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	2	1	9.00	9.00	9.00	1965
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	3	1	9.00	9.00	9.00	1965
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	4	1	9.00	9.00	9.00	1965
195	Meghalaya	State Sector	MeECL	UMIAM HPS ST-IV	1	1	30.00	30.00	30.00	1992
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-IV	2	1	30.00	30.00	30.00	1992
196	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-I HPS	1	1	42.00	42.00	42.00	2011
	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-I HPS	2	1	42.00	42.00	42.00	2012
	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-I HPS	3	1	42.00	42.00	42.00	2013
197	Meghalaya	State Sector	MeECL	NEW UMTRU HPS	1	1	20.00	20.00	20.00	2017
	Meghalaya	State Sector	MeECL	NEW UMTRU HPS	2	1	20.00	20.00	20.00	2017
Total (Meghalaya)									322.00	

LIST OF HYDRO POWER STATIONS AS ON 31.03.2019

Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	No. of Units	Capacity		Total Capacity	Year of Comm.
							MW	MW		
198	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	1	1	135.00	135.00	135.00	2002
	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	2	1	135.00	135.00	135.00	2002
	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	3	1	135.00	135.00	135.00	2002
199	Arunachal Pradesh	Central Sector	NEEPCO	PARE HPS	1	1	55.00	55.00	55.00	2018
	Arunachal Pradesh	Central Sector	NEEPCO	PARE HPS	2	1	55.00	55.00	55.00	2018
200	Assam	Central Sector	NEEPCO	KOPIJI HPS	1	1	50.00	50.00	50.00	1988
	Assam	Central Sector	NEEPCO	KOPIJI HPS	2	1	50.00	50.00	50.00	1988
	Assam	Central Sector	NEEPCO	KOPIJI HPS	3	1	50.00	50.00	50.00	1997
	Assam	Central Sector	NEEPCO	KOPIJI HPS	4	1	50.00	50.00	50.00	1997
201	Assam	Central Sector	NEEPCO	KHONDONG HPS	1	1	25.00	25.00	25.00	1984
	Assam	Central Sector	NEEPCO	KHONDONG HPS	2	1	25.00	25.00	25.00	1984
202	Manipur	Central Sector	NHPC	LOKTAK HPS	1	1	35.00	35.00	35.00	1983
	Manipur	Central Sector	NHPC	LOKTAK HPS	2	1	35.00	35.00	35.00	1983
	Manipur	Central Sector	NHPC	LOKTAK HPS	3	1	35.00	35.00	35.00	1983
203	Mizoram	Central Sector	NEEPCO	TUIRIAL HPS	1	1	30.00	30.00	30.00	2017
	Mizoram	Central Sector	NEEPCO	TUIRIAL HPS	2	1	30.00	30.00	30.00	2017
204	Nagaland	Central Sector	NEEPCO	DOYANG HPS.	1	1	25.00	25.00	25.00	2000
	Nagaland	Central Sector	NEEPCO	DOYANG HPS.	2	1	25.00	25.00	25.00	2000
	Nagaland	Central Sector	NEEPCO	DOYANG HPS.	3	1	25.00	25.00	25.00	2000
Total Central Sector (North Eastern Region)									1005.00	
North Eastern Region Total									1427.00	
Total All India Hydro									45399.22	
									45293.42	
									105.80	

LIST OF NUCLEAR POWER STATIONS AS ON 31.03.2019

Appendix-C

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