



# अखिल भारतीय विद्युत सांख्यिकी All India Electricity Statistics



**सामान्य पुनर्विलोकन 2021**  
(2019 - 20 के आंकड़े समाविष्ट)



**General Review 2021**  
(Containing Data for the Year 2019 - 20)

भारत सरकार  
विद्युत मंत्रालय  
केंद्रीय विद्युत प्राधिकरण  
नई दिल्ली  
अप्रैल 2021



Government of India  
Ministry of Power  
Central Electricity Authority  
New Delhi  
April 2021



**अखिल भारतीय विद्युत सांख्यिकी**  
**All India Electricity Statistics**

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**(2019-20 के आंकड़े समाविष्ट)**

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प्रकाश मरुके  
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 2019-20 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 2019-20 के दौरान विद्युत उत्पादन क्षमता पिछले वर्ष की तुलना में 3.49% बढ़ी है। इस वर्ष कुल विद्युत उर्जा उत्पादन, जिसमें कैप्टिव प्लांट भी शामिल हैं, पिछले वर्ष की तुलना में 2.41% बढ़ा है। वर्ष 2019-20 के दौरान, देश में कुल स्थापित विद्युत उत्पादन क्षमता में, अक्षय ऊर्जा स्रोतों (यूटिलिटी और गैर यूटिलिटी) (25 मेगावाट से अधिक जल विद्युत को छोड़कर) की स्थापित क्षमता की हिस्सेदारी 20.50% रही, और इन स्रोतों से उत्पादन की हिस्सेदारी, कुल विद्युत उत्पादन में 8.91% 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 2021” भारत के, विद्युत क्षेत्र के विकास में शामिल सभी अंशदायकों की अपेक्षाओं को पूरी करेगा।

प्रकाश मरुके

अप्रैल, 2021

(प्रकाश मरुके)



**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 2021" is a step in this direction, which is based on data for the year 2019-20.

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 2019-20 has increased by 3.49% over the previous year and the total electricity generated in the country including that from captive plants during the year 2019-20 has registered a growth of 2.41% over the previous year. The share of renewable energy resources (Utilities and non-utilities) (excluding Hydro above 25MW ) in total installed capacity was 20.50% and the share of generation from these sources in total generation was 8.91% in the country during the year 2019-20.

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 2021" will fulfill the expectations of all stakeholders who are involved in the development of electricity sector in India.



(PRAKASH MHASKE)

April, 2021



सत्यमेव जयते

**सन्देश कुमार शर्मा**  
सदस्य (योजना)  
केंद्रीय विद्युत प्राधिकरण

## प्रस्तावना

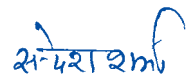
हाल ही में भारतीय विद्युत क्षेत्र ने काफी सकारात्मक विकास किया है लेकिन अभी इस क्षेत्र को आत्मनिर्भर बनने में कुछ समय लगेगा। विद्युत क्षेत्र में विभिन्न यूटिलिटीयों के विघटित होने, निजी क्षेत्र की भागीदारी, ईंधन मिश्रण में ज्यादा विविधताओं और विभिन्न वर्षों में मौसमानुसार लोड आवश्यकता पर ध्यान देने के 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 डिस्कॉम 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 लाईट, 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 2019-20 के पूर्ण आंकड़े/सूचना का अभाव होना एक प्रमुख बाधा है और ऐसे मामलों में वर्ष 2018-19 के आंकड़ों की ही पुनरावृत्ति की गई है अथवा इन्हीं से अनुमान लगाया गया है।

“अखिल भारतीय विद्युत सांख्यिकी सामान्य पुनर्विलोकन-2021” में शामिल मार्च, 2021 तक प्राप्त आंकड़ों/सूचना के आधार पर वर्ष 2019-20 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।

अप्रैल, 2021

  
(सन्देश कुमार शर्मा)



सत्यमेव जयते

**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 2019-20 is a major constraint and in such cases the data for the year 2018-19 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 2021" containing data for 2019-20 has been compiled based on the data/information received till March, 2021. 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)

APRIL, 2021



सत्यमेव जयते

**प्रहलाद**  
मुख्य अभियंता (पी.डी.एम.)  
केंद्रीय विद्युत प्राधिकरण

## आभार

इस प्रकाशन “अखिल भारतीय विद्युत सांख्यिकी सामान्य पुनर्विलोकन-2021” 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 यूटिलिटीयों, विद्युत विभाग और भारत की गैर-यूटिलिटीयों 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 यूटिलिटीयों, 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, उप निदेशक एवं श्री पवन कुमार गुप्ता, उप 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 किया। 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।

अप्रैल, 2021

(प्रहलाद)





**Prahlad**  
Chief Engineer (PDM)  
Central Electricity Authority

## ACKNOWLEDGEMENT

This publication "All India Electricity Statistics- General Review 2021" 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, Director; Ms. Kiran Meena, Deputy Director; Shri Akshay Kumar, Deputy Director and Shri Pawan Kumar Gupta, Deputy Director is gratefully acknowledged. Shri R.R. Sharma, Sr. Statistical Officer provided administrative support 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.

APRIL, 2021

  
(PRAHLAD)



<b>GLOSSARY</b>	
<b>Containing Definitions, Expansion of Abbreviations</b>	
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
HVPLN	Haryana Vidyut Prasaran Nigam Limited
IPGCL	Indra Prastha Generation Corporation Limited
KL	Kilo Litre
KPTCL	Karnataka Power Transmission Corporation Limited
kV	Kilo Volt
kVA	Kilo Volt Ampere
kW	Kilo Watt
kWh	Kilo Watt Hour
LSHS	Low Sulphur Heavy Stock
LV	Low Voltage
MMSCM	Million Metric Standard Cubic Metre
MPPGCL	Madhya Pradesh Power Generation Corporation Limited
MPPTCL	Madhya Pradesh Power Transmission Corporation Limited
MT	Metric Tonne
MV	Medium Voltage
MVA	Mega Volt Ampere
MW	Mega Watt(equivalent to 1000 Kilo Watt)
NA	Not Available
NEEPCO	North Eastern Electric Power Corporation Limited
NER	North- Eastern Region
NHDC	Narmada Hydro Development Corporation Limited
NHPC	National Hydro Electric Power Corporation Limited
NON-UTILITIES	Non-Utilities shall mean captive generating plant which means a power plant set up by any person to generate electricity primarily for own use and includes power plant set up by any Co-Operative society or association of persons for generating electricity primarily for use of members of such Co-Operative society or association.



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



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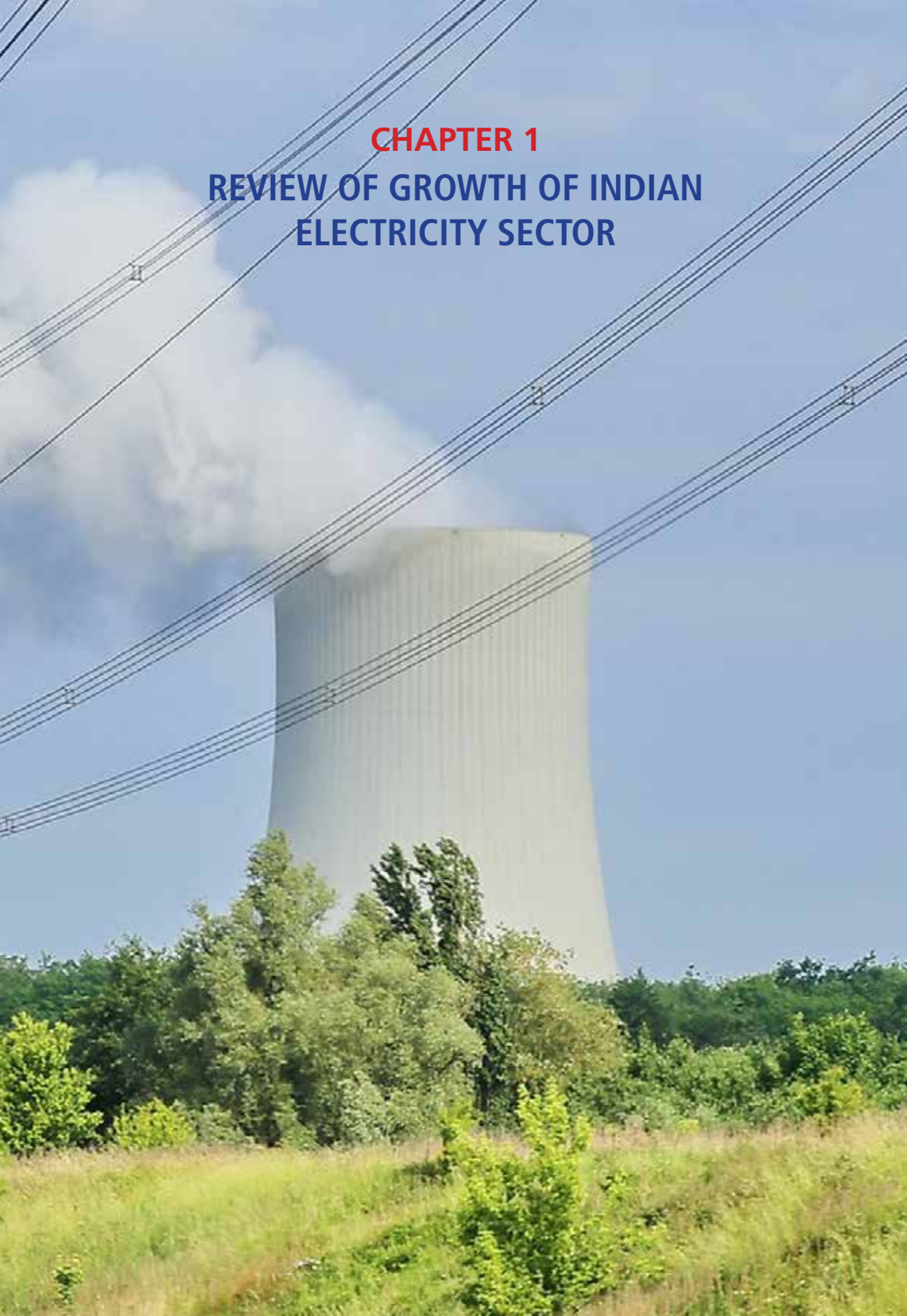
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A large industrial cooling tower, likely from a power plant, is the central focus. It is a tall, cylindrical structure with a slightly flared top, emitting a thick plume of white steam that rises into the sky. In the foreground, several high-voltage power lines stretch across the frame from the top left towards the right. The background consists of a dense line of green trees and bushes, with a field of tall, yellowish-green grass in the immediate foreground. The sky is a clear, bright blue with some light, wispy clouds near the top.

**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, 2020 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 2020, the All India installed capacity (excluding captive capacity) has increased to 370106 MW consisting of 45699 MW hydro, 230600 MW thermal, 6780 MW nuclear and 87028 MW renewable energy taking into account the addition of new capacity and up-ration/de-ration of existing capacity and retirement of old and inefficient units at the end of the year 2019-20. 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 2019-20 has grown to 76239 MW out of which the contribution of hydro was 131 MW, steam 51543 MW, diesel 12775 MW, gas 7316 MW, and RES 4475 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 1383417 GWh (excluding generation from captive plants) during the year 2019-20 constituting 155769 GWh hydro, 1042838 GWh thermal, 46472 GWh nuclear and 138337 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 2019-20 was 239567 GWh, constituting 348 GWh from hydro, 205546 GWh from steam, 1919 GWh from diesel, 25443 GWh from gas and 6310 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 1248086 GWh during the year 2019-20. 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 42.69%, 24.74% and 16.93% respectively of the total consumption including non-utilities.

## 4. RURAL ELECTRIFICATION

The total number of villages electrified as on 31.12.1950 was 3061. The total number of villages electrified as on 31.03.2020 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 13279315 ckt. kms as on 31st March 2020. Details are given at Table 1.1.

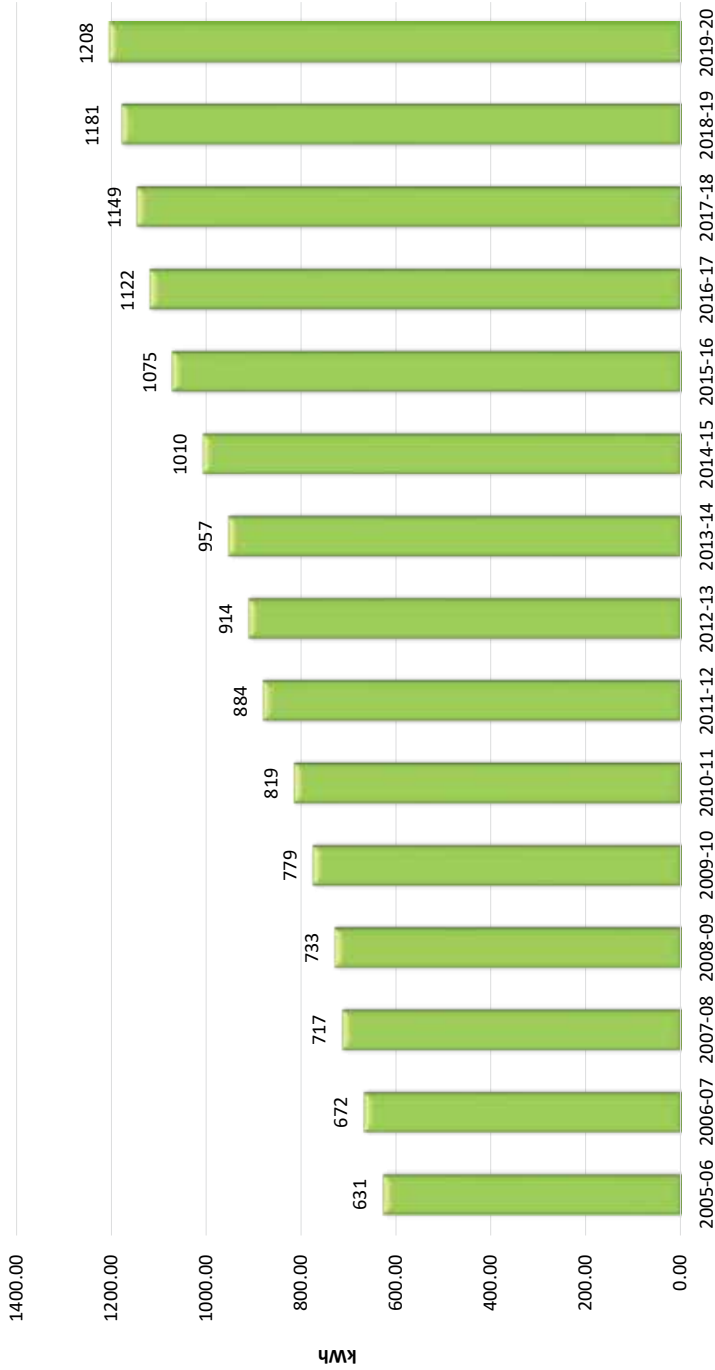
## 6. PER CAPITA ELECTRICITY CONSUMPTION

The per capita electricity consumption which was 18.17 kWh during 1950, has increased to 1208 kWh during the year 2019-20. 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 2019-20



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 (2019-20)**

<b>A Installed Capacity as on 31.03.2020</b>								
(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	26958.50	66651.50	7118.71	236.01	74006.21	0.00	2357.03	103321.74
Central Sector	15346.72	62480.00	7237.91	0.00	69717.91	6780.00	1632.30	93476.93
Private Sector	3394.00	76003.00	10598.74	273.70	86875.45	0.00	83038.35	173307.79
<b>All India Total</b>	<b>45699.22</b>	<b>205134.50</b>	<b>24955.36</b>	<b>509.71</b>	<b>230599.57</b>	<b>6780.00</b>	<b>87027.68</b>	<b>370106.46</b>
(ii) Non-Utilities								76239.36
<b>(iii) Total All India Installed Capacity (Utilities + Non-Utilities)</b>								<b>446345.82</b>
<b>B Generation for 2019-20</b>								
(i) Utilities								(GWh)
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	78297.76	292992.92	16567.06	161.28	309721.26	0.00	4549.09	392568.11
Central Sector	62628.89	334820.57	16345.97	0.00	351166.54	46472.45	2620.05	462887.93
Private Sector	14842.47	366383.50	15529.61	37.25	381950.36	0.00	131167.88	527960.71
<b>All India Total</b>	<b>155769.12</b>	<b>994196.99</b>	<b>48442.64</b>	<b>198.53</b>	<b>1042838.16</b>	<b>46472.45</b>	<b>138337.02</b>	<b>1383416.75</b>
(ii) Non-Utilities								239566.75
<b>(iii) All India Total Generation (Utilities + Non-Utilities)</b>								<b>1622983.50</b>
(iv) Net Import (+)/Export (-) outside the Country								-3140.31
(v) Total Energy available in the Country								1619843.19
C Per Capita Consumption for 2019-20 (KWh)								1208
<b>D Growth</b>								
		2017-18		2018-19		2019-20		
		Value %	Growth	Value %	Growth	Value %	Growth	
<b>1. Installed Capacity (MW)</b>		344002.39	5.25	356100.19	3.52	370106.46	3.93	
<b>2. Generation (GWh)</b>		1303454.68	5.51	1371779.48	5.24	1383416.75	0.85	
<b>3. Per Capita Consumption (KWh)</b>		1149	2.44	1181	2.77	1208	2.30	
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
27	31.03.2020 (End of Annual Plan)	370106	76239	597464	13279315	1208

\* : Estimated

@ : As per revised definition of village electrification and 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
27	31.03.2020 (End of Annual Plan)	45699	230600	6780	87028	370106

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	31.12.1950	2519	2587	0	0	5106
2	31.03.1956 (End of 1st Plan)	4295	5367	0	0	9662
3	31.03.1961 (End of 2nd Plan)	7837	9100	0	0	16937
4	31.03.1966 (End of 3rd Plan)	15225	17765	0	0	32990
5	31.03.1969 (End of 3 Annual Plans)	20723	26711	0	0	47434
6	31.03.1974 (End of 4th Plan)	28972	35321	2396	0	66689
7	31.03.1979 (End of 5th Plan)	47159	52594	2770	0	102523
8	31.03.1980 (End of Annual Plan)	45478	56273	2876	0	104627
9	31.03.1985 (End of 6th Plan)	53948	98836	4075	0	156859
10	31.03.1990 (End of 7th Plan)	62116	178690	4625	6	245438
11	31.03.1992 (End of 2 Annual Plans)	72757	208708	5525	38	287029
12	31.03.1997 (End of 8th Plan)	68901	317042	9071	876	395889
13	31.03.2002 (End of 9th Plan)	73580	422300	19475	2085	517439
14	31.03.2007 (End of 10th Plan)	113502	528490	18802	9860	670654
15	31.03.2008 (1st year of 11th Plan)	120877	560072	16957	25210	723116
16	31.03.2009 (2nd year of 11th Plan)	110098	588282	14927	27860	741167
17	31.03.2010 (3rd year of 11th Plan)	104059	640208	18636	36947	799850
18	31.03.2011 (4th year of 11th Plan)	114415	664822	26266	39245	844748
19	31.03.2012 (End of 11th Plan)	130511	708427	32287	51226	922451
20	31.03.2013 (1st year of 12th Plan)	113720	760454	32866	57449	964489
21	31.03.2014 (2nd year of 12th Plan)	134847	792054	34228	65520	1026649
22	31.03.2015 (3rd year of 12th Plan)	129244	877941	36102	61785	1105072
23	31.03.2016 (4th year of 12th Plan)	121377	943013	37413	65781	1167584
24	31.03.2017 (End of 12th Plan)	122378	993516	37916	81548	1235358
25	31.03.2018 (End of Annual Plan)	126123	1037146	38346	101839	1303455
26	31.03.2019 (End of Annual Plan)	134894	1072314	37813	126759	1371779
27	31.03.2020 (End of Annual Plan)	155769	1042838	46472	138337	1383417

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

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

(GWh)

Sl. No.	During financial year	Domes- tic	Commer- cial	Indus- trial	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 3Annual Plan)	3184	2126	29931	1247	3465	1439	41392
6	1973-74 (End of 4th Plan)	4645	2988	37791	1531	6310	2292	55557
7	1978-79 (End of 5th Plan)	7576	4330	54440	2186	12028	3445	84005
8	1979-80 (End of Annual Plan)	8402	4657	53206	2301	13452	3316	85334
9	1984-85 (End of 6th Plan)	15506	6937	73520	2880	20961	4765	124569
10	1989-90 (End of 7th Plan)	29577	9548	100373	4070	44056	7474	195098
11	1991-92 (End of 2 Annual Plans)	35854	12032	110844	4520	58557	9394	231201
12	1996-97 (End of 8th Plan)	55267	17519	139253	6594	84019	12642	315294
13	2001-02 (End of 9th Plan)	79694	24139	159507	8106	81673	21551	374670
14	2002-03 (1st year of 10th Plan)	83355	25437	168821	8797	84486	22564	393460
15	2003-04 (2nd year of 10th Plan)	89736	28201	181970	9210	87089	22128	418334
16	2004-05 (3rd year of 10th Plan)	95659	31381	199448	9495	88555	23455	447993
17	2005-06 (4th year of 10th Plan)	100090	35965	214121	9943	90292	24040	474451
18	2006-07 (End of 10th Plan)	111002	40220	241216	10800	99023	23411	525672
19	2007-08 (1st year of 11th Plan)	120918	46685	265407	11108	104182	29660	577960
20	2008-09 (2nd year of 11th Plan)	130495	54199	281663	11813	107767	28590	614527
21	2009-10 (3rd year of 11th Plan)	141845	58971	297621	12390	119492	27712	658031
22	2010-11 (4th year of 11th Plan)	155301	63912	225019	13323	126377	33037	616969
23	2011-12 (End of 11th Plan)	171104	65381	352291	14206	140960	41252	785195
24	2012-13 (1st year of 12th Plan)	183700	72794	365989	14100	147462	40256	824301
25	2013-14 (2nd year of 12th Plan)	199842	74247	384418	15540	152744	47418	874209
26	2014-15 (3rd year of 12th Plan)	217405	78391	418346	16177	168913	49290	948522
27	2015-16 (4th year of 12th Plan)	238876	86037	423523	16594	173185	62976	1001191
28	2016-17 (5th year of 12th Plan)	255826	89825	440206	15683	191151	68493	1061183
29	2017-18 (Annual Plan)	273545	93755	468613	17433	199247	70834	1123427
30	2018-19 (Annual Plan)	288243	98228	519196	18837	213409	72058	1209972
31	2019-20 (Annual Plan)	308745	106047	532820	19148	211295	70031	1248086
32	Percentage Share (2019-20)	24.74	8.50	42.69	1.53	16.93	5.61	100.00

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

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

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
32	2019-20	348.04	205545.78	1919.32	25443.15	6310.47	239566.76	NA	239566.76

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	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Chandigarh	1301	1365	1419	1472	1497	1589	1574	1535	1604
Delhi	23015	23144	23981	24775	25658	26604	28488	29169	29812
Haryana	27614	26258	29083	32197	35092	34501	38215	41017	43382
Himachal Pradesh	6844	7358	7649	7842	7958	7974	8405	9041	9124
Jammu & Kashmir	4267	5163	5754	6372	7144	7902	8395	9633	10623
Punjab	33888	35825	37557	39384	40843	44050	47027	50120	49168
Rajasthan	37904	42160	43151	49920	50359	51027	53618	60151	61942
Uttar Pradesh	50592	55550	59177	64707	70967	81068	90395	91355	94932
Uttarakhand	8253	8574	9597	9980	10298	11162	11210	11543	12021
<b>Sub-Total (NR)</b>	<b>193679</b>	<b>205397</b>	<b>217368</b>	<b>236648</b>	<b>249816</b>	<b>265878</b>	<b>287327</b>	<b>303565</b>	<b>312608</b>
Chhattisgarh	13178	14115	14791	17102	18887	19159	20363	22210	22793
Gujarat	57654	63427	66878	73890	77028	85556	90719	95970	92245
Madhy Pradesh	28541	32936	36770	41757	46384	45681	52523	56972	58628
Maharashtra	96642	100285	100842	108496	115356	121051	124921	132619	125645
Daman & Diu	1771	1814	1819	1595	1692	1737	2377	2431	2496
D & N Haveli	4139	4595	5190	5164	5548	5737	5672	6066	6288
Goa	2973	2998	3085	3151	3391	3475	3618	3787	4104
<b>Sub-Total (WR)</b>	<b>204899</b>	<b>220170</b>	<b>229375</b>	<b>251154</b>	<b>268286</b>	<b>282397</b>	<b>300193</b>	<b>320056</b>	<b>312199</b>
Andhra Pradesh	70421	68439	72919	41914	44353	47761	51001	55407	57119
Telangana				39639	41289	44446	51198	58366	59365
Karnataka	47456	51439	53716	55166	57223	58152	59236	62405	61131
Kerala	15993	16833	18025	18786	19829	20218	21354	21414	23149
Tamil Nadu	61897	62077	71772	77618	80083	83936	86654	91788	95919
Puducherry	2322	2492	2532	2441	2468	2556	2540	2654	2714
Lakshadweep	34	38	41	45	46	48	49	49	48
<b>Sub-Total (SR)</b>	<b>198122</b>	<b>201318</b>	<b>219005</b>	<b>235608</b>	<b>245291</b>	<b>257118</b>	<b>272031</b>	<b>292083</b>	<b>299444</b>
Bihar	6184	6721	7980	9807	13250	17251	18713	20856	22709
Jharkhand	15595	17124	18175	16533	17542	19549	19950	21184	21997
Orissa	13054	13552	14411	15440	16053	16988	17714	19373	20716
West Bengal	33903	36320	36592	39059	42497	43946	45478	48290	50482
Sikkim	371	385	405	405	354	437	344	381	411
A & N Islands	199	206	216	229	242	266	266	255	269
<b>Sub-Total (ER)</b>	<b>69306</b>	<b>74309</b>	<b>77778</b>	<b>81473</b>	<b>89938</b>	<b>98436</b>	<b>102464</b>	<b>110339</b>	<b>116583</b>
Arunachal Pradesh	436	471	481	543	375	371	437	447	419
Assam	3969	4205	4763	5484	6199	6525	7064	7268	7109
Manipur	325	379	398	465	475	512	564	613	631
Meghalaya	1075	1259	1322	1233	1283	972	1064	1105	1259
Mizoram	252	287	303	327	339	354	396	408	486
Nagaland	317	328	395	529	549	635	664	679	693
Tripura	554	721	722	786	813	895	928	956	914
<b>Sub-Total (NER)</b>	<b>6929</b>	<b>7649</b>	<b>8383</b>	<b>9367</b>	<b>10033</b>	<b>10264</b>	<b>11116</b>	<b>11475</b>	<b>11512</b>
<b>Total(All India)</b>	<b>672933</b>	<b>708843</b>	<b>751908</b>	<b>814250</b>	<b>863364</b>	<b>914093</b>	<b>973131</b>	<b>1037518</b>	<b>1052346</b>



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

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

**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 2020, there were one hundred fifty (150) 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 31.03.2020, there were thirty-four (34) 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**  
**31.03.2020**

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



**Table 2.1 (Contd.)**  
**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER**  
**CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY**  
**FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION**  
**31.03.2020**

Sl. No.	Name	Head Quarter	Ownership by Govt.
41	Puducherry Power Corporation Ltd.	Puducherry	Puducherry
42	Raichur power Corporation Limited	Bengaluru	State(JV)
43	Rajasthan Rajya Vidyut Utpadan Nigam Ltd.	Jaipur	Rajasthan
44	Ratnagiri Gas & Power Pvt. Limited	New Delhi	Central Sector (JV)
45	Sardar Sarovar Narmada Nigam Ltd.	Gandhinagar	Gujarat
46	Satluj Jal Vidyut Nigam Ltd.	Shimla	Central Sector (JV)
47	Sikkim Power Development Corporation Ltd.	Gangtok	Sikkim
48	Singareni Collieries Company Ltd	Kothagudem	Telanagana
49	TB Dam Tungbhadra Board	Bellary	A.P., Karnataka
50	Teesta Urja limited	New Delhi	State Sector (JV)
51	Tehri Hydro Development Corpn. Ltd.	Rishikesh	Uttarakhand
52	Telangana State Power Generation Corpn. Ltd.	Hyderabad	Telangana
53	Tenughat Vidyut Nigam Ltd.	Ranchi	Jharkhand
54	The Durgapur Projects Ltd.	Durgapur	West Bengal
55	Uttar Pradesh Jal Vidyut Nigam Ltd.	Lucknow	Uttar Pradesh
56	Uttar Pradesh Rajya Vidyut Utpadan Nigam Ltd.	Lucknow	Uttar Pradesh
57	Uttarakhand Jal Vidyut Nigam Ltd.	Dehradun	Uttarakhand
58	West Bengal Power Development Corpn. Ltd.	Kolkata	West Bengal. Govt.
<b>(B) Distribution Undertakings</b>			
1	Ajmer Vidyut Vitran Nigam Ltd.	Ajmer	Rajasthan
2	Andhra Pradesh Central Power Distribution Corporation Ltd.	Vijaywada	Andhra Pradesh
3	Assam Power Distribution Company Ltd.	Guwahati	Assam
4	Bangalore Electricity Supply Co. Ltd.	Bengaluru	Karnataka
5	Brihan Mumbai Electric supply & Transport undertaking	Mumbai	Maharashtra
6	Chamundeshwari Electricity Corpn. Ltd.	Mysore	Karnataka
7	Chhattisgarh State Power Distribution Co. Ltd.	Raipur	Chhattisgarh
8	Cochin Port Trust, Kochi	Kochi	Kerala
9	Cochinn Special Economic Zone Authority (CSEZA), Kochi	Kochi	Kerala
10	Dakshin Gujarat Vj Company Ltd.	Surat	Gujarat
11	Dakshin Haryana Bijli Vitran Nigam Ltd.	Hisar	Haryana
12	Dakshinanchal Vidyut Vitran Nigam Ltd.	Agra	Uttar Pradesh
13	Deendayal Port Trust	Gandhidham, Kutch	Gujarat
14	DNH Power Distribution Corpon. Ltd.	Silvassa	Dadra Nagar Haveli
15	Eastern Power Distribution Co. of A.P. Ltd.,	Visakhapatnam	Andhra Pradesh.
16	Gulbarga Electricity Supply Co. Ltd.	Kalaburgi	Karnataka
17	Hubli Electricity Supply Co. Ltd.	Hubli	Karnataka
18	Infopark	Kochi	Kerala
19	Jaipur Vidyut Vitran Nigam Ltd.	Jaipur	Rajasthan
20	Jammu Power Distribution Corporation Ltd	Jammu	Jammu & Kashmir
21	Jharkhand Bijli Vitran Nigam Ltd.	Ranchi	Jharkhand
22	Jodhpur Vidyut Vitran Nigam Ltd.	Jodhpur	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**  
**31.03.2020**

Sl. No.	Name	Head Quarter	Ownership by Govt.
23	Kanpur Electricity Supply Co. Ltd.	Kanpur	Uttar Pradesh
24	Kashmir Power Distribution Corporation Limited	Srinagar	Jammu & Kashmir
25	M.P. Madhya Kshetra Vidyut Vitran Corp. Ltd.	Bhopal	Madhya Pradesh
26	M.P. Pashchim Kshetra Vidyut Vitran Co. Ltd.	Indore	Madhya Pradesh
27	M.P. Poorv Kshetra Vidyut Vitran Corp. Ltd.	Jabalpur	Madhya Pradesh
28	Madhya Gujarat Vij Co. Ltd.	Vadodara	Gujarat
29	Madhyanchal Vidyut Vitran Nigam Ltd.	Lucknow	Uttar Pradesh
30	Maharashtra State Electricity Distribution Co. Ltd.	Mumbai	Maharashtra
31	Mangalore Electricity Supply Co. Ltd.	Mangalore	Karnataka
32	Manipur State Power Distribution Company Ltd.	Imphal	Manipur
33	Meghalaya Power Distribution Corporation Ltd.	Shillong	Meghalaya
34	Military Engineering Services	Delhi	Delhi
35	Military Engineering Services	Ranchi	Jharkhand
36	New Delhi Municipal Council	New Delhi	Delhi
37	North Bihar Power Distribution Co. Ltd.	Patna	Bihar
38	Northern Power Distribution Corpn. of Telangana Ltd.	Warangal	Telangana
39	Paschim Gujarat Vij Co. Ltd.	Rajkot	Gujarat
40	Paschimanchal Vidyut Vitran Nigam Ltd.	Meerut	Uttar Pradesh
41	Purvanchal Vidyut Vitran Nigam Ltd.	Varanasi	Uttar Pradesh
42	Rubber Park India Pvt. Ltd.	Ernakulam	Kerala
43	South Bihar Power Distribution Co. Ltd.	Patna	Bihar
44	Southern Power Distribution Co. of A.P. Ltd.	Tirupati	Andhra Pradesh
45	Southern Power Distribution co. of Telangana Ltd.	Hyderabad	Telangana
46	TechnoPark	Trivandrum	Kerala
47	Thrissur Corporation	Thrissur	Kerala
48	Uttar Gujarat Vij Company Ltd.	Mehsana	Gujarat
49	Uttar Haryana Bijli Vitran Nigam Ltd.	Panchkula	Haryana
50	Uttarakhand Power Corporation Ltd.	Dehradun	Uttarakhand
51	West Bengal State Electricity Distribution Co. Ltd.	Kolkata	West Bengal. Govt.
<b>(C) Transmission Undertakings</b>			
1	Assam Electricity Grid Corporation. Ltd.	Guwahati	Assam
2	Bihar State Power Transmission Co. Ltd.	Patna	Bihar
3	Chhattisgarh State Power Transmission Co. Ltd.	Raipur	Chhattisgarh
4	Delhi Transco Ltd.	Delhi	Delhi
5	Gujarat Energy Transmission Corp. Ltd	Vadodara	Gujarat
6	Haryana Vidyut Prasaran Nigam Ltd.	Panchkula	Haryana
7	Jharkhand Urja Sancharan Nigam Ltd.	Ranchi	Jharkhand
8	Jammu and Kashmir Power Transmission Corporation Ltd	Srinagar	Jammu & Kashmir
9	Karnataka Power Transmission Corp. Ltd.	Bengaluru	Karnataka
10	M.P. Power Transmission 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**  
**31.03.2020**

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



**Table 2.1 (Contd.)**  
**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER**  
**CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY**  
**FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION**  
**31.03.2020**

<b>(H) Generating + Distribution + Holding Undertakings</b>			
1	Manipur State Power Company Ltd.	Imphal	Manipur
<b>(I) Holding Companies for Distribution Undertakings</b>			
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
<b>(J) State/ UT Electricity Departments</b>			
<b>(i) STATE ELECTRICITY DEPARTMENTS</b>			
1	Arunachal Pradesh	Itanagar	State
2	Goa	Panaji	State
3	Mizoram	Aizawal	State
4	Nagaland	Kohima	State
5	Sikkim	Gangtok	State
<b>(ii) UNION TERRITORIES ELECTRICITY DEPARTMENTS</b>			
1	Andaman & Nicobar Islands	Port Blair	Electricity Deptt
2	Chandigarh	Chandigarh	Electricity Deptt.
3	Daman & Diu	Daman	Electricity Deptt.
4	Ladakh	Leh	Power Deptt.
5	Lakshadweep	Kavaratti	Electricity Deptt.
6	Puducherry	Puducherry	Electricity Deptt.



**Table 2.2**  
**CLASSIFICATION OF COMPANIES IN PRIVATE SECTOR**  
**EXISTING IN THE COUNTRY**  
**AS ON 31.03.2020**

Sl. No.	Name of the State	No. of Companies & Co-operatives			Total
		Generation	Generation* & Distribution	Distribution§	
<b>(A) NORTHERN REGION</b>					
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>(B) WESTERN REGION</b>					
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
<b>(C) SOUTHERN REGION</b>					
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
<b>(D) EASTERN REGION</b>					
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
<b>(E) NORTH EASTERN REGION</b>					
1	Assam	1	0	0	1
<b>ALL INDIA</b>		<b>109</b>	<b>8</b>	<b>27</b>	<b>144</b>

\* 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 31.03.2020**  
**(Utilities)**

Sl. No.	Name of Company	Name of State
<b>A. Generation(Conventional)</b>		
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
37	Adani Power Ltd.	Gujarat
38	CGPL(Tata Power)	Gujarat
39	CLP(India) Pvt. Ltd.	Gujarat
40	Essar Power Gujarat Ltd.	Gujarat



**Table 2.3 (Contd.)  
Details of Companies in Private Sector and Co-operatives as on 31.03.2020  
(Utilities)**

Sl. No.	Name of Company	Name of State
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
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



**Table 2.3 (Contd.)**  
**Details of Companies in Private Sector and Co-operatives as on 31.03.2020**  
**(Utilities)**

Sl. No.	Name of Company	Name of State
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 (Contd.)**  
**Details of Companies in Private Sector and Co-operatives as on 31.03.2020**  
**(Utilities)**

Sl. No.	Name of Company	Name of State
<b>B. Distribution</b>		
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	Tata Steel Utilities and Infrastructure Servicea Ltd (TSUISL)	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	Souhern Electricity supply company of Odisha Limited	Odisha
27	Western Electricity supply company of Odisha Limited	Odisha
<b>C. Generation(Conventional) &amp; Distribution</b>		
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 Corpn. Ltd.	West Bengal
8	India Power Corporation Ltd.	West Bengal



**Table 2.4**  
**CLASSIFICATION OF MUNICIPAL UNDERTAKINGS**  
**31.03.2020**

Sl. No.	Name of the State	Number of Municipalities			Total
		Generation & Distribution	Generation Purchase & Distribution	Purchase & Distribution	
1	Delhi	0	0	1	1
2	Maharashtra	0	0	1	1
3	Kerala	0	0	1	1
<b>Total All India</b>		<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>



**Table 2.5**  
**NAME OF POWER TRADING COMPANIES EXISTING**  
**As on 31.03.2020**

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	Jai Prakash Associates Ltd.	23.03.2011	I
11	Statkraft Markets (P) Ltd.	21.06.2012	I
12	Manikaran Power Limited, Kolkata	29.06.2012	I
13	Solar Energy Corporation of India	01.04.2014	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	NTPC limited	08.07.2019	I
18	Essar Electric Power Development Corporation Ltd.	14.12.2005	II
19	RPG Power Trading Company Ltd	23.09.2008	II
20	Kreate Energy (I) Pvt. Ltd.	12.02.2009	II
21	Shree Cement Ltd	16.03.2010	II
22	Arunachal Pradesh Power Corporation (P) Limited, Itanagar	11.09.2012	II
23	Instinct Infra & Power Ltd.	07.09.2005	III
24	Greenko Energies (P)Ltd.	22.01.2008	III
25	Shyam Indus Power Solutions (P) Ltd	11.11.2008	III
26	ABJA Power Pvt. Ltd	26.04.2011	III
27	Customised Energy Solutions India (P) Ltd.	08.06.2011	III
28	Saranyu Power Trading Pvt. Ltd.	10.02.2015	III
29	Gita Power & Infrastructure(P) Ltd.	20.10.2015	III
30	Ambitious Power Trading Company Ltd.	16.09.2008	IV
31	Vedprakash Power (P) Limited	19.08.2013	IV
32	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
33	Renew Solar Services Pvt. Ltd.	27.01.2017	IV
34	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



# 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 446346 MW as on 31.03.2020 as compared to 431307 MW as on 31.03.2019. The net addition in generating capacity amounted to 15039 MW (Hydro-327 MW, Thermal-3917 MW & Renewable Energy Sources-10795 MW). The increase in All India Installed Capacity including captive power plant capacity over the last year was 3.49%. The total installed capacity comprises 283079 MW from conventional sources (Utilities), 87028 MW from Renewable Energy Sources and 76239 MW from Industrial Captive power plants.

#### UTILITIES

Installed capacity (Utilities) in the country increased to 370106 MW as on 31.03.2020 as compared to 356100 MW as on 31.03.2019 thereby registering an increase of 3.93% over the previous year. The total net addition in generating capacity amounted to 14006 MW which includes 4620 MW from conventional sources viz Hydro, Thermal & Nuclear and 9386 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 12.35%, 62.31%, 1.83% and 23.51% respectively as on 31.03.2020.

#### 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 76239 MW as on 31.03.2020 as compared to 75207 MW as on 31.03.2019 thereby registering an increase of 1.37% over the previous year. In the total capacity of non-utilities, the contribution of hydro, steam, diesel, gas and RES capacity had been recorded as 0.17%, 67.61%, 16.75%, 9.60% & 5.87% 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, 2020.



### GROWTH OF INSTALLED CAPACITY UTILITIES 2017-18 to 2019-20

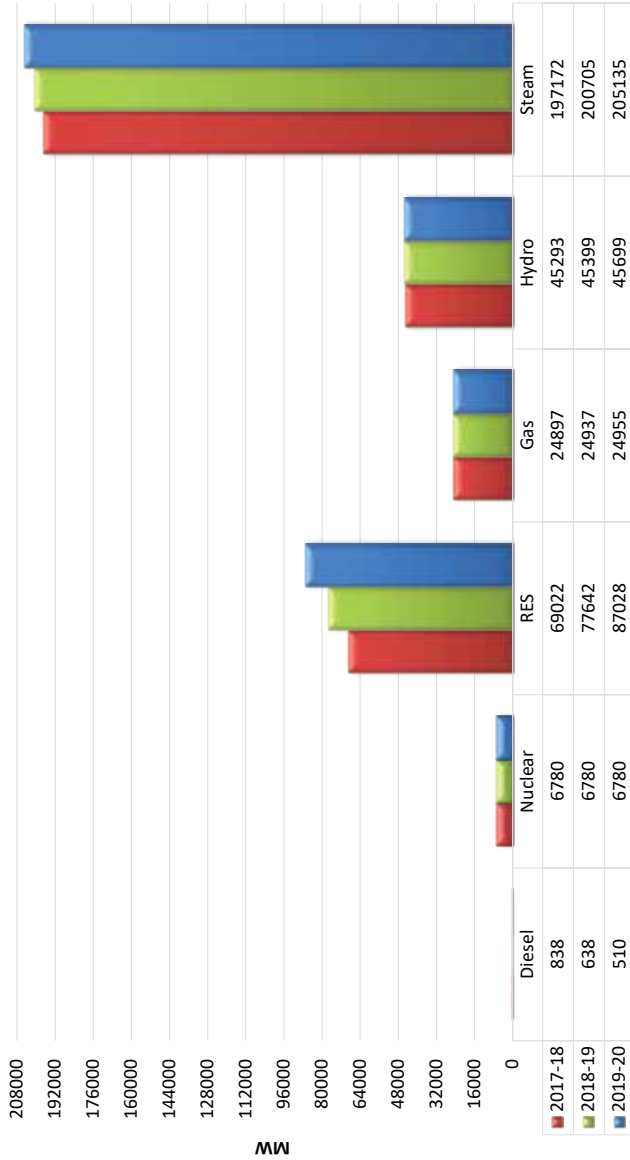


Table 3.1  
ALL INDIA INSTALLED CAPACITY MODE-WISE  
UTILITIES AND NON-UTILITIES  
As on 31.03.2020

(MW)

Sl. No.	Year	Installed Capacity								Total (3+7+8+9)
		Hydro	Thermal			Nuclear	R E S	Total (Thermal) (4+5+6)		
			Steam	Diesel	Gas					
1	2	3	4	5	6	7	8	9	10	
<b>( i ) Installed Capacity: Utilities</b>										
	31.03.2019	45399.22	200704.50	637.63	24937.22	226279.34	6780.00	77641.63	356100.19	
	31.03.2020	45699.22	205134.50	509.71	24955.36	230599.57	6780.00	87027.68	370106.46	
	% Increase	0.66	2.21	-20.06	0.07	1.91	0.00	12.09	3.93	
<b>( ii ) Installed Capacity : Non-Utilities (Industries having demand of 1 MW &amp; above)</b>										
	31.03.2019	103.39	47679.04	15570.97	8787.13	72037.14	0.00	3066.59	75207.13	
	31.03.2020	130.77	51542.77	12774.66	7315.87	71633.30	0.00	4475.29	76239.36	
	% Increase	26.48	8.10	-17.96	-16.74	-0.56	0.00	45.94	1.37	
<b>( iii ) Installed Capacity : Total ( i+ii)</b>										
	31.03.2019	45502.61	248383.54	16208.60	33724.35	298316.49	6780.00	80708.22	431307.31	
	31.03.2020	45829.99	256677.27	13284.37	32271.23	302232.86	6780.00	91502.97	446345.82	
	% Increase	0.72	3.34	-18.04	-4.31	1.31	0.00	13.38	3.49	



# INSTALLED CAPACITY MODEWISE UTILITIES As on 31.03.2020

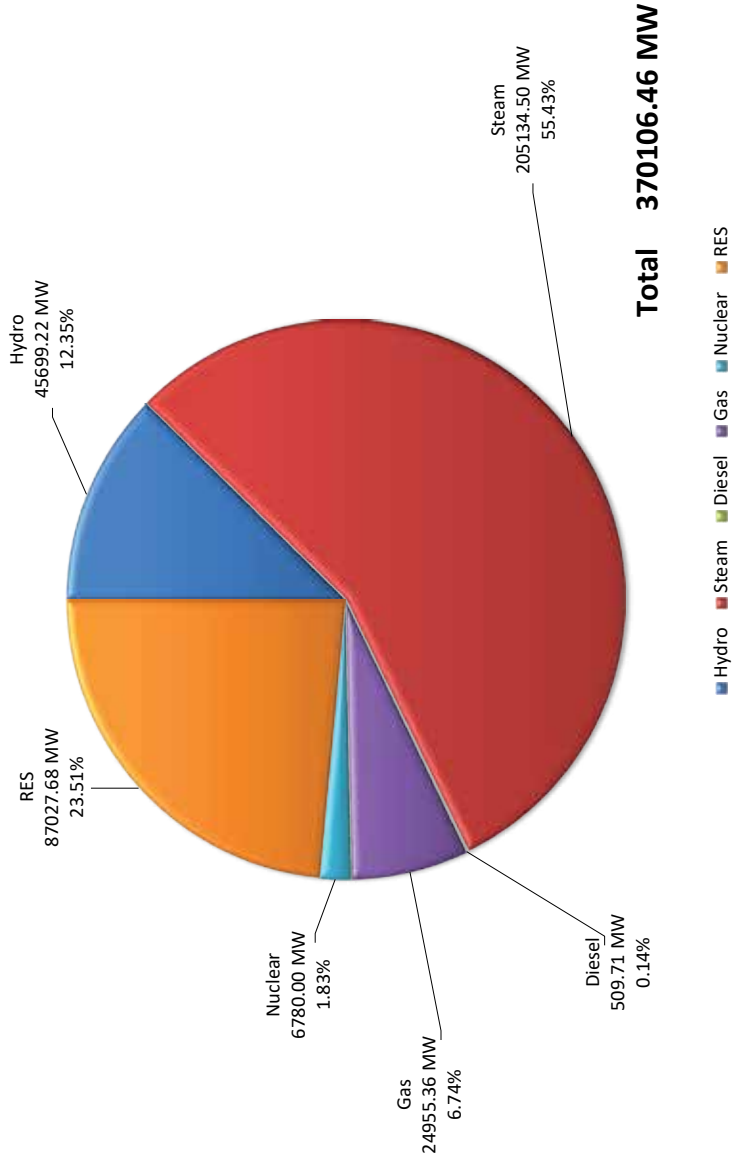




Table 3.2  
ALL INDIA INSTALLED CAPACITY OWNERSHIP-WISE AND MODE-WISE  
UTILITIES  
As on 31.03.2020

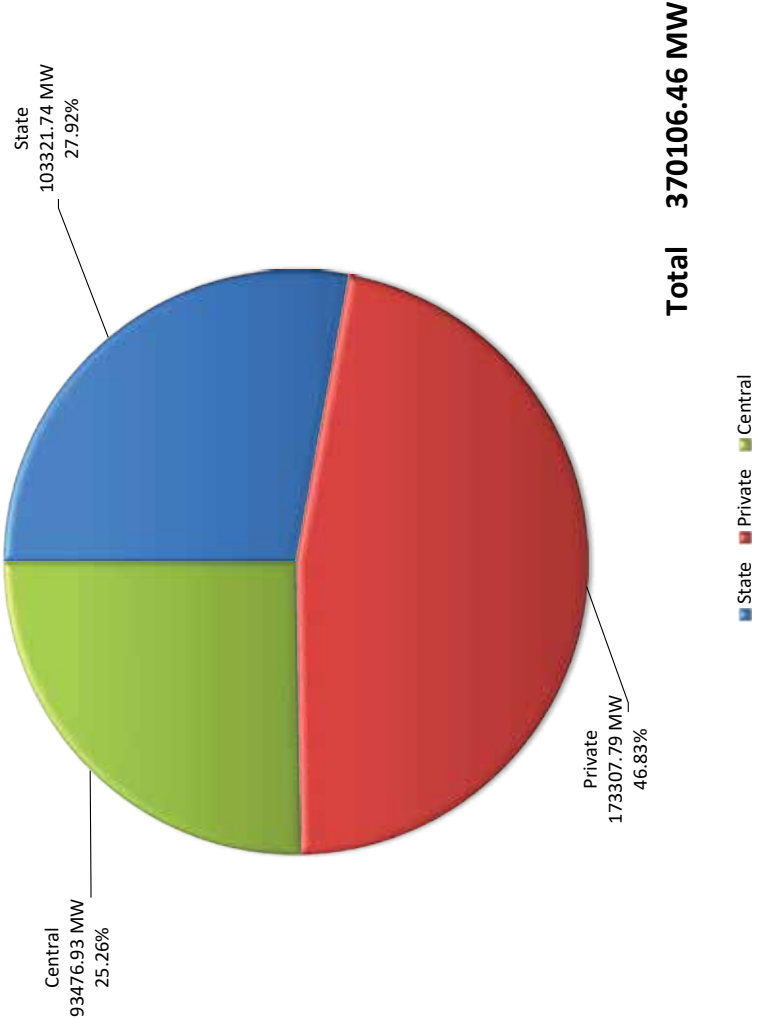
(MW)

Sl. No.	Sector	Installed Capacity								Total (2+6+7+8)
		Hydro	Thermal				Nuclear	R E S		
			Steam	Diesel	Gas	Total (Thermal) (3+4+5)				
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	
<b>1</b>	<b>Public Sector</b>									
1.1	Elect. Deptt./Govt./Corpn./Joint Ventures	26958.50	66651.50	236.01	7118.71	74006.21	0.00	2357.03	103321.74	
1.2	Central Sector	15346.72	62480.00	0.00	7237.91	69717.91	6780.00	1632.30	93476.93	
	<b>Sub-total Public Sector</b>	<b>42305.22</b>	<b>129131.50</b>	<b>236.01</b>	<b>14356.62</b>	<b>143724.12</b>	<b>6780.00</b>	<b>3989.33</b>	<b>196798.67</b>	
<b>2</b>	<b>Private Sector</b>									
2.1	Private Companies	3394.00	76003.00	273.70	10598.74	86875.45	0.00	83038.35	173307.79	
	<b>Sub total Private Sector</b>	<b>3394.00</b>	<b>76003.00</b>	<b>273.70</b>	<b>10598.74</b>	<b>86875.45</b>	<b>0.00</b>	<b>83038.35</b>	<b>173307.79</b>	
	<b>Total All India</b>	<b>45699.22</b>	<b>205134.50</b>	<b>509.71</b>	<b>24955.36</b>	<b>230599.57</b>	<b>6780.00</b>	<b>87027.68</b>	<b>370106.46</b>	

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



# INSTALLED CAPACITY SECTORWISE UTILITIES As on 31.03.2020



**Table 3.3**  
**ALL INDIA INSTALLED CAPACITY STATE-WISE**  
**UTILITIES**  
**31.03.2020**

(MW)

State/UT	31.03.2019	31.03.2020	% INCREASE
Chandigarh	34.71	40.55	16.83
Delhi	2669.29	2572.56	-3.62
Haryana	6551.24	5550.30	-15.28
Himachal Pradesh	3361.89	3430.24	2.03
Jammu & Kashmir And Ladakh	1598.86	1604.78	0.37
Punjab	10804.12	9615.90	-11.00
Rajasthan	18731.64	20641.58	10.20
Uttar Pradesh	16410.80	16703.81	1.79
Uttarakhand	3125.22	3191.87	2.13
Central Sector (NR)	24159.28	27739.58	14.82
<b>Sub-Total (NR)</b>	<b>87447.05</b>	<b>91091.17</b>	<b>4.17</b>
Chhattisgarh	17103.35	16919.85	-1.07
Gujarat	28798.32	31484.66	9.33
Madhya Pradesh	17718.02	18193.67	2.68
Maharashtra	36810.37	36285.24	-1.43
Daman & Diu	14.47	19.86	37.25
D. & N. Haveli	5.46	5.46	0.00
Goa	51.97	53.17	2.31
Central Sector (WR)	23386.97	24706.97	5.64
<b>Sub-Total (WR)</b>	<b>123888.93</b>	<b>127668.88</b>	<b>3.05</b>
Andhra Pradesh	21999.13	22092.59	0.42
Telangana	12711.36	12878.52	1.32
Karnataka	24649.51	25923.86	5.17
Kerala	2553.57	2567.93	0.56
Tamil Nadu	23102.06	24806.70	7.38
Puducherry	35.64	38.01	6.65
Lakshadweep	0.75	0.75	0.00
Central Sector (SR)	16611.48	16961.48	2.11
<b>Sub-Total (SR)</b>	<b>101663.50</b>	<b>105269.85</b>	<b>3.55</b>
Bihar	326.15	343.47	5.31
Jharkhand	2419.00	2426.75	0.32
Odisha	6781.68	8113.61	19.64
West Bengal	8997.45	8945.88	-0.57
Sikkim	811.12	811.18	0.01
A. & N. Islands	51.93	52.39	0.89
Central Sector (ER)	19400.30	20730.30	6.86
<b>Sub-Total (ER)</b>	<b>38787.62</b>	<b>41423.57</b>	<b>6.80</b>
Arunachal Pradesh	136.50	136.72	0.16
Assam	484.22	503.05	3.89
Manipur	44.89	46.61	3.83
Meghalaya	354.65	368.45	3.89
Mizoram	36.97	37.99	2.76
Nagaland	31.67	31.67	0.00
Tripura	185.60	189.92	2.33
Central Sector (NER)	3038.60	3338.60	9.87
<b>Sub-Total (NER)</b>	<b>4313.09</b>	<b>4653.00</b>	<b>7.88</b>
<b>Central Sector All India</b>	<b>86596.63</b>	<b>93476.93</b>	<b>7.95</b>
<b>Total All India</b>	<b>356100.19</b>	<b>370106.46</b>	<b>3.93</b>

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

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

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



**Table 3.4**  
**ALL INDIA GROSS INSTALLED CAPACITY MODE WISE/REGION WISE/STATE WISE**  
**UTILITIES**  
**As on 31.03.2020**

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6 (3+4+5)	7	8	9 (2+6+7+8)
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	40.55	40.55
Delhi	0.00	447.00	0.00	1908.40	2355.40	0.00	217.16	2572.56
Haryana	200.00	4674.00	0.00	150.00	4824.00	0.00	526.30	5550.30
Himachal Pradesh	2478.60	0.00	0.00	0.00	0.00	0.00	951.64	3430.24
Jammu & Kashmir & Ladakh	1230.00	0.00	0.00	175.00	175.00	0.00	199.78	1604.78
Punjab	1243.40	6774.00	0.00	150.00	6924.00	0.00	1448.50	9615.90
Rajasthan	433.00	10366.00	0.00	603.80	10969.80	0.00	9238.78	20641.58
Uttar Pradesh	724.10	12774.00	0.00	0.00	12774.00	0.00	3205.71	16703.81
Uttarakhand	1982.15	99.00	0.00	450.00	549.00	0.00	660.72	3191.87
Central Sector (NR)	11516.52	11880.00	0.00	2344.06	14224.06	1620.00	379.00	27739.58
<b>Sub-Total (NR)</b>	<b>19807.77</b>	<b>47014.00</b>	<b>0.00</b>	<b>5781.26</b>	<b>52795.26</b>	<b>1620.00</b>	<b>16868.14</b>	<b>91091.17</b>
Chhattisgarh	120.00	16248.00	0.00	0.00	16248.00	0.00	551.85	16919.85
Gujarat	772.00	14132.00	0.00	6237.82	20369.82	0.00	10342.84	31484.66
Madhya Pradesh	1703.66	11795.00	0.00	0.00	11795.00	0.00	4695.01	18193.67
Maharashtra	3331.84	22126.00	0.00	1240.00	23366.00	0.00	9587.40	36285.24
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	19.86	19.86
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	5.17	53.17
Central Sector (WR)	1520.00	17400.00	0.00	3280.67	20680.67	1840.00	666.30	24706.97
<b>Sub-Total (WR)</b>	<b>7447.50</b>	<b>81701.00</b>	<b>0.00</b>	<b>10806.49</b>	<b>92507.49</b>	<b>1840.00</b>	<b>25873.89</b>	<b>127668.88</b>
Andhra Pradesh	1673.60	8200.55	36.80	4066.72	12304.07	0.00	8114.92	22092.59
Telangana	2479.93	5551.95	0.00	831.82	6383.77	0.00	4014.82	12878.52
Karnataka	3586.60	7080.00	25.20	0.00	7105.20	0.00	15232.06	25923.86
Kerala	1856.50	0.00	159.96	174.00	333.96	0.00	377.47	2567.93
Tamil Nadu	2178.20	7270.00	211.70	1027.18	8508.88	0.00	14119.62	24806.70
Puducherry	0.00	0.00	0.00	32.50	32.50	0.00	5.51	38.01
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.75
Central Sector (SR)	0.00	12740.00	0.00	359.58	13099.58	3320.00	541.90	16961.48
<b>Sub-Total (SR)</b>	<b>11774.83</b>	<b>40842.50</b>	<b>433.66</b>	<b>6491.80</b>	<b>47767.97</b>	<b>3320.00</b>	<b>42407.05</b>	<b>105269.85</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	343.47	343.47
Jharkhand	130.00	2250.00	0.00	0.00	2250.00	0.00	46.75	2426.75
Odisha	2061.92	5540.00	0.00	0.00	5540.00	0.00	511.69	8113.61
West Bengal	986.00	7327.00	0.00	100.00	7427.00	0.00	532.88	8945.88
Sikkim	759.00	0.00	0.00	0.00	0.00	0.00	52.18	811.18
A. & N. Islands	0.00	0.00	40.05	0.00	40.05	0.00	12.34	52.39
Central Sector (ER)	1005.20	19710.00	0.00	0.00	19710.00	0.00	15.10	20730.30
<b>Sub-Total (ER)</b>	<b>4942.12</b>	<b>34827.00</b>	<b>40.05</b>	<b>100.00</b>	<b>34967.048</b>	<b>0.00</b>	<b>1514.41</b>	<b>41423.57</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	136.72	136.72
Assam	100.00	0.00	0.00	352.71	352.71	0.00	50.34	503.05
Manipur	0.00	0.00	36.00	0.00	36.00	0.00	10.61	46.61
Meghalaya	322.00	0.00	0.00	0.00	0.00	0.00	46.45	368.45
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	37.99	37.99
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	20.42	189.92
Central Sector (NER)	1305.00	750.00	0.00	1253.60	2003.60	0.00	30.00	3338.60
<b>Sub-Total (NER)</b>	<b>1727.00</b>	<b>750.00</b>	<b>36.00</b>	<b>1775.81</b>	<b>2561.81</b>	<b>0.00</b>	<b>364.20</b>	<b>4653.00</b>
<b>Central Sector All India</b>	<b>15346.72</b>	<b>62480.00</b>	<b>0.00</b>	<b>7237.91</b>	<b>69717.91</b>	<b>6780.00</b>	<b>1632.30</b>	<b>93476.93</b>
<b>Total All India</b>	<b>45699.22</b>	<b>205134.50</b>	<b>509.71</b>	<b>24955.36</b>	<b>230599.568</b>	<b>6780.00</b>	<b>87027.68</b>	<b>370106.46</b>

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

**Table 3.5**  
**ALL INDIA GROSS INSTALLED CAPACITY OF ELECTRICITY DEPARTMENTS, GOVT.**  
**UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES AND PRIVATE SECTOR**  
**MODE WISE As on 31.03.2020**

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6 (3+4+5)	7	8	9 (2+6+7+8)
<b>ELECTRICITY DEPARTMENTS/GOVERNMENT UNDERTAKINGS/CORPORATIONS/CENTRAL SECTOR</b>								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	1800.40	1800.40	0.00	0.00	1800.40
Haryana	200.00	2510.00	0.00	150.00	2660.00	0.00	69.30	2929.30
Himachal Pradesh	694.60	0.00	0.00	0.00	0.00	0.00	256.61	951.21
Jammu & Kashmir & Ladakh	1230.00	0.00	0.00	175.00	175.00	0.00	130.48	1535.48
Punjab	1243.40	1760.00	0.00	150.00	1910.00	0.00	127.80	3281.20
Rajasthan	433.00	7170.00	0.00	603.80	7773.80	0.00	23.85	8230.65
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)	11516.52	11880.00	0.00	2344.06	14224.06	1620.00	379.00	27739.58
<b>Sub Total (NR)</b>	<b>17293.77</b>	<b>28789.00</b>	<b>0.00</b>	<b>5223.26</b>	<b>34012.26</b>	<b>1620.00</b>	<b>1080.01</b>	<b>54006.04</b>
Chhattisgarh	120.00	3080.00	0.00	0.00	3080.00	0.00	11.05	3211.05
Gujarat	772.00	5550.00	0.00	2177.82	7727.82	0.00	72.35	8572.17
Madhya Pradesh	1703.66	5400.00	0.00	0.00	5400.00	0.00	83.96	7187.62
Maharashtra	2850.84	9750.00	0.00	672.00	10422.00	0.00	388.13	13660.97
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
Central Sector (WR)	1520.00	17400.00	0.00	3280.67	20680.67	1840.00	666.30	24706.97
<b>Sub Total (WR)</b>	<b>6966.50</b>	<b>41180.00</b>	<b>0.00</b>	<b>6130.49</b>	<b>47310.49</b>	<b>1840.00</b>	<b>1221.84</b>	<b>57338.83</b>
Andhra Pradesh	1673.60	5010.00	0.00	235.40	5245.40	0.00	56.18	6975.18
Telangana	2479.93	4162.50	0.00	0.00	4162.50	0.00	41.22	6683.65
Karnataka	3586.60	5020.00	0.00	0.00	5020.00	0.00	193.89	8800.49
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	12740.00	0.00	359.58	13099.58	3320.00	541.90	16961.48
<b>Sub Total (SR)</b>	<b>11774.83</b>	<b>31252.50</b>	<b>159.96</b>	<b>1151.56</b>	<b>32564.02</b>	<b>3320.00</b>	<b>1128.78</b>	<b>48787.63</b>
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	1740.00	0.00	0.00	1740.00	0.00	26.30	3828.22
West Bengal	986.00	5290.00	0.00	100.00	5390.00	0.00	121.95	6497.95
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	19710.00	0.00	0.00	19710.00	0.00	15.10	20730.30
<b>Sub Total (ER)</b>	<b>4543.12</b>	<b>27160.00</b>	<b>40.05</b>	<b>100.00</b>	<b>27300.05</b>	<b>0.00</b>	<b>295.46</b>	<b>32138.63</b>
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
<b>Central Sector (NER)</b>	<b>1305.00</b>	<b>750.00</b>	<b>0.00</b>	<b>1253.60</b>	<b>2003.60</b>	<b>0.00</b>	<b>30.00</b>	<b>3338.60</b>
<b>Sub-Total (NER)</b>	<b>1727.00</b>	<b>750.00</b>	<b>36.00</b>	<b>1751.31</b>	<b>2537.31</b>	<b>0.00</b>	<b>263.25</b>	<b>4527.55</b>
<b>Total-I, (All India)</b>	<b>42305.22</b>	<b>129131.50</b>	<b>236.01</b>	<b>14356.62</b>	<b>143724.12</b>	<b>6780.00</b>	<b>3989.33</b>	<b>196798.67</b>

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

**Table 3.5 (Contd.)**  
**ALL INDIA GROSS INSTALLED CAPACITY OF ELECTRICITY DEPARTMENTS, GOVT.**  
**UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES AND PRIVATE SECTOR**  
**MODE WISE As on 31.03.2020**

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6 (3+4+5)	7	8	9 (2+6+7+8)
<b>PRIVATE SECTOR</b>								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	40.55	40.55
Delhi	0.00	447.00	0.00	108.00	555.00	0.00	217.16	772.16
Haryana	0.00	2164.00	0.00	0.00	2164.00	0.00	457.00	2621.00
Himachal Pradesh	1784.00	0.00	0.00	0.00	0.00	0.00	695.03	2479.03
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	69.30	69.30
Punjab	0.00	5014.00	0.00	0.00	5014.00	0.00	1320.70	6334.70
Rajasthan	0.00	3196.00	0.00	0.00	3196.00	0.00	9214.93	12410.93
Uttar Pradesh	0.00	7305.00	0.00	0.00	7305.00	0.00	3180.61	10485.61
Uttarakhand	730.00	99.00	0.00	450.00	549.00	0.00	592.85	1871.85
Chhattisgarh	0.00	13168.00	0.00	0.00	13168.00	0.00	540.80	13708.80
Gujarat	0.00	8582.00	0.00	4060.00	12642.00	0.00	10270.49	22912.49
Madhya Pradesh	0.00	6395.00	0.00	0.00	6395.00	0.00	4611.05	11006.05
Maharashtra	481.00	12376.00	0.00	568.00	12944.00	0.00	9199.27	22624.27
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	19.86	19.86
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	5.12	53.12
Andhra Pradesh	0.00	3190.55	36.80	3831.32	7058.67	0.00	8058.74	15117.42
Telangana	0.00	1389.45	0.00	831.82	2221.27	0.00	3973.60	6194.87
Karnataka	0.00	2060.00	25.20	0.00	2085.20	0.00	15038.175	17123.38
Kerala	0.00	0.00	0.00	174.00	174.00	0.00	204.57	378.57
TamilNadu	0.00	2950.00	211.70	503.10	3664.80	0.00	13996.92	17661.72
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	5.51	5.51
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	272.77	272.77
Jharkhand	0.00	1830.00	0.00	0.00	1830.00	0.00	42.70	1872.70
Odisha	0.00	3800.00	0.00	0.00	3800.00	0.00	485.39	4285.39
West Bengal	0.00	2037.00	0.00	0.00	2037.00	0.00	410.93	2447.93
Sikkim	399.00	0.00	0.00	0.00	0.00	0.00	0.07	399.07
A. & N. Islands	0.00	0.00	0.00	0.00	0.00	0.00	7.09	7.09
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	29.61	29.61
Assam	0.00	0.00	0.00	24.50	24.50	0.00	45.33	69.83
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	5.16	5.16
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	13.92	13.92
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.52
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	4.41	4.41
<b>Total-II, (All India)</b>	<b>3394.00</b>	<b>76003.00</b>	<b>273.70</b>	<b>10598.74</b>	<b>86875.45</b>	<b>0.00</b>	<b>83038.35</b>	<b>173307.79</b>
<b>All India Total (I+II)</b>	<b>45699.22</b>	<b>205134.50</b>	<b>509.71</b>	<b>24955.36</b>	<b>230599.57</b>	<b>6780.00</b>	<b>87027.68</b>	<b>370106.46</b>



Table 3.6  
ALL INDIA INSTALLED CAPACITY ADDITION  
UTILITIES  
DURING 2019-20

(MW)

Sl. No.	State/UT	Owner	Name of project	Dt. of Commissioning	No. of units	Unit Size (MW)	Total Capacity (MW)			
<b>A</b>	Hydro	Arunachal Pradesh	NEEPCO.	KAMENG HPS	2	150.00	300.00			
				10-02-20		150.00				
	<b>Hydro Total</b>						<b>300.00</b>			
<b>B</b>	Steam	Rajasthan	RRVUNIL	SURATGARH TPS	1	660.00	660.00			
				Uttar Pradesh	NTPC LIMITED	TANDA TPS	1	660.00	660.00	
				Gujarat	GSECL	WANAKBORI TPS	1	800.00	800.00	
				Madhya Pradesh	BLA POWER PRIVATE LIMITED	NIWARI TPP	1	45.00	45.00	
				Madhya Pradesh	NTPC LIMITED	KHARGONE STPP	2	660.00	1320.00	
							24-03-20		660.00	
				Tamil Nadu	NLC	NEVELI NEW TPP	1	500.00	500.00	
				Bihar	NPGL	NABINAGAR STPP	1	660.00	660.00	
				Odisha	OPGL	IB VALLEY TPS	2	660.00	1320.00	
							17-08-19		660.00	
				Odisha	NTPC LIMITED	DARLIPALI STPS	1	800.00	800.00	
							30-12-19			
					<b>Steam Total</b>					<b>6765.00</b>
					<b>Grand Total (A+B)</b>					<b>7065.00</b>

**Table 3.7**  
**ALL INDIA INSTALLED CAPACITY ADDITION**  
**MODE-WISE/STATE-WISE/ REGION-WISE**  
**2019-20**

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total (2+6+7+8)
		Steam	Diesel	Gas	Total (Thermal) (3+4+5)			
1	2	3	4	5	6	7	8	9
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	5.84	5.84
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	38.27	38.27
Haryana	0.00	0.00	0.00	0.00	0.00	0.00	111.88	111.88
Himachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	68.35	68.35
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	5.92	5.92
Punjab	0.00	0.00	0.00	0.00	0.00	0.00	166.08	166.08
Rajasthan	0.00	660.00	0.00	0.00	660.00	0.00	1913.12	2573.12
Uttar Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	293.01	293.01
Uttarakhand	0.00	0.00	0.00	0.00	0.00	0.00	66.65	66.65
Central Sector (NR)	0.00	660.00	0.00	0.00	660.00	0.00	0.00	660.00
<b>Sub Total (NR)</b>	<b>0.00</b>	<b>1320.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1320.00</b>	<b>0.00</b>	<b>2669.12</b>	<b>3989.12</b>
Chhattisgarh	0.00	0.00	0.00	0.00	0.00	0.00	16.50	16.50
Gujarat	0.00	800.00	0.00	0.00	800.00	0.00	1946.34	2746.34
Madhya Pradesh	0.00	45.00	0.00	0.00	45.00	0.00	430.65	475.65
Maharashtra	0.00	0.00	0.00	0.00	0.00	0.00	394.87	394.87
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	5.39	5.39
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	1.20	1.20
Central Sector (WR)	0.00	1320.00	0.00	0.00	1320.00	0.00	0.00	1320.00
<b>Sub Total (WR)</b>	<b>0.00</b>	<b>2165.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2165.00</b>	<b>0.00</b>	<b>2794.95</b>	<b>4959.95</b>
Andhra Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	625.32	625.32
Telangana	0.00	0.00	0.00	0.00	0.00	0.00	37.16	37.16
Karnataka	0.00	0.00	0.00	0.00	0.00	0.00	1402.27	1402.27
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	14.36	14.36
Tamil Nadu	0.00	0.00	0.00	0.00	0.00	0.00	1704.65	1704.65
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	2.37	2.37
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector (SR)	0.00	500.00	0.00	0.00	500.00	0.00	0.00	500.00
<b>Sub Total (SR)</b>	<b>0.00</b>	<b>500.00</b>	<b>0.00</b>	<b>0.00</b>	<b>500.00</b>	<b>0.00</b>	<b>3786.13</b>	<b>4286.13</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	17.32	17.32
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	7.75	7.75
Odisha	0.00	1320.00	0.00	0.00	1320.00	0.00	11.93	1331.93
West Bengal	0.00	0.00	0.00	0.00	0.00	0.00	58.43	58.43
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06
A. & N. Islands	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.46
Central Sector (ER)	0.00	1460.00	0.00	0.00	1460.00	0.00	0.00	1460.00
<b>Sub Total (ER)</b>	<b>0.00</b>	<b>2780.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2780.00</b>	<b>0.00</b>	<b>95.95</b>	<b>2875.95</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22
Assam	0.00	0.00	0.00	0.00	0.00	0.00	18.83	18.83
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	1.72	1.72
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	13.80	13.80
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	1.02	1.02
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	4.32	4.32
Central Sector (NER)	300.00	0.00	0.00	0.00	0.00	0.00	0.00	300.00
<b>Sub Total (NER)</b>	<b>300.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>39.91</b>	<b>339.91</b>
<b>Total (All India)</b>	<b>300.00</b>	<b>6765.00</b>	<b>0.00</b>	<b>0.00</b>	<b>6765.00</b>	<b>0.00</b>	<b>9386.05</b>	<b>16451.05</b>

**Table 3.8**  
**DETAILS OF ALL INDIA INSTALLED CAPACITY RETIRED**  
**STATE-WISE/MODE-WISE**  
**2019-20**

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)	(MW)
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	Delhi	PGCL	RAIGHAT TPS	1	0.00	67.50	0.00	0.00	67.50	0.00	0.00	67.50	
2	Delhi	PGCL	RAIGHAT TPS	2	0.00	67.50	0.00	0.00	67.50	0.00	0.00	67.50	
3	Haryana	HPGCL	PANIPAT TPS	5	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00	
4	Chhattisgarh	CSPGCL	KORBA-II	1	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00	
5	Chhattisgarh	CSPGCL	KORBA-II	2	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00	
6	Chhattisgarh	CSPGCL	KORBA-II	3	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00	
7	Chhattisgarh	CSPGCL	KORBA-II	4	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00	
8	Gujarat	TOR. POW. (UNOSUGEN)	SABARMATI (C STATION)	15	0.00	30.00	0.00	0.00	30.00	0.00	0.00	30.00	
9	Gujarat	TOR. POW. (UNOSUGEN)	SABARMATI (C STATION)	16	0.00	30.00	0.00	0.00	30.00	0.00	0.00	30.00	
10	Maharashtra	MAHAGENCO	PARLI TPS	4	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00	
11	Maharashtra	MAHAGENCO	PARLI TPS	5	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00	
12	Maharashtra	TATA PCL	TROMBAY TPS	6	0.00	500.00	0.00	0.00	500.00	0.00	0.00	500.00	
13	Telangana	TSGENCO	KOTHAGUDEM TPS	1	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00	
14	Telangana	TSGENCO	KOTHAGUDEM TPS	2	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00	
15	Telangana	TSGENCO	KOTHAGUDEM TPS	4	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00	
16	Telangana	TSGENCO	KOTHAGUDEM TPS	5	0.00	120.00	0.00	0.00	120.00	0.00	0.00	120.00	
17	Telangana	TSGENCO	KOTHAGUDEM TPS	7	0.00	120.00	0.00	0.00	120.00	0.00	0.00	120.00	
18	Karnataka	KPCL	YELHANKA (DG)	1	0.00	0.00	21.32	0.00	21.32	0.00	0.00	21.32	
19	Karnataka	KPCL	YELHANKA (DG)	2	0.00	0.00	21.32	0.00	21.32	0.00	0.00	21.32	
20	Karnataka	KPCL	YELHANKA (DG)	3	0.00	0.00	21.32	0.00	21.32	0.00	0.00	21.32	
21	Karnataka	KPCL	YELHANKA (DG)	4	0.00	0.00	21.32	0.00	21.32	0.00	0.00	21.32	
22	Karnataka	KPCL	YELHANKA (DG)	5	0.00	0.00	21.32	0.00	21.32	0.00	0.00	21.32	
23	Karnataka	KPCL	YELHANKA (DG)	6	0.00	0.00	21.32	0.00	21.32	0.00	0.00	21.32	
24	Tamil Nadu	NLC	NEYVELI TPS- I	1	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00	
25	Tamil Nadu	NLC	NEYVELI TPS- I	9	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00	
26	Jharkhand	DVC	CHANDRAPUR (DVC) TPS	3	0.00	130.00	0.00	0.00	130.00	0.00	0.00	130.00	
27	West Bengal	DPL	D.P.L. TPS	6	0.00	110.00	0.00	0.00	110.00	0.00	0.00	110.00	
<b>Net Deletion/Retirement</b>					<b>0.00</b>	<b>2335.00</b>	<b>127.92</b>	<b>0.00</b>	<b>2462.92</b>	<b>0.00</b>	<b>0.00</b>	<b>2462.92</b>	

Table 3.8 (contd.)  
**DETAILS OF ALL INDIA INSTALLED CAPACITY UPRATED**  
**STATE-WISE/MODE-WISE**  
**2019-20**

Sl. No.	State/UT	Ownership	Name of the Station	Unit No.	Hydro	Stream	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	Andhra Pradesh	KONDAPALI	KONDAPALLI CCPP	1,2,3	0.00	0.00	0.00	18.14	18.14	0.00	0.00	18.14
	<b>Net Uprating</b>				<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>18.14</b>	<b>18.14</b>	<b>0.00</b>	<b>0.00</b>	<b>18.14</b>

(MW)



Table 3.9  
ALL INDIA INSTALLED CAPACITY  
NET ADDITION/DELETION MODE WISE  
2019-20

Activity	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
Gross Addition	300.00	6765.00	0.00	0.00	6765.00	0.00	9386.05	16451.05
Deletion/Retirement	0.00	-2335.00	-127.92	0.00	-2462.92	0.00	0.00	-2462.92
Up-rating	0.00	0.00	0.00	18.14	18.14	0.00	0.00	18.14
De-rating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Net Addition</b>	<b>300.00</b>	<b>4430.00</b>	<b>-127.92</b>	<b>18.14</b>	<b>4320.22</b>	<b>0.00</b>	<b>9386.05</b>	<b>14006.27</b>



**Table 3.10**  
**SHARE OF PARTICIPATING STATES IN JOINTLY OWNED**  
**POWER STATIONS**  
**As on 31.03.2020**

(MW)

Name of the Power Station	Name of the Beneficiary States	Share of the Participating States		Total Capacity (MW)
		%age	I.C.(MW)	
<b>CHAMBAL PROJECTS</b>				
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	

# CHAPTER 4

## ELECTRICITY GENERATION





## CHAPTER 4

# ELECTRICITY GENERATION

### GENERATION - UTILITIES

The All India gross electricity generation by the Utilities during the year 2019-20 was 1383416.75 GWh as compared to 1371779.48 GWh during 2018-19. The All India generation from utilities has shown a growth of 0.85%. During the year 2019-20, the generation from Hydro, Thermal, Nuclear and Non-Conventional Energy Sources has been 155769.12 GWh, 1042838.16 GWh, 46472.45 GWh and 138337.02 GWh respectively. The respective percentage of this generation with respect to gross generation from above sources has been 11.26%, 75.38%, 3.36% & 10.00%. The Gross Generation during 2019-20 in Central, State and Private Sector was 462887.93 GWh, 392568.11 GWh and 527960.71 GWh constituting 33.46%, 28.38% and 38.16% 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 239566.75 GWh comprising 348.04 GWh from hydro, 205545.78 GWh from steam, 1919.32 GWh from diesel, 25443.15 GWh from gas and 6310.47 GWh from RES respectively. The captive power plant energy generation has registered a growth of 12.43% 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 2019-20 was 1622983.50 GWh as compared to 1584853.21 GWh during the year 2018-19. Thus the electricity generation has registered a growth of 2.41% 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 2017-18 to 2019-20

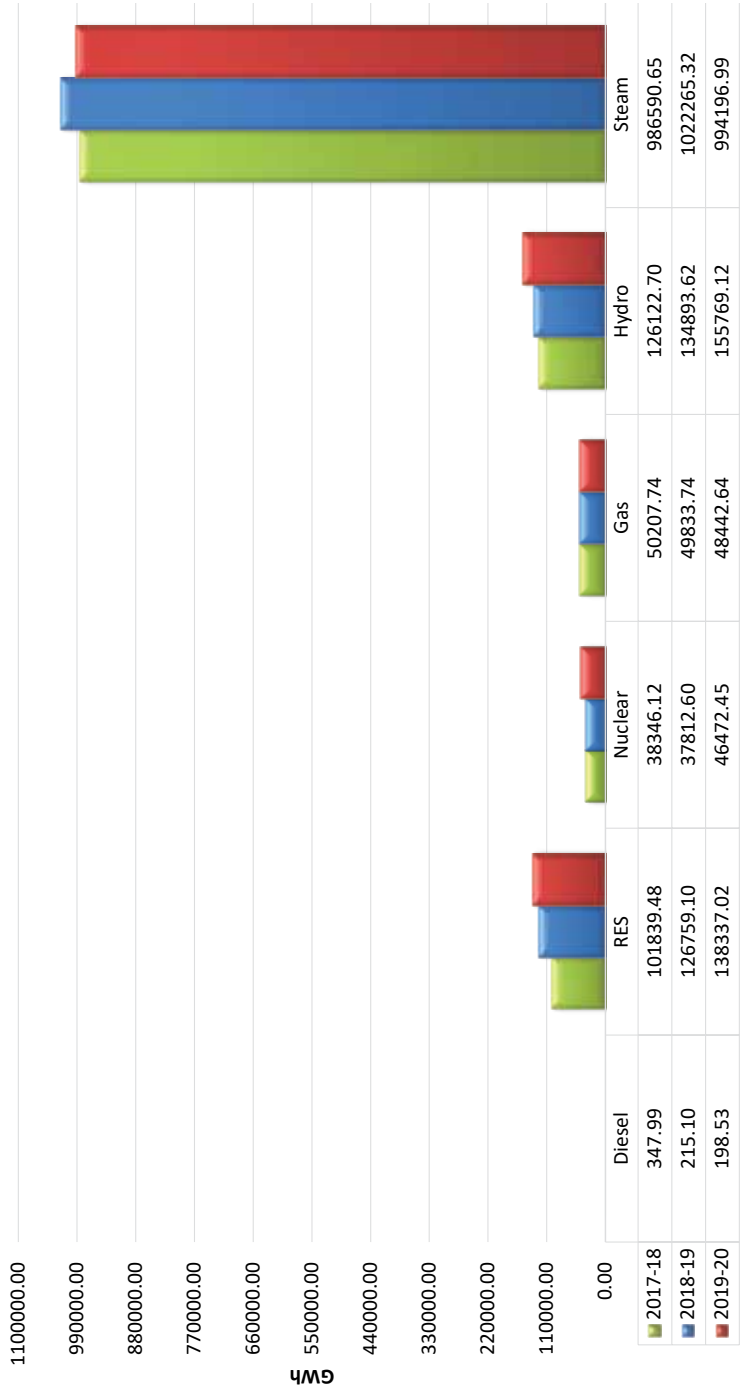




Table 4.1  
ALL INDIA GROSS ELECTRICITY GENERATION MODE-WISE  
UTILITIES & NON-UTILITIES  
2019-20

Sl. No.	Year	Gross Electricity Generation (GWh)								
		Hydro	Thermal			Nuclear	RES	Total (3+7+8+9)		
			Steam	Diesel	Gas				Total (Thermal) (4+5+6)	
1	2	3	4	5	6	7	8	9	10	
<b>( i ) UTILITIES GROSS ELECTRICAL ENERGY GENERATION</b>										
	2018-19	134893.62	1022265.32	215.10	49833.74	1072314.16	37812.60	126759.10	1371779.48	
	2019-20	155769.12	994196.99	198.53	48442.64	1042838.16	46472.45	138337.02	1383416.75	
	% Increase	15.48	-2.75	-7.70	-2.79	-2.75	22.90	9.13	0.85	
<b>( ii ) NON-UTILITIES GROSS ELECTRICAL ENERGY GENERATION (Industries having Capacity 1 MW &amp; above)</b>										
	2018-19	270.04	184250.36	5334.32	19545.09	209129.77	0.00	3673.92	213073.73	
	2019-20	348.04	205545.78	1919.32	25443.15	232908.24	0.00	6310.47	239566.75	
	% Increase	28.88	11.56	-64.02	30.18	11.37	0.00	71.76	12.43	
<b>( iii ) TOTAL GROSS ELECTRICAL ENERGY GENERATION (i+ii)</b>										
	2018-19	135163.66	1206515.68	5549.42	69378.83	1281443.92	37812.60	130433.02	1584853.21	
	2019-20	156117.16	1199742.77	2117.84	73885.79	1275746.40	46472.45	144647.49	1622983.50	
	% Increase	15.50	-0.56	-61.84	6.50	-0.44	22.90	10.90	2.41	

(GWh)



# ALL INDIA GROSS ELECTRICITY GENERATION UTILITIES 2019-20

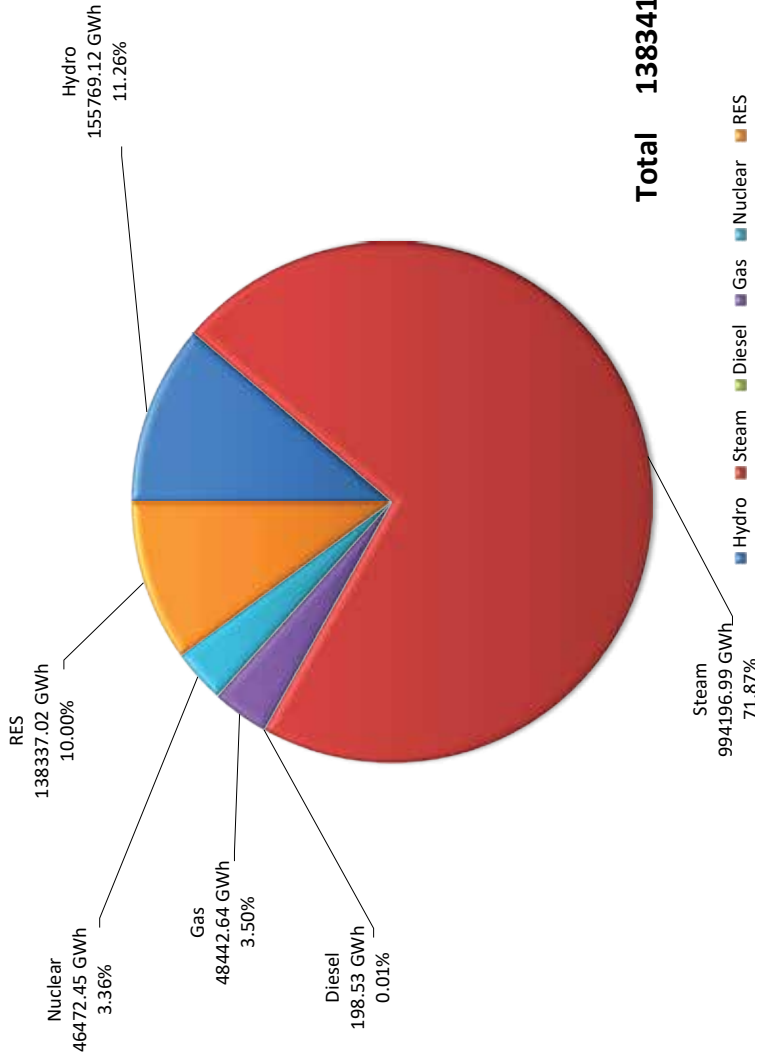




Table 4.2  
ALL INDIA GROSS ELECTRICITY GENERATION OWNERSHIP-WISE AND MODE-WISE  
UTILITIES & NON-UTILITIES  
2019-20

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
<b>1</b>	<b>Public Sector</b>								
1.1	Elect. Deptt./Govt. Undertakings / Corps./ Joint Ventures	78297.76	292992.92	161.28	16567.06	309721.26	0.00	4549.09	392568.11
1.2	Central Sector	62628.89	334820.57	0.00	16345.97	351166.54	46472.45	2620.05	462887.93
	<b>Sub-total Public Sector</b>	<b>140926.65</b>	<b>627813.49</b>	<b>161.28</b>	<b>32913.03</b>	<b>660887.80</b>	<b>46472.45</b>	<b>7169.14</b>	<b>855456.04</b>
<b>2</b>	<b>Private Sector</b>								
2.1	Private Companies	14842.47	366383.50	37.25	15529.61	381950.36	0.00	131167.88	527960.71
	<b>Sub total Private Sector</b>	<b>14842.47</b>	<b>366383.50</b>	<b>37.25</b>	<b>15529.61</b>	<b>381950.36</b>	<b>0.00</b>	<b>131167.88</b>	<b>527960.71</b>
	<b>Total All India</b>	<b>155769.12</b>	<b>994196.99</b>	<b>198.53</b>	<b>48442.64</b>	<b>1042838.16</b>	<b>46472.45</b>	<b>138337.02</b>	<b>1383416.75</b>

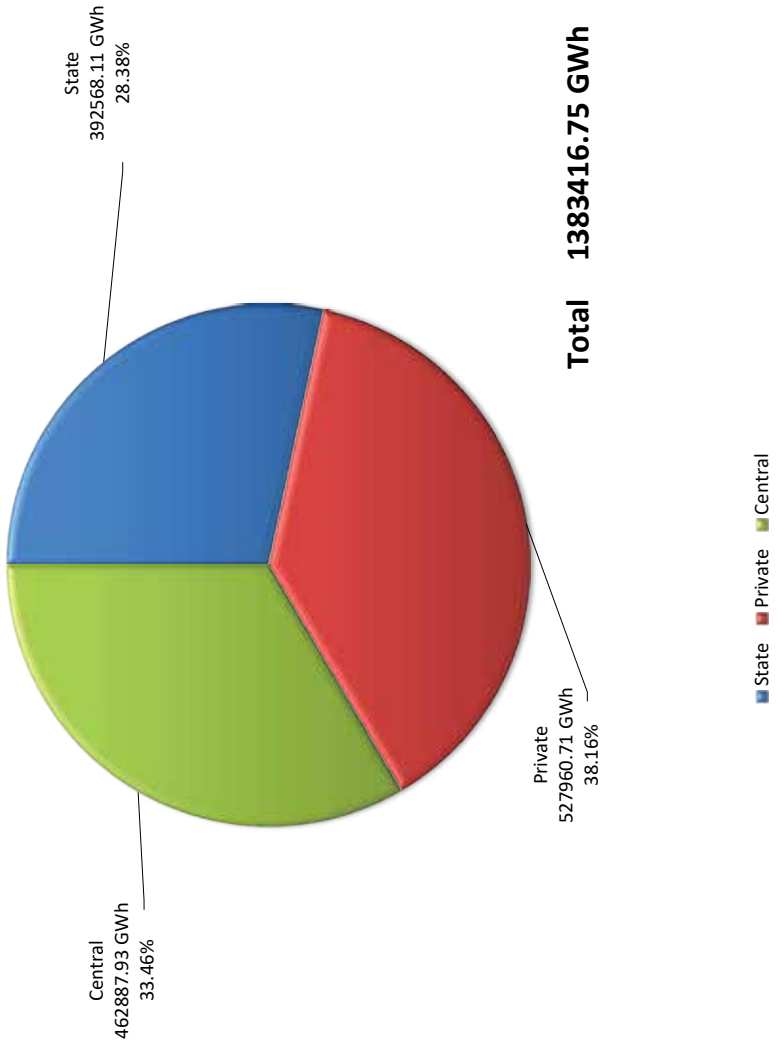
(GWh)

Note : BBMB &amp; DVC Generation is considered under central sector-





# ALL INDIA GROSS ELECTRICITY GENERATION SECTORWISE UTILITIES 2019-20



**Table 4.3**  
**ALL INDIA GROSS ELECTRICITY GENERATION STATE-WISE**  
**UTILITIES**  
**2019-20**

(GWh)

State/UTs	2018-19	2019-20	% INCREASE
Chandigarh	13.51	13.33	-1.30
Delhi	9011.11	9406.19	4.38
Haryana	28678.93	21438.61	-25.25
Himachal Pradesh	11453.14	12602.68	10.04
Jammu & Kashmir & Ladakh	5647.46	6184.17	9.50
Punjab	46601.63	37999.91	-18.46
Rajasthan	66863.21	65632.51	-1.84
Uttar Pradesh	70215.21	69636.21	-0.82
Uttarakhand	10967.24	12440.50	13.43
Central Sector NR	117814.13	130609.36	10.86
<b>Sub Total (NR)</b>	<b>367265.57</b>	<b>365963.46</b>	<b>-0.35</b>
Chhattisgarh	68979.75	71515.06	3.68
Gujarat	90699.27	101431.90	11.83
Madhya Pradesh	69862.64	68895.39	-1.38
Maharashtra	128545.57	125609.85	-2.28
Daman & Diu	18.94	21.83	15.25
D. & N. Haveli	5.76	6.19	7.44
Goa	0.00	0.82	0.00
Central Sector WR	121917.95	122028.47	0.09
<b>Sub Total (WR)</b>	<b>480029.88</b>	<b>489509.51</b>	<b>1.97</b>
Andhra Pradesh	63986.05	66162.86	3.40
Telangana	39838.43	41829.95	5.00
Karnataka	56494.24	58714.64	3.93
Kerala	8054.62	6220.57	-22.77
Tamil Nadu	60794.61	60907.68	0.19
Puducherry	232.46	259.94	11.82
Lakshadweep	54.17	53.70	-0.85
Central Sector SR	86137.93	82475.33	-4.25
<b>Sub Total (SR)</b>	<b>315592.51</b>	<b>316624.68</b>	<b>0.33</b>
Bihar	488.13	358.68	-26.52
Jharkhand	13474.27	13461.65	-0.09
Odisha	22199.18	25547.21	15.08
West Bengal	38983.13	36922.44	-5.29
Sikkim	3018.74	3672.14	21.64
A. & N. Islands	182.58	146.01	-20.03
Central Sector ER	113074.12	113276.55	0.18
<b>Sub Total (ER)</b>	<b>191420.14</b>	<b>193384.67</b>	<b>1.03</b>
Arunachal Pradesh	1.76	2.23	26.94
Assam	1460.37	1509.16	3.34
Manipur	1.88	4.20	123.62
Meghalaya	980.04	1081.02	10.30
Mizoram	40.08	50.00	24.76
Nagaland	87.46	75.87	-13.25
Tripura	630.55	713.71	13.19
Central Sector NER	14269.24	14498.22	1.60
<b>Sub Total (NER)</b>	<b>17471.38</b>	<b>17934.42</b>	<b>2.65</b>
<b>Central Sector All India</b>	<b>453213.36</b>	<b>462887.93</b>	<b>2.13</b>
<b>Total All India</b>	<b>1371779.48</b>	<b>1383416.75</b>	<b>0.85</b>

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

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

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

**Table 4.4**  
**ALL INDIA GROSS ELECTRICITY GENERATION MODE-WISE/REGION-WISE/STATE-WISE**  
**UTILITIES ONLY**  
**2019-20**

(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	13.33	13.33
Delhi	0.00	3764.19	0.00	5218.31	8982.50	0.00	423.69	9406.19
Haryana	1007.13	19306.09	0.00	398.40	19704.49	0.00	726.99	21438.61
Himachal Pradesh	10435.44	0.00	0.00	0.00	0.00	0.00	2167.24	12602.68
Jammu & Kashmir & Ladakh	5741.04	0.00	0.00	0.00	0.00	0.00	443.13	6184.17
Punjab	5647.37	29214.72	0.00	398.40	29613.12	0.00	2739.42	37999.91
Rajasthan	941.52	50306.73	0.00	731.37	51038.10	0.00	13652.89	65632.51
Uttar Pradesh	2123.84	62413.42	0.00	0.00	62413.42	0.00	5098.95	69636.21
Uttarakhand	8426.24	833.52	0.00	1986.79	2820.31	0.00	1193.95	12440.50
Central Sector NR	50338.77	64143.94	0.00	3153.84	67297.78	12242.87	729.94	130609.36
<b>Sub Total (NR)</b>	<b>84661.35</b>	<b>229982.61</b>	<b>0.00</b>	<b>11887.11</b>	<b>241869.72</b>	<b>12242.87</b>	<b>27189.52</b>	<b>365963.46</b>
Chhattisgarh	236.79	70170.40	0.00	0.00	70170.40	0.00	1107.87	71515.06
Gujarat	1905.99	70680.54	0.00	11696.45	82376.99	0.00	17148.92	101431.90
Madhya Pradesh	4766.59	56285.52	0.00	0.00	56285.52	0.00	7843.28	68895.39
Maharashtra	6863.51	101080.28	0.00	3735.32	104815.60	0.00	13930.74	125609.85
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	21.83	21.83
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	6.19	6.19
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.82
Central Sector WR	4165.60	96737.52	0.00	6082.69	102820.21	13965.03	1077.63	122028.47
<b>Sub Total (WR)</b>	<b>17938.48</b>	<b>394954.26</b>	<b>0.00</b>	<b>21514.46</b>	<b>416468.72</b>	<b>13965.03</b>	<b>41137.28</b>	<b>489509.51</b>
Andhra Pradesh	3288.12	46266.36	0.00	3013.62	49279.98	0.00	13594.76	66162.86
Telangana	4828.05	30221.73	0.00	0.00	30221.73	0.00	6780.17	41829.95
Karnataka	13834.16	19232.06	0.00	0.00	19232.06	0.00	25648.42	58714.64
Kerala	5454.04	0.00	12.04	0.00	12.04	0.00	754.49	6220.57
Tamil Nadu	4765.24	33799.25	0.00	2869.99	36669.24	0.00	19473.20	60907.68
Puduchery	0.00	0.00	0.00	255.79	255.79	0.00	4.15	259.94
Lakshadweep	0.00	0.00	53.05	0.00	53.05	0.00	0.66	53.70
Central Sector SR	0.00	61457.33	0.00	0.00	61457.33	20264.55	753.45	82475.33
<b>Sub Total (SR)</b>	<b>32169.61</b>	<b>190976.73</b>	<b>65.09</b>	<b>6139.40</b>	<b>197181.22</b>	<b>20264.55</b>	<b>67009.30</b>	<b>316624.68</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	358.68	358.68
Jharkhand	36.12	13402.63	0.00	0.00	13402.63	0.00	22.90	13461.65
Odisha	6313.18	18464.61	0.00	0.00	18464.61	0.00	769.42	25547.21
West Bengal	1511.75	33934.37	0.00	0.00	33934.37	0.00	1476.32	36922.44
Sikkim	3611.52	0.00	0.00	0.00	0.00	0.00	60.62	3672.14
A. & N. Islands	0.00	0.00	133.44	0.00	133.44	0.00	12.57	146.01
Central Sector ER	4706.22	108551.82	0.00	0.00	108551.82	0.00	18.51	113276.55
<b>Sub Total (ER)</b>	<b>16178.79</b>	<b>174353.43</b>	<b>133.44</b>	<b>0.00</b>	<b>174486.87</b>	<b>0.00</b>	<b>2719.01</b>	<b>193384.67</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	2.23	2.23
Assam	384.30	0.00	0.00	1104.61	1104.61	0.00	20.25	1509.16
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	4.20	4.20
Meghalaya	1018.29	0.00	0.00	0.00	0.00	0.00	62.73	1081.02
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	75.87	75.87
Tripura	0.00	0.00	0.00	687.62	687.62	0.00	26.09	713.71
Central Sector NER	3418.30	3929.96	0.00	7109.44	11039.40	0.00	40.52	14498.22
<b>Sub Total (NER)</b>	<b>4820.89</b>	<b>3929.96</b>	<b>0.00</b>	<b>8901.67</b>	<b>12831.63</b>	<b>0.00</b>	<b>281.90</b>	<b>17934.42</b>
<b>Central Sector All India</b>	<b>62628.89</b>	<b>334820.57</b>	<b>0.00</b>	<b>16345.97</b>	<b>351166.54</b>	<b>46472.45</b>	<b>2620.05</b>	<b>462887.93</b>
<b>Total All India</b>	<b>155769.12</b>	<b>994196.99</b>	<b>198.53</b>	<b>48442.64</b>	<b>1042838.16</b>	<b>46472.45</b>	<b>138337.02</b>	<b>1383416.75</b>

Note: BBMB &amp; DVC Generation is considered under central sector

**Table 4.5**  
**ALL INDIA GROSS ELECTRICITY GENERATION BY ELECTRICITY DEPARTMENTS, GOVT.**  
**UNDERTAKINGS, CENTRAL SECTOR AND MUNICIPALITIES**  
**MODE WISE 2019-20**

(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)
<b>ELECTRICITY DEPARTMENTS/GOVERNMENT UNDERTAKINGS/CORPORATIONS/CENTRAL SECTOR</b>								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00	5218.31	5218.31	0.00	5218.31
Haryana	1007.13	7030.16	0.00	0.00	398.40	7428.56	0.00	8704.23
Himachal Pradesh	2436.11	0.00	0.00	0.00	0.00	0.00	606.84	3042.95
Jammu & Kashmir & Ladakh	5741.04	0.00	0.00	0.00	0.00	0.00	320.36	6061.40
Punjab	5647.37	1967.61	0.00	0.00	398.40	2366.01	0.00	8538.25
Rajasthan	941.52	30447.27	0.00	0.00	731.37	31178.64	0.00	32129.91
Uttar Pradesh	2123.84	27852.94	0.00	0.00	0.00	27852.94	0.00	30013.21
Uttarakhand	4887.52	0.00	0.00	0.00	0.00	0.00	235.03	5122.55
Central Sector (NR)	50338.77	64143.94	0.00	0.00	3153.84	67297.78	12242.87	130609.36
<b>Sub Total (NR)</b>	<b>73123.30</b>	<b>131441.92</b>	<b>0.00</b>	<b>9900.32</b>	<b>141342.24</b>	<b>12242.87</b>	<b>2731.76</b>	<b>229440.17</b>
Chhattisgarh	236.79	18212.53	0.00	0.00	18212.53	0.00	14.79	18464.11
Gujarat	1905.99	18002.56	0.00	0.00	2750.46	20753.02	0.00	22831.03
Madhya Pradesh	4766.59	22219.20	0.00	0.00	0.00	22219.20	0.00	27201.28
Maharashtra	5358.15	45640.85	0.00	0.00	2598.36	48239.21	0.00	54215.77
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)	4165.60	96737.52	0.00	0.00	6082.69	102820.21	13965.03	122028.47
<b>Sub Total (WR)</b>	<b>16433.12</b>	<b>200812.66</b>	<b>0.00</b>	<b>11431.51</b>	<b>212244.17</b>	<b>13965.03</b>	<b>2098.35</b>	<b>244740.67</b>
Andhra Pradesh	3288.12	24598.38	0.00	0.00	656.16	25254.54	0.00	28644.87
Telangana	4828.05	30221.73	0.00	0.00	0.00	30221.73	0.00	35072.00
Karnataka	13834.16	12959.82	0.00	0.00	0.00	12959.82	0.00	27086.72
Kerala	5454.04	0.00	12.04	0.00	0.00	12.04	0.00	5854.94
Tamil Nadu	4765.24	21566.60	0.00	0.00	1767.58	23334.18	0.00	28334.51
Puducherry	0.00	0.00	0.00	0.00	255.79	255.79	0.00	255.79
Lakshadweep	0.00	0.00	53.05	0.00	0.00	53.05	0.00	53.05
Central Sector (SR)	0.00	61457.33	0.00	0.00	0.00	61457.33	20264.55	82475.33
<b>Sub Total (SR)</b>	<b>32169.61</b>	<b>150803.86</b>	<b>65.09</b>	<b>2679.53</b>	<b>153548.48</b>	<b>20264.55</b>	<b>1794.57</b>	<b>207777.20</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.98
Jharkhand	36.12	2420.62	0.00	0.00	0.00	2420.62	0.00	2462.17
Odisha	6313.18	6495.79	0.00	0.00	0.00	6495.79	0.00	12856.15
West Bengal	1511.75	23356.86	0.00	0.00	0.00	23356.86	0.00	24993.45
Sikkim	1812.46	0.00	0.00	0.00	0.00	0.00	0.00	1873.08
A. & N. Islands	0.00	0.00	96.19	0.00	0.00	96.19	0.00	101.89
Central Sector (ER)	4706.22	108551.82	0.00	0.00	0.00	108551.82	0.00	113276.55
<b>Sub Total (ER)</b>	<b>14379.73</b>	<b>140825.09</b>	<b>96.19</b>	<b>0.00</b>	<b>140921.28</b>	<b>0.00</b>	<b>281.26</b>	<b>155582.27</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52
Assam	384.30	0.00	0.00	0.00	1104.61	1104.61	0.00	1496.67
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57
Meghalaya	1018.29	0.00	0.00	0.00	0.00	0.00	0.00	1081.02
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.56
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.87
Tripura	0.00	0.00	0.00	0.00	687.62	687.62	0.00	712.29
<b>Central Sector (NER)</b>	<b>3418.30</b>	<b>3929.96</b>	<b>0.00</b>	<b>7109.44</b>	<b>11039.40</b>	<b>0.00</b>	<b>40.52</b>	<b>14498.22</b>
<b>Sub Total (NER)</b>	<b>4820.89</b>	<b>3929.96</b>	<b>0.00</b>	<b>8901.67</b>	<b>12831.63</b>	<b>0.00</b>	<b>263.20</b>	<b>17915.72</b>
<b>Total-I, (All India)</b>	<b>140926.65</b>	<b>627813.49</b>	<b>161.28</b>	<b>32913.03</b>	<b>660887.80</b>	<b>46472.45</b>	<b>7169.14</b>	<b>855456.04</b>

Note: BBMB &amp; DVC Generation is considered under central sector

**Table 4.6**  
**ALL INDIA GROSS ELECTRICITY GENERATION BY PRIVATE SECTOR**  
**MODE WISE**  
**2019-20**

(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)
<b>PRIVATE SECTOR</b>								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	13.33	13.33
Delhi	0.00	3764.19	0.00	0.00	3764.19	0.00	423.69	4187.88
Haryana	0.00	12275.93	0.00	0.00	12275.93	0.00	458.45	12734.38
Himachal Pradesh	7999.33	0.00	0.00	0.00	0.00	0.00	1560.40	9559.73
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	122.76	122.76
Punjab	0.00	27247.11	0.00	0.00	27247.11	0.00	2214.55	29461.66
Rajasthan	0.00	19859.46	0.00	0.00	19859.46	0.00	13643.14	33502.60
Uttar Pradesh	0.00	34560.48	0.00	0.00	34560.48	0.00	5062.52	39623.00
Uttarakhand	3538.72	833.52	0.00	1986.79	2820.31	0.00	958.92	7317.95
Chhattisgarh	0.00	51957.87	0.00	0.00	51957.87	0.00	1093.08	53050.95
Gujarat	0.00	52677.98	0.00	8945.99	61623.97	0.00	16976.90	78600.87
Madhya Pradesh	0.00	34066.32	0.00	0.00	34066.32	0.00	7627.79	41694.11
Maharashtra	1505.36	55439.43	0.00	1136.96	56576.39	0.00	13312.32	71394.07
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	21.83	21.83
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	6.19	6.19
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.82
Andhra Pradesh	0.00	21667.98	0.00	2357.46	24025.44	0.00	13492.55	37517.99
Telangana	0.00	0.00	0.00	0.00	0.00	0.00	6757.95	6757.95
Karnataka	0.00	6272.24	0.00	0.00	6272.24	0.00	25355.68	31627.92
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	365.63	365.63
TamilNadu	0.00	12232.65	0.00	1102.41	13335.06	0.00	19238.11	32573.17
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	4.15	4.15
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.66
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	339.70	339.70
Jharkhand	0.00	10982.01	0.00	0.00	10982.01	0.00	17.47	10999.48
Odisha	0.00	11968.82	0.00	0.00	11968.82	0.00	722.23	12691.05
West Bengal	0.00	10577.51	0.00	0.00	10577.51	0.00	1351.48	11928.99
Sikkim	1799.06	0.00	0.00	0.00	0.00	0.00	0.00	1799.06
A. & N. Islands	0.00	0.00	37.25	0.00	37.25	0.00	6.87	44.12
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	1.71	1.71
Assam	0.00	0.00	0.00	0.00	0.00	0.00	12.49	12.49
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	2.63	2.63
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	0.44	0.44
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	1.42	1.42
<b>Total-II, (All India)</b>	<b>14842.47</b>	<b>366383.50</b>	<b>37.25</b>	<b>15529.61</b>	<b>381950.36</b>	<b>0.00</b>	<b>131167.88</b>	<b>527960.71</b>
<b>All India Total (I+II)</b>	<b>155769.12</b>	<b>994196.99</b>	<b>198.53</b>	<b>48442.64</b>	<b>1042838.16</b>	<b>46472.45</b>	<b>138337.02</b>	<b>1383416.75</b>

**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 2019-20, Industrial Sector is the largest consumer of energy which has consumed about 42.69% 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.

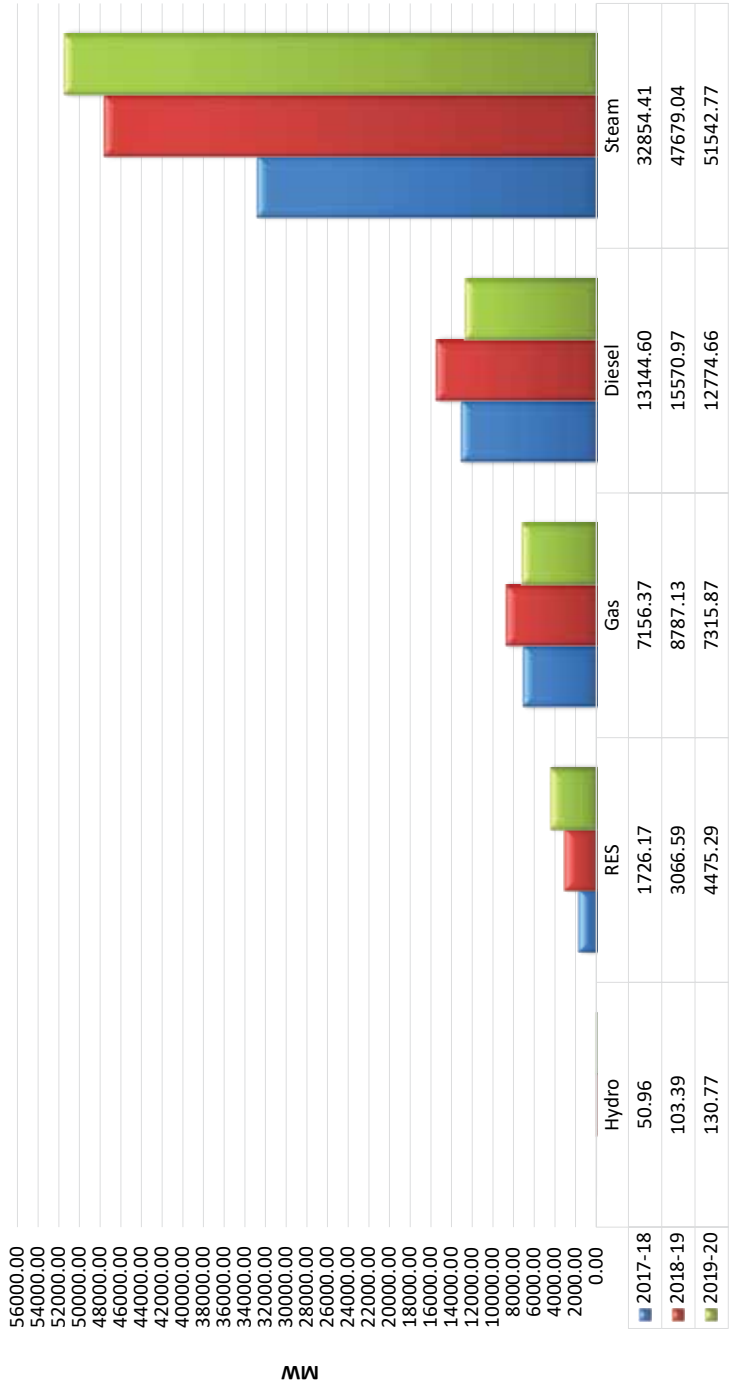
Details were received from 6090 industrial units with demand of 1 MW and above having Captive generation plants. The total installed capacity of such captive generating power plants was 76239 MW as on 31.03.2020. The installed capacity has registered a growth of 1.37% over the total installed captive power plant capacity of 75207.13 MW as on 31.03.2019. The contribution of Hydro, Steam, Diesel, Gas and Wind & Solar capacity had been 0.17%, 67.61%, 16.75%, 9.60% and 5.87% respectively in the total capacity. The Captive Power Plant generated 239567 GWh during 2019-20 and registered a growth of 12.43% over the generation of 213074 GWh during 2018-19. The contribution of Hydro, Steam, Diesel, Gas and Wind & Solar generation had been 0.15%, 85.80%, 0.80%, 10.62% and 2.63% 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  
2017-18 to 2019-20**



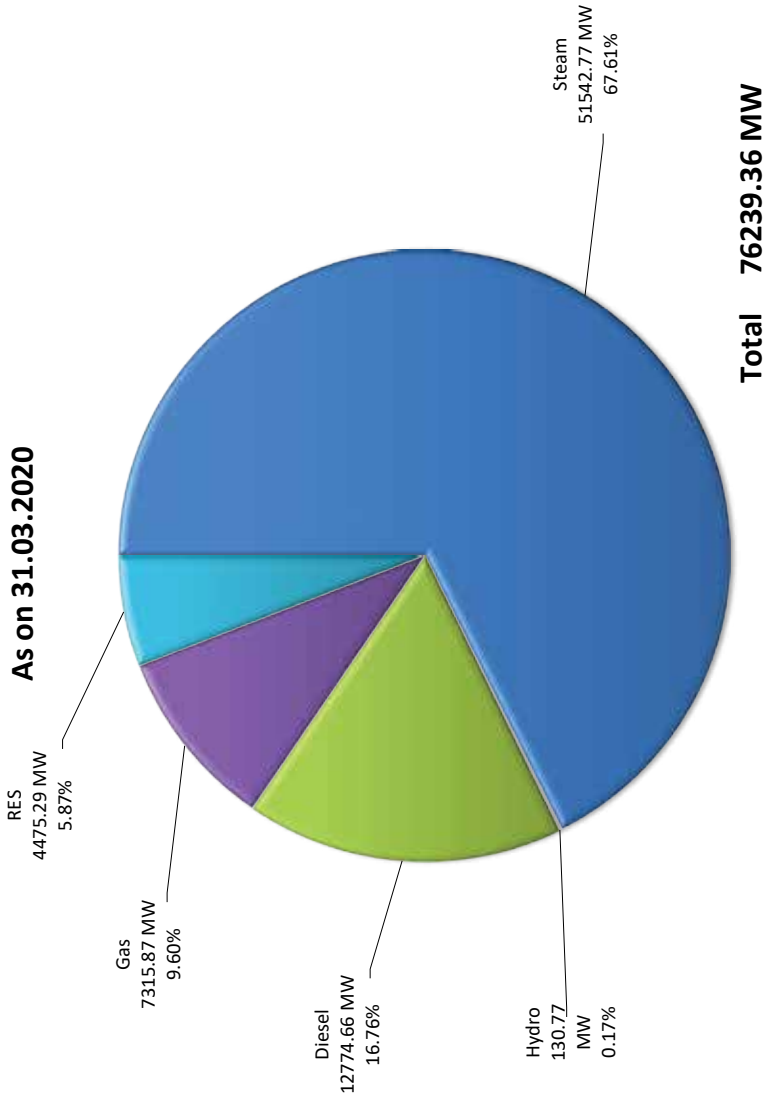


**Table 5.1**  
**INDUSTRY-WISE BREAK-UP OF INSTALLED CAPACITY,**  
**ELECTRICITY GENERATION AND CONSUMPTION**  
**2019-20**

Name of Industry	No. of Industries covered	Installed Generating Capacity (MW)	Energy Generation (GWh)	Energy Consumption (GWh)
Aluminium	60	7485.87	44881.51	43791.29
Automobiles	327	1401.65	1278.73	4033.79
Cement	310	7243.90	21786.23	26706.42
Chemicals	549	5933.23	16721.43	25479.04
Collieries	26	190.36	51.50	1092.16
Elect.Engg.	206	4067.76	8104.59	5037.81
Fertilizers	52	1402.68	5035.40	5819.73
Food Products	446	1458.09	1541.19	3383.19
Heavy Engg.	120	513.29	645.14	1448.48
Iron & Steel	670	15015.51	67721.77	73702.31
Jute	55	150.25	30.22	552.82
Light Engg.	317	1514.48	1423.18	3964.96
Mineral Oil & Petroleum	170	5216.30	22853.72	24238.44
Mining & Quarrying	59	701.04	2575.44	3682.05
Misc.	1057	4772.71	4620.22	9033.05
Non-Ferrous	68	999.34	4154.07	4678.77
Paper	150	1875.64	7162.45	7785.19
Plastic	66	273.70	799.01	1300.25
Rubber	150	1416.02	1686.41	2778.94
Sugar	312	8547.89	14896.39	11592.57
Textiles	920	6059.65	11598.15	16453.31
<b>All India(Non-Utilities)</b>	<b>6090</b>	<b>76239.36</b>	<b>239566.75</b>	<b>276554.59</b>



**INSTALLED CAPACITY  
NON-UTILITIES  
As on 31.03.2020**



■ Steam ■ Hydro ■ Diesel ■ Gas ■ RES

**Table 5.2**  
**ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2019-20**

(kW)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Colleries	Elect. Engg.	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0	7030	0	0	0	5700	0	0
Delhi	0	0	0	0	0	1020	0	3583
Haryana	6730	503731	31503	53859	6480	159024	30000	103034
Himachal Pradesh	0	14056	81378	9204	1200	24238	1510	82774
Jammu & Kashmir & Ladakh	0	0	0	0	0	0	0	4259
Punjab	1600	115714	30000	28409	0	7288	32268	178338
Rajasthan	4250	104012	1130685	39628	0	47326	207800	40290
Uttar Pradesh	924000	33085	128918	82720	0	15172	202252	290522
Uttarakhand	0	42523	14008	44542	0	9238	0	50953
<b>Sub-Total ( NR )</b>	<b>936580</b>	<b>820151</b>	<b>1416492</b>	<b>258362</b>	<b>7680</b>	<b>269006</b>	<b>473830</b>	<b>753752</b>
Chhattisgarh	0	0	479028	16000	0	291980	0	0
Gujarat	8750	12696	427469	2674539	0	640082	485002	152645
Madhya Pradesh	602	5050	1650498	568830	0	309320	2112	81616
Maharashtra	132000	92267	879129	685716	0	975335	128592	11406
Daman & Diu	0	0	0	0	0	0	0	0
D & N Haveli	2400	0	7225	10032	0	14155	0	0
Goa	0	0	0	20060	0	0	0	7200
<b>Sub-Total ( WR )</b>	<b>143752</b>	<b>110013</b>	<b>3443349</b>	<b>3975178</b>	<b>0</b>	<b>2230872</b>	<b>615706</b>	<b>252867</b>
Andhra Pradesh	242813	0	452339	279495	0	126797	0	80404
Telangana	7317	19106	441674	440723	28000	45400	0	33981
Karnataka	30230	69128	739330	188979	251	40630	0	93064
Kerala	1150	0	3249	95196	11559	33000	3996	4512
Tamil Nadu	149453	379850	516487	436213	0	1316836	45422	149455
Puducherry	0	1000	0	45204	0	0	0	4900
Lakshadweep	0	0	0	0	0	0	0	0
<b>Sub-Total ( SR )</b>	<b>430963</b>	<b>469084</b>	<b>2153079</b>	<b>1485810</b>	<b>39810</b>	<b>1562663</b>	<b>49418</b>	<b>366316</b>
Bihar	0	0	1000	0	0	0	0	6000
Jharkhand	34520	0	34150	60000	104676	0	0	0
Odisha	5938724	0	111236	1200	2000	0	175400	43728
West Bengal	1330	2400	43672	78796	36197	5220	58324	27603
Sikkim	0	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0	0
<b>Sub-Total ( ER )</b>	<b>5974574</b>	<b>2400</b>	<b>190058</b>	<b>139996</b>	<b>142873</b>	<b>5220</b>	<b>233724</b>	<b>77331</b>
Arunachal Pradesh	0	0	0	0	0	0	0	0
Assam	0	0	800	73886	0	0	30000	6129
Manipur	0	0	0	0	0	0	0	0
Meghalaya	0	0	40120	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
<b>Sub-Total ( NER )</b>	<b>0</b>	<b>0</b>	<b>40920</b>	<b>73886</b>	<b>0</b>	<b>0</b>	<b>30000</b>	<b>7826</b>
<b>Total ( All India )</b>	<b>7485869</b>	<b>1401648</b>	<b>7243898</b>	<b>5933232</b>	<b>190363</b>	<b>4067760</b>	<b>1402678</b>	<b>1458093</b>

**Table 5.2 (Contd.)**  
**ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2019-20**

(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	55821
Delhi	0	0	0	0	2010	0	930
Haryana	62853	133601	0	48749	489005	2303	550979
Himachal Pradesh	0	1616	0	800	898	0	125167
Jammu & Kashmir & Ladakh	0	1890	0	0	0	0	0
Punjab	14368	56246	0	16523	175668	0	236001
Rajasthan	11508	28338	0	21520	83270	393656	169776
Uttar Pradesh	23073	140316	5888	106037	211558	0	174044
Uttarakhand	1200	4240	0	0	7340	0	117740
<b>Sub-Total ( N R )</b>	<b>113001</b>	<b>375247</b>	<b>5888</b>	<b>193629</b>	<b>969749</b>	<b>395959</b>	<b>1430457</b>
Chhattisgarh	0	4433832	0	0	12000	19385	654410
Gujarat	19095	472437	0	201328	1689142	125	609877
Madhya Pradesh	59707	36522	0	1675	161179	0	25259
Maharashtra	24600	408684	0	57120	501691	0	175889
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	5000
<b>Sub-Total ( W R )</b>	<b>106902</b>	<b>5367675</b>	<b>0</b>	<b>264870</b>	<b>2364012</b>	<b>21220</b>	<b>1477760</b>
Andhra Pradesh	142000	811098	13100	58995	150151	1800	202474
Telangana	10147	33359	0	46477	0	7284	218809
Karnataka	71547	1334731	8500	617062	262788	59657	585213
Kerala	3085	407	0	41386	276080	2400	25940
Tamil Nadu	33492	592943	0	261428	155495	16701	495799
Puducherry	0	7700	0	7656	3600	0	26957
Lakshadweep	0	0	0	0	0	0	0
<b>Sub-Total ( S R )</b>	<b>260271</b>	<b>2780238</b>	<b>21600</b>	<b>1033004</b>	<b>848114</b>	<b>87842</b>	<b>1555192</b>
Bihar	0	0	2240	5250	130600	0	15999
Jharkhand	15420	1354860	0	11313	0	90710	5752
Odisha	0	4493145	1610	3825	385820	30308	100174
West Bengal	17692	623297	118912	2588	226420	0	175890
Sikkim	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0
<b>Sub-Total ( E R )</b>	<b>33112</b>	<b>6471302</b>	<b>122761</b>	<b>22976</b>	<b>742840</b>	<b>121018</b>	<b>297815</b>
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	0	5810	0	0	291585	75000	11490
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
<b>Sub-Total ( N E R )</b>	<b>0</b>	<b>21050</b>	<b>0</b>	<b>0</b>	<b>291585</b>	<b>75000</b>	<b>11490</b>
<b>Total ( All India )</b>	<b>513287</b>	<b>15015512</b>	<b>150249</b>	<b>1514479</b>	<b>5216301</b>	<b>701038</b>	<b>4772714</b>



**Table 5.2 (Contd.)**  
**ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2019-20**

(kW)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total (1 to 21)
	16	17	18	19	20	21	22
Chandigarh	0	0	0	0	0	1120	78671
Delhi	0	0	0	0	0	0	7543
Haryana	30028	37513	12785	22542	46542	67118	2398377
Himachal Pradesh	875	5600	6225	3785	0	115520	474846
Jammu & Kashmir & Ladakh	0	0	0	0	0	19712	25861
Punjab	0	112690	8826	9143	107940	325933	1456955
Rajasthan	392200	0	21472	7600	6150	331541	3041022
Uttar Pradesh	0	67453	7186	22840	685085	91599	3211747
Uttarakhand	0	122841	34648	34315	0	15073	498662
<b>Sub-Total ( N R )</b>	<b>423103</b>	<b>346097</b>	<b>91142</b>	<b>100225</b>	<b>845717</b>	<b>967616</b>	<b>11193682</b>
Chhattisgarh	37100	5800	0	0	3000	651448	6603983
Gujarat	16212	111116	0	89885	221120	1168093	8999614
Madhya Pradesh	52615	123870	6650	12860	4625867	598195	8322427
Maharashtra	12688	362985	63962	829335	52280	406533	5800213
Daman & Diu	0	0	0	0	0	4051	9001
D & N Haveli	3020	2400	0	0	1350	36072	80279
Goa	0	0	0	11520	0	86375	155062
<b>Sub-Total ( W R )</b>	<b>121635</b>	<b>606171</b>	<b>70612</b>	<b>943600</b>	<b>4903617</b>	<b>2950766</b>	<b>29970577</b>
Andhra Pradesh	11358	124381	19214	0	368256	51649	3136323
Telangana	7066	193736	2840	46883	141061	39333	1763196
Karnataka	51865	140890	0	36925	1608575	55880	5995244
Kerala	21000	26535	0	19599	0	40029	609123
Tamil Nadu	75067	274999	88690	236360	544387	1926844	7695922
Puducherry	0	0	1200	14860	8232	6300	127610
Lakshadweep	0	0	0	0	0	0	0
<b>Sub-Total ( S R )</b>	<b>166356</b>	<b>760541</b>	<b>111944</b>	<b>354627</b>	<b>2670511</b>	<b>2120035</b>	<b>19327417</b>
Bihar	0	0	0	0	98544	0	259633
Jharkhand	6700	0	0	0	0	0	1718101
Odisha	264484	94560	0	16100	14500	0	11676814
West Bengal	425	38274	0	1465	15000	21233	1494737
Sikkim	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0
<b>Sub-Total ( E R )</b>	<b>271609</b>	<b>132834</b>	<b>0</b>	<b>17565</b>	<b>128044</b>	<b>21233</b>	<b>15149285</b>
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	0	30000	0	0	0	0	524700
Manipur	0	0	0	0	0	0	0
Meghalaya	16640	0	0	0	0	0	73697
Mizoram	0	0	0	0	0	0	0
Nagaland	0	0	0	0	0	0	0
Tripura	0	0	0	0	0	0	0
<b>Sub-Total ( N E R )</b>	<b>16640</b>	<b>30000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>598397</b>
<b>Total ( All India )</b>	<b>999343</b>	<b>1875643</b>	<b>273698</b>	<b>1416017</b>	<b>8547888</b>	<b>6059651</b>	<b>76239358</b>

**Table 5.3**  
**ALL INDIA GROSS ELECTRICITY GENERATION BY CAPTIVE**  
**POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2019-20**

(GWh)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Colleries	Elect. Engg.	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0.00	0.28	0.00	0.00	0.00	0.13	0.00	0.00
Delhi	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.75
Haryana	0.00	525.93	1.84	10.59	0.00	16.08	150.29	28.12
Himachal Pradesh	0.00	2.08	57.67	0.90	0.14	1.70	0.02	7.41
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25
Punjab	0.22	5.21	107.42	67.76	0.00	0.14	158.82	192.12
Rajasthan	2.71	24.33	4422.77	54.90	0.00	11.39	1390.24	8.85
Uttar Pradesh	7190.10	144.38	353.49	383.78	0.00	1.51	1007.96	502.77
Uttarakhand	0.00	9.43	35.48	121.34	0.00	6.62	0.00	10.56
<b>Sub-Total ( N R )</b>	<b>7193.02</b>	<b>711.63</b>	<b>4978.68</b>	<b>639.28</b>	<b>0.14</b>	<b>37.61</b>	<b>2707.33</b>	<b>752.83</b>
Chhattisgarh	0.00	0.00	1784.00	5.00	0.00	1956.61	0.00	0.00
Gujarat	22.00	22.81	1793.48	9031.64	0.00	36.11	1006.95	269.04
Madhya Pradesh	0.00	4.72	5159.27	1560.96	0.00	670.26	0.00	80.54
Maharashtra	66.63	35.10	277.00	1172.17	0.00	1264.76	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	5.54	0.00	0.00
Goa	0.00	0.00	0.00	92.70	0.00	0.00	0.00	0.20
<b>Sub-Total ( W R )</b>	<b>88.66</b>	<b>62.63</b>	<b>9013.91</b>	<b>11863.06</b>	<b>0.00</b>	<b>3933.28</b>	<b>1559.45</b>	<b>350.65</b>
Andhra Pradesh	14.51	0.00	1574.22	431.48	0.00	414.69	0.00	127.74
Telangana	0.50	6.25	1400.82	1454.68	40.86	320.25	0.00	3.92
Karnataka	55.52	18.54	2344.41	428.74	0.32	27.13	0.00	59.22
Kerala	1.50	0.00	0.04	75.43	7.13	84.00	0.07	1.36
Tamil Nadu	40.32	479.46	1756.17	759.29	0.00	3287.62	42.35	231.20
Puducherry	0.00	0.16	0.00	178.22	0.00	0.00	0.00	0.40
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>112.35</b>	<b>504.41</b>	<b>7075.66</b>	<b>3327.84</b>	<b>48.31</b>	<b>4133.70</b>	<b>42.43</b>	<b>423.83</b>
Bihar	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Jharkhand	142.36	0.00	125.39	328.85	0.68	0.00	0.00	0.00
Odisha	37345.08	0.00	503.00	0.02	2.18	0.00	530.50	8.17
West Bengal	0.04	0.06	0.18	236.79	0.19	0.00	67.82	2.90
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
<b>Sub-Total ( E R )</b>	<b>37487.48</b>	<b>0.06</b>	<b>628.58</b>	<b>565.66</b>	<b>3.05</b>	<b>0.00</b>	<b>598.32</b>	<b>11.07</b>
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	325.59	0.00	0.00	127.87	1.40
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	89.35	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
<b>Sub-Total ( N E R )</b>	<b>0.00</b>	<b>0.00</b>	<b>89.40</b>	<b>325.59</b>	<b>0.00</b>	<b>0.00</b>	<b>127.87</b>	<b>2.81</b>
<b>Total ( All India )</b>	<b>44881.51</b>	<b>1278.73</b>	<b>21786.23</b>	<b>16721.43</b>	<b>51.50</b>	<b>8104.59</b>	<b>5035.40</b>	<b>1541.19</b>



**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**  
**2019-20**

(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	1.13
Delhi	0.00	0.00	0.00	0.00	0.16	0.00	0.00
Haryana	3.62	9.59	0.00	24.66	2364.60	0.00	33.08
Himachal Pradesh	0.00	0.20	0.00	0.03	0.25	0.00	17.97
Jammu & Kashmir & Ladakh	0.00	1.92	0.00	0.00	0.00	0.00	0.00
Punjab	5.17	2.59	0.00	0.96	1108.16	0.00	202.35
Rajasthan	0.49	2.66	0.00	1.45	487.82	1901.76	64.29
Uttar Pradesh	7.98	466.11	0.15	338.20	896.13	0.00	149.09
Uttarakhand	1.00	0.19	0.00	0.00	0.87	0.00	22.72
<b>Sub-Total ( N R )</b>	<b>18.25</b>	<b>483.26</b>	<b>0.15</b>	<b>365.30</b>	<b>4857.99</b>	<b>1901.76</b>	<b>490.62</b>
Chhattishgarh	0.00	22519.26	0.00	0.00	22.98	0.03	908.97
Gujarat	56.46	982.51	0.00	400.19	7606.52	0.00	371.92
Madhya Pradesh	4.31	77.42	0.00	0.00	577.23	0.00	1.75
Maharashtra	84.70	1499.60	0.00	18.60	1824.92	0.00	30.34
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	1.07
<b>Sub-Total ( W R )</b>	<b>145.47</b>	<b>25078.90</b>	<b>0.00</b>	<b>420.03</b>	<b>10031.65</b>	<b>0.03</b>	<b>1314.41</b>
Andhra Pradesh	390.56	4441.87	1.17	193.83	849.66	0.00	596.02
Telangana	13.11	65.22	0.00	24.46	0.00	0.13	280.72
Karnataka	59.57	6879.28	23.99	183.78	1103.41	70.01	443.92
Kerala	1.07	0.01	0.00	0.69	1299.00	0.00	27.72
Tamil Nadu	14.05	2549.69	0.00	231.65	817.56	6.00	1172.46
Puducherry	0.00	0.09	0.00	1.66	1.41	0.00	3.04
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>478.37</b>	<b>13936.16</b>	<b>25.16</b>	<b>636.08</b>	<b>4071.04</b>	<b>76.14</b>	<b>2523.88</b>
Bihar	0.00	0.00	0.81	0.25	457.23	0.00	1.10
Jharkhand	0.00	6903.46	0.00	0.77	0.00	487.71	0.95
Orissa	0.00	18520.74	0.18	0.69	1557.69	1.35	84.16
West Bengal	3.06	2799.24	3.92	0.07	1146.81	0.00	202.64
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
<b>Sub-Total ( E R )</b>	<b>3.06</b>	<b>28223.44</b>	<b>4.92</b>	<b>1.77</b>	<b>3161.73</b>	<b>489.06</b>	<b>288.85</b>
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	731.32	108.45	2.47
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.01	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
<b>Sub-Total ( N E R )</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>731.32</b>	<b>108.45</b>	<b>2.47</b>
<b>Total ( All India )</b>	<b>645.14</b>	<b>67721.77</b>	<b>30.22</b>	<b>1423.18</b>	<b>22853.72</b>	<b>2575.44</b>	<b>4620.22</b>



**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**  
**2019-20**

(GWh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total (1 to 21)
	16	17	18	19	20	21	22
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.15	1.69
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	0.94
Haryana	3.98	142.19	0.00	2.86	94.66	57.49	3469.59
Himachal Pradesh	0.04	38.08	0.83	0.18	0.00	17.23	144.72
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00	0.00	1.54	5.70
Punjab	0.00	560.20	2.29	1.27	141.02	554.43	3110.14
Rajasthan	2639.74	0.00	5.24	2.24	0.00	1004.23	12025.09
Uttar Pradesh	0.00	272.10	0.79	2.59	2093.87	145.23	13956.24
Uttarakhand	0.00	607.24	4.93	130.10	0.00	3.13	953.60
<b>Sub-Total ( N R )</b>	<b>2643.76</b>	<b>1619.82</b>	<b>14.08</b>	<b>139.23</b>	<b>2329.56</b>	<b>1783.42</b>	<b>33667.71</b>
Chhattisgarh	95.68	23.60	0.00	0.00	0.00	4465.92	31782.05
Gujarat	3.20	337.32	0.00	62.69	613.73	992.17	23608.75
Madhya Pradesh	112.67	272.00	1.20	0.02	6721.00	1038.87	16282.21
Maharashtra	29.43	1126.34	205.99	1344.50	97.39	856.42	10487.26
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.20	0.49
D & N Haveli	0.16	0.28	0.00	0.00	1.20	14.50	22.53
Goa	0.00	0.00	0.00	1.00	0.00	434.10	530.40
<b>Sub-Total ( W R )</b>	<b>241.14</b>	<b>1759.55</b>	<b>207.19</b>	<b>1408.21</b>	<b>7433.31</b>	<b>7802.18</b>	<b>82713.70</b>
Andhra Pradesh	0.54	535.19	111.25	0.00	859.78	44.16	10586.68
Telangana	0.16	800.59	0.05	0.65	258.30	3.42	4674.09
Karnataka	170.17	435.50	0.00	2.30	2973.16	40.95	15319.91
Kerala	34.25	33.03	0.00	0.20	0.00	0.26	1565.77
Tamil Nadu	17.31	1201.98	466.36	119.18	855.89	1910.39	15958.95
Puducherry	0.00	0.00	0.07	3.67	0.94	11.08	200.73
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>222.42</b>	<b>3006.30</b>	<b>577.74</b>	<b>126.00</b>	<b>4948.07</b>	<b>2010.26</b>	<b>48306.14</b>
Bihar	0.00	0.00	0.00	0.00	169.42	0.00	628.83
Jharkhand	0.25	0.00	0.00	0.00	0.00	0.00	7990.40
Orissa	1046.50	544.32	0.00	12.93	16.04	0.00	60173.55
West Bengal	0.00	97.58	0.00	0.04	0.00	2.29	4563.63
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
<b>Sub-Total ( E R )</b>	<b>1046.75</b>	<b>641.90</b>	<b>0.00</b>	<b>12.97</b>	<b>185.46</b>	<b>2.29</b>	<b>73356.40</b>
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	1432.03
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	90.77
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
<b>Sub-Total ( N E R )</b>	<b>0.00</b>	<b>134.89</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1522.80</b>
<b>Total ( All India )</b>	<b>4154.07</b>	<b>7162.45</b>	<b>799.01</b>	<b>1686.41</b>	<b>14896.39</b>	<b>11598.15</b>	<b>239566.75</b>



**Table 5.4**  
**INDUSTRY-WISE/MODE-WISE ALL INDIA INSTALLED CAPACITY**  
**OF CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE**  
**31.03.2020**

(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	60	0	7101486	179123	70000	67760	67500	7485869
Automobile	327	0	147262	885690	164572	83125	120999	1401648
Cement	310	22272	5875097	1151211	67657	62135	65525	7243898
Chemical	549	0	3135426	1311254	992863	143643	350046	5933232
Collieries	26	0	108251	69039	0	13073	0	190363
Electrical Engineering	206	33000	1888575	389409	1017665	383081	356030	4067760
Fertiliser	52	0	640040	45064	635562	48712	33300	1402678
Food Products	446	0	511273	799003	17294	18613	111910	1458093
Heavy Engineering	120	0	176086	238770	37835	38996	21600	513287
Iron & Steel	670	2550	13098936	1077038	676780	29512	130696	15015512
Jute	55	0	5500	140899	2400	1450	0	150249
Light Engineering	317	0	107512	1134649	82776	61322	128220	1514479
Mineral Oil & Petroleum	170	0	2452743	231652	2386238	54909	90758	5216301
Mining & Quarrying	59	0	453605	126489	89000	21444	10500	701038
Miscellaneous	1057	1875	1958131	2290259	160072	227289	135088	4772714
Non Ferrous	68	37575	731700	169929	8925	32889	18325	999343
Paper	150	0	1724885	128157	6918	4483	11200	1875643
Plastic	66	0	129700	122761	0	8137	13100	273698
Rubber	150	0	895260	319632	92325	17943	90857	1416017
Sugar	312	0	8197745	224203	63565	30830	31546	8547888
Textile	920	33500	2203557	1740427	743419	175651	1163096	6059651
<b>Total</b>	<b>6090</b>	<b>130772</b>	<b>51542770</b>	<b>12774659</b>	<b>7315866</b>	<b>1524995</b>	<b>2950296</b>	<b>76239358</b>



**Table 5.5**  
**INDUSTRY-WISE/MODE-WISE ALL INDIA ELECTRICITY GENERATION**  
**AND CONSUMPTION BY**  
**CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF**  
**1MW & ABOVE**  
**2019-20**

(GWh)

Name of Industry	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8
Aluminium	0.00	44692.87	20.35	17.80	62.85	87.65	44881.51
Automobile	0.00	490.98	277.69	322.78	93.83	93.45	1278.73
Cement	70.00	21181.38	97.10	246.56	87.01	104.17	21786.23
Chemical	0.00	10730.93	289.92	4430.17	211.54	1058.87	16721.43
Colleges	0.00	39.25	7.38	0.00	4.87	0.00	51.50
Electrical Engineering	84.00	6527.25	23.25	258.31	500.24	711.54	8104.59
Fertiliser	0.00	2508.25	1.62	2483.08	4.15	38.30	5035.40
Food Products	0.00	1221.93	163.23	22.21	14.05	119.76	1541.19
Heavy Engineering	0.00	353.41	22.86	197.21	38.07	33.59	645.14
Iron & Steel	3.50	64514.53	107.49	2884.81	28.20	183.24	67721.77
Jute	0.00	20.55	4.34	3.44	1.90	0.00	30.22
Light Engineering	0.00	515.00	225.14	378.57	83.03	221.44	1423.18
Mineral Oil & Petroleum	0.00	10313.52	28.77	12304.81	53.14	153.49	22853.72
Mining & Quarrying	0.00	2412.82	2.72	108.45	35.08	16.37	2575.44
Miscellaneous	5.38	3441.18	210.75	540.26	289.35	133.31	4620.22
Non Ferrous	88.67	3978.10	4.42	0.87	62.69	19.32	4154.07
Paper	0.00	7047.79	70.65	6.05	3.87	34.09	7162.45
Plastic	0.00	758.82	13.16	0.00	7.74	19.30	799.01
Rubber	0.00	1509.96	23.74	60.39	17.01	75.31	1686.41
Sugar	0.00	14633.31	11.11	171.25	4.63	76.09	14896.39
Textile	96.48	8653.97	313.63	1006.14	203.95	1323.99	11598.15
<b>Total</b>	<b>348.04</b>	<b>205545.78</b>	<b>1919.32</b>	<b>25443.15</b>	<b>1807.19</b>	<b>4503.28</b>	<b>239566.75</b>

**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**  
**2019-20**

(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	4276.34	40605.17	564.81	40040.36	3750.93	43791.29
Automobile	61.29	1217.43	154.60	1062.83	2970.96	4033.79
Cement	1455.56	20330.67	1171.96	19158.71	7547.72	26706.42
Chemical	701.77	16019.65	978.98	15040.67	10438.37	25479.04
Collieries	3.93	47.57	9.61	37.97	1054.19	1092.16
Electrical Engineering	506.29	7598.30	4206.97	3391.33	1646.48	5037.81
Fertiliser	218.64	4816.75	403.29	4413.46	1406.27	5819.73
Food Products	99.84	1441.35	451.84	989.51	2393.68	3383.19
Heavy Engineering	37.38	607.77	84.80	522.97	925.51	1448.48
Iron & Steel	6160.74	61561.02	5201.86	56359.16	17343.15	73702.31
Jute	2.06	28.16	0.61	27.55	525.27	552.82
Light Engineering	36.73	1386.45	34.01	1352.45	2612.51	3964.96
Mineral Oil & Petroleum	1031.34	21822.38	445.75	21376.63	2861.81	24238.44
Mining & Quarrying	248.26	2327.17	65.69	2261.48	1420.57	3682.05
Miscellaneous	319.70	4300.53	1466.69	2833.84	6199.21	9033.05
Non Ferrous	364.17	3789.90	859.11	2930.79	1747.98	4678.77
Paper	640.70	6521.75	140.02	6381.73	1403.46	7785.19
Plastic	66.42	732.59	102.62	629.97	670.29	1300.25
Rubber	87.62	1598.79	951.98	646.81	2132.12	2778.94
Sugar	715.14	14181.25	3505.67	10675.58	916.99	11592.57
Textile	721.21	10876.94	5271.27	5605.67	10847.64	16453.31
<b>Total</b>	<b>17755.14</b>	<b>221811.61</b>	<b>26072.15</b>	<b>195739.46</b>	<b>80815.13</b>	<b>276554.59</b>

**Table 5.6**  
**STATE-WISE INSTALLED CAPACITY OF CAPTIVE POWER PLANTS**  
**IN INDUSTRIES HAVING DEMAND OF**  
**1 MW & ABOVE**  
**31.03.2020**

(kW)

State/UTs	No. of Industries Covered	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8	9
Chandigarh	21	0	25000	52631	0	1040	0	78671
Delhi	9	0	0	7306	0	237	0	7543
Haryana	545	0	355710	1513271	473617	55779	0	2398377
Himachal Pradesh	160	3500	31225	434783	0	5338	0	474846
Jammu & Kashmir & Ladakh	4	0	0	25861	0	0	0	25861
Punjab	366	0	577970	783592	75242	20151	0	1456955
Rajasthan	380	0	2026905	567378	101299	239365	106075	3041022
Uttar Pradesh	227	0	2385933	451664	317725	56425	0	3211747
Uttarakhand	120	0	150300	321458	9890	17014	0	498662
<b>Sub-Total (NR)</b>	<b>1832</b>	<b>3500</b>	<b>5553043</b>	<b>4157942</b>	<b>977773</b>	<b>395349</b>	<b>106075</b>	<b>11193682</b>
Chhattisgarh	130	22272	6300660	159054	91472	30525	0	6603983
Gujarat	523	2550	4187472	1080044	2961640	131842	636066	8999614
Madhya Pradesh	199	0	7184029	749762	164356	7530	216750	8322427
Maharashtra	357	21000	3723157	680925	703616	344604	326911	5800213
Daman & Diu	6	0	0	9001	0	0	0	9001
D & N Haveli	20	0	8400	71879	0	0	0	80279
Goa	17	0	15900	55862	83300	0	0	155062
<b>Sub-Total (WR)</b>	<b>1252</b>	<b>45822</b>	<b>21419618</b>	<b>2806525</b>	<b>4004384</b>	<b>514501</b>	<b>1179727</b>	<b>29970577</b>
Andhra Pradesh	290	1875	2419403	477471	199366	19358	18850	3136323
Telangana	252	0	1178272	526108	1000	56907	909	1763196
Karnataka	488	25575	3839002	1281824	506900	187318	154625	5995244
Kerala	87	54000	165100	192396	195480	2147	0	609123
Tamil Nadu	1173	0	3581334	2070604	297477	256397	1490110	7695922
Puducherry	52	0	15500	73822	35900	2388	0	127610
Lakshadweep	0	0	0	0	0	0	0	0
<b>Sub-Total (SR)</b>	<b>2342</b>	<b>81450</b>	<b>11198611</b>	<b>4622224</b>	<b>1236123</b>	<b>524515</b>	<b>1664494</b>	<b>19327417</b>
Bihar	31	0	199400	17626	41544	1063	0	259633
Jharkhand	51	0	1474120	140195	102000	1786	0	1718101
Odisha	296	0	10726020	520044	373000	57750	0	11676814
West Bengal	228	0	815158	444201	211828	23551	0	1494737
Sikkim	0	0	0	0	0	0	0	0
Andaman & Nicobar Is.	0	0	0	0	0	0	0	0
<b>Sub-Total (ER)</b>	<b>606</b>	<b>0</b>	<b>13214698</b>	<b>1122065</b>	<b>728372</b>	<b>84150</b>	<b>0</b>	<b>15149285</b>
Arunachal Pradesh	0	0	0	0	0	0	0	0
Assam	47	0	118000	31006	369214	6480	0	524700
Manipur	0	0	0	0	0	0	0	0
Meghalaya	11	0	38800	34897	0	0	0	73697
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
<b>Sub-Total (NER)</b>	<b>58</b>	<b>0</b>	<b>156800</b>	<b>65903</b>	<b>369214</b>	<b>6480</b>	<b>0</b>	<b>598397</b>
<b>Total (All India)</b>	<b>6090</b>	<b>130772</b>	<b>51542770</b>	<b>12774659</b>	<b>7315866</b>	<b>1524995</b>	<b>2950296</b>	<b>76239358</b>



**Table 5.7**  
**STATE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION**  
**BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF**  
**1 MW & ABOVE**  
**2019-20**

(GWh)

ENERGY GENERATED							
State/UTs	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8
Chandigarh	0.00	0.18	0.26	0.00	1.25	0.00	1.69
Delhi	0.00	0.00	0.70	0.00	0.23	0.00	0.94
Haryana	0.00	1115.44	139.99	2176.25	37.92	0.00	3469.59
Himachal Pradesh	14.05	93.28	32.64	0.00	4.75	0.00	144.72
Jammu & Kashmir & Ladakh	0.00	0.00	5.70	0.00	0.00	0.00	5.70
Punjab	0.00	2479.61	89.80	521.72	19.01	0.00	3110.14
Rajasthan	0.00	11268.29	26.77	341.47	273.05	115.51	12025.09
Uttar Pradesh	0.00	11824.42	451.85	1643.47	36.50	0.00	13956.24
Uttarakhand	0.00	859.35	53.59	22.24	18.42	0.00	953.60
<b>Sub-Total (NR)</b>	<b>14.05</b>	<b>27640.57</b>	<b>801.30</b>	<b>4705.15</b>	<b>391.13</b>	<b>115.51</b>	<b>33667.71</b>
Chhattisgarh	70.00	31366.26	25.28	257.23	63.27	0.00	31782.05
Gujarat	3.50	13552.76	121.75	8387.86	75.14	1467.74	23608.75
Madhya Pradesh	0.00	15242.56	24.99	500.99	9.73	503.95	16282.21
Maharashtra	51.04	8233.92	30.48	1172.45	510.85	488.51	10487.26
Daman & Diu	0.00	0.00	0.49	0.00	0.00	0.00	0.49
D & N Haveli	0.00	18.80	3.73	0.00	0.00	0.00	22.53
Goa	0.00	76.40	3.84	450.16	0.00	0.00	530.40
<b>Sub-Total (WR)</b>	<b>124.54</b>	<b>68490.70</b>	<b>210.56</b>	<b>10768.68</b>	<b>659.00</b>	<b>2460.20</b>	<b>82713.70</b>
Andhra Pradesh	5.38	9460.54	76.43	995.56	21.44	27.32	10586.68
Telangana	0.00	4522.97	78.03	0.34	71.48	1.28	4674.09
Karnataka	85.81	12000.51	138.68	2732.11	251.85	110.95	15319.91
Kerala	118.25	495.47	38.01	911.36	2.69	0.00	1565.77
Tamil Nadu	0.00	12494.29	445.37	886.30	344.97	1788.01	15958.95
Puducherry	0.00	3.31	8.44	187.69	1.29	0.00	200.73
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total (SR)</b>	<b>209.44</b>	<b>38977.10</b>	<b>784.96</b>	<b>5713.36</b>	<b>693.71</b>	<b>1927.56</b>	<b>48306.14</b>
Bihar	0.00	327.79	1.19	298.86	0.99	0.00	628.83
Jharkhand	0.00	7590.74	9.47	389.15	1.04	0.00	7990.40
Odisha	0.00	58555.15	50.11	1532.57	35.72	0.00	60173.55
West Bengal	0.00	3445.81	37.48	1058.15	22.20	0.00	4563.63
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
<b>Sub-Total (ER)</b>	<b>0.00</b>	<b>69919.49</b>	<b>98.25</b>	<b>3278.73</b>	<b>59.94</b>	<b>0.00</b>	<b>73356.40</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	445.05	6.35	977.23	3.41	0.00	1432.03
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	72.87	17.90	0.00	0.00	0.00	90.77
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
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>517.92</b>	<b>24.25</b>	<b>977.23</b>	<b>3.41</b>	<b>0.00</b>	<b>1522.80</b>
<b>Total (All India)</b>	<b>348.04</b>	<b>205545.78</b>	<b>1919.32</b>	<b>25443.15</b>	<b>1807.19</b>	<b>4503.28</b>	<b>239566.75</b>

**Table 5.7 (Contd.)**  
**STATE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION**  
**BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF**  
**1 MW & ABOVE**  
**2019-20**

(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	1.69	0.00	1.69	101.44	103.12
Delhi	0.00	0.94	0.00	0.94	43.27	44.21
Haryana	93.23	3376.35	11.05	3365.31	2873.64	6238.94
Himachal Pradesh	17.69	127.03	0.30	126.73	2071.73	2198.46
Jammu & Kashmir & Ladakh	0.04	5.66	0.00	5.66	257.01	262.67
Punjab	377.24	2732.90	152.95	2579.95	2855.39	5435.34
Rajasthan	995.62	11029.48	848.20	10181.28	4841.68	15022.97
Uttar Pradesh	1109.16	12847.08	1524.79	11322.28	1816.14	13138.42
Uttarakhand	89.32	864.29	0.11	864.18	1620.82	2485.00
<b>Sub-Total (NR)</b>	<b>2682.30</b>	<b>30985.41</b>	<b>2537.40</b>	<b>28448.01</b>	<b>16481.13</b>	<b>44929.15</b>
Chhattisgarh	2235.78	29546.27	5061.12	24485.15	1523.78	26008.92
Gujarat	734.66	22874.09	768.39	22105.70	8704.01	30809.71
Madhya Pradesh	247.22	16034.99	39.48	15995.51	4196.53	20192.04
Maharashtra	456.20	10031.06	2425.17	7605.89	8458.80	16064.69
Daman & Diu	0.00	0.49	0.00	0.49	34.80	35.29
D & N Haveli	0.00	22.53	0.00	22.53	1570.03	1592.56
Goa	8.90	521.50	206.00	315.50	179.84	495.34
<b>Sub-Total (WR)</b>	<b>3682.76</b>	<b>79030.93</b>	<b>8500.17</b>	<b>70530.77</b>	<b>24667.78</b>	<b>95198.55</b>
Andhra Pradesh	870.11	9716.57	1281.48	8435.09	4956.40	13391.50
Telangana	470.49	4203.61	1424.69	2778.92	3659.05	6437.97
Karnataka	1147.16	14172.75	2164.15	12008.60	3854.47	15863.07
Kerala	80.69	1485.08	82.01	1403.07	1603.23	3006.30
Tamil nadu	1166.06	14792.89	7127.63	7665.26	10942.81	18608.08
Puducherry	8.13	192.60	0.00	192.60	699.79	892.39
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total (SR)</b>	<b>3742.65</b>	<b>44563.49</b>	<b>12079.96</b>	<b>32483.54</b>	<b>25715.75</b>	<b>58199.29</b>
Bihar	54.41	574.42	106.00	468.42	105.35	573.77
Jharkhand	971.04	7019.36	226.43	6792.93	2490.93	9283.86
Odisha	5981.15	54192.40	2408.21	51784.19	5935.52	57719.71
West Bengal	475.90	4087.73	186.18	3901.55	5096.85	8998.40
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
<b>Sub-Total (ER)</b>	<b>7482.50</b>	<b>65873.90</b>	<b>2926.82</b>	<b>62947.08</b>	<b>13628.65</b>	<b>76575.74</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00
Assam	156.43	1275.60	27.81	1247.79	141.12	1388.91
Manipur	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	8.50	82.26	0.00	82.26	180.70	262.96
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
<b>Sub-Total (NER)</b>	<b>164.93</b>	<b>1357.87</b>	<b>27.81</b>	<b>1330.05</b>	<b>321.81</b>	<b>1651.86</b>
<b>Total (All India)</b>	<b>17755.14</b>	<b>221811.61</b>	<b>26072.15</b>	<b>195739.46</b>	<b>80815.13</b>	<b>276554.59</b>

**Table 5.8**  
**ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE**  
**POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2019-20**

(GWh)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Colleries	Elect. Engg.	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0.00	3.38	0.00	0.00	0.00	5.80	0.00	0.00
Delhi	0.00	0.00	0.00	0.00	0.00	0.05	0.00	35.02
Haryana	0.00	836.87	72.78	26.96	0.00	40.64	162.25	98.51
Himachal Pradesh	0.00	34.69	783.04	23.96	5.13	102.91	16.42	73.51
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.57
Punjab	8.70	312.58	109.26	88.62	0.00	2.90	154.24	404.29
Rajasthan	10.61	227.72	4563.58	289.88	0.00	195.73	1398.57	133.86
Uttar Pradesh	6500.50	101.04	518.52	363.44	0.00	18.31	1004.14	375.79
Uttarakhand	0.00	106.68	138.88	269.99	0.00	51.81	0.00	140.31
<b>Sub-Total ( N R )</b>	<b>6519.81</b>	<b>1622.95</b>	<b>6186.06</b>	<b>1062.84</b>	<b>5.13</b>	<b>418.15</b>	<b>2735.62</b>	<b>1270.85</b>
Chhattisgarh	0.00	0.00	2166.94	3.16	0.00	1842.20	0.00	0.00
Gujarat	272.10	57.98	2055.81	11437.90	0.00	236.22	1456.43	964.49
Madhya Pradesh	709.00	30.04	5957.49	2236.52	0.00	1111.74	14.96	191.83
Maharashtra	197.31	348.65	307.32	3077.58	0.00	570.72	577.82	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	83.27	0.00	0.00
Goa	0.00	0.00	0.00	104.94	0.00	0.00	0.00	31.20
<b>Sub-Total ( W R )</b>	<b>1192.00</b>	<b>436.66</b>	<b>11098.72</b>	<b>17028.00</b>	<b>0.00</b>	<b>3844.14</b>	<b>2049.21</b>	<b>1253.82</b>
Andhra Pradesh	50.55	0.00	2538.19	1678.82	0.00	226.59	0.00	195.48
Telangana	42.60	103.76	1497.07	1268.01	671.82	116.55	0.00	85.55
Karnataka	224.20	219.49	2371.80	923.47	0.29	54.18	0.00	125.78
Kerala	14.81	0.00	3.73	565.80	28.06	121.61	26.47	11.68
Tamil Nadu	63.70	1646.46	1759.71	1576.08	0.00	250.35	263.41	291.96
Puducherry	0.00	4.41	0.00	394.29	0.00	0.00	0.00	28.89
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>395.87</b>	<b>1974.12</b>	<b>8170.50</b>	<b>6406.46</b>	<b>700.17</b>	<b>769.27</b>	<b>289.89</b>	<b>739.36</b>
Bihar	0.00	0.00	78.35	0.00	0.00	0.00	0.00	2.99
Jharkhand	103.14	0.00	143.34	240.93	72.04	0.00	0.00	0.00
Odisha	35575.05	0.00	610.24	186.46	314.63	0.00	553.69	22.30
West Bengal	5.41	0.06	234.49	224.61	0.19	6.25	63.96	84.23
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
<b>Sub-Total ( E R )</b>	<b>35683.60</b>	<b>0.06</b>	<b>1066.42</b>	<b>652.00</b>	<b>386.86</b>	<b>6.25</b>	<b>617.65</b>	<b>109.52</b>
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	329.74	0.00	0.00	127.37	6.75
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	166.49	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
<b>Sub-Total ( N E R )</b>	<b>0.00</b>	<b>0.00</b>	<b>184.73</b>	<b>329.74</b>	<b>0.00</b>	<b>0.00</b>	<b>127.37</b>	<b>9.64</b>
<b>Total ( All India )</b>	<b>43791.29</b>	<b>4033.79</b>	<b>26706.42</b>	<b>25479.04</b>	<b>1092.16</b>	<b>5037.81</b>	<b>5819.73</b>	<b>3383.19</b>



**Table 5.8 (Contd.)**  
**ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE**  
**POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2019-20**

(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	87.25
Delhi	0.00	0.00	0.00	0.00	7.68	0.00	1.46
Haryana	55.11	1582.58	0.00	58.62	2383.50	0.00	366.42
Himachal Pradesh	0.00	12.60	0.00	6.96	0.93	0.00	372.95
Jammu & Kashmir & Ladakh	0.00	34.03	0.00	0.00	0.00	0.00	0.00
Punjab	65.33	400.46	0.00	19.14	1233.18	0.00	411.21
Rajasthan	6.10	181.98	0.00	26.35	598.89	2471.11	430.62
Uttar Pradesh	45.53	655.02	2.29	373.32	1180.99	0.00	466.48
Uttarakhand	1.00	174.50	0.00	0.00	10.83	0.00	480.12
<b>Sub-Total ( N R )</b>	<b>173.07</b>	<b>3041.16</b>	<b>2.29</b>	<b>484.39</b>	<b>5416.00</b>	<b>2471.11</b>	<b>2616.51</b>
Chhattisgarh	0.00	20591.18	0.00	0.00	22.09	45.63	964.22
Gujarat	74.06	1769.13	0.00	716.90	7542.26	20.20	850.73
Madhya Pradesh	225.94	126.03	0.00	0.95	679.86	0.00	20.26
Maharashtra	73.90	4515.54	0.00	303.31	2674.57	0.00	363.72
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	12.40	0.00	15.21	0.00	0.04	1.07
<b>Sub-Total ( W R )</b>	<b>378.08</b>	<b>27014.28</b>	<b>0.00</b>	<b>1038.17</b>	<b>10918.78</b>	<b>65.87</b>	<b>2236.21</b>
Andhra Pradesh	377.87	4288.81	41.61	376.12	695.55	0.33	668.82
Telangana	43.08	244.40	0.00	155.21	0.00	87.93	505.02
Karnataka	221.87	6683.57	29.92	758.11	1145.12	252.28	700.54
Kerala	32.80	14.69	0.00	125.51	1480.17	6.10	66.75
Tamil Nadu	143.15	1925.96	0.00	698.80	886.33	17.90	1003.00
Puducherry	0.00	210.61	0.00	34.28	27.24	0.00	88.85
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>818.77</b>	<b>13368.04</b>	<b>71.52</b>	<b>2148.03</b>	<b>4234.42</b>	<b>364.53</b>	<b>3032.98</b>
Bihar	0.00	0.00	8.11	0.25	400.66	0.00	9.20
Jharkhand	35.45	7762.45	0.00	274.70	0.00	592.70	4.89
Odisha	0.00	17120.68	1.41	14.33	1464.83	90.28	167.33
West Bengal	43.11	5310.04	469.49	5.09	1111.62	0.00	936.09
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
<b>Sub-Total ( E R )</b>	<b>78.56</b>	<b>30193.16</b>	<b>479.01</b>	<b>294.38</b>	<b>2977.11</b>	<b>682.98</b>	<b>1117.50</b>
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	692.13	97.56	29.84
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	85.67	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
<b>Sub-Total ( N E R )</b>	<b>0.00</b>	<b>85.67</b>	<b>0.00</b>	<b>0.00</b>	<b>692.13</b>	<b>97.56</b>	<b>29.84</b>
<b>Total ( All India )</b>	<b>1448.48</b>	<b>73702.31</b>	<b>552.82</b>	<b>3964.96</b>	<b>24238.44</b>	<b>3682.05</b>	<b>9033.05</b>

**Table 5.8 (Contd.)**  
**ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE**  
**POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2019-20**

(GWh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Total (1 to 21)
	16	17	18	19	20	21	22
Chandigarh	0.00	0.00	0.00	0.00	0.00	6.70	103.12
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	44.21
Haryana	59.91	127.31	0.00	67.13	88.76	211.60	6238.94
Himachal Pradesh	2.30	36.83	66.34	10.39	0.00	649.50	2198.46
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00	0.00	219.07	262.67
Punjab	0.00	668.42	84.58	24.44	64.34	1383.67	5435.34
Rajasthan	2385.28	0.00	78.87	53.86	0.00	1969.95	15022.97
Uttar Pradesh	0.00	279.65	31.28	34.35	765.73	422.05	13138.42
Uttarakhand	0.00	688.05	149.12	201.46	0.00	72.26	2485.00
<b>Sub-Total ( N R )</b>	<b>2447.50</b>	<b>1800.26</b>	<b>410.18</b>	<b>391.62</b>	<b>918.83</b>	<b>4934.81</b>	<b>44929.15</b>
Chhattisgarh	117.67	25.58	0.00	0.00	0.00	230.25	26008.92
Gujarat	15.30	434.58	0.00	209.93	741.02	1954.67	30809.71
Madhya Pradesh	125.92	499.38	1.23	39.32	6767.38	1454.19	20192.04
Maharashtra	88.48	1143.68	235.47	490.87	131.35	898.11	16064.69
Daman & Diu	0.00	0.00	0.00	0.00	0.00	18.90	35.29
D & N Haveli	17.36	13.33	0.00	0.00	301.20	363.13	1592.56
Goa	0.00	0.00	0.00	93.00	0.00	233.30	495.34
<b>Sub-Total ( W R )</b>	<b>364.73</b>	<b>2116.55</b>	<b>236.70</b>	<b>833.12</b>	<b>7940.95</b>	<b>5152.55</b>	<b>95198.55</b>
Andhra Pradesh	261.06	502.70	166.98	0.00	741.13	580.89	13391.50
Telangana	64.31	793.20	6.91	213.65	196.38	342.51	6437.97
Karnataka	103.40	415.50	0.00	133.64	1377.56	122.34	15863.07
Kerala	62.53	144.90	0.00	182.82	0.00	117.86	3006.30
Tamil Nadu	52.64	1275.71	474.75	920.11	316.54	5041.52	18608.08
Puducherry	0.00	0.00	4.74	62.52	11.06	25.51	892.39
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>543.94</b>	<b>3132.00</b>	<b>653.38</b>	<b>1512.74</b>	<b>2642.68</b>	<b>6230.63</b>	<b>58199.29</b>
Bihar	0.00	0.00	0.00	0.00	74.21	0.00	573.77
Jharkhand	54.21	0.00	0.00	0.00	0.00	0.00	9283.86
Odisha	1004.40	551.49	0.00	27.51	15.09	0.00	57719.71
West Bengal	256.09	97.60	0.00	13.95	0.81	135.32	8998.40
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
<b>Sub-Total ( E R )</b>	<b>1314.70</b>	<b>649.09</b>	<b>0.00</b>	<b>41.45</b>	<b>90.11</b>	<b>135.32</b>	<b>76575.74</b>
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	1388.91
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	7.90	0.00	0.00	0.00	0.00	0.00	262.96
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
<b>Sub-Total ( N E R )</b>	<b>7.90</b>	<b>87.29</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1651.86</b>
<b>Total ( All India )</b>	<b>4678.77</b>	<b>7785.19</b>	<b>1300.25</b>	<b>2778.94</b>	<b>11592.57</b>	<b>16453.31</b>	<b>276554.59</b>



**Table 5.9**  
**CAPACITY WISE CLASSIFICATION OF ELECTRICITY GENERATED**  
**BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF**  
**1 MW & ABOVE**  
**2019-20**

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	5074	12590755	16.51	10223.99	4.27
10.00MW & Upto 20.00 MW	403	5908144	7.75	11195.75	4.67
20.00MW & Upto 30.00 MW	196	4950787	6.49	12651.52	5.28
30.00MW & Upto 40.00 MW	102	3598520	4.72	9871.27	4.12
40.00MW & Upto 50.00 MW	67	3078942	4.04	11099.75	4.63
50.00MW & Upto 100.00 MW	149	10653009	13.97	38634.60	16.13
Over 100.00MW	99	35459201	46.51	145889.88	60.90
<b>Total</b>	<b>6090</b>	<b>76239358</b>	<b>100.00</b>	<b>239566.75</b>	<b>100.00</b>

**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
31.03.1984	2.61	2633.02	1602.49	60.05	68.53	4366.70

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

(MW)

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

@ Includes RES

\*Breakup not available

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

(GWh)

Year Ending	Hydro	Steam	Diesel @	Gas	Railways	Total
1949	*	*	*	*	0.00	1299.56
1950	*	*	*	*	0.00	1467.81
1951	*	*	*	*	0.00	1655.57
1952	*	*	*	*	0.00	1883.58
1953	*	*	*	*	0.00	1983.91
1954	*	*	*	*	0.00	2054.64
1955	*	*	*	*	0.00	2184.82
1956	*	*	*	*	0.00	2209.51
1957-58	*	*	*	*	0.00	2288.29
1958-59	*	*	*	*	0.00	2420.68
1959-60	*	*	*	*	0.00	2760.88
1960-61	*	*	*	*	0.00	3186.10
1961-62	*	*	*	*	0.00	3287.21
1962-63	*	*	*	*	0.00	3862.30
1963-64	*	*	*	*	0.00	3394.20
1964-65	*	*	*	*	104.80	3570.32
1965-66	*	*	*	*	101.94	3835.13
1966-67	*	*	*	*	88.42	4136.60
1967-68	*	*	*	*	81.59	4120.20
1968-69	*	*	*	*	72.08	4208.14
1969-70	*	*	*	*	36.65	4554.71
1970-71	*	*	*	*	36.65	5383.89
1971-72	*	*	*	*	43.00	5458.72
1972-73	*	*	*	*	37.85	5969.60
1973-74	*	*	*	*	39.63	6107.10
1974-75	7.28	6158.53	269.91	15.93	36.30	6487.95
1975-76	8.92	6385.14	232.68	30.38	38.18	6695.30
1976-77	8.10	6897.70	294.79	39.75	41.16	7281.50
1977-78	11.75	7087.28	382.56	38.14	38.83	7558.56
1978-79	13.22	7211.30	299.13	48.97	34.47	7607.09
1979-80	15.06	7225.60	825.70	90.67	35.67	8192.70
1980-81	15.06	7202.77	1053.98	101.82	42.42	8416.05
1981-82	18.24	7737.33	1129.15	94.24	44.73	9023.69
1982-83	10.00	8497.05	1406.27	75.68	46.71	10035.71
1983-84	18.27	8927.59	1731.54	91.62	47.62	10816.64
1984-85	18.29	9966.55	2001.18	317.03	42.80	12345.85

**Table 5.11 (Contd.)  
GROWTH OF ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES  
HAVING DEMAND OF 1MW & ABOVE**

(GWh)

Year Ending	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
2019-20	348.04	205545.78	8229.79	25443.15	0.00	239566.75

@ Includes RES

\*Breakup not available

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









## CHAPTER 6

# ELECTRIC POWER SUPPLY AND SYSTEM LOSSES

During the year 2019-20 gross electricity generation (utilities) was 1383416.75 GWh, out of which 83300.75 GWh representing 6.02% of gross generation was consumed in power station auxiliaries. Thus net generation available at the bus-bar was 1300116.00 GWh. Electricity purchased by public utilities from captive power plants was 26072.15 GWh and electricity imported from Bhutan was 6350.60 GWh. Thus the total electricity available for supply during the year was 1332538.74 GWh as compared to 1316153.51 GWh during the year 2018-19.

Electricity sold to various classes of consumers during the year 2019-20 was 1052346.36 GWh and electricity exported outside the country i.e. to Nepal, Bangladesh and Myanmar was 9490.91 GWh. The electricity lost in transformation, transmission and distribution system and electricity unaccounted worked out to 270701.47 GWh representing 20.46% of the total available electricity. Amongst all the regions percentage system losses were maximum in North-Eastern Region i.e. 29.98%. This was followed by Western Region with 22.49%, Northern Region 21.30%, Eastern Region with 20.90% and Southern Region with 16.64% 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**  
**2019-20**

Sl. No.	Item	Energy (GWh)	Percentage (%) of Sl. 1
1	Gross Energy Generated (Utilities)	1383416.75	100.00
2	Energy Used in Power Station Auxiliaries	83300.75	6.02
3	Net Energy at bus bars (1-2)	1300116.00	93.98
			<b>Percentage (%) of sl. 4</b>
4	Energy at bus bars (same as 3)	1300116.00	100.00
5	Energy purchased from Non-Utilities	26072.15	2.01
6	Energy Imported from other country	6350.60	0.49
7	Total Energy Available (4+5+6)	1332538.74	102.49
8	Energy sold to other countries	9490.91	0.73
9	Net Energy Available for Supply (7-8)	1323047.83	101.76
			<b>Percentage (%) of sl. 10</b>
10	Net Energy available for supply (same as 9)	1323047.83	100.00
11	*Energy sold to ultimate consumers	1052346.36	79.54
12	Energy loss in transformation, transmission and distribution and unaccounted for (10-11)	270701.47	20.46

NOTE : \* Includes metered and assessed supply to agricultural consumers.



**Table 6.2**  
**Regional Transmission Losses**  
**Utilities**  
**2019-20**

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 (GWh)	Transmission Losses (GWh)	Transmission Losses (%)
1	2	3	4	5	6	7	8 (2-3-4-5-6-7)	9 ((8/2)x100)
Northern Region	225320.77	17636.41	208.86	0.00	0.00	199171.75	8303.75	3.69
Western Region	260447.34	108274.78	0.00	0.00	0.00	143055.15	9117.41	3.50
Southern Region	153114.31	1121.88	0.00	0.00	0.00	146504.84	5487.59	3.58
Eastern Region	120154.05	45079.86	2171.55	6046.81	0.00	62672.86	4182.97	3.48
North Eastern Region	17756.47	3634.18	0.00	1055.00	8.69	12378.43	680.17	3.83

**Table 6.3**  
**Regionwise Energy Generated, Purchased, Sold and Losses**  
**Utilities**  
**2019-20**

Sl. No.	ITEM	NORTHERN	WESTERN	SOUTHERN	EASTERN	NORTH-EAST	ALL INDIA
1	Own Including IPP & others Ex-bus Generation (GWh)	187204.31	242106.46	195148.42	77606.76	3354.82	705420.77
2	Ex-bus import from cpp (GWh)	2537.40	8500.17	12079.96	2926.82	27.81	26072.15
3	Energy available for drawal from grid including import from other country (GWh)	207684.36	152172.56	151992.43	75074.19	14122.29	601045.83
4	Total Energy Available (GWh) (1+2+3)	397426.07	402779.18	359220.81	155607.76	17504.92	1332538.74
5	Energy Sold/Export to other countries (GWh)	208.86	0.00	0.00	8218.36	1063.69	9490.91
6	Net Energy available for supply/Availability Ex-bus (GWh) (4-5)	397217.21	402779.18	359220.81	147389.40	16441.23	1323047.83
7	Energy sold to ultimate consumers (GWh)	312608.20	312199.42	299444.17	116582.90	11511.67	1052346.36
8	Energy loss in transformation, transmission and distribution and unaccounted for (GWh) (6-7)	84609.01	90579.76	59776.64	30806.50	4929.56	270701.47
9	Percentage loss (%) $(= (8/6) * 100)$	21.30	22.49	16.64	20.90	29.98	20.46



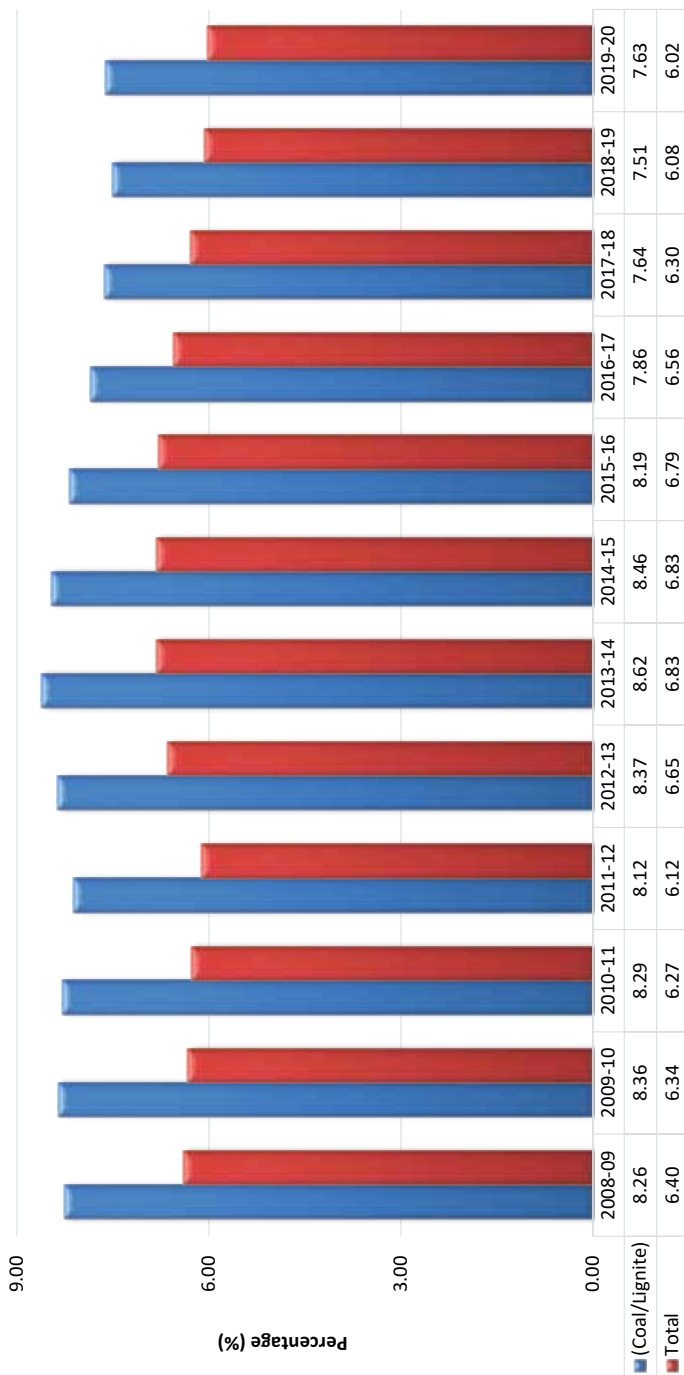
**Table 6.4**  
**STATE-WISE SYSTEM LOSSES IN THE YEAR**  
**2019-20**

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	
							2019-20 (7*100/5)	2018-19
							GWh	GWh
1	2	3	4	5	6	7	8	9
Chandigarh	13.33	1878.01	0.00	1891.35	1603.81	287.54	15.20	17.09
Delhi	5985.71	28047.61	0.00	34033.32	29812.02	4221.29	12.40	12.56
Haryana	13298.15	42706.48	11.05	56015.67	43382.05	12633.62	22.55	22.78
Himachal Pradesh	6607.91	4039.60	0.30	10647.82	9123.99	1523.83	14.31	14.29
Jammu & Kashmir & Ladakh	5751.06	11174.94	0.00	16926.00	10622.85	6303.15	37.24	42.19
Punjab	26957.36	31391.56	152.95	58501.87	49168.06	9333.81	15.95	14.73
Rajasthan	56463.18	24483.88	848.20	81795.26	61941.93	19853.33	24.27	24.80
Uttar Pradesh	63771.30	57070.06	1524.79	122366.16	94932.13	27434.03	22.42	21.21
Uttarakhand	8356.30	6683.35	0.11	15039.76	12021.35	3018.40	20.07	22.23
<b>NORTHERN REGION</b>	<b>187204.31</b>	<b>207475.50</b>	<b>2537.40</b>	<b>397217.21</b>	<b>312608.20</b>	<b>84609.01</b>	<b>21.30</b>	<b>21.17</b>
Chhattisgarh	13128.68	12532.32	5061.12	30722.12	22793.08	7929.04	25.81	25.14
Gujarat	84647.99	32195.30	768.39	117611.68	92245.12	25366.56	21.57	20.30
Madhya Pradesh	39155.36	41447.20	39.48	80642.04	58628.43	22013.60	27.30	27.65
Maharashtra	105145.59	51944.69	2425.17	159515.46	125644.95	33870.51	21.23	19.46
Daman & Diu	21.83	2706.54	0.00	2728.37	2495.67	232.70	8.53	12.41
D & N Haveli	6.19	6946.14	0.00	6952.33	6287.98	664.35	9.56	10.66
Goa	0.82	4400.37	206.00	4607.19	4104.19	502.99	10.92	16.23
<b>WESTERN REGION</b>	<b>242106.46</b>	<b>152172.56</b>	<b>8500.17</b>	<b>402779.18</b>	<b>312199.42</b>	<b>90579.76</b>	<b>22.49</b>	<b>21.47</b>
Andhra Pradesh	46691.46	20833.11	1281.48	68806.06	57118.77	11687.28	16.99	17.62
Telangana	39410.50	29234.18	1424.69	70069.37	59364.54	10704.83	15.28	14.85
Karnataka	51139.14	20530.73	2164.15	73834.02	61130.64	12703.38	17.21	16.01
Kerala	6182.50	20889.83	82.01	27154.34	23148.94	4005.40	14.75	16.39
Tamil Nadu	51429.80	57552.19	7127.63	116109.61	95919.07	20190.54	17.39	19.12
Puducherry	245.46	2952.38	0.00	3197.84	2713.78	484.06	15.14	13.26
Lakshadweep	49.56	0.00	0.00	49.56	48.42	1.14	2.30	2.24
<b>SOUTHERN REGION</b>	<b>195148.42</b>	<b>151992.43</b>	<b>12079.96</b>	<b>359220.81</b>	<b>299444.17</b>	<b>59776.64</b>	<b>16.64</b>	<b>17.10</b>
Bihar	358.43	32489.95	106.00	32954.38	22708.58	10245.80	31.09	32.51
Jharkhand	19646.32	6548.79	226.43	26421.53	21997.03	4424.50	16.75	18.37
Odisha	16058.99	8313.81	2408.21	26781.01	20715.89	6065.12	22.65	34.94
West Bengal	41192.36	18938.07	186.18	60316.61	50481.54	9835.07	16.31	18.33
Sikkim	60.61	565.20	0.00	625.82	411.35	214.47	34.27	32.72
A. & N. Islands	290.05	0.00	0.00	290.05	268.50	21.55	7.43	10.84
<b>EASTERN REGION</b>	<b>77606.76</b>	<b>66855.83</b>	<b>2926.82</b>	<b>147389.40</b>	<b>116582.90</b>	<b>30806.50</b>	<b>20.90</b>	<b>24.74</b>
Arunachal Pradesh	2.23	788.57	0.00	790.80	418.69	372.11	47.05	50.83
Assam	1441.01	8397.49	27.81	9866.32	7109.00	2757.32	27.95	23.98
Manipur	4.20	960.02	0.00	964.22	631.16	333.06	34.54	35.61
Meghalaya	1075.91	1042.57	0.00	2118.48	1259.48	859.00	40.55	43.12
Mizoram	49.20	573.88	0.00	623.08	486.40	136.68	21.94	25.21
Nagaland	75.58	795.28	0.00	870.87	692.72	178.15	20.46	20.67
Tripura	706.67	500.80	0.00	1207.47	914.22	293.25	24.29	26.70
<b>NORTH EASTERN REGION</b>	<b>3354.82</b>	<b>13058.60</b>	<b>27.81</b>	<b>16441.23</b>	<b>11511.67</b>	<b>4929.56</b>	<b>29.98</b>	<b>28.59</b>
<b>All India</b>	<b>705420.77</b>	<b>591554.92</b>	<b>26072.15</b>	<b>1323047.83</b>	<b>1052346.36</b>	<b>270701.47</b>	<b>20.46</b>	<b>20.66</b>
<b>Export to Other Countries</b>				<b>9490.91</b>				

(\*) 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**  
**2019-20**

(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	223.87	0.00	168.27	0.00	0.00	392.14
Haryana	9.57	1432.56	0.00	14.13	0.00	0.00	1456.26
Himachal Pradesh	83.17	0.00	0.00	0.00	0.00	2.50	85.67
Jammu & Kashmir & Ladakh	14.10	0.00	0.00	0.00	0.00	0.00	14.10
Punjab	25.25	1966.00	0.00	14.13	0.00	0.70	2006.08
Rajasthan	10.29	4180.39	0.00	31.52	0.00	2.05	4224.25
Uttar Pradesh	13.55	4466.42	0.00	0.00	0.00	0.22	4480.19
Uttarakhand	78.52	49.57	0.00	55.50	0.00	2.59	186.17
Central Sector	471.22	4795.99	0.00	126.24	1230.50	0.69	6624.64
<b>NORTHERN REGION</b>	<b>705.66</b>	<b>17114.80</b>	<b>0.00</b>	<b>409.79</b>	<b>1230.50</b>	<b>8.74</b>	<b>19469.50</b>
Chhattisgarh	0.71	5412.08	0.00	0.00	0.00	1.97	5414.76
Gujarat	22.66	5980.63	0.00	495.18	0.00	10.81	6509.28
Madhya Pradesh	50.08	4061.20	0.00	0.00	0.00	0.72	4112.00
Maharashtra	92.37	8007.25	0.00	101.19	0.00	6.00	8206.82
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	15.76	6531.16	0.00	146.56	1305.00	2.25	8000.73
<b>WESTERN REGION</b>	<b>181.59</b>	<b>29992.31</b>	<b>0.00</b>	<b>742.93</b>	<b>1305.00</b>	<b>21.75</b>	<b>32243.58</b>
Andhra Pradesh	14.19	3714.45	0.00	91.90	0.00	2.78	3823.32
Telangana	64.09	2009.39	0.00	0.00	0.00	1.26	2074.74
Karnataka	94.59	1644.46	0.00	0.00	0.00	4.86	1743.91
Kerala	35.54	0.00	1.03	0.00	0.00	1.49	38.07
Tamil Nadu	20.17	2665.34	0.00	170.32	0.00	9.71	2865.53
Puducherry	0.00	0.00	0.00	14.47	0.00	0.00	14.47
Lakshadweep	0.00	0.00	4.14	0.00	0.00	0.00	4.14
Central Sector	0.00	4762.22	0.00	0.00	1834.00	0.00	6596.22
<b>SOUTHERN REGION</b>	<b>228.58</b>	<b>14795.87</b>	<b>5.17</b>	<b>276.70</b>	<b>1834.00</b>	<b>20.10</b>	<b>17160.41</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.25	0.25
Jharkhand	0.04	1071.18	0.00	0.00	0.00	0.00	1071.22
Odisha	23.21	1437.49	0.00	0.00	0.00	0.11	1460.81
West Bengal	22.65	2970.54	0.00	0.00	0.00	0.90	2994.08
Sikkim	31.03	0.00	0.00	0.00	0.00	0.00	31.03
A.& N. Islands	0.00	0.00	5.33	0.00	0.00	0.63	5.96
Central Sector	44.56	8090.56	0.00	0.00	0.00	0.13	8135.25
<b>EASTERN REGION</b>	<b>121.49</b>	<b>13569.77</b>	<b>5.33</b>	<b>0.00</b>	<b>0.00</b>	<b>2.01</b>	<b>13698.60</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.68	0.00	0.00	67.36	0.00	0.11	68.15
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	2.97	0.00	0.00	0.00	0.00	2.14	5.11
Mizoram	0.00	0.00	0.00	0.00	0.00	0.80	0.80
Nagaland	0.00	0.00	0.00	0.00	0.00	0.29	0.29
Tripura	0.00	0.00	0.00	6.86	0.00	0.18	7.04
Central Sector	34.44	362.00	0.00	250.47	0.00	0.34	647.26
<b>NORTH EASTERN REGION</b>	<b>38.09</b>	<b>362.00</b>	<b>0.00</b>	<b>324.70</b>	<b>0.00</b>	<b>3.87</b>	<b>728.65</b>
<b>All India</b>	<b>1275.41</b>	<b>75834.75</b>	<b>10.50</b>	<b>1754.11</b>	<b>4369.50</b>	<b>56.47</b>	<b>83300.75</b>



**Table 6.5.1**  
**TOTAL AUXILIARY CONSUMPTION REGION-WISE/STATE-WISE**  
**UTILITIES**  
**2019-20**

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	13.33	13.33	0.00	0.00
Delhi	9406.19	9014.05	392.14	4.17
Haryana	21438.61	19982.35	1456.26	6.79
Himachal Pradesh	12602.68	12517.01	85.67	0.68
Jammu & Kashmir & Ladakh	6184.17	6170.07	14.10	0.23
Punjab	37999.91	35993.83	2006.08	5.28
Rajasthan	65632.51	61408.26	4224.25	6.44
Uttar Pradesh	69636.21	65156.02	4480.19	6.43
Uttarakhand	12440.50	12254.33	186.17	1.50
Central Sector	130609.36	123984.72	6624.64	5.07
<b>NORTHERN REGION</b>	<b>365963.46</b>	<b>346493.96</b>	<b>19469.50</b>	<b>5.32</b>
Chhattisgarh	71515.06	66100.30	5414.76	7.57
Gujarat	101431.90	94922.62	6509.28	6.42
Madhya Pradesh	68895.39	64783.39	4112.00	5.97
Maharashtra	125609.85	117403.03	8206.82	6.53
Daman & Diu	21.83	21.83	0.00	0.00
D & N Haveli	6.19	6.19	0.00	0.00
Goa	0.82	0.82	0.00	0.00
Central Sector	122028.47	114027.74	8000.73	6.56
<b>WESTERN REGION</b>	<b>489509.51</b>	<b>457265.93</b>	<b>32243.58</b>	<b>6.59</b>
Andhra Pradesh	66162.86	62339.54	3823.32	5.78
Telangana	41829.95	39755.21	2074.74	4.96
Karnataka	58714.64	56970.74	1743.91	2.97
Kerala	6220.57	6182.50	38.07	0.61
Tamil Nadu	60907.68	58042.15	2865.53	4.70
Puducherry	259.94	245.46	14.47	5.57
Lakshadweep	53.70	49.56	4.14	7.71
Central Sector	82475.33	75879.11	6596.22	8.00
<b>SOUTHERN REGION</b>	<b>316624.68</b>	<b>299464.26</b>	<b>17160.41</b>	<b>5.42</b>
Bihar	358.68	358.43	0.25	0.07
Jharkhand	13461.65	12390.42	1071.22	7.96
Odisha	25547.21	24086.40	1460.81	5.72
West Bengal	36922.44	33928.35	2994.08	8.11
Sikkim	3672.14	3641.11	31.03	0.84
A. & N. Islands	146.01	140.05	5.96	4.08
Central Sector	113276.55	105141.30	8135.25	7.18
<b>EASTERN REGION</b>	<b>193384.67</b>	<b>179686.07</b>	<b>13698.60</b>	<b>7.08</b>
Arunachal Pradesh	2.23	2.23	0.00	0.00
Assam	1509.16	1441.01	68.15	4.52
Manipur	4.20	4.20	0.00	0.00
Meghalaya	1081.02	1075.91	5.11	0.47
Mizoram	50.00	49.20	0.80	1.60
Nagaland	75.87	75.58	0.29	0.38
Tripura	713.71	706.67	7.04	0.99
Central Sector	14498.22	13850.96	647.26	4.46
<b>NORTH EASTERN REGION</b>	<b>17934.42</b>	<b>17205.77</b>	<b>728.65</b>	<b>4.06</b>
<b>All India</b>	<b>1383416.75</b>	<b>1300116.00</b>	<b>83300.75</b>	<b>6.02</b>

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



**Table 6.5.2**  
**AUXILIARY CONSUMPTION FOR HYDRO POWER PLANTS REGION-WISE/STATE-WISE**  
**UTILITIES**  
**2019-20**

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	1007.13	997.56	9.57	0.95
Himachal Pradesh	10435.44	10352.27	83.17	0.80
Jammu & Kashmir & Ladakh	5741.04	5726.94	14.10	0.25
Punjab	5647.37	5622.12	25.25	0.45
Rajasthan	941.52	931.23	10.29	1.09
Uttar Pradesh	2123.84	2110.29	13.55	0.64
Uttarakhand	8426.24	8347.72	78.52	0.93
Central Sector	50338.77	49867.55	471.22	0.94
<b>NORTHERN REGION</b>	<b>84661.35</b>	<b>83955.69</b>	<b>705.66</b>	<b>0.83</b>
Chhattisgarh	236.79	236.08	0.71	0.30
Gujarat	1905.99	1883.33	22.66	1.19
Madhya Pradesh	4766.59	4716.51	50.08	1.05
Maharashtra	6863.51	6771.14	92.37	1.35
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	4165.60	4149.84	15.76	0.38
<b>WESTERN REGION</b>	<b>17938.48</b>	<b>17756.89</b>	<b>181.59</b>	<b>1.01</b>
Andhra Pradesh	3288.12	3273.93	14.19	0.43
Telangana	4828.05	4763.96	64.09	1.33
Karnataka	13834.16	13739.57	94.59	0.68
Kerala	5454.04	5418.50	35.54	0.65
Tamil Nadu	4765.24	4745.07	20.17	0.42
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
<b>SOUTHERN REGION</b>	<b>32169.61</b>	<b>31941.03</b>	<b>228.58</b>	<b>0.71</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	36.12	36.08	0.04	0.12
Odisha	6313.18	6289.97	23.21	0.37
West Bengal	1511.75	1489.11	22.65	1.50
Sikkim	3611.52	3580.49	31.03	0.86
A. & N. Islands	0.00	0.00	0.00	0.00
Central Sector	4706.22	4661.66	44.56	0.95
<b>EASTERN REGION</b>	<b>16178.79</b>	<b>16057.30</b>	<b>121.49</b>	<b>0.75</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	384.30	383.62	0.68	0.18
Manipur	0.00	0.00	0.00	0.00
Meghalaya	1018.29	1015.32	2.97	0.29
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	3418.30	3383.86	34.44	1.01
<b>NORTH EASTERN REGION</b>	<b>4820.89</b>	<b>4782.80</b>	<b>38.09</b>	<b>0.79</b>
<b>All India</b>	<b>155769.12</b>	<b>154493.71</b>	<b>1275.41</b>	<b>0.82</b>

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

**Table 6.5.3**  
**AUXILIARY CONSUMPTION FOR COAL & LIGNITE POWER PLANTS REGION-WISE/STATE-WISE UTILITIES**  
**2019-20**

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	3764.19	3540.32	223.87	5.95
Haryana	19306.09	17873.53	1432.56	7.42
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00
Punjab	29214.72	27248.72	1966.00	6.73
Rajasthan	50306.73	46126.34	4180.39	8.31
Uttar Pradesh	62413.42	57947.00	4466.42	7.16
Uttarakhand	833.52	783.95	49.57	5.95
Central Sector	64143.94	59347.95	4795.99	7.48
<b>NORTHERN REGION</b>	<b>229982.61</b>	<b>212867.81</b>	<b>17114.80</b>	<b>7.44</b>
Chhattisgarh	70170.40	64758.33	5412.08	7.71
Gujarat	70680.54	64699.91	5980.63	8.46
Madhya Pradesh	56285.52	52224.32	4061.20	7.22
Maharashtra	101080.28	93073.03	8007.25	7.92
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	96737.52	90206.36	6531.16	6.75
<b>WESTERN REGION</b>	<b>394954.26</b>	<b>364961.95</b>	<b>29992.31</b>	<b>7.59</b>
Andhra Pradesh	46266.36	42551.91	3714.45	8.03
Telangana	30221.73	28212.34	2009.39	6.65
Karnataka	19232.06	17587.60	1644.46	8.55
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	33799.25	31133.91	2665.34	7.89
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	61457.33	56695.11	4762.22	7.75
<b>SOUTHERN REGION</b>	<b>190976.73</b>	<b>176180.86</b>	<b>14795.87</b>	<b>7.75</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	13402.63	12331.45	1071.18	7.99
Odisha	18464.61	17027.12	1437.49	7.79
West Bengal	33934.37	30963.83	2970.54	8.75
Sikkim	0.00	0.00	0.00	0.00
A. & N. Islands	0.00	0.00	0.00	0.00
Central Sector	108551.82	100461.26	8090.56	7.45
<b>EASTERN REGION</b>	<b>174353.43</b>	<b>160783.66</b>	<b>13569.77</b>	<b>7.78</b>
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	3929.96	3567.96	362.00	9.21
<b>NORTH EASTERN REGION</b>	<b>3929.96</b>	<b>3567.96</b>	<b>362.00</b>	<b>9.21</b>
<b>All India</b>	<b>994196.99</b>	<b>918362.24</b>	<b>75834.75</b>	<b>7.63</b>

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

**Table 6.5.4**  
**AUXILIARY CONSUMPTION FOR DIESEL POWER PLANTS REGIONWISE/STATEWISE**  
**UTILITIES**  
**2019-20**

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 & Ladakh	0.00	0.00	0.00	0.00
Punjab	0.00	0.00	0.00	0.00
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
<b>NORTHERN REGION</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
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
<b>WESTERN REGION</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
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	12.04	11.01	1.03	8.59
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
<b>SOUTHERN REGION</b>	<b>65.09</b>	<b>59.91</b>	<b>5.17</b>	<b>7.95</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Odisha	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
A. & N. Islands	133.44	128.11	5.33	3.99
Central Sector	0.00	0.00	0.00	0.00
<b>EASTERN REGION</b>	<b>133.44</b>	<b>128.11</b>	<b>5.33</b>	<b>3.99</b>
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
<b>NORTH EASTERN REGION</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>All India</b>	<b>198.53</b>	<b>188.02</b>	<b>10.50</b>	<b>5.29</b>

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

**Table 6.5.5**  
**AUXILIARY CONSUMPTION FOR GAS POWER PLANTS REGION - WISE/STATE - WISE**  
**UTILITIES**  
**2019-20**

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	5218.31	5050.04	168.27	3.22
Haryana	398.40	384.27	14.13	3.55
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00
Punjab	398.40	384.27	14.13	3.55
Rajasthan	731.37	699.85	31.52	4.31
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	1986.79	1931.29	55.50	2.79
Central Sector	3153.84	3027.60	126.24	4.00
<b>NORTHERN REGION</b>	<b>11887.11</b>	<b>11477.32</b>	<b>409.79</b>	<b>3.45</b>
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	11696.45	11201.27	495.18	4.23
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	3735.32	3634.13	101.19	2.71
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	6082.69	5936.13	146.56	2.41
<b>WESTERN REGION</b>	<b>21514.46</b>	<b>20771.53</b>	<b>742.93</b>	<b>3.45</b>
Andhra Pradesh	3013.62	2921.72	91.90	3.05
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	2869.99	2699.67	170.32	5.93
Puducherry	255.79	241.32	14.47	5.66
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
<b>SOUTHERN REGION</b>	<b>6139.40</b>	<b>5862.70</b>	<b>276.70</b>	<b>4.51</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Odisha	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
A. & N. Islands	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
<b>EASTERN REGION</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	1104.61	1037.25	67.36	6.10
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	687.62	680.76	6.86	1.00
Central Sector	7109.44	6858.97	250.47	3.52
<b>NORTH EASTERN REGION</b>	<b>8901.67</b>	<b>8576.97</b>	<b>324.70</b>	<b>3.65</b>
<b>All India</b>	<b>48442.64</b>	<b>46688.53</b>	<b>1754.11</b>	<b>3.62</b>

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



**Table 6.5.6**  
**AUXILIARY CONSUMPTION FOR NUCLEAR POWER PLANTS REGION - WISE/STATE - WISE**  
**UTILITIES**  
**2019-20**

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 & Ladakh	0.00	0.00	0.00	0.00
Punjab	0.00	0.00	0.00	0.00
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Central Sector	12242.87	11012.37	1230.50	10.05
<b>NORTHERN REGION</b>	<b>12242.87</b>	<b>11012.37</b>	<b>1230.50</b>	<b>10.05</b>
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	13965.03	12660.03	1305.00	9.34
<b>WESTERN REGION</b>	<b>13965.03</b>	<b>12660.03</b>	<b>1305.00</b>	<b>9.34</b>
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	20264.55	18430.55	1834.00	9.05
<b>SOUTHERN REGION</b>	<b>20264.55</b>	<b>18430.55</b>	<b>1834.00</b>	<b>9.05</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Odisha	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
A. & N. Islands	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
<b>EASTERN REGION</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
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
<b>NORTH EASTERN REGION</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>All India</b>	<b>46472.45</b>	<b>42102.95</b>	<b>4369.50</b>	<b>9.40</b>

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



CHAPTER 7  
OPERATING DATA  
UTILITIES









## CHAPTER 7

# OPERATING DATA UTILITIES

### FUEL CONSUMPTION

There are 177 Nos. of Coal fired thermal stations operating in the country as on 31.03.2020. CEA is monitoring fuel consumption of 169 stations having Installed Capacity 198540 MW. For the year 2019-20, the Coal consumption of 169 stations was 622.22 Million Tonnes.

### THERMAL EFFICIENCY

The total numbers of Coal/Lignite/Multi-fuel Power Stations ending March 2020 were 190 having an aggregate installed capacity of 205135 MW. Out of these, 177 Stations are coal fired and 13 are of Lignite fired.

CEA has received actual data of 148 Thermal Power Stations. These Thermal Power Stations have capacity of 179689 MW. On analyzing, it was found that 2.03% stations are operating below 25%, 8.78% stations are operating at 25% to 30%, 33.11% stations are operating at 30% to 35% and 56.08% stations are operating at above 35% efficiency.

### PLANT LOAD FACTOR

Under Private Sector, Gujarat recorded the highest PLF of 70.77%. All India Plant Load factors of Central Sector Thermal Power Stations were 64.21% and the All India Plant Load Factors of State and Private Sector of Thermal Power Stations were 50.24% and 47.00% respectively. All India PLF of all Nuclear Power Stations in the country was 78.03%.

### 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**  
**2019-20**

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	8326	1055	5644	0	0	0	12919
Himachal Pradesh	0	0	0	0	0	0	
Jammu & Kashmir & Ladakh	0	0	0	0	0	0	
Punjab	12090	8395	0	0	0	0	20902
Rajasthan	22261	8565	15252	5277	0	5314	44323
Uttar Pradesh	36865	16418	4902	2815	0	0	58246
Uttarakhand	0	0	0	0	0	0	
Central Sector (NR)	39767	3134	41062	0	0	1342	64144
<b>Sub-Total (NR)</b>	<b>119309</b>	<b>37567</b>	<b>66860</b>	<b>8092</b>	<b>0</b>	<b>6656</b>	<b>200534</b>
Chhattisgarh	46930	10004	8030	0	0	0	70170
Gujarat	40801	25948	6034	715	0	6234	84591
Madhya Pradesh	48505	13804	13273	0	0	0	77124
Maharashtra	65312	3872	78140	0	416	0	95781
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)	65479	18354	25056	0	0	0	96738
<b>Sub-Total (WR)</b>	<b>267027</b>	<b>71982</b>	<b>130533</b>	<b>715</b>	<b>416</b>	<b>6234</b>	<b>424403</b>
Andhra Pradesh	30966	12847	1151	0	0	0	46266
Telangana	19292	12408	5008	0	0	0	30222
Karnataka	12018	13998	2238	0	576828	0	19232
Kerala	0	0	0	0	0	0	0
Tamil Nadu	21424	15006	2725	960	0	1472	33799
Puducherry	0	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0	0
Central Sector (SR)	27838	31477	12802	0	0	20480	61457
<b>Sub-Total (SR)</b>	<b>111538</b>	<b>85736</b>	<b>23924</b>	<b>960</b>	<b>576828</b>	<b>21952</b>	<b>190977</b>
Bihar	0	0	0	0	0	0	0
Jharkhand	8607	5756	1162	0	0	0	13403
Odisha	13793	4868	3126	0	0	0	18465
West Bengal	22324	0	32244	0	0	0	33934
Sikkim	0	0	0	0	0	0	0
A. & N. Islands	0	0	0	0	0	0	0
Central Sector (ER)	77292	44467	26628	0	0	0	108552
<b>Sub-Total (ER)</b>	<b>122017</b>	<b>55091</b>	<b>63160</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>174353</b>
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)	2325	0	3180	0	0	0	3930
<b>Sub-Total (NER)</b>	<b>2325</b>	<b>0</b>	<b>3180</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3930</b>
<b>Total (All India)</b>	<b>622217</b>	<b>250376</b>	<b>287657</b>	<b>9767</b>	<b>577244</b>	<b>34842</b>	<b>994197</b>

\* 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**  
**2019-20**

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	1277	0	0	6015	0	0	0
Haryana	0	0	0	0	0	0	0
Himachal Pradesh	0	0	0	0	0	0	0
Jammu & Kashmir & Ladakh	0	0	0	0	0	0	0
Punjab	0	0	0	0	0	0	0
Rajasthan	327	1	0	731	0	0	0
Uttar Pradesh	0	0	0	0	0	0	0
Uttarakhand	421	0	0	1987	0	0	0
Central Sector (NR)	748	0	0	3154	0	0	0
<b>Sub-Total (NR)</b>	<b>2772</b>	<b>1</b>	<b>0</b>	<b>11887</b>	<b>0</b>	<b>0</b>	<b>0</b>
Chhattisgarh	0	0	0	0	0	0	0
Gujarat	2189	0	0	11696	0	0	0
Madhya Pradesh	0	0	0	0	0	0	0
Maharashtra	897	0	0	3735	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)	1242	0	0	6083	0	0	0
<b>Sub-Total (WR)</b>	<b>4329</b>	<b>0</b>	<b>0</b>	<b>21514</b>	<b>0</b>	<b>0</b>	<b>0</b>
Andhra Pradesh	687	0	0	3014	0	0	0
Telangana	0	0	0	0	0	0	0
Karnataka	0	0	0	0	0	0	0
Kerala	0	0	0	0	931	166	12
Tamil Nadu	629	0	0	2870	0	0	0
Puducherry	63	0	0	256	0	0	0
Lakshadweep	0	0	0	0	0	14765	53
Central Sector (SR)	0	0	0	0	0	0	0
<b>Sub-Total (SR)</b>	<b>1379</b>	<b>0</b>	<b>0</b>	<b>6139</b>	<b>931</b>	<b>14931</b>	<b>65</b>
Bihar	0	0	0	0	0	0	0
Jharkhand	0	0	0	0	0	0	0
Odisha	0	0	0	0	0	0	0
West Bengal	0	0	0	0	0	0	0
Sikkim	0	0	0	0	0	0	0
A.& N. Islands	0	0	0	0	0	78589	133
Central Sector (ER)	0	0	0	0	0	0	0
<b>Sub-Total (ER)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>78589</b>	<b>133</b>
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	389	0	0	1105	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	305	0	0	688	0	0	0
Central Sector (NER)	1624	0	0	7109	0	0	0
<b>Sub-Total (NER)</b>	<b>2319</b>	<b>0</b>	<b>0</b>	<b>8902</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total (All India)</b>	<b>10799</b>	<b>1</b>	<b>0</b>	<b>48443</b>	<b>931</b>	<b>93519</b>	<b>199</b>

MMSCM:-Million Metric Standard Cubic Metre.



**Table 7.2**  
**CLASSIFICATION OF STEAM TYPE ELECTRICITY GENERATING STATIONS**  
**EFFICIENCY-WISE**  
**2019-20**

Thermal Efficiency	Percentage(%) of Generating Stations
Up to 25%	2.03
Above 25% & up to 30%	8.78
Above 30% & up to 35%	33.11
Above 35%	56.08
<b>Total</b>	<b>100.00</b>

\* Efficiency has been worked out on the basis of data available for 148 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
2019-20	35.69



**Table 7.3**  
**SALIENT OPERATING DATA FOR COAL/LIGNITE BASED ELECTRICITY GENERATING PLANTS**  
**(UTILITIES)**  
**2019-20**

Sl. No.	Item	Coal	Lignite	Furnace Oil	Diesel	LSHS & HHS
<b>1</b>	<b>Fuel Consumption of Coal Lignite Power Stations.</b>	<b>(MMT)</b>	<b>(MMT)</b>	<b>(K.Ltrs.)</b>	<b>(K.Ltrs.)</b>	<b>(K.Ltrs.)</b>
	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
	2019-20	622	35	250376	287657	9767
<b>2</b>	<b>Average Calorific Value</b>	<b>(kcal/kg)</b>	<b>(kcal/kg)</b>	<b>(kcal/litr)</b>	<b>(kcal/litr)</b>	<b>(kcal/litr)</b>
	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
	2019-20	3648	2683	9959	9851	9963
<b>3</b>	<b>Specific Fuel Consumption</b>	<b>(kg/kWh)</b>	<b>(kg/kWh)</b>			
	2009-10	0.70	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.
	2019-20	0.65	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**  
**2019-20**

State/UTs	Peak Demand	Peak Met	Demand Not Met	
	(MW)	(MW)	(MW)	%
Chandigarh	431	431	0	0.00
Delhi	7,409	7,409	0	0.00
Haryana	11,001	11,001	0	0.00
Himachal Pradesh	1,786	1,786	0	0.00
Jammu & Kashmir & Ladakh	3,405	2,724	681	20.00
Punjab	13,606	13,606	0	0.00
Rajasthan	14,277	14,277	0	0.00
Uttar Pradesh	22,599	22,057	542	2.40
Uttarakhand	2,233	2,233	0	0.00
<b>NORTHERN REGION</b>	<b>66,559</b>	<b>65,865</b>	<b>694</b>	<b>1.04</b>
Chhattisgarh	4,746	4,736	10	0.21
Gujarat	18,437	18,424	13	0.07
Madhya Pradesh	14,886	14,855	31	0.21
Maharashtra	24,550	24,550	0	0.00
Daman & Diu	351	350	1	0.17
Dadra & Nagar Haveli	826	826	0	0.00
Goa	625	625	0	0.00
<b>WESTERN REGION</b>	<b>59,416</b>	<b>59,416</b>	<b>0</b>	<b>0.00</b>
Andhra Pradesh	10,225	10,207	18	0.17
Telangana	13,168	13,168	0	0.00
Karnataka	13,272	13,258	14	0.10
Kerala	4,487	4,300	186	4.15
Tamil Nadu	15,727	15,668	59	0.37
Puducherry	470	470	0	0.02
Lakshadweep #	8	8	0	0.00
<b>SOUTHERN REGION</b>	<b>53,579</b>	<b>53,465</b>	<b>114</b>	<b>0.21</b>
Bihar	5,835	5,789	46	0.79
DVC	3,014	3,014	0	0.00
Jharkhand	1,396	1,389	6	0.46
Odisha	5,292	5,292	0	0.00
West Bengal	9,263	9,088	175	1.89
Sikkim	115	115	0	0.04
Andaman Nicobar #	58	54	4	6.90
<b>EASTERN REGION</b>	<b>23,421</b>	<b>23,398</b>	<b>22</b>	<b>0.10</b>
Arunachal Pradesh	158	152	6	3.50
Assam	2193	1956	237	10.81
Manipur	226	218	8	3.55
Meghalaya	371	371	0	0.00
Mizoram	133	132	0	0.15
Nagaland	186	169	17	9.31
Tripura*	320	311	9	2.73
<b>NORTH EAST REGION</b>	<b>2,989</b>	<b>2,878</b>	<b>111</b>	<b>3.70</b>
<b>ALL INDIA</b>	<b>1,83,804</b>	<b>1,82,533</b>	<b>1271</b>	<b>0.69</b>

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

\* Excludes the supply to Bangladesh.

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



**Table 7.5  
MANPOWER ENGAGED IN STATE POWER  
CORPORATIONS/ UNDERTAKINGS  
AS ON 31.03.2020 (AS REPORTED)**

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Operating Staff	Non-Technical	Total (Regular)
						(2 to 6)
1	2	3	4	5	6	7
<b>NORTHERN REGION</b>						
<b>(1) Chandigarh</b>	<b>0</b>	<b>43</b>	<b>92</b>	<b>675</b>	<b>196</b>	<b>1006</b>
<b>(2) Delhi</b>						
(a) IPGCL+PPCL	13	265	103	327	251	<b>959</b>
(b) Delhi Transco Ltd.	NA	NA	NA	NA	NA	<b>NA</b>
<b>(3) Haryana</b>						
(a) HPGCL	3	511	220	835	439	<b>2008</b>
(b) Uttar Haryana BVNL	13	331	0	0	17849	<b>18193</b>
(c) Dakshin Haryana BVN	11	220	1159	5474	1641	<b>8505</b>
<b>(4) Himachal Pradesh SEBL</b>	<b>20</b>	<b>16</b>	<b>13150</b>	<b>0</b>	<b>609</b>	<b>13795</b>
<b>(5) J&amp;K PDC(R)</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>(6) Punjab</b>						
(a) Punjab State Power Corpn. Ltd	1851	6253	22860	0	4310	<b>35274</b>
(b) Punjab State Transmission Corpn. Ltd	8	400	446	1311	566	<b>2731</b>
<b>(7) Rajasthan</b>						
(a) RRVUNL	11	1364	804	1305	635	<b>4119</b>
(b) RRVPNL	0	1453	1778	4005	1093	<b>8329</b>
(c) Jaipur VVN Ltd.	558		974	13920	3492	<b>18944</b>
(d) Ajmer VVN Ltd.	7	434	1030	11293	2580	<b>15344</b>
(e) Jodhpur VVN Ltd.	10	391	976	9823	2458	<b>13658</b>
<b>(8) Uttar Pradesh</b>						
(a) UPRVUNL	28	1345	943	2788	1332	<b>6436</b>
(b) MVVNL(Lucknow UP)	NA	NA	NA	NA	NA	<b>NA</b>
(c) DVVNL(Agra UP)	NA	NA	NA	NA	NA	<b>NA</b>
(d) KESCO(KANPUR)	3	149	0	323	1132	<b>1607</b>
(e) Pur.VVNL(Varanasi UP)	NA	NA	NA	NA	NA	<b>NA</b>
(f) Paschi.VVNL(Meerut UP)	NA	NA	NA	NA	NA	<b>NA</b>
(g) UPJVUNL	0	4	4	32	4	<b>44</b>
(h) UPPCL	80	2688	3423	18628	7141	<b>31960</b>
<b>(9) Uttaranchal</b>						
(a) UJVNL	20	420	393	899	437	<b>2169</b>
(b) UPCL	13	322	275	1295	874	<b>2779</b>
(c) PTCL	14	248	278	113	149	<b>802</b>



**Table 7.5 (Contd.)  
MANPOWER ENGAGED IN STATE POWER  
CORPORATIONS/ UNDERTAKINGS  
AS ON 31.03.2020 (AS REPORTED)**

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Operating Staff	Non-Technical	Total (Regular) (2to6)
1	2	3	4	5	6	7
<b>WESTERN REGION</b>						
<b>(10) Chhattisgarh</b>						
(a) Chhattisgarh Power Generation Co. Ltd.	10	20	1217	318	954	<b>2519</b>
(b) Chhattisgarh State Power Trans. Co. Ltd.	NA	NA	NA	NA	NA	<b>NA</b>
(c) Chhattisgarh State Distribution Co. Ltd.	19	733	626	7374	2790	<b>11542</b>
<b>(11) Gujarat</b>						
(a) Guj. State Energy Gen. Ltd.	3	12	37	36	14	<b>102</b>
(b) Guj. Energy Trans Corporation	4	812	1715	7803	1022	<b>11356</b>
(c) Madhya Guj.Vij.Co.Ltd.	2	275	369	3895	2697	<b>7238</b>
(d) Dakshin Guj.Vij.Co.Ltd.	2	698	811	2217	2467	<b>6195</b>
(e) Uttar Guj.Vij.Co.Ltd.	4	791	908	3873	3308	<b>8884</b>
(f) Pachim Guj.Vij.Co.Ltd.	4	604	832	6279	5140	<b>12859</b>
(g) Gujrat Mineral Dev.Corpn.	1	46	42	26	55	<b>170</b>
<b>(12) Madhya Pradesh</b>						
(a) MPPGCL	7	1135	533	2063	1182	<b>4920</b>
(b) MPPTCL	2	469	537	1874	864	<b>3746</b>
(c) MPMKVVCL, Bhopal	4	457	721	4305	1895	<b>7382</b>
(d) MPPKVVCL, Indore	7	428	646	4785	2074	<b>7940</b>
(e) MPPKVVCL, Jabalpur	0	390	470	5367	2359	<b>8586</b>
<b>(13) Maharashtra</b>						
(a) Maharashtra State Power Gen. Co. Ltd.	NA	NA	NA	NA	NA	<b>NA</b>
(b) Maharashtra State Elect. Trans. Co. Ltd.	NA	NA	NA	NA	NA	<b>NA</b>
(c) MSEDCL	52	461	7733	60413	12205	<b>80864</b>
(d) BEST	5	994	289	3910	1256	<b>6454</b>
<b>(14) Goa</b>	<b>1</b>	<b>165</b>	<b>277</b>	<b>4133</b>	<b>1434</b>	<b>6010</b>
<b>(15) Dadra &amp; Nagar Haveli</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>157</b>	<b>71</b>	<b>237</b>
<b>(16) Daman &amp; Diu</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>157</b>	<b>71</b>	<b>237</b>

N.A.- Information not available.



**Table 7.5 (Contd.)  
MANPOWER ENGAGED IN STATE POWER  
CORPORATIONS/ UNDERTAKINGS  
AS ON 31.03.2020 (AS REPORTED)**

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Operating Staff	Non-Technical	Total (Regular)
						(2to6)
1	2	3	4	5	6	7
<b>SOUTHERN REGION</b>						
<b>(17) Andhra Pradesh</b>						
(a) APGENCO	16	2132	149	2849	746	<b>5892</b>
(b) APTRANSCO	13	1518	14	244	313	<b>2102</b>
(c) South Power Dis. Co. of AP Ltd.	13	521	1666	8928	4273	<b>15401</b>
(d) Eastern Power Dis. Co. of AP Ltd.	12	790	437	6531	2010	<b>9780</b>
(e) APPDCL	2	216	0	62	38	<b>318</b>
<b>(18) Telangana</b>						
(a) Telangana Transco	17	1476	12	267	476	<b>2248</b>
(b) TSGENCO	21	2204	101	3011	837	<b>6174</b>
(c) TSNPDCL	17	1000	667	6098	2172	<b>9954</b>
(d) TSSPDCL	20	521	1745	4224	2583	<b>9093</b>
<b>(19) Karnataka</b>						
(a) KPTCL	9	2158	1904	4499	1221	<b>9791</b>
(b) KPCL	21	1836	1590	0	458	<b>3905</b>
(c) Hubli Elec. Supply Co. Ltd.	0	924	976	4698	3138	<b>9736</b>
(d) Gulbarga Elec. Supply Co. Ltd.	4	442	219	5546	1054	<b>7265</b>
(e) Bangalore Elec. Supply Co. Ltd.	8	1072	614	9600	3624	<b>14918</b>
(f) Mangalore Elec. Supply Co. Ltd.	5	382	260	3784	966	<b>5397</b>
(g) Chamundeshwari Elec. Supply Corpn. Ltd.	0	400	233	4698	1431	<b>6762</b>
<b>(20) Kerala</b>						
(a) Kerala SEB	22	3605	9100	14353	5700	<b>32780</b>
(b) Thrissur Electricity Department	0	0	64	0	37	<b>101</b>
<b>(21) Tamil Nadu Gen. &amp; Dist. Corpn. Ltd.</b>						
	<b>59</b>	<b>10178</b>	<b>1918</b>	<b>47655</b>	<b>27167</b>	<b>86977</b>
<b>(22) PUDUCHERRY+PPCL</b>						
	<b>0</b>	<b>72</b>	<b>198</b>	<b>1555</b>	<b>650</b>	<b>2475</b>
<b>(23) Lakshdweep</b>						
	<b>0</b>	<b>1</b>	<b>44</b>	<b>224</b>	<b>69</b>	<b>338</b>
<b>EASTERN REGION</b>						
<b>(24) Bihar</b>						
(a) Bihar SPHCL	29	3410	1814	3845	2855	<b>11953</b>
(b) BSPGCL	NA	NA	NA	NA	NA	<b>NA</b>
(c) BSPTCL	NA	NA	NA	NA	NA	<b>NA</b>
(d) South Bihar PDCL	10	1418	23	2605	1808	<b>5864</b>
(e) North Bihar PDCL	10	519	747	2176	903	<b>4355</b>



**Table 7.5 (Contd.)  
MANPOWER ENGAGED IN STATE POWER  
CORPORATIONS/ UNDERTAKINGS  
AS ON 31.03.2020 (AS REPORTED)**

R E G U L A R						
Name of the Board/Undertaking	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Operating Staff	Non-Technical	Total (Regular) (2to6)
1	2	3	4	5	6	7
<b>(25) Jharkhand</b>						
(a) Jharkhand Urja Utpadan Nigam Ltd.	20	507	250	3612	158	<b>4547</b>
(b) Jharkhand Bijili Vitran Nigam Ltd.	7	474	0	2836	0	<b>3317</b>
(c) Tenughat Vidyut Nigam Ltd.	2	139	45	352	156	<b>694</b>
<b>(26) Odisha</b>						
(a) OPTCL	18	883	157	1275	490	<b>2823</b>
(b) OPGCL	12	240	152	0	87	<b>491</b>
(c) OHPLCL	2	420	26	700	252	<b>1400</b>
(d) NESCO	6	177	143	1569	402	<b>2297</b>
(e) CESCO	21	351	152	3483	882	<b>4889</b>
(f) SOUTHCO	2	222	80	1308	607	<b>2219</b>
(g) WESCO	6	222	175	1655	466	<b>2524</b>
<b>(27) West Bengal</b>						
(a) WBPDCCL	17	1608	813	911	660	<b>4009</b>
(b) WBSETCL	16	485	562	905	454	<b>2422</b>
(c) WBSED Co. Ltd.	24	1485	436	3994	6632	<b>12571</b>
<b>NORTH EASTERN REGION</b>						
<b>(28) Arunachal Pradesh</b>						
	<b>4</b>	<b>130</b>	<b>20</b>	<b>106</b>	<b>260</b>	<b>520</b>
<b>(29) Assam</b>						
(a) APGCL	4	280	83	219	183	<b>769</b>
(b) APDCL	9	797	503	5079	2315	<b>8703</b>
(c) AEGCL	4	543	0	519	347	<b>1413</b>
<b>(30) Meghalaya</b>						
(a) MPGCL	4	192	113	175	292	<b>776</b>
(b) MECL	12	436	306	1434	977	<b>3165</b>
<b>(31) Mizoram</b>						
	<b>5</b>	<b>125</b>	<b>195</b>	<b>835</b>	<b>307</b>	<b>1467</b>
<b>(32) Manipur</b>						
(a) Manipur SPCL	1	80	72	976	345	<b>1474</b>
(b) Manipur SPDCL	NA	NA	NA	NA	NA	<b>NA</b>
<b>(33) Nagaland</b>						
	<b>3</b>	<b>104</b>	<b>269</b>	<b>1439</b>	<b>1047</b>	<b>2862</b>
<b>(34) Tripura State Electricity Corpn. Ltd.</b>						
	<b>3</b>	<b>2780</b>	<b>6</b>	<b>0</b>	<b>731</b>	<b>3520</b>
<b>Total</b>	<b>3300</b>	<b>74822</b>	<b>95742</b>	<b>362865</b>	<b>171625</b>	<b>708354</b>

N.A:- Information not available.



**Table 7.5 (Contd.)  
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS  
AS ON 31.03.2020 (AS REPORTED)**

<b>NON R E G U L A R</b>					
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
<b>NORTHERN REGION</b>					
<b>(1) Chandigarh</b>	0	0	0	0	1006
<b>(2) Delhi</b>					
(a) IPGCL+PPCL	0	21	0	21	980
(b) Delhi Transco Ltd.	NA	NA	NA	NA	NA
<b>(3) Haryana</b>					
(a) HPGCL	0	0	0	0	2008
(b) Uttar Haryana BVNL	0	3099	0	3099	21292
(c) Dakshin Haryana BVN	0	5728	0	5728	14233
<b>(4) Himachal Pradesh SEBL</b>	3259	192	2685	6136	19931
<b>(5) J&amp;K PDC(R)</b>	NA	NA	NA	NA	NA
<b>(6) Punjab</b>					
(a) Punjab State Power Corpn. Ltd	0	8181	0	8181	43455
(b) Punjab State Transmission Corpn. Ltd	0	576	0	576	3307
<b>(7) Rajasthan</b>					
(a) RRVUNL	0	0	1	1	4120
(b) RRVPNL	0	0	0	0	8329
(c) Jaipur VVN Ltd.	0	0	0	0	18944
(d) Ajmer VVN Ltd.	0	0	0	0	15344
(e) Jodhpur VVN Ltd.	0	0	0	0	13658
<b>(8) Uttar Pradesh</b>					
(a) UPRVUNL	0	0	0	0	6436
(b) MVVNL(Lucknow UP)	NA	NA	NA	NA	NA
(c) DVVNL(Agra UP)	NA	NA	NA	NA	NA
(d) KESCO(KANPUR)	0	0	0	0	1607
(e) Pur.VVNL(Varanasi UP)	NA	NA	NA	NA	NA
(f) Paschi.VVNL(Meerut UP)	NA	NA	NA	NA	NA
(g) UPJVUNL	8	0	1	9	53
(h) UPPCL	0	0	0	0	31960
<b>(9) Uttaranchal</b>					
(a) UJVNL	0	0	0	0	2169
(b) UPCL	0	3937	0	3937	6716
(c) PTCL	0	0	0	0	802

**Table 7.5 (Contd.)**  
**MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS**  
**AS ON 31.03.2020 (AS REPORTED)**

<b>NON R E G U L A R</b>					
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
<b>WESTERN REGION</b>					
<b>(10) Chhattisgarh</b>					
(a) Chhattisgarh Power Generation Co. Ltd.	70	221	0	291	<b>2810</b>
(b) Chhattisgarh State Power Trans. Co. Ltd.	NA	NA	NA	NA	<b>NA</b>
(c) Chhattisgarh State Distribution Co. Ltd.	0	0	0	0	<b>11542</b>
<b>(11) Gujarat</b>					
(a) Guj. State Elect Gen. Corporation Ltd.	5	4	0	9	<b>111</b>
(b) Guj. Energy Trans Corporation	1082	0	0	1082	<b>12438</b>
(c) Madhya Guj.Vij.Co.Ltd.	597	0	0	597	<b>7835</b>
(d) Dakshin Guj.Vij.Co.Ltd.	0	0	0	0	<b>6195</b>
(e) Uttar Guj.Vij.Co.Ltd.	769	0	0	769	<b>9653</b>
(f) Pachim Guj.Vij.Co.Ltd.	0	0	0	0	<b>12859</b>
(g) Gujrat Mineral Dev.Cornp.	10	0	0	10	<b>180</b>
<b>(12) Madhya Pradesh</b>					
(a) MPPGCL	0	0	0	0	<b>4920</b>
(b) MPPTCL	0	561	1	562	<b>4308</b>
(c) MPMKVVCL, Bhopal	368	1	11177	11546	<b>18928</b>
(d) MPPKVVCL, Indore	264	13915	0	14179	<b>22119</b>
(e) MPPKVVCL, Jabalpur	1676	6	116	1798	<b>10384</b>
<b>(13) Maharashtra</b>					
(a) Maharashtra State Power Gen. Co. Ltd.	NA	NA	NA	NA	<b>NA</b>
(b) Maharashtra State Elect. Trans. Co. Ltd.	NA	NA	NA	NA	<b>NA</b>
(c) MSEDCL	0	0	0	0	<b>80864</b>
(d) BEST	55	0	741	796	<b>7250</b>
<b>(14) Goa</b>					
	<b>4</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>6014</b>
<b>(15) Dadra &amp; Nagar Haveli</b>					
	<b>0</b>	<b>37</b>	<b>297</b>	<b>334</b>	<b>571</b>
<b>(16) Daman &amp; Diu</b>					
	<b>0</b>	<b>37</b>	<b>297</b>	<b>334</b>	<b>571</b>

N.A:- Information not available.



**Table 7.5 (Contd.)  
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS  
AS ON 31.03.2020 (AS REPORTED)**

<b>NON R E G U L A R</b>					
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
<b>SOUTHERN REGION</b>					
<b>(17) Andhra Pradesh</b>					
(a) APGENCO	14	0	0	14	<b>5906</b>
(b) APTRANSCO	0	6204	0	6204	<b>8306</b>
(c) South Power Dis. Co. of AP Ltd.	1756	0	0	1756	<b>17157</b>
(d) Eastern Power Dis. Co. of AP Ltd.	0	4139	0	4139	<b>13919</b>
(e) APPDCL	31	0	1087	1118	<b>1436</b>
<b>(18) Telangana</b>					
(a) Telangana Transco	0	4297	0	4297	<b>6545</b>
(b) TSGENCO	0	0	0	0	<b>6174</b>
(c) TSNPDCL	0	4339	0	4339	<b>14293</b>
(d) TSSPDCL	0	10032	0	10032	<b>19125</b>
<b>(19) Karnataka</b>					
(a) KPTCL	0	0	8298	8298	<b>18089</b>
(b) KPCL	263	0	0	263	<b>4168</b>
(c) Hubli Elec. Supply Co. Ltd.	0	0	0	0	<b>9736</b>
(d) Gulbarga Elec. Supply Co. Ltd.	0	812	0	812	<b>8077</b>
(e) Bangalore Elec. Supply Co. Ltd.	52	0	0	52	<b>14970</b>
(f) Mangalore Elec. Supply Co. Ltd.	0	0	0	0	<b>5397</b>
(g) Chamundeshwari Elec. Supply Corpn. Ltd.	0	0	0	0	<b>6762</b>
<b>(20) Kerala</b>					
(a) Kerala SEB	790	0	0	790	<b>33570</b>
(b) Thrissur Electricity Department	0	47	6	53	<b>154</b>
<b>(21) Tamil Nadu Gen. &amp; Dist. Corpn. Ltd.</b>					
	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>86977</b>
<b>(22) PUDDICHERRY+PPCL</b>					
	<b>0</b>	<b>380</b>	<b>0</b>	<b>380</b>	<b>2855</b>
<b>(23) Lakshdweep</b>					
	<b>9</b>	<b>0</b>	<b>103</b>	<b>112</b>	<b>450</b>
<b>EASTERN REGION</b>					
<b>(24) Bihar</b>					
(a) Bihar SPHCL	830	5839	6295	12964	<b>24917</b>
(b) BSPGCL	NA	NA	NA	NA	<b>NA</b>
(c) BSPTCL	NA	NA	NA	NA	<b>NA</b>
(d) South Bihar PDCL	0	5826	815	6641	<b>12505</b>
(e) North Bihar PDCL	0	723	0	723	<b>5078</b>
<b>(25) Jharkhand</b>					
(a) Jharkhand Urja Utpadan Nigam Ltd.	0	0	0	0	<b>4547</b>
(b) Jharkhand Bijili Vitran Nigam Ltd.	0	0	0	0	<b>3317</b>
(c) Tenughat Vidyut Nigam Ltd.	0	59	0	59	<b>753</b>

**Table 7.5 (Contd.)  
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS  
AS ON 31.03.2020 (AS REPORTED)**

NON R E G U L A R					
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
<b>(26) Odisha</b>					
(a) OPTCL	0	0	0	0	2823
(b) OPGCL	0	0	0	0	491
(c) OHPCL	0	0	83	83	1483
(d) NESCO	28	0	0	28	2325
(e) CESCO	191	411	424	1026	5915
(f) SOUTHCO	36	40	1259	1335	3554
(g) WESCO	0	0	0	0	2524
<b>(27) West Bengal</b>					
(a) WBPCL	0	0	0	0	4009
(b) WBSETCL	155	0	11	166	2588
(c) WBSED Co. Ltd.	0	601	1735	2336	14907
<b>NORTH EASTERN REGION</b>					
<b>(28) Arunachal Pradesh</b>	<b>0</b>	<b>2786</b>	<b>6148</b>	<b>8934</b>	<b>9454</b>
<b>(29) Assam</b>					
(a) APGCL	3	148	118	269	1038
(b) APDCL	0	0	608	608	9311
(c) AEGCL	0	515	19	534	1947
<b>(30) Meghalaya</b>					
(a) MPGCL	4	346	0	350	1126
(b) MPTCL	0	15	2173	2188	5353
<b>(31) Mizoram</b>	<b>0</b>	<b>416</b>	<b>2025</b>	<b>2441</b>	<b>3908</b>
<b>(32) Manipur</b>					
(a) Manipur SPCL	0	0	0	0	1474
(b) Manipur SPDCL	NA	NA	NA	NA	NA
<b>(33) Nagaland</b>	<b>0</b>	<b>2052</b>	<b>0</b>	<b>2052</b>	<b>4914</b>
<b>(34) Tripura State Electricity Corpn. Ltd.</b>	<b>0</b>	<b>0</b>	<b>174</b>	<b>174</b>	<b>3694</b>
<b>Total</b>	<b>12329</b>	<b>86543</b>	<b>46697</b>	<b>145569</b>	<b>853923</b>

N.A.- Information not available.



**Table 7.5 A**  
**MANPOWER ENGAGED IN CENTRAL POWER CORPORATIONS/ UNDERTAKINGS**  
**2019-20**

Name of the Power Corporation	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Operating Staff	Non-Technical	Total (Regular) (2to6)
1	2	3	4	5	6	7
NTPC	351	15397	NA	NA	3417	19165
NTPC JVs	54	1477	NA	NA	236	1767
NHPC	256	2455	162	1882	1998	6753
NPCIL	168	1764	1430	3170	1686	8218
PGCIL	466	3107	2112	1465	1596	8746
NHDC	13	219	30	118	156	536
NLC	468	463	51	1562	188	2732
NTPL	69	85	8	20	37	219
NEEPCO	77	559	281	887	247	2051
SJVNL	12	170	158	212	73	625
THDC	181	436	101	889	228	1835
ONGC Tripura PCL	16	18	0	0	10	44
DVC	47	2116	1751	1731	1776	7421
BBMB	Details not available					7681

**Table 7.5 A (Contd.)**  
**MANPOWER ENGAGED IN CENTRAL POWER CORPORATIONS/ UNDERTAKINGS**  
**2019-20**

Name of the Power Corporation	Technical Trainees and Apprentises	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	8	9	10	11	12
NTPC	0	0	0	0	19165
NTPC JVs	0	0	0	0	1767
NHPC	0	0	0	0	6753
NPCIL	0	0	0	0	8218
PGCIL	646	0	0	646	9392
NHDC	0	0	0	0	536
NLC	559	1376	1747	3682	6414
NTPL	0	0	0	0	219
NEEPCO	133	295	0	428	2479
SJVNL	0	0	0	0	625
THDC	0	0	0	0	1835
ONGC Tripura PCL	3	0	0	3	47
DVC	0	0	0	0	7421
BBMB	Details Not Available			0	7681



**Table 7.6**  
**PLANT LOAD FACTOR OF THERMAL/ NUCLEAR**  
**ELECTRICITY GENERATING PLANTS STATE-WISE**  
**2019-2020**

State/UTs	Central Sector		State Sector	Private Sector
	Thermal	Nuclear	Thermal	Thermal
<b>NORTHERN REGION</b>				
Chandigarh	-	-	-	-
Delhi	-	-	-	-
Haryana	29.17	-	29.42	50.79
Himachal Pradesh	-	-	-	-
Jammu & Kashmir	-	-	-	-
Punjab	-	-	12.73	54.99
Rajasthan	69.58	81.54	53.16	65.82
Uttar Pradesh	68.80	98.09	57.98	50.81
Uttaranchal	-	-	-	-
<b>WESTERN REGION</b>				
Chhattisgarh	83.42	-	65.54	44.92
Gujarat	-	88.71	39.80	70.77
Madhya Pradesh	76.69	-	46.84	70.53
Maharashtra	35.09	85.68	51.44	48.27
Daman & Diu	-	-	-	-
D. & N. Haveli	-	-	-	-
Goa	-	-	-	-
<b>SOUTHERN REGION</b>				
Andhra Pradesh	60.62	-	55.90	53.86
Telangana	74.99	-	75.08	-
Karnataka	21.84	94.16	29.39	34.66
Kerala	-	-	-	-
Tamil Nadu	60.26	60.59	56.83	47.21
Puducherry	-	-	-	-
Lakshadweep	-	-	-	-
<b>EASTERN REGION</b>				
Bihar	65.84	-	-	-
Jharkhand	61.64	-	65.61	68.32
Orissa	74.49	-	56.57	34.90
West Bengal	62.26	-	49.41	59.47
Sikkim	-	-	-	-
A. & N. Islands	-	-	-	-
<b>NORTH-EASTERN REGION</b>				
Arunachal Pradesh	-	-	-	-
Assam	59.65	-	-	-
Manipur	-	-	-	-
Meghalaya	-	-	-	-
Mizoram	-	-	-	-
Nagaland	-	-	-	-
Tripura	-	-	-	-
<b>Total (All India)</b>	<b>64.21</b>	<b>78.03</b>	<b>50.24</b>	<b>47.00</b>



**Table 7.7**  
**COAL CONSUMPTION IN THERMAL POWER PLANTS**  
**2019-20**

QUANTITY (IN 000 Tonne)

Name of State	Annual Coal Allocation From CIL/ SCCL	ACTUAL RECEIPT					Consumption
		CIL/SCCL	Other Source	Import	Total	% of	
	QTY	QTY	QTY	QTY	QTY	2	Qty
1	2	3	4	5	6	7	8
Haryana	16904	9169	0	0	9169	54	8326
Punjab	19090	10570	110	1827	12508	66	12090
Rajasthan	20828	13010	11187	73	24270	117	22261
Uttar Pradesh	47067	38161	139	0	38300	81	36865
Central Sector	49916	38955	514	823	40292	81	39767
<b>Sub-Total (NR)</b>	<b>153804</b>	<b>109865</b>	<b>11951</b>	<b>2723</b>	<b>124539</b>	<b>81</b>	<b>119309</b>
Chhattisgarh	36473	32573	13775	925	47272	130	46930
Gujarat	22263	9842	0	31446	41288	185	40801
Madhya Pradesh	31981	21756	27919	32	49707	155	48505
Maharashtra	61185	55195	1927	9810	66932	109	65312
Central Sector	67777	61858	5251	976	68085	100	65479
<b>Sub-Total (WR)</b>	<b>219679</b>	<b>181225</b>	<b>48871</b>	<b>43189</b>	<b>273284</b>	<b>124</b>	<b>267027</b>
Andhra Pradesh	30747	23657	34	7865	31556	103	30966
Telangana	20396	19153	0	0	19153	94	19292
Karnataka	15661	10045	0	2673	12718	81	12018
Tamil Nadu	21291	11376	0	10176	21552	101	21424
Central Sector	38025	25098	1563	1643	28304	74	27838
<b>Sub-Total (SR)</b>	<b>126120</b>	<b>89330</b>	<b>1597</b>	<b>22356</b>	<b>113283</b>	<b>90</b>	<b>111538</b>
Jharkhand	6534	6691	1916	89	8696	133	8607
Odisha	13557	10488	3211	178	13876	102	13793
West Bengal	19981	17118	5650	48	22816	114	22324
Central Sector	75983	75915	2977	598	79489	105	77292
<b>Sub-Total (ER)</b>	<b>116055</b>	<b>110211</b>	<b>13755</b>	<b>912</b>	<b>124877</b>	<b>108</b>	<b>122017</b>
Central Sector	2500	2235	419	39	2693	108	2325
<b>Sub-Total (NER)</b>	<b>2500</b>	<b>2235</b>	<b>419</b>	<b>39</b>	<b>2693</b>	<b>108</b>	<b>2325</b>
<b>TOTAL ALL India</b>	<b>618158</b>	<b>492865</b>	<b>76592</b>	<b>69219</b>	<b>638676</b>	<b>103</b>	<b>622217</b>

\* 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  $\pm 800$  kV,  $\pm 500$  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 1644497 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 31.03.2021 in the country with percentage increase over previous year:

Sl. No	Voltages	Length of Lines (Ckt. kms.)		% Growth
		31.03.20	31.03.19	
<b>A</b>	<b>Transmission Lines</b>			
1	±800 kV HVDC	6126	6126	0.00
2	±500 kV HVDC	9432	9432	0.00
3	765kV	44851	41825	7.23
4	400 kV	181601	177373	2.38
5	230/220 kV	189836	182527	4.00
6	132/110/90 kV	210269	203140	3.51
7	78/66 kV	71285	70225	1.51
8	33/22/20 kV	508226	493086	3.07
9	15/11 kV	4452730	4225288	5.38
10	6.6/4.4/3.3/2.2 kV	44178	37905	16.55
<b>Total (A)</b>		<b>5718534</b>	<b>5446926</b>	<b>4.99</b>
<b>B</b>	<b>Distribution lines</b>			
11	Up to 500 volts	7560781	7235723	4.49
<b>Total (B)</b>		<b>7560781</b>	<b>7235723</b>	<b>4.49</b>
<b>Total (All India) (A+B)</b>		<b>13279315</b>	<b>12682649</b>	<b>4.70</b>

## 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, 2020 were 5241 having aggregate capacity of 365106 MVA. The total numbers of step-down and distribution transformers were 89381 and 12225941 with aggregate capacity of 1969558 MVA and 633347 MVA respectively.



**Table 8.1**  
**STATE - WISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES**  
**31.03.2020**

(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						
<b>NORTHERN REGION</b>								
Chandigarh	0	0	0	0	0	54	0	0
Delhi	0	0	0	249	0	849	0	0
Haryana	0	0	0	1680	110	8149	5932	0
Himachal Pradesh	0	0	0	466	0	1760	2447	0
Jammu & Kashmir & Ladakh	0	0	0	581	0	971	1955	0
Punjab	0	0	0	2744	0	10636	3157	0
Rajasthan	0	1980	425	8069	0	15551	17852	0
Uttar Pradesh	0	0	1937	7010	0	13265	21658	0
Uttarakhand	0	0	0	464	0	1257	1590	0
Central Sector(NR)	6083	3210	8606	28501	0	5678	323	0
<b>Sub-Total (NR)</b>	<b>6083</b>	<b>5190</b>	<b>10968</b>	<b>49764</b>	<b>110</b>	<b>58168</b>	<b>54914</b>	<b>0</b>
<b>WESTERN REGION</b>								
Chhattisgarh	0	0	1147	3995	120	4073	6854	0
Gujarat	0	0	0	6809	0	19910	6203	0
Madhya Pradesh	0	0	1639	5496	0	13610	19623	0
Maharashtra	0	1504	2080	12029	0	20334	15454	3683
Daman & Diu	0	0	0	0	0	33	0	0
D. & N. Haveli	0	0	0	0	0	15	0	0
Goa	0	0	0	0	0	407	0	301
Central Sector(WR)	0	0	17360	28519	0	1488	148	0
<b>Sub-Total (WR)</b>	<b>0</b>	<b>1504</b>	<b>22226</b>	<b>56849</b>	<b>120</b>	<b>59870</b>	<b>48283</b>	<b>3984</b>
<b>SOUTHERN REGION</b>								
Andhra Pradesh	0	0	0	5416	0	11905	11435	0
Telangana	0	0	0	6043	0	8351	11673	0
Karnataka	0	0	896	4099	0	11697	0	10941
Kerala	0	0	0	92	0	2953	0	4802
Tamil Nadu	0	0	0	4227	10928	0	0	19747
Puducherry	0	0	0	0	266	0	42	290
Lakshadweep	0	0	0	0	0	0	0	0
Central Sector(SR)	0	2738	6791	22017	245	1370	0	328
<b>Sub-Total (SR)</b>	<b>0</b>	<b>2738</b>	<b>7687</b>	<b>41893</b>	<b>11438</b>	<b>36277</b>	<b>23150</b>	<b>36107</b>
<b>EASTERN REGION</b>								
Bihar	0	0	0	1159	0	4693	12005	0
Jharkhand	0	0	0	809	0	1352	2350	0
Odisha	0	0	305	1838	0	6195	6980	0
West Bengal	0	0	0	3007	0	4050	9055	0
Sikkim	0	0	0	522	0	20	55	0
A. & N. Islands	0	0	0	0	0	0	0	0
Central Sector(ER)	43	0	3665	20267	0	4599	4306	0
<b>Sub-Total (ER)</b>	<b>43</b>	<b>0</b>	<b>3970</b>	<b>27602</b>	<b>0</b>	<b>20909</b>	<b>34751</b>	<b>0</b>
<b>NORTH EASTERN REGION</b>								
Arunachal Pradesh	0	0	0	0	0	19	341	0
Assam	0	0	0	1280	0	2048	3039	0
Manipur	0	0	0	0	0	0	699	0
Meghalaya	0	0	0	4	0	227	1134	0
Mizoram	0	0	0	0	0	0	760	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
<b>Sub-Total (NER)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5493</b>	<b>0</b>	<b>2943</b>	<b>9081</b>	<b>0</b>
<b>Total Central Sector</b>	<b>6126</b>	<b>5948</b>	<b>36421</b>	<b>103016</b>	<b>245</b>	<b>13785</b>	<b>6965</b>	<b>328</b>
<b>Total (All India)</b>	<b>6126</b>	<b>9432</b>	<b>44851</b>	<b>181601</b>	<b>11668</b>	<b>178167</b>	<b>170179</b>	<b>40090</b>



**Table 8.1 (Contd.)**  
**STATE - WISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES**  
**31.03.2020**

(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.)
<b>NORTHERN REGION</b>							
Chandigarh	131	22	0	0	0	729	174
Delhi	1433	848	840	0	0	7607	8233
Haryana	3422	6968	0	0	0	134475	0
Himachal Pradesh	702	3252	0	9349	0	23226	19
Jammu & Kashmir & Ladakh	494	4411	0	0	0	35337	0
Punjab	10118	87	0	0	0	244180	0
Rajasthan	303	56855	271	0	0	551781	1736
Uttar Pradesh	3139	47955	545	0	0	366229	756
Uttarakhand	42	5487	0	0	0	42556	0
Central Sector(NR)	0	101	2	114	2	13	4
<b>Sub-Total (NR)</b>	<b>19784</b>	<b>125986</b>	<b>1658</b>	<b>9462</b>	<b>2</b>	<b>1406133</b>	<b>10922</b>
<b>WESTERN REGION</b>							
Chhattisgarh	0	22876	117	0	0	116642	230
Gujarat	33978	73	953	1364	710	445583	13861
Madhya Pradesh	71	55529	3	0	0	455650	0
Maharashtra	595	48188	2263	31153	5066	313472	10339
Daman & Diu	89	0	0	0	0	184	263
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
<b>Sub-Total (WR)</b>	<b>35003</b>	<b>128310</b>	<b>3368</b>	<b>32518</b>	<b>5776</b>	<b>1336234</b>	<b>24694</b>
<b>SOUTHERN REGION</b>							
Andhra Pradesh	169	27592	1	0	0	227613	0
Telangana	0	23647	804	0	0	181215	512
Karnataka	11456	7014	83	0	0	368030	8914
Kerala	2001	1904	160	161	0	61047	3629
Tamil Nadu	483	7667	1024	46664	89	122496	3917
Puducherry	0	19	0	1778	0	442	0
Lakshadweep	0	0	0	0	0	0	101
Central Sector(SR)	0	0	0	0	0	0	0
<b>Sub-Total (SR)</b>	<b>14109</b>	<b>67843</b>	<b>2073</b>	<b>48602</b>	<b>89</b>	<b>960843</b>	<b>17073</b>
<b>EASTERN REGION</b>							
Bihar	0	15838	68	0	0	136610	94
Jharkhand	0	9079	172	0	0	64521	261
Odisha	0	14580	1	0	0	150229	16
West Bengal	333	16877	2384	0	50	175535	8811
Sikkim	413	0	0	0	0	3204	110
A. & N. Islands	0	478	0	0	0	1000	0
Central Sector(ER)	37	1514	0	0	0	13	7
<b>Sub-Total (ER)</b>	<b>783</b>	<b>58366</b>	<b>2625</b>	<b>0</b>	<b>50</b>	<b>531112</b>	<b>9299</b>
<b>NORTH EASTERN REGION</b>							
Arunachal Pradesh	0	4478	0	0	0	19917	0
Assam	613	8147	0	0	0	86248	0
Manipur	0	1662	0	0	0	7054	88
Meghalaya	0	2702	0	0	0	13880	0
Mizoram	111	1532	0	0	0	5614	0
Nagaland	474	2066	0	0	0	5529	0
Tripura	408	911	0	0	0	18091	0
Central Sector(NER)	0	0	0	0	0	0	0
<b>Sub-Total (NER)</b>	<b>1606</b>	<b>21498</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>156333</b>	<b>88</b>
<b>Total Central Sector</b>	<b>39</b>	<b>1615</b>	<b>34</b>	<b>114</b>	<b>2</b>	<b>26</b>	<b>11</b>
<b>Total (All India)</b>	<b>71285</b>	<b>402003</b>	<b>9723</b>	<b>90582</b>	<b>5918</b>	<b>4390655</b>	<b>62075</b>



**Table 8.1 (Contd.)**  
**STATE - WISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES**  
**31.03.2020**

(Ckt. Kms.)

Name of the State/Uts	6.6/4.4KV		3.3/2.2KV		Distribution lines upto 500 volts	Total
	(O.H.)	(U.G.)	(O.H.)	(U.G.)		
<b>NORTHERN REGION</b>						
Chandigarh	0	0	0	0	1694	2805
Delhi	0	0	0	0	32480	52538
Haryana	0	0	0	0	121717	282452
Himachal Pradesh	0	0	59	0	63383	104662
Jammu & Kashmir & Ladakh	444	0	0	0	75637	119830
Punjab	0	0	0	0	148942	419864
Rajasthan	12	0	0	0	509912	1164747
Uttar Pradesh	0	0	0	0	1182003	1644497
Uttarakhand	0	0	0	0	65453	116849
Central Sector(NR)	9	0	0	0	34	52680
<b>Sub-Total (NR)</b>	<b>466</b>	<b>0</b>	<b>59</b>	<b>0</b>	<b>2201256</b>	<b>3960925</b>
<b>WESTERN REGION</b>						
Chhattisgarh	13	0	0	0	199109	355176
Gujarat	0	0	0	0	356183	885629
Madhya Pradesh	0	0	0	0	466752	1018373
Maharashtra	0	100	0	0	717914	1184174
Daman & Diu	0	0	0	0	792	1361
D. & N. Haveli	0	0	0	0	1788	2913
Goa	0	0	0	0	11805	18020
Central Sector(WR)	12	4	0	0	0	47565
<b>Sub-Total (WR)</b>	<b>25</b>	<b>104</b>	<b>0</b>	<b>0</b>	<b>1754343</b>	<b>3513209</b>
<b>SOUTHERN REGION</b>						
Andhra Pradesh	31059	24	0	0	363558	678772
Telangana	11556	0	0	0	369521	613321
Karnataka	0	0	0	0	579120	1002251
Kerala	189	0	20	0	294064	371020
Tamil Nadu	0	19	0	0	645701	862962
Puducherry	0	0	0	0	4077	6914
Lakshadweep	0	0	0	10	346	456
Central Sector(SR)	0	0	0	0	0	33489
<b>Sub-Total (SR)</b>	<b>42804</b>	<b>43</b>	<b>20</b>	<b>10</b>	<b>2256386</b>	<b>3569185</b>
<b>EASTERN REGION</b>						
Bihar	0	0	0	0	319070	489538
Jharkhand	573	0	0	0	112136	191251
Odisha	0	0	0	0	196654	376798
West Bengal	8	0	19	22	364452	584602
Sikkim	0	0	0	0	5215	9540
A.& N. Islands	0	0	0	0	3783	5262
Central Sector(ER)	26	0	0	0	55	34532
<b>Sub-Total (ER)</b>	<b>606</b>	<b>0</b>	<b>19</b>	<b>22</b>	<b>1001366</b>	<b>1691523</b>
<b>NORTH EASTERN REGION</b>						
Arunachal Pradesh	0	0	0	0	14663	39418
Assam	0	0	0	0	255697	357073
Manipur	0	0	0	0	17751	27255
Meghalaya	0	0	0	0	16497	34444
Mizoram	0	0	0	0	3245	11262
Nagaland	0	0	0	0	7775	16192
Tripura	0	0	0	0	31802	52279
Central Sector(NER)	0	0	0	0	0	6550
<b>Sub-Total (NER)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>347430</b>	<b>544472</b>
<b>Total Central Sector</b>	<b>48</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>89</b>	<b>174815</b>
<b>Total (All India)</b>	<b>43901</b>	<b>147</b>	<b>98</b>	<b>32</b>	<b>7560781</b>	<b>13279315</b>

**Table 8.2**  
**NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY STATE - WISE**  
**UTILITIES**  
**31.03.2020**

Name of the State/U.Ts.	STEP UP		STEP DOWN	
	Nos.	Capacity (KVA)	Nos.	Capacity (KVA)
<b>NORTHERN REGION</b>				
Chandigarh	0	0	58	1142000
Delhi	21	2345200	887	36545000
Haryana	14	4920000	2400	63449700
Himachal Pradesh	137	4035133	842	6357590
Jammu & Kashmir & Ladakh	85	1253554	2400	13253550
Punjab	122	11697680	1945	64959335
Rajasthan	277	12299976	10112	120544260
Uttar Pradesh	154	17459692	6742	140955191
Uttarakhand	48	4289500	796	13080100
Central Sector (NR)	345	33527577	611	146123768
<b>Sub-Total (NR)</b>	<b>1203</b>	<b>91828312</b>	<b>26793</b>	<b>606410494</b>
<b>WESTERN REGION</b>				
Chhattisgarh	84	17806300	2568	32278960
Gujarat	464	29564902	5583	149021990
Madhya Pradesh	239	16929508	8231	107802870
Maharashtra	591	31502330	9308	194559700
Daman & Diu	0	0	38	1192000
D. & N. Haveli	0	0	52	1800000
Goa	2	106000	143	2678750
Central Sector (WR)	233	32893450	458	137345200
<b>Sub-Total (WR)</b>	<b>1613</b>	<b>128802490</b>	<b>26381</b>	<b>626679470</b>
<b>SOUTHERN REGION</b>				
Andhra Pradesh	142	12843980	5148	78880850
Telangana	100	8394200	6530	105589550
Karnataka	457	15870530	3605	79684800
Kerala	127	3165130	1238	23379100
Tamil Nadu	335	11238962	4196	96369040
Puducherry	2	24000	54	1484000
Lakshadweep	28	26000	0	0
Central Sector (SR)	473	27845850	398	83780150
<b>Sub-Total (SR)</b>	<b>1664</b>	<b>79408652</b>	<b>21169</b>	<b>469167490</b>
<b>EASTERN REGION</b>				
Bihar	16	321000	2893	40970450
Jharkhand	19	3420000	1092	13934980
Odisha	147	9508700	2451	30455590
West Bengal	94	11510450	2969	67898455
Sikkim	40	4707430	52	405000
A. & N. Islands	32	113490	568	85355
Central Sector (ER)	177	27325850	628	83387100
<b>Sub-Total (ER)</b>	<b>525</b>	<b>56906920</b>	<b>10653</b>	<b>237136930</b>
<b>NORTH EASTERN REGION</b>				
Arunachal Pradesh	39	20031	185	609465
Assam	27	555000	3275	11641480
Manipur	4	50000	227	1422600
Meghalaya	25	441900	198	3856680
Mizoram	20	63239	117	581650
Nagaland	12	32330	128	562100
Tripura	16	967640	168	1622100
Central Sector (NER)	93	6029470	87	9867900
<b>Sub-Total (NER)</b>	<b>236</b>	<b>8159610</b>	<b>4385</b>	<b>30163975</b>
<b>Total Central Sector</b>	<b>1321</b>	<b>127622197</b>	<b>2182</b>	<b>460504118</b>
<b>Total (All India)</b>	<b>5241</b>	<b>365105983</b>	<b>89381</b>	<b>1969558359</b>



**Table 8.2 (Contd.)**  
**NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY STATE - WISE**  
**UTILITIES**  
**31.03.2020**

Name of the State/U.Ts.	DISTRIBUTION	
	Nos.	Capacity(KVA)
<b>NORTHERN REGION</b>		
Chandigarh	2234	737511
Delhi	57312	15307599
Haryana	584141	29306124
Himachal Pradesh	31362	2752234
Jammu & Kashmir & Ladakh	52708	6674515
Punjab	1111350	36660112
Rajasthan	1922496	51906744
Uttar Pradesh	936101	42745341
Uttarakhand	69218	4313187
Central Sector (NR)	817	973377
<b>Sub-Total (NR)</b>	<b>4767739</b>	<b>191376744</b>
<b>WESTERN REGION</b>		
Chhattisgarh	181123	11224446
Gujarat	1613240	58030782
Madhya Pradesh	838489	43399159
Maharashtra	668949	83244898
Daman & Diu	926	261235
D. & N. Haveli	1109	222850
Goa	6858	1259359
Central Sector (WR)	649	1026928
<b>Sub-Total (WR)</b>	<b>3311343</b>	<b>198669657</b>
<b>SOUTHERN REGION</b>		
Andhra Pradesh	1014759	34683413
Telangana	735198	32820727
Karnataka	937343	52635719
Kerala	82250	10160820
Tamil Nadu	327202	43384001
Puducherry	2761	644860
Lakshadweep	115	17788
Central Sector (SR)	633	728765
<b>Sub-Total (SR)</b>	<b>3100261</b>	<b>175076093</b>
<b>EASTERN REGION</b>		
Bihar	256416	19114945
Jharkhand	108513	7405231
Odisha	246169	12133276
West Bengal	293912	17632702
Sikkim	2934	392410
A.& N. Islands	1153	203144
Central Sector (ER)	1149	1735070
<b>Sub-Total (ER)</b>	<b>910246</b>	<b>58616778</b>
<b>NORTH EASTERN REGION</b>		
Arunachal Pradesh	8892	448648
Assam	88178	5808501
Manipur	6352	578543
Meghalaya	10237	856984
Mizoram	2701	316965
Nagaland	3626	327391
Tripura	16316	1209787
Central Sector (NER)	50	61200
<b>Sub-Total (NER)</b>	<b>136352</b>	<b>9608019</b>
<b>Total Central Sector</b>	<b>3298</b>	<b>4525340</b>
<b>Total (All India)</b>	<b>12225941</b>	<b>633347290</b>



# CHAPTER 9

## ELECTRICITY UTILISATION





WEL COME TO SARDAR SAROVAR

## CHAPTER 9

## ELECTRICITY UTILISATION

## I. Electrical Energy Consumption

Electricity consumption by various categories of consumers served by utilities during the year 2019-20 was 1052346.36 GWh registering an increase of 1.43% over previous year.

As in the preceding year, the major portion of electricity viz. 951548.66 GWh representing 90.42% of the total energy consumption was distributed by the Public Sector and remaining 9.58% was distributed by the private sector (including Cooperatives Societies). Out of 90.42% 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 89.83%. 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 1.96%, 0.95%, 1.06%, 0.80% and 1.83% adding up 6.60% only and the balance of 2.98% 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 2019-20 are tabulated below: -

Sl. No	Agency	Electrical Energy Sold to Ultimate Consumers		
		Quantum (GWh)	% of total Consumption	% increase over 2018-19
1.	Elect. Deptts. of State & UTs/State Govt. Distribution Companies	945373.03	89.83	1.38
2.	Municipalities	6175.64	0.59	0.42
3.	Private Licensees (including Coop. Societies)	100797.70	9.58	1.98
	<b>Total</b>	<b>1052346.36</b>	<b>100.00</b>	<b>3.78</b>

Regarding to the energy consumed by various classes of consumers, the Industrial category of consumers, as usual consumed highest energy i.e. 32.03% of total energy sold by Utilities as compared to 33.42% during 2018-19. The energy sales to Industrial consumers registered a decrease of 2.79% over the previous year.

Domestic consumers, the second largest category amongst the consumers consumed 29.34% of total energy sales as compared to 27.78% during the previous year. The consumption of energy under this Sector increased by 7.11% over the previous year.

Agricultural consumers, the third largest category amongst the consumers consumed 20.08% of total energy sales as compared to 20.57% during the previous year. However, the consumption of energy by this Sector decreased by 0.99% over the previous year.



The electricity consumption in the Commercial category during the year was 106047.13 GWh registering a growth of 7.96% while the electricity consumption in the Public Lighting category was 9431.81 GWh registering a fall of 2.52% against the overall increase of 1.43% in total energy consumption over the previous year.

## II Electricity Consumption Pattern (Utilities & Non-Utilities)

The total electricity consumed including utilities and non-utilities during the year 2019-20 was 1248085.82 GWh as compared to 1209971.63 GWh during the year 2018-19 registering growth of 3.15% 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 2019-20 has shown improved share of Domestic, Traction and Industrial electricity consumption. The share of total Domestic consumption was 24.74% during the year 2019-20 as compared to 23.82% during the year 2018-19 and registered a growth of 7.11% over the previous year. The share of Traction consumption was 1.53% during the year 2019-20 as compared to 1.56% during the year 2018-19 and registered a growth of 1.65% over the previous year. The share of Industrial consumption was 42.69% during the year 2019-20 as compared to 42.91% during the year 2018-19 and registered a growth of 2.62% over the previous year.

## III. Per Capita Electricity Consumption

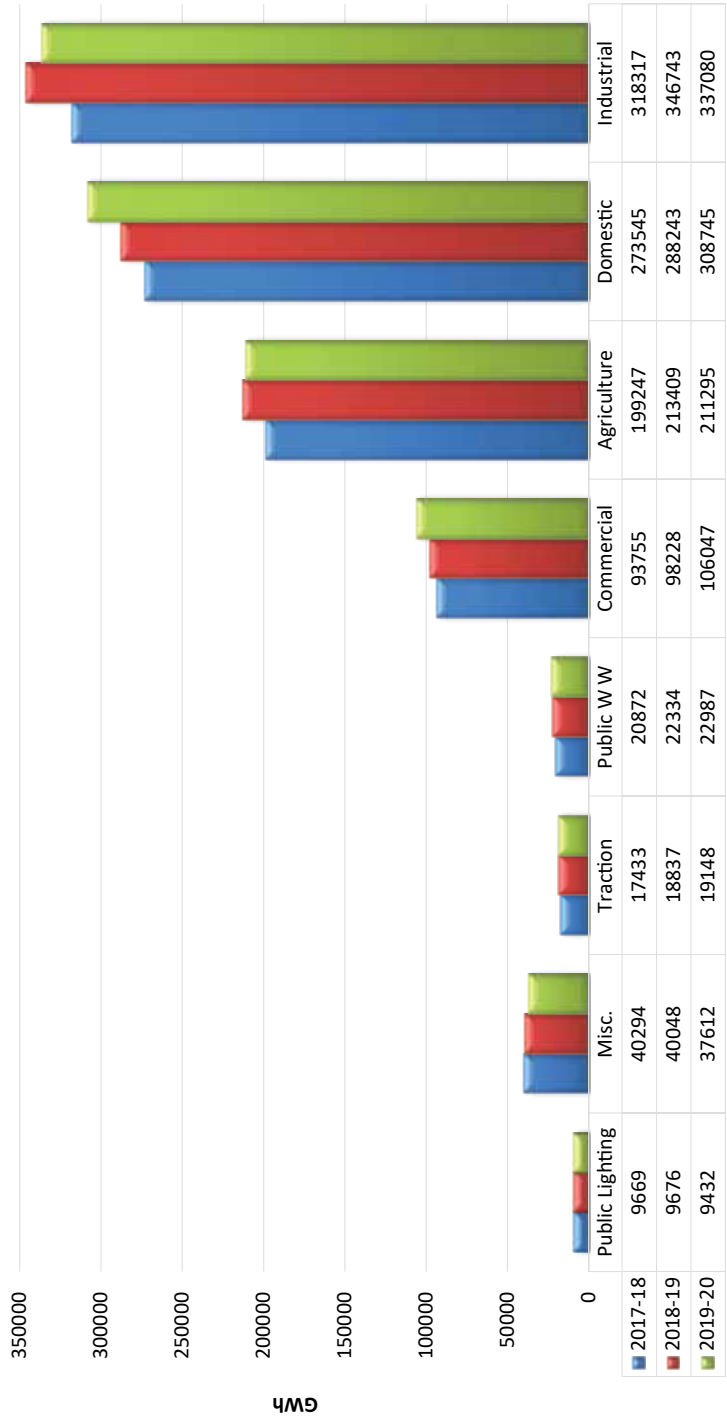
The per capita consumption of electricity on All India basis works out to 1208 kWh for the year 2019-20 against 1181 kWh in the year 2018-19. Per Capita Electricity Consumption is worked out as the total gross electrical energy consumed divided by Mid-Year Population during the year. The details are shown in table 9.9.

## IV. Electrical Accidents

To the extent of information made available for the year 2019-20, the total number of electrical accidents reported was 20951 which comprised 7717 human fatal accidents, 3824 human non-fatal accidents, 9219 animal fatal accidents and 191 animal non-fatal accidents. The details of electrical accidents are displayed in table 9.10.



## GROWTH OF CATEGORY-WISE ELECTRICITY CONSUMPTION UTILITIES 2017-18 to 2019-20





**Table 9.1**  
**ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE**  
**(UTILITIES)**  
**2019-20**

Category	Energy Sold During 2019-20 (GWh)	% of Total Energy Sold in 2019-20	Energy Sold During 2018-19 (GWh)	% of Total Energy Sold in 2018-19	% Increase in Sale over Previous Year 2018-19
Domestic	308745.36	29.34	288243.11	27.78	7.11
Commercial	106047.13	10.08	98227.65	9.47	7.96
Industrial Power	337080.24	32.03	346742.58	33.42	-2.79
Public Lighting	9431.81	0.90	9676.06	0.93	-2.52
Railway/ Tramways	19147.99	1.82	18837.43	1.82	1.65
Agriculture	211294.89	20.08	213409.18	20.57	-0.99
Public Water Works & Sewage Pumping	22987.14	2.18	22333.67	2.15	2.93
Miscellaneous	37611.79	3.57	40048.24	3.86	-6.08
<b>Total</b>	<b>1052346.36</b>	<b>100.00</b>	<b>1037517.93</b>	<b>100.00</b>	<b>1.43</b>

**Table 9.1 (A)**  
**ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE**  
**(UTILITIES & NON-UTILITIES)**  
**2019-20**

Category	Energy Sold During 2019-20 (GWh)	% of Total Energy Sold in 2019-20	Energy Sold During 2018-19 (GWh)	% of Total Energy Sold in 2018-19	% Increase in Sale over Previous Year 2018-19
Domestic	308745.36	24.74	288243.11	23.82	7.11
Commercial	106047.13	8.50	98227.65	8.12	7.96
Industrial Power	532819.70	42.69	519196.29	42.91	2.62
Public Lighting	9431.81	0.76	9676.06	0.80	-2.52
Railways/ Tramways	19147.99	1.53	18837.43	1.56	1.65
Agriculture	211294.89	16.93	213409.18	17.64	-0.99
Public Water Works & Sewage Pumping	22987.14	1.84	22333.67	1.85	2.93
Miscellaneous	37611.79	3.01	40048.24	3.31	-6.08
<b>Total</b>	<b>1248085.82</b>	<b>100.00</b>	<b>1209971.63</b>	<b>100.00</b>	<b>3.15</b>



**Table 9.2**  
**ALL INDIA ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS**  
**OWNERSHIP-WISE/STATE-WISE**  
**(UTILITIES)**  
**2019-20**

(GWh)

State / UTs	S.E.B.s	Municipalities	Govt. Depts./ Undertakings/ Corporations	Private Sector	Total
Chandigarh	0.00	0.00	1603.81	0.00	1603.81
Delhi	0.00	1456.28	88.40	28267.34	29812.02
Haryana	0.00	0.00	43382.05	0.00	43382.05
Himachal Pradesh	0.00	0.00	9123.99	0.00	9123.99
Jammu & Kashmir & Ladakh	0.00	0.00	10622.85	0.00	10622.85
Punjab	0.00	0.00	49168.06	0.00	49168.06
Rajasthan	0.00	0.00	61560.05	381.88	61941.93
Uttar Pradesh	0.00	0.00	92851.47	2080.66	94932.13
Uttarakhand	0.00	0.00	12021.35	0.00	12021.35
<b>Sub-Total (NR)</b>	<b>0.00</b>	<b>1456.28</b>	<b>280422.04</b>	<b>30729.88</b>	<b>312608.20</b>
Chhattisgarh	0.00	0.00	22793.08	0.00	22793.08
Gujarat	0.00	0.00	76781.44	15463.68	92245.12
Madhya Pradesh	0.00	0.00	58030.28	598.15	58628.43
Maharashtra	0.00	4569.34	106791.68	14283.93	125644.95
Daman & Diu	0.00	0.00	2495.67	0.00	2495.67
D & N Haveli	0.00	0.00	6287.98	0.00	6287.98
Goa	0.00	0.00	3979.76	124.43	4104.19
<b>Sub-Total (WR)</b>	<b>0.00</b>	<b>4569.34</b>	<b>277159.88</b>	<b>30470.20</b>	<b>312199.42</b>
Andhra Pradesh	0.00	0.00	56391.72	727.06	57118.77
Telangana	0.00	0.00	58559.73	804.80	59364.54
Karnataka	0.00	0.00	58210.41	2920.23	61130.64
Kerala	0.00	150.01	22754.89	244.04	23148.94
Tamil Nadu	0.00	0.00	95919.07	0.00	95919.07
Puducherry	0.00	0.00	2713.78	0.00	2713.78
Lakshadweep	0.00	0.00	48.42	0.00	48.42
<b>Sub-Total (SR)</b>	<b>0.00</b>	<b>150.01</b>	<b>294598.03</b>	<b>4696.12</b>	<b>299444.17</b>
Bihar	0.00	0.00	22708.58	0.00	22708.58
Jharkhand	0.00	0.00	18688.89	3308.14	21997.03
Odisha	0.00	0.00	0.00	20715.89	20715.89
West Bengal	0.00	0.00	39604.08	10877.46	50481.54
Sikkim	0.00	0.00	411.35	0.00	411.35
A & N Islands	0.00	0.00	268.50	0.00	268.50
<b>Sub-Total (ER)</b>	<b>0.00</b>	<b>0.00</b>	<b>81681.41</b>	<b>34901.49</b>	<b>116582.90</b>
Arunachal Pradesh	0.00	0.00	418.69	0.00	418.69
Assam	0.00	0.00	7109.00	0.00	7109.00
Manipur	0.00	0.00	631.16	0.00	631.16
Meghalaya	0.00	0.00	1259.48	0.00	1259.48
Mizoram	0.00	0.00	486.40	0.00	486.40
Nagaland	0.00	0.00	692.72	0.00	692.72
Tripura	0.00	0.00	914.22	0.00	914.22
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>0.00</b>	<b>11511.67</b>	<b>0.00</b>	<b>11511.67</b>
<b>Total (All India)</b>	<b>0.00</b>	<b>6175.64</b>	<b>945373.03</b>	<b>100797.70</b>	<b>1052346.36</b>

**Table 9.3**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORY - WISE/STATE - WISE**  
**UTILITIES**  
**2019-20**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	757.26	474.48	122.80	137.74	14.79
Delhi	16461.49	7653.32	3008.70	383.84	353.93
Haryana	11077.81	4875.92	1800.72	12163.83	223.06
Himachal Pradesh	2193.69	623.00	89.57	5233.30	10.75
Jammu & Kashmir & Ladakh	4445.60	1401.45	650.33	1398.80	62.85
Punjab	13612.80	3795.50	4136.01	14154.21	139.94
Rajasthan	12660.82	4813.26	3011.19	11298.00	304.76
Uttar Pradesh	42249.05	6697.85	4371.56	11329.33	873.25
Uttarakhand	3113.85	1396.93	311.94	6105.24	46.45
<b>Sub-Total (NR)</b>	<b>106572.37</b>	<b>31731.70</b>	<b>17502.82</b>	<b>62204.29</b>	<b>2029.77</b>
Chhattisgarh	5605.74	1563.46	557.61	8533.16	88.83
Gujarat	16100.60	5004.49	16615.52	39304.73	273.76
Madhya Pradesh	14959.69	3254.32	1342.35	10143.12	403.71
Maharashtra	29807.89	15739.56	9962.11	31582.52	1971.60
Daman & Diu	146.33	49.75	204.61	2067.03	6.31
D & N Haveli	154.02	36.60	219.44	5860.85	3.06
Goa	1208.13	616.64	132.41	2063.54	2.90
<b>Sub-Total (WR)</b>	<b>67982.40</b>	<b>26264.82</b>	<b>29034.06</b>	<b>99554.95</b>	<b>2750.17</b>
Andhra Pradesh	15840.35	4929.56	2832.18	12462.27	296.71
Telangana	12382.38	6187.45	1193.45	12510.59	340.89
Karnataka	13853.01	6861.97	1921.70	10338.87	1128.07
Kerala	11966.65	5166.96	1165.42	3131.47	369.38
Tamil Nadu	29140.34	10942.37	9622.86	26255.44	1151.87
Puducherry	810.59	219.86	183.69	1396.60	23.41
Lakshadweep	35.59	11.53	0.36	0.00	0.81
<b>Sub-Total (SR)</b>	<b>84028.90</b>	<b>34319.71</b>	<b>16919.65</b>	<b>66095.23</b>	<b>3311.13</b>
Bihar	13497.50	2126.53	654.09	2690.05	106.21
Jharkhand \$	5981.50	994.99	282.91	12980.14	127.87
Odisha	7522.81	2309.18	376.67	7038.65	229.46
West Bengal \$	17028.10	6671.22	2316.32	16701.54	770.23
Sikkim	107.94	42.05	1.85	226.64	0.34
A & N Islands	143.16	70.45	12.82	0.00	6.73
<b>Sub-Total (ER)</b>	<b>44281.02</b>	<b>12214.43</b>	<b>3644.66</b>	<b>39637.02</b>	<b>1240.84</b>
Arunachal Pradesh	167.38	51.53	4.42	117.67	10.22
Assam	3652.00	1078.00	113.80	1551.20	14.00
Manipur	388.08	68.12	21.49	9.31	10.19
Meghalaya	465.19	99.19	5.84	544.40	0.12
Mizoram	288.91	48.28	1.66	9.26	2.11
Nagaland	388.04	99.51	68.41	0.00	15.17
Tripura	531.07	71.83	17.23	22.88	48.09
<b>Sub-Total (NER)</b>	<b>5880.67</b>	<b>1516.47</b>	<b>232.85</b>	<b>2254.72</b>	<b>99.90</b>
<b>Total (All India)</b>	<b>308745.36</b>	<b>106047.13</b>	<b>67334.04</b>	<b>269746.21</b>	<b>9431.81</b>

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

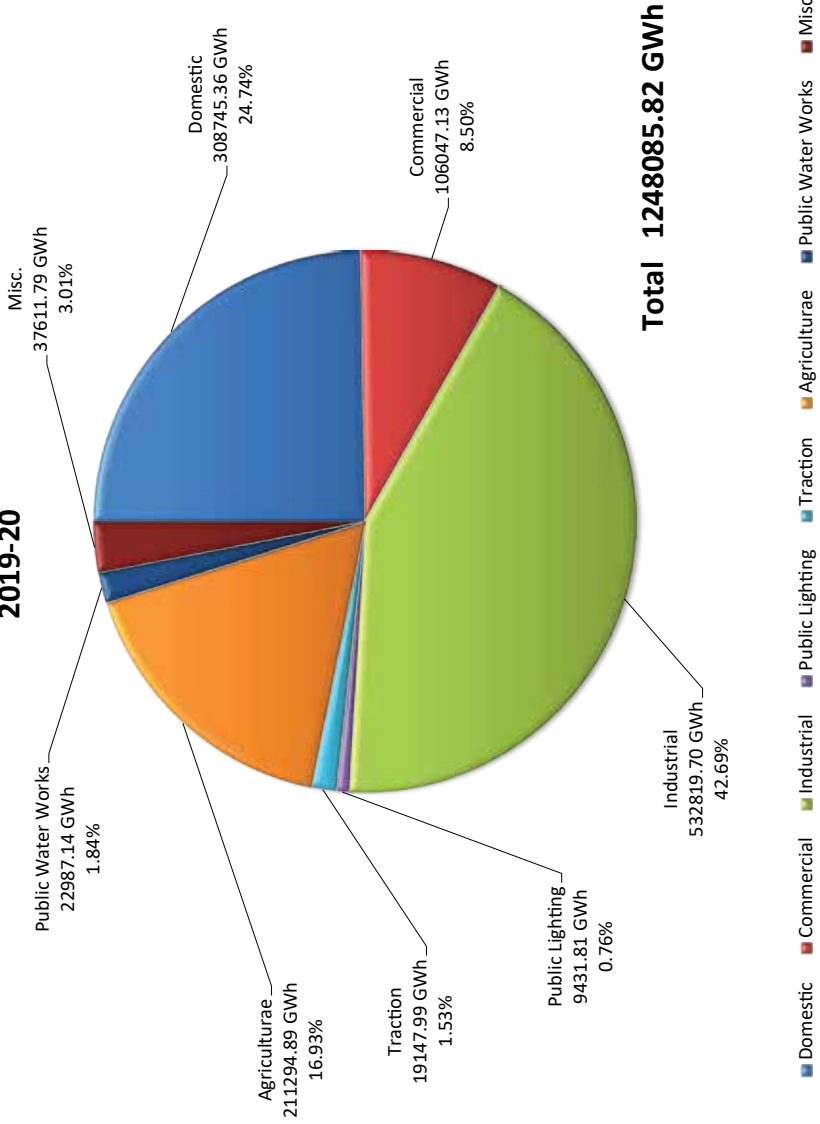
**Table 9.3 (Contd.)**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORY - WISE/STATE - WISE**  
**UTILITIES**  
**2019-20**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	1.02	9.59	86.13	<b>1603.81</b>
Delhi	221.00	37.36	389.20	1303.18	<b>29812.02</b>
Haryana	385.29	10371.16	1117.90	1366.38	<b>43382.05</b>
Himachal Pradesh	0.00	56.73	560.47	356.49	<b>9123.99</b>
Jammu & Kashmir & Ladakh	22.82	368.00	748.00	1525.00	<b>10622.85</b>
Punjab	258.22	11581.56	0.00	1489.81	<b>49168.06</b>
Rajasthan	381.88	25664.75	2370.57	1436.72	<b>61941.93</b>
Uttar Pradesh	1683.94	18200.05	1747.56	7779.54	<b>94932.13</b>
Uttarakhand	29.08	191.35	453.03	373.49	<b>12021.35</b>
<b>Sub-Total (NR)</b>	<b>2982.23</b>	<b>66471.96</b>	<b>7396.32</b>	<b>15716.74</b>	<b>312608.20</b>
Chhattisgarh	987.52	5082.35	374.40	0.00	<b>22793.08</b>
Gujarat	701.69	11989.83	2041.00	213.50	<b>92245.12</b>
Madhya Pradesh	2213.61	23016.94	1640.83	1653.86	<b>58628.43</b>
Maharashtra	2659.73	29291.23	2871.74	1758.57	<b>125644.95</b>
Daman & Diu	0.00	4.34	2.80	14.49	<b>2495.67</b>
D & N Haveli	0.00	5.25	5.01	3.75	<b>6287.98</b>
Goa	0.00	27.29	0.00	53.28	<b>4104.19</b>
<b>Sub-Total (WR)</b>	<b>6562.55</b>	<b>69417.23</b>	<b>6935.78</b>	<b>3697.45</b>	<b>312199.42</b>
Andhra Pradesh	1595.23	15338.12	955.32	2869.04	<b>57118.77</b>
Telangana	785.66	20820.54	867.88	4275.70	<b>59364.54</b>
Karnataka	138.61	21823.07	3932.42	1132.92	<b>61130.64</b>
Kerala	323.67	360.47	0.26	664.65	<b>23148.94</b>
Tamil Nadu	971.71	13828.26	1151.87	2854.36	<b>95919.07</b>
Puducherry	0.00	55.32	0.00	24.31	<b>2713.78</b>
Lakshadweep	0.00	0.00	0.00	0.14	<b>48.42</b>
<b>Sub-Total (SR)</b>	<b>3814.88</b>	<b>72225.77</b>	<b>6907.75</b>	<b>11821.13</b>	<b>299444.17</b>
Bihar	1442.74	932.94	130.99	1127.53	<b>22708.58</b>
Jharkhand \$	1003.42	193.91	0.00	432.29	<b>21997.03</b>
Odisha	1473.55	579.15	327.03	859.39	<b>20715.89</b>
West Bengal \$	1868.62	1398.75	1007.23	2719.53	<b>50481.54</b>
Sikkim	0.00	0.00	0.00	32.53	<b>411.35</b>
A & N Islands	0.00	1.12	0.00	34.23	<b>268.50</b>
<b>Sub-Total (ER)</b>	<b>5788.33</b>	<b>3105.87</b>	<b>1465.25</b>	<b>5205.49</b>	<b>116582.90</b>
Arunachal Pradesh	0.00	0.03	0.00	67.44	<b>418.69</b>
Assam	0.00	37.00	77.00	586.00	<b>7109.00</b>
Manipur	0.00	2.18	21.82	109.97	<b>631.16</b>
Meghalaya	0.00	0.31	41.86	102.57	<b>1259.48</b>
Mizoram	0.00	0.14	64.29	71.74	<b>486.40</b>
Nagaland	0.00	0.00	10.58	111.01	<b>692.72</b>
Tripura	0.00	34.38	66.48	122.25	<b>914.22</b>
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>74.05</b>	<b>282.03</b>	<b>1170.98</b>	<b>11511.67</b>
<b>Total (All India)</b>	<b>19147.99</b>	<b>211294.89</b>	<b>22987.14</b>	<b>37611.79</b>	<b>1052346.36</b>



### ELECTRICITY CONSUMPTION PATTERN UTILITIES & NON-UTILITIES 2019-20



**Table 9.3 (A)**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORY - WISE/STATE - WISE**  
**UTILITIES & NON-UTILITIES**  
**2019-20**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	757.26	474.48	122.80	139.43	14.79
Delhi	16461.49	7653.32	3008.70	384.78	353.93
Haryana	11077.81	4875.92	1800.72	15529.14	223.06
Himachal Pradesh	2193.69	623.00	89.57	5360.02	10.75
Jammu & Kashmir & Ladakh	4445.60	1401.45	650.33	1404.46	62.85
Punjab	13612.80	3795.50	4136.01	16734.16	139.94
Rajasthan	12660.82	4813.26	3011.19	21479.28	304.76
Uttar Pradesh	42249.05	6697.85	4371.56	22651.62	873.25
Uttarakhand	3113.85	1396.93	311.94	6969.42	46.45
<b>Sub-Total (NR)</b>	<b>106572.37</b>	<b>31731.70</b>	<b>17502.82</b>	<b>90652.30</b>	<b>2029.77</b>
Chhattisgarh	5605.74	1563.46	557.61	33018.31	88.83
Gujarat	16100.60	5004.49	16615.52	61410.43	273.76
Madhya Pradesh	14959.69	3254.32	1342.35	26138.63	403.71
Maharashtra	29807.89	15739.56	9962.11	39188.41	1971.60
Daman & Diu	146.33	49.75	204.61	2067.52	6.31
D & N Haveli	154.02	36.60	219.44	5883.38	3.06
Goa	1208.13	616.64	132.41	2379.04	2.90
<b>Sub-Total (WR)</b>	<b>67982.40</b>	<b>26264.82</b>	<b>29034.06</b>	<b>170085.72</b>	<b>2750.17</b>
Andhra Pradesh	15840.35	4929.56	2832.18	20897.36	296.71
Telangana	12382.38	6187.45	1193.45	15289.51	340.89
Karnataka	13853.01	6861.97	1921.70	22347.47	1128.07
Kerala	11966.65	5166.96	1165.42	4534.54	369.38
Tamil Nadu	29140.34	10942.37	9622.86	33920.70	1151.87
Puducherry	810.59	219.86	183.69	1589.20	23.41
Lakshadweep	35.59	11.53	0.36	0.00	0.81
<b>Sub-Total (SR)</b>	<b>84028.90</b>	<b>34319.71</b>	<b>16919.65</b>	<b>98578.77</b>	<b>3311.13</b>
Bihar	13497.50	2126.53	654.09	3158.47	106.21
Jharkhand \$	5981.50	994.99	282.91	19773.07	127.87
Odisha	7522.81	2309.18	376.67	58822.84	229.46
West Bengal \$	17028.10	6671.22	2316.32	20603.09	770.23
Sikkim	107.94	42.05	1.85	226.64	0.34
A & N Islands	143.16	70.45	12.82	0.00	6.73
<b>Sub-Total (ER)</b>	<b>44281.02</b>	<b>12214.43</b>	<b>3644.66</b>	<b>102584.10</b>	<b>1240.84</b>
Arunachal Pradesh	167.38	51.53	4.42	117.67	10.22
Assam	3652.00	1078.00	113.80	2798.99	14.00
Manipur	388.08	68.12	21.49	9.31	10.19
Meghalaya	465.19	99.19	5.84	626.66	0.12
Mizoram	288.91	48.28	1.66	9.26	2.11
Nagaland	388.04	99.51	68.41	0.00	15.17
Tripura	531.07	71.83	17.23	22.88	48.09
<b>Sub-Total (NER)</b>	<b>5880.67</b>	<b>1516.47</b>	<b>232.85</b>	<b>3584.77</b>	<b>99.90</b>
<b>Total (All India)</b>	<b>308745.36</b>	<b>106047.13</b>	<b>67334.04</b>	<b>465485.67</b>	<b>9431.81</b>

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



**Table 9.3 (A) (Contd.)**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORY - WISE/STATE - WISE**  
**UTILITIES & NON-UTILITIES**  
**2019-20**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	1.02	9.59	86.13	1605.50
Delhi	221.00	37.36	389.20	1303.18	29812.96
Haryana	385.29	10371.16	1117.90	1366.38	46747.36
Himachal Pradesh	0.00	56.73	560.47	356.49	9250.72
Jammu & Kashmir & Ladakh	22.82	368.00	748.00	1525.00	10628.51
Punjab	258.22	11581.56	0.00	1489.81	51748.01
Rajasthan	381.88	25664.75	2370.57	1436.72	72123.21
Uttar Pradesh	1683.94	18200.05	1747.56	7779.54	106254.41
Uttarakhand	29.08	191.35	453.03	373.49	12885.53
<b>Sub-Total (NR)</b>	<b>2982.23</b>	<b>66471.96</b>	<b>7396.32</b>	<b>15716.74</b>	<b>341056.21</b>
Chhattisgarh	987.52	5082.35	374.40	0.00	47278.23
Gujarat	701.69	11989.83	2041.00	213.50	114350.82
Madhya Pradesh	2213.61	23016.94	1640.83	1653.86	74623.95
Maharashtra	2659.73	29291.23	2871.74	1758.57	133250.84
Daman & Diu	0.00	4.34	2.80	14.49	2496.16
D & N Haveli	0.00	5.25	5.01	3.75	6310.51
Goa	0.00	27.29	0.00	53.28	4419.69
<b>Sub-Total (WR)</b>	<b>6562.55</b>	<b>69417.23</b>	<b>6935.78</b>	<b>3697.45</b>	<b>382730.19</b>
Andhra Pradesh	1595.23	15338.12	955.32	2869.04	65553.87
Telangana	785.66	20820.54	867.88	4275.70	62143.45
Karnataka	138.61	21823.07	3932.42	1132.92	73139.23
Kerala	323.67	360.47	0.26	664.65	24552.01
Tamil Nadu	971.71	13828.26	1151.87	2854.36	103584.34
Puducherry	0.00	55.32	0.00	24.31	2906.38
Lakshadweep	0.00	0.00	0.00	0.14	48.42
<b>Sub-Total (SR)</b>	<b>3814.88</b>	<b>72225.77</b>	<b>6907.75</b>	<b>11821.13</b>	<b>331927.71</b>
Bihar	1442.74	932.94	130.99	1127.53	23177.00
Jharkhand \$	1003.42	193.91	0.00	432.29	28789.96
Odisha	1473.55	579.15	327.03	859.39	72500.08
West Bengal \$	1868.62	1398.75	1007.23	2719.53	54383.09
Sikkim	0.00	0.00	0.00	32.53	411.35
A & N Islands	0.00	1.12	0.00	34.23	268.50
<b>Sub-Total (ER)</b>	<b>5788.33</b>	<b>3105.87</b>	<b>1465.25</b>	<b>5205.49</b>	<b>179529.99</b>
Arunachal Pradesh	0.00	0.03	0.00	67.44	418.69
Assam	0.00	37.00	77.00	586.00	8356.79
Manipur	0.00	2.18	21.82	109.97	631.16
Meghalaya	0.00	0.31	41.86	102.57	1341.74
Mizoram	0.00	0.14	64.29	71.74	486.40
Nagaland	0.00	0.00	10.58	111.01	692.72
Tripura	0.00	34.38	66.48	122.25	914.22
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>74.05</b>	<b>282.03</b>	<b>1170.98</b>	<b>12841.72</b>
<b>Total (All India)</b>	<b>19147.99</b>	<b>211294.89</b>	<b>22987.14</b>	<b>37611.79</b>	<b>1248085.82</b>

**Table 9.4**  
**ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES**  
**CATEGORY-WISE & STATE-WISE**  
**2019-20**

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Delhi	16084.72	6594.72	3008.70	383.84	346.21
Rajasthan	0.00	0.00	0.00	0.00	0.00
Uttar Pradesh	586.39	295.33	1077.73	0.00	33.14
<b>Sub-Total (NR)</b>	<b>16671.11</b>	<b>6890.05</b>	<b>4086.43</b>	<b>383.84</b>	<b>379.35</b>
Gujarat	3927.11	1860.68	5914.21	3465.31	17.94
Madhya Pradesh	255.82	30.78	36.40	0.00	5.71
Maharashtra	6324.82	5632.46	835.60	1232.18	48.90
Goa	0.00	0.00	31.29	93.14	0.00
<b>Sub-Total (WR)</b>	<b>10507.76</b>	<b>7523.92</b>	<b>6817.50</b>	<b>4790.63</b>	<b>72.54</b>
Andhra Pradesh	205.84	30.45	46.75	0.00	10.54
Telangana	125.68	20.02	102.27	0.00	6.32
Karnataka	33.38	8.30	5.76	2680.12	2.29
Kerala	7.31	12.20	66.06	154.43	0.62
<b>Sub-Total (SR)</b>	<b>372.21</b>	<b>70.97</b>	<b>220.83</b>	<b>2834.55</b>	<b>19.78</b>
Jharkhand	317.07	91.62	12.23	2451.49	81.91
Odisha	7522.81	2309.18	376.67	7038.65	229.46
West Bengal	4812.15	1902.29	799.08	2075.07	275.13
<b>Sub-Total (ER)</b>	<b>12652.03</b>	<b>4303.10</b>	<b>1187.98</b>	<b>11565.21</b>	<b>586.50</b>
Assam	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Total (All India)</b>	<b>40203.11</b>	<b>18788.03</b>	<b>12312.74</b>	<b>19574.24</b>	<b>1058.16</b>

**Table 9.4 (Contd.)  
ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES  
CATEGORY-WISE & STATE-WISE  
2019-20**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Delhi	221.00	37.36	386.50	1204.30	<b>28267.34</b>
Rajasthan	381.88	0.00	0.00	0.00	<b>381.88</b>
Uttar Pradesh	0.00	21.73	20.65	45.69	<b>2080.66</b>
<b>Sub-Total (NR)</b>	<b>602.88</b>	<b>59.09</b>	<b>407.15</b>	<b>1249.99</b>	<b>30729.88</b>
Gujarat	15.35	46.33	165.97	50.78	<b>15463.68</b>
Madhya Pradesh	0.00	225.55	17.86	26.03	<b>598.15</b>
Maharashtra	99.38	0.22	96.35	14.02	<b>14283.93</b>
Goa	0.00	0.00	0.00	0.00	<b>124.43</b>
<b>Sub-Total (WR)</b>	<b>114.73</b>	<b>272.10</b>	<b>280.18</b>	<b>90.84</b>	<b>30470.20</b>
Andhra Pradesh	0.15	408.10	22.65	2.58	<b>727.06</b>
Telangana	0.00	481.82	67.32	1.37	<b>804.80</b>
Karnataka	0.00	177.66	12.64	0.07	<b>2920.23</b>
Kerala	0.00	0.59	0.09	2.74	<b>244.04</b>
<b>Sub-Total (SR)</b>	<b>0.15</b>	<b>1068.18</b>	<b>102.70</b>	<b>6.75</b>	<b>4696.12</b>
Jharkhand	1.68	0.00	0.00	352.14	<b>3308.14</b>
Odisha	1473.55	579.15	327.03	859.39	<b>20715.89</b>
West Bengal	253.62	0.00	489.58	270.54	<b>10877.46</b>
<b>Sub-Total (ER)</b>	<b>1728.85</b>	<b>579.15</b>	<b>816.61</b>	<b>1482.06</b>	<b>34901.49</b>
Assam	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Total (All India)</b>	<b>2446.61</b>	<b>1978.52</b>	<b>1606.65</b>	<b>2829.64</b>	<b>100797.70</b>



**Table 9.5**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY**  
**DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.**  
**UNDERTAKINGS AND MUNICIPALITIES CATEGORY-WISE & STATE-WISE**  
**2019-20**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
<b>I. MUNICIPALITIES</b>					
N.D.M.C (Delhi)	288.37	1058.60	0.00	0.00	7.72
Maharashtra	2064.75	2097.19	131.36	178.86	15.98
Kerala	42.25	60.29	3.86	0.00	0.94
<b>Sub-Total</b>	<b>2395.38</b>	<b>3216.08</b>	<b>135.22</b>	<b>178.86</b>	<b>24.65</b>
<b>II. GOVT. DEPTT. / CENTRAL SECTOR UNDERTAKINGS / CORPORATIONS</b>					
Chandigarh	757.26	474.48	122.80	137.74	14.79
Delhi	88.40	0.00	0.00	0.00	0.00
Haryana	11077.81	4875.92	1800.72	12163.83	223.06
Himachal Pradesh	2193.69	623.00	89.57	5233.30	10.75
Jammu & Kashmir & Ladakh	4445.60	1401.45	650.33	1398.80	62.85
Punjab	13612.80	3795.50	4136.01	14154.21	139.94
Rajasthan	12660.82	4813.26	3011.19	11298.00	304.76
Uttar Pradesh	41662.66	6402.52	3293.83	11329.33	840.11
Uttarakhand	3113.85	1396.93	311.94	6105.24	46.45
Chhattisgarh	5605.74	1563.46	557.61	8533.16	88.83
Gujarat	12173.49	3143.81	10701.30	35839.42	255.82
Madhya Pradesh	14703.87	3223.54	1305.95	10143.12	398.00
Maharashtra	21418.31	8009.91	8995.15	30171.47	1906.71
Daman & Diu	146.33	49.75	204.61	2067.03	6.31
D & N Haveli	154.02	36.60	219.44	5860.85	3.06
Goa	1208.13	616.64	101.12	1970.40	2.90
Andhra Pradesh	15634.51	4899.11	2785.42	12462.27	286.17
Telangana	12256.70	6167.43	1091.18	12510.59	334.57
Karnataka	13819.62	6853.68	1915.94	7658.75	1125.77
Kerala	11917.08	5094.48	1095.51	2977.04	367.82
Tamil Nadu	29140.34	10942.37	9622.86	26255.44	1151.87
Puducherry	810.59	219.86	183.69	1396.60	23.41
Lakshadweep	35.59	11.53	0.36	0.00	0.81
Bihar	13497.50	2126.53	654.09	2690.05	106.21
DVC in Jharkhand	0.00	25.91	54.33	8373.66	0.00
DVC in West Bengal	0.00	17.27	36.22	5582.44	0.00
Jharkhand	5664.43	877.47	216.34	2154.99	45.96
Odisha	0.00	0.00	0.00	0.00	0.00
West Bengal	12215.95	4751.66	1481.02	9044.03	495.10
Sikkim	107.94	42.05	1.85	226.64	0.34
A. & N. Islands	143.16	70.45	12.82	0.00	6.73
Arunachal Pradesh	167.38	51.53	4.42	117.67	10.22
Assam	3652.00	1078.00	113.80	1551.20	14.00
Manipur	388.08	68.12	21.49	9.31	10.19
Meghalaya	465.19	99.19	5.84	544.40	0.12
Mizoram	288.91	48.28	1.66	9.26	2.11
Nagaland	388.04	99.51	68.41	0.00	15.17
Tripura	531.07	71.83	17.23	22.88	48.09
<b>Sub-Total</b>	<b>266146.87</b>	<b>84043.02</b>	<b>54886.07</b>	<b>249993.11</b>	<b>8349.00</b>
<b>Total (I &amp; II)</b>	<b>268542.26</b>	<b>87259.10</b>	<b>55021.29</b>	<b>250171.97</b>	<b>8373.65</b>

**Table 9.5 (Contd.)**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY**  
**DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.**  
**UNDERTAKINGS AND MUNICIPALITIES CATEGORY-WISE & STATE-WISE**  
**2019-20**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
<b>I. MUNICIPALITIES</b>					
N.D.M.C (Delhi)	0.00	0.00	2.70	98.88	1456.28
Maharashtra	2.22	0.00	42.79	36.17	4569.34
Kerala	0.71	0.06	0.00	41.90	150.01
<b>Sub-Total</b>	<b>2.93</b>	<b>0.06</b>	<b>45.49</b>	<b>176.96</b>	<b>6175.64</b>
<b>II. GOVT. DEPTT. / CENTRAL SECTOR UNDERTAKINGS / CORPORATIONS</b>					
Chandigarh	0.00	1.02	9.59	86.13	1603.81
Delhi	0.00	0.00	0.00	0.00	88.40
Haryana	385.29	10371.16	1117.90	1366.38	43382.05
Himachal Pradesh	0.00	56.73	560.47	356.49	9123.99
Jammu & Kashmir & Ladakh	22.82	368.00	748.00	1525.00	10622.85
Punjab	258.22	11581.56	0.00	1489.81	49168.06
Rajasthan	0.00	25664.75	2370.57	1436.72	61560.05
Uttar Pradesh	1683.94	18178.32	1726.91	7733.85	92851.47
Uttarakhand	29.08	191.35	453.03	373.49	12021.35
Chhattisgarh	987.52	5082.35	374.40	0.00	22793.08
Gujarat	686.34	11943.50	1875.03	162.71	76781.44
Madhya Pradesh	2213.61	22791.39	1622.97	1627.83	58030.28
Maharashtra	2558.13	29291.01	2732.60	1708.38	106791.68
Daman & Diu	0.00	4.34	2.80	14.49	2495.67
D & N Haveli	0.00	5.25	5.01	3.75	6287.98
Goa	0.00	27.29	0.00	53.28	3979.76
Andhra Pradesh	1595.08	14930.02	932.67	2866.47	56391.72
Telangana	785.66	20338.71	800.56	4274.34	58559.73
Karnataka	138.61	21645.40	3919.78	1132.85	58210.41
Kerala	322.96	359.82	0.17	620.01	22754.89
Tamil Nadu	971.71	13828.26	1151.87	2854.36	95919.07
Puducherry	0.00	55.32	0.00	24.31	2713.78
Lakshadweep	0.00	0.00	0.00	0.14	48.42
Bihar	1442.74	932.94	130.99	1127.53	22708.58
DVC in Jharkhand	143.87	0.00	0.00	80.15	8677.92
DVC in West Bengal	409.96	0.00	0.00	53.43	6099.32
Jharkhand	857.87	193.91	0.00	0.00	10010.97
Odisha	0.00	0.00	0.00	0.00	0.00
West Bengal	1205.04	1398.75	517.65	2395.56	33504.76
Sikkim	0.00	0.00	0.00	32.53	411.35
A. & N. Islands	0.00	1.12	0.00	34.23	268.50
Arunachal Pradesh	0.00	0.03	0.00	67.44	418.69
Assam	0.00	37.00	77.00	586.00	7109.00
Manipur	0.00	2.18	21.82	109.97	631.16
Meghalaya	0.00	0.31	41.86	102.57	1259.48
Mizoram	0.00	0.14	64.29	71.74	486.40
Nagaland	0.00	0.00	10.58	111.01	692.72
Tripura	0.00	34.38	66.48	122.25	914.22
<b>Sub-Total</b>	<b>16698.45</b>	<b>209316.31</b>	<b>21335.00</b>	<b>34605.18</b>	<b>945373.03</b>
<b>Total (I &amp; II)</b>	<b>16701.38</b>	<b>209316.37</b>	<b>21380.49</b>	<b>34782.15</b>	<b>951548.66</b>

**Table 9.6**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE UTILITIES**  
**2019-20**

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	47.22	29.58	7.66	8.59	0.92
Delhi	55.22	25.67	10.09	1.29	1.19
Haryana	25.54	11.24	4.15	28.04	0.51
Himachal Pradesh	24.04	6.83	0.98	57.36	0.12
Jammu & Kashmir & Ladakh	41.85	13.19	6.12	13.17	0.59
Punjab	27.69	7.72	8.41	28.79	0.28
Rajasthan	20.44	7.77	4.86	18.24	0.49
Uttar Pradesh	44.50	7.06	4.60	11.93	0.92
Uttarakhand	25.90	11.62	2.59	50.79	0.39
<b>Northern Region</b>	<b>34.09</b>	<b>10.15</b>	<b>5.60</b>	<b>19.90</b>	<b>0.65</b>
Chhattisgarh	24.59	6.86	2.45	37.44	0.39
Gujarat	17.45	5.43	18.01	42.61	0.30
Madhya Pradesh	25.52	5.55	2.29	17.30	0.69
Maharashtra	23.72	12.53	7.93	25.14	1.57
Daman & Diu	5.86	1.99	8.20	82.82	0.25
D & N Haveli	2.45	0.58	3.49	93.21	0.05
Goa	29.44	15.02	3.23	50.28	0.07
<b>Western Region</b>	<b>21.78</b>	<b>8.41</b>	<b>9.30</b>	<b>31.89</b>	<b>0.88</b>
Andhra Pradesh	27.73	8.63	4.96	21.82	0.52
Telangana	20.86	10.42	2.01	21.07	0.57
Karnataka	22.66	11.23	3.14	16.91	1.85
Kerala	51.69	22.32	5.03	13.53	1.60
Tamil Nadu	30.38	11.41	10.03	27.37	1.20
Puducherry	29.87	8.10	6.77	51.46	0.86
Lakshadweep	73.49	23.81	0.74	0.00	1.66
<b>Southern Region</b>	<b>28.06</b>	<b>11.46</b>	<b>5.65</b>	<b>22.07</b>	<b>1.11</b>
Bihar	59.44	9.36	2.88	11.85	0.47
Jharkhand	27.19	4.52	1.29	59.01	0.58
Odisha	36.31	11.15	1.82	33.98	1.11
West Bengal	33.73	13.22	4.59	33.08	1.53
Sikkim	26.24	10.22	0.45	55.10	0.08
A & N Islands	53.32	26.24	4.77	0.00	2.51
<b>Eastern Region</b>	<b>37.98</b>	<b>10.48</b>	<b>3.13</b>	<b>34.00</b>	<b>1.06</b>
Arunachal Pradesh	39.98	12.31	1.06	28.10	2.44
Assam	51.37	15.16	1.60	21.82	0.20
Manipur	61.49	10.79	3.40	1.48	1.61
Meghalaya	36.93	7.88	0.46	43.22	0.01
Mizoram	59.40	9.93	0.34	1.90	0.43
Nagaland	56.02	14.37	9.88	0.00	2.19
Tripura	58.09	7.86	1.88	2.50	5.26
<b>North-Eastern Region</b>	<b>51.08</b>	<b>13.17</b>	<b>2.02</b>	<b>19.59</b>	<b>0.87</b>
<b>Total (All India)</b>	<b>29.34</b>	<b>10.08</b>	<b>6.40</b>	<b>25.63</b>	<b>0.90</b>

**Table 9.6 (Contd.)**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE UTILITIES**  
**2019-20**

State / UTs	% age of total Energy Sold				Total Energy Sold (GWh)
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	
Chandigarh	0.00	0.06	0.60	5.37	1603.81
Delhi	0.74	0.13	1.31	4.37	29812.02
Haryana	0.89	23.91	2.58	3.15	43382.05
Himachal Pradesh	0.00	0.62	6.14	3.91	9123.99
Jammu & Kashmir & Ladakh	0.21	3.46	7.04	14.36	10622.85
Punjab	0.53	23.56	0.00	3.03	49168.06
Rajasthan	0.62	41.43	3.83	2.32	61941.93
Uttar Pradesh	1.77	19.17	1.84	8.19	94932.13
Uttarakhand	0.24	1.59	3.77	3.11	12021.35
<b>Northern Region</b>	<b>0.95</b>	<b>21.26</b>	<b>2.37</b>	<b>5.03</b>	<b>312608.20</b>
Chhattisgarh	4.33	22.30	1.64	0.00	22793.08
Gujarat	0.76	13.00	2.21	0.23	92245.12
Madhya Pradesh	3.78	39.26	2.80	2.82	58628.43
Maharashtra	2.12	23.31	2.29	1.40	125644.95
Daman & Diu	0.00	0.17	0.11	0.58	2495.67
D & N Haveli	0.00	0.08	0.08	0.06	6287.98
Goa	0.00	0.66	0.00	1.30	4104.19
<b>Western Region</b>	<b>2.10</b>	<b>22.23</b>	<b>2.22</b>	<b>1.18</b>	<b>312199.42</b>
Andhra Pradesh	2.79	26.85	1.67	5.02	57118.77
Telangana	1.32	35.07	1.46	7.20	59364.54
Karnataka	0.23	35.70	6.43	1.85	61130.64
Kerala	1.40	1.56	0.00	2.87	23148.94
Tamil Nadu	1.01	14.42	1.20	2.98	95919.07
Puducherry	0.00	2.04	0.00	0.90	2713.78
Lakshadweep	0.00	0.00	0.00	0.29	48.42
<b>Southern Region</b>	<b>1.27</b>	<b>24.12</b>	<b>2.31</b>	<b>3.95</b>	<b>299444.17</b>
Bihar	6.35	4.11	0.58	4.97	22708.58
Jharkhand	4.56	0.88	0.00	1.97	21997.03
Odisha	7.11	2.80	1.58	4.15	20715.89
West Bengal	3.70	2.77	2.00	5.39	50481.54
Sikkim	0.00	0.00	0.00	7.91	411.35
A & N Islands	0.00	0.42	0.00	12.75	268.50
<b>Eastern Region</b>	<b>4.96</b>	<b>2.66</b>	<b>1.26</b>	<b>4.47</b>	<b>116582.90</b>
Arunachal Pradesh	0.00	0.01	0.00	16.11	418.69
Assam	0.00	0.52	1.08	8.24	7109.00
Manipur	0.00	0.35	3.46	17.42	631.16
Meghalaya	0.00	0.02	3.32	8.14	1259.48
Mizoram	0.00	0.03	13.22	14.75	486.40
Nagaland	0.00	0.00	1.53	16.02	692.72
Tripura	0.00	3.76	7.27	13.37	914.22
<b>North-Eastern Region</b>	<b>0.00</b>	<b>0.64</b>	<b>2.45</b>	<b>10.17</b>	<b>11511.67</b>
<b>Total (All India)</b>	<b>1.82</b>	<b>20.08</b>	<b>2.18</b>	<b>3.57</b>	<b>1052346.36</b>

**Table 9.6 (A)**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE**  
**UTILITIES & NON-UTILITIES**  
**2019-20**

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	47.17	29.55	7.65	8.68	0.92
Delhi	55.22	25.67	10.09	1.29	1.19
Haryana	23.70	10.43	3.85	33.22	0.48
Himachal Pradesh	23.71	6.73	0.97	57.94	0.12
Jammu & Kashmir & Ladakh	41.83	13.19	6.12	13.21	0.59
Punjab	26.31	7.33	7.99	32.34	0.27
Rajasthan	17.55	6.67	4.18	29.78	0.42
Uttar Pradesh	39.76	6.30	4.11	21.32	0.82
Uttarakhand	24.17	10.84	2.42	54.09	0.36
<b>Northern Region</b>	<b>31.25</b>	<b>9.30</b>	<b>5.13</b>	<b>26.58</b>	<b>0.60</b>
Chhattisgarh	11.86	3.31	1.18	69.84	0.19
Gujarat	14.08	4.38	14.53	53.70	0.24
Madhya Pradesh	20.05	4.36	1.80	35.03	0.54
Maharashtra	22.37	11.81	7.48	29.41	1.48
Daman & Diu	5.86	1.99	8.20	82.83	0.25
D & N Haveli	2.44	0.58	3.48	93.23	0.05
Goa	27.34	13.95	3.00	53.83	0.07
<b>Western Region</b>	<b>17.76</b>	<b>6.86</b>	<b>7.59</b>	<b>44.44</b>	<b>0.72</b>
Andhra Pradesh	24.16	7.52	4.32	31.88	0.45
Telangana	19.93	9.96	1.92	24.60	0.55
Karnataka	18.94	9.38	2.63	30.55	1.54
Kerala	48.74	21.04	4.75	18.47	1.50
Tamil Nadu	28.13	10.56	9.29	32.75	1.11
Puducherry	27.89	7.56	6.32	54.68	0.81
Lakshadweep	73.49	23.81	0.74	0.00	1.66
<b>Southern Region</b>	<b>25.32</b>	<b>10.34</b>	<b>5.10</b>	<b>29.70</b>	<b>1.00</b>
Bihar	58.24	9.18	2.82	13.63	0.46
Jharkhand	20.78	3.46	0.98	68.68	0.44
Odisha	10.38	3.19	0.52	81.13	0.32
West Bengal	31.31	12.27	4.26	37.89	1.42
Sikkim	26.24	10.22	0.45	55.10	0.08
A & N Islands	53.32	26.24	4.77	0.00	2.51
<b>Eastern Region</b>	<b>24.66</b>	<b>6.80</b>	<b>2.03</b>	<b>57.14</b>	<b>0.69</b>
Arunachal Pradesh	39.98	12.31	1.06	28.10	2.44
Assam	43.70	12.90	1.36	33.49	0.17
Manipur	61.49	10.79	3.40	1.48	1.61
Meghalaya	34.67	7.39	0.44	46.71	0.01
Mizoram	59.40	9.93	0.34	1.90	0.43
Nagaland	56.02	14.37	9.88	0.00	2.19
Tripura	58.09	7.86	1.88	2.50	5.26
<b>North-Eastern Region</b>	<b>45.79</b>	<b>11.81</b>	<b>1.81</b>	<b>27.92</b>	<b>0.78</b>
<b>Total (All India)</b>	<b>24.74</b>	<b>8.50</b>	<b>5.39</b>	<b>37.30</b>	<b>0.76</b>



**Table 9.6 (A) (Contd.)**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE**  
**UTILITIES & NON-UTILITIES**  
**2019-20**

State / UTs	% age of total Energy Sold				Total Energy Sold (GWh)
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	
Chandigarh	0.00	0.06	0.60	5.36	1605.50
Delhi	0.74	0.13	1.31	4.37	29812.96
Haryana	0.82	22.19	2.39	2.92	46747.36
Himachal Pradesh	0.00	0.61	6.06	3.85	9250.72
Jammu & Kashmir & Ladakh	0.21	3.46	7.04	14.35	10628.51
Punjab	0.50	22.38	0.00	2.88	51748.01
Rajasthan	0.53	35.58	3.29	1.99	72123.21
Uttar Pradesh	1.58	17.13	1.64	7.32	106254.41
Uttarakhand	0.23	1.49	3.52	2.90	12885.53
<b>Northern Region</b>	<b>0.87</b>	<b>19.49</b>	<b>2.17</b>	<b>4.61</b>	<b>341056.21</b>
Chhattisgarh	2.09	10.75	0.79	0.00	47278.23
Gujarat	0.61	10.49	1.78	0.19	114350.82
Madhya Pradesh	2.97	30.84	2.20	2.22	74623.95
Maharashtra	2.00	21.98	2.16	1.32	133250.84
Daman & Diu	0.00	0.17	0.11	0.58	2496.16
D & N Haveli	0.00	0.08	0.08	0.06	6310.51
Goa	0.00	0.62	0.00	1.21	4419.69
<b>Western Region</b>	<b>1.71</b>	<b>18.14</b>	<b>1.81</b>	<b>0.97</b>	<b>382730.19</b>
Andhra Pradesh	2.43	23.40	1.46	4.38	65553.87
Telangana	1.26	33.50	1.40	6.88	62143.45
Karnataka	0.19	29.84	5.38	1.55	73139.23
Kerala	1.32	1.47	0.00	2.71	24552.01
Tamil Nadu	0.94	13.35	1.11	2.76	103584.34
Puducherry	0.00	1.90	0.00	0.84	2906.38
Lakshadweep	0.00	0.00	0.00	0.29	48.42
<b>Southern Region</b>	<b>1.15</b>	<b>21.76</b>	<b>2.08</b>	<b>3.56</b>	<b>331927.71</b>
Bihar	6.22	4.03	0.57	4.86	23177.00
Jharkhand	3.49	0.67	0.00	1.50	28789.96
Odisha	2.03	0.80	0.45	1.19	72500.08
West Bengal	3.44	2.57	1.85	5.00	54383.09
Sikkim	0.00	0.00	0.00	7.91	411.35
A & N Islands	0.00	0.42	0.00	12.75	268.50
<b>Eastern Region</b>	<b>3.22</b>	<b>1.73</b>	<b>0.82</b>	<b>2.90</b>	<b>179529.99</b>
Arunachal Pradesh	0.00	0.01	0.00	16.11	418.69
Assam	0.00	0.44	0.92	7.01	8356.79
Manipur	0.00	0.35	3.46	17.42	631.16
Meghalaya	0.00	0.02	3.12	7.64	1341.74
Mizoram	0.00	0.03	13.22	14.75	486.40
Nagaland	0.00	0.00	1.53	16.02	692.72
Tripura	0.00	3.76	7.27	13.37	914.22
<b>North-Eastern Region</b>	<b>0.00</b>	<b>0.58</b>	<b>2.20</b>	<b>9.12</b>	<b>12841.72</b>
<b>Total (All India)</b>	<b>1.53</b>	<b>16.93</b>	<b>1.84</b>	<b>3.01</b>	<b>1248085.82</b>



**Table 9.7**  
**PER CAPITA ULTIMATE CONSUMPTION OF ELECTRICITY**  
**STATE-WISE/CATEGORY-WISE**  
**UTILITIES**  
**2019-20**

(GWh)

State / UTs	Population (Million)	Domestic	Commercial	Industrial Power	
				(Low & Med. Voltage)	(High Voltage)
Chandigarh	2.08	363.89	228.00	59.01	66.19
Delhi	23.55	699.12	325.04	127.78	16.30
Haryana	28.86	383.91	168.98	62.41	421.55
Himachal Pradesh	7.29	300.92	85.46	12.29	717.87
Jammu & Kashmir & Ladakh	12.85	346.01	109.08	50.62	108.87
Punjab	30.01	453.59	126.47	137.82	471.63
Rajasthan	76.39	165.75	63.01	39.42	147.91
Uttar Pradesh	230.11	183.60	29.11	19.00	49.23
Uttarakhand	11.08	280.96	126.04	28.15	550.87
<b>Northern Region</b>	<b>422.21</b>	<b>252.41</b>	<b>75.16</b>	<b>41.45</b>	<b>147.33</b>
Chhattisgarh	26.96	207.97	58.00	20.69	316.57
Gujarat	65.28	246.62	76.66	254.51	602.06
Madhya Pradesh	81.73	183.05	39.82	16.43	124.11
Maharashtra	125.15	238.18	125.77	79.60	252.36
Daman & Diu	0.38	381.08	129.56	532.84	5382.88
D & N Haveli	0.48	322.89	76.73	460.04	12286.90
Goa	2.15	563.23	287.48	61.73	962.02
<b>Western Region</b>	<b>302.12</b>	<b>225.02</b>	<b>86.94</b>	<b>96.10</b>	<b>329.52</b>
Andhra Pradesh	52.61	301.10	93.70	53.84	236.89
Telangana	38.10	325.03	162.42	31.33	328.40
Karnataka	64.23	215.67	106.83	29.92	160.96
Kerala	36.35	329.24	142.16	32.06	86.16
Tamil Nadu	70.52	413.23	155.17	136.46	372.32
Puducherry	1.91	424.39	115.11	96.17	731.20
Lakshadweep	0.09	418.68	135.67	4.19	0.00
<b>Southern Region</b>	<b>263.79</b>	<b>318.54</b>	<b>130.10</b>	<b>64.14</b>	<b>250.56</b>
Bihar	107.94	125.05	19.70	6.06	24.92
Jharkhand	35.13	170.29	28.33	8.05	369.54
Odisha	43.64	172.40	52.92	8.63	161.30
West Bengal	96.33	176.78	69.26	24.05	173.39
Sikkim	0.67	161.10	62.76	2.76	338.27
A & N Islands	0.60	240.61	118.40	21.54	0.00
<b>Eastern Region</b>	<b>284.29</b>	<b>155.76</b>	<b>42.96</b>	<b>12.82</b>	<b>139.42</b>
Arunachal Pradesh	1.36	122.89	37.83	3.25	86.39
Assam	33.72	108.30	31.97	3.37	46.00
Manipur	2.69	144.38	25.34	7.99	3.46
Meghalaya	2.88	161.69	34.48	2.03	189.23
Mizoram	1.10	262.17	43.81	1.50	8.40
Nagaland	2.47	157.23	40.32	27.72	0.00
Tripura	3.97	133.81	18.10	4.34	5.77
<b>North-Eastern Region</b>	<b>48.19</b>	<b>122.04</b>	<b>31.47</b>	<b>4.83</b>	<b>46.79</b>
<b>Total (All India)</b>	<b>1320.61</b>	<b>233.79</b>	<b>80.30</b>	<b>50.99</b>	<b>204.26</b>

Note : Source of Population: Office of Registrar General of India as on 1st October 2019

(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**  
**2019-20**

(GWh)

State / UTs	Public Lighting	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total
Chandigarh	7.11	0.00	0.49	0.00	41.39	770.69
Delhi	15.03	9.39	1.59	16.53	55.35	1266.12
Haryana	7.73	13.35	359.42	38.74	47.35	1503.45
Himachal Pradesh	1.47	0.00	7.78	76.88	48.90	1251.58
Jammu & Kashmir & Ladakh	4.89	1.78	28.64	58.22	118.70	826.81
Punjab	4.66	8.60	385.91	0.00	49.64	1638.33
Rajasthan	3.99	5.00	335.99	31.03	18.81	810.92
Uttar Pradesh	3.79	7.32	79.09	7.59	33.81	412.54
Uttarakhand	4.19	2.62	17.27	40.88	33.70	1084.67
<b>Northern Region</b>	<b>4.81</b>	<b>7.06</b>	<b>157.44</b>	<b>17.52</b>	<b>37.22</b>	<b>740.40</b>
Chhattisgarh	3.30	36.64	188.55	13.89	0.00	845.60
Gujarat	4.19	10.75	183.66	31.26	3.27	1412.98
Madhya Pradesh	4.94	27.09	281.64	20.08	20.24	717.39
Maharashtra	15.75	21.25	234.05	22.95	14.05	1003.95
Daman & Diu	16.43	0.00	11.31	7.28	37.73	6499.13
D & N Haveli	6.42	0.00	11.01	10.50	7.86	13182.35
Goa	1.35	0.00	12.72	0.00	24.84	1913.38
<b>Western Region</b>	<b>9.10</b>	<b>21.72</b>	<b>229.77</b>	<b>22.96</b>	<b>12.24</b>	<b>1033.36</b>
Andhra Pradesh	5.64	30.32	291.55	18.16	54.54	1085.74
Telangana	8.95	20.62	546.53	22.78	112.24	1558.30
Karnataka	17.56	2.16	339.76	61.22	17.64	951.73
Kerala	10.16	8.91	9.92	0.01	18.29	636.90
Tamil Nadu	16.33	13.78	196.10	16.33	40.48	1360.21
Puducherry	12.26	0.00	28.96	0.00	12.73	1420.83
Lakshadweep	9.48	0.00	0.00	0.00	1.68	569.70
<b>Southern Region</b>	<b>12.55</b>	<b>14.46</b>	<b>273.80</b>	<b>26.19</b>	<b>44.81</b>	<b>1135.14</b>
Bihar	0.98	13.37	8.64	1.21	10.45	210.38
Jharkhand	3.64	28.57	5.52	0.00	12.31	626.25
Odisha	5.26	33.77	13.27	7.49	19.69	474.74
West Bengal	8.00	19.40	14.52	10.46	28.23	524.08
Sikkim	0.51	0.00	0.00	0.00	48.55	613.96
A & N Islands	11.31	0.00	1.88	0.00	57.53	451.27
<b>Eastern Region</b>	<b>4.36</b>	<b>20.36</b>	<b>10.92</b>	<b>5.15</b>	<b>18.31</b>	<b>410.08</b>
Arunachal Pradesh	7.50	0.00	0.02	0.00	49.52	307.41
Assam	0.42	0.00	1.10	2.28	17.38	210.81
Manipur	3.79	0.00	0.81	8.12	40.91	234.81
Meghalaya	0.04	0.00	0.11	14.55	35.65	437.78
Mizoram	1.92	0.00	0.13	58.34	65.10	441.38
Nagaland	6.15	0.00	0.00	4.29	44.98	280.68
Tripura	12.12	0.00	8.66	16.75	30.80	230.34
<b>North-Eastern Region</b>	<b>2.07</b>	<b>0.00</b>	<b>1.54</b>	<b>5.85</b>	<b>24.30</b>	<b>238.89</b>
<b>Total (All India)</b>	<b>7.14</b>	<b>14.50</b>	<b>160.00</b>	<b>17.41</b>	<b>28.48</b>	<b>796.87</b>



**Table 9.8**  
**ANNUAL ELECTRICITY CONSUMPTION PER SQUARE KILOMETRE AND PER THOUSAND POPULATION**  
**REGION-WISE/STATE-WISE**  
**(UTILITIES+NON-UTILITIES)**  
**2019-20**

State / UTs	Population (Million)	Area in 1000 sq. kms. \$	Total Energy Sold (GWh)	Energy Consumed per thousand population (kWh)	Energy Consumed per sq. km. (kWh)
Chandigarh	2.08	0.11	1605.50	771502	14595418
Delhi	23.55	1.48	29812.96	1266158	20143892
Haryana	28.86	44.21	46747.36	1620078	1057393
Himachal Pradesh	7.29	55.67	9250.72	1268960	166171
Jammu & Kashmir & Ladakh	12.85	222.24	10628.51	827250	47824
Punjab	30.01	50.36	51748.01	1724301	1027562
Rajasthan	76.39	342.24	72123.21	944207	210739
Uttar Pradesh	230.11	240.93	106254.41	461747	441018
Uttarakhand	11.08	53.48	12885.53	1162640	240941
<b>Northern Region</b>	<b>422.21</b>	<b>1010.72</b>	<b>341056.21</b>	<b>807782</b>	<b>337439</b>
Chhattisgarh	26.96	135.19	47278.23	1753969	349717
Gujarat	65.28	196.03	114350.82	1751590	583333
Madhya Pradesh	81.73	308.25	74623.95	913110	242089
Maharashtra	125.15	307.72	133250.84	1064729	433026
Daman & Diu	0.38	0.11	2496.16	6500406	22692326
D & N Haveli	0.48	0.49	6310.51	13229579	12878590
Goa	2.15	3.70	4419.69	2060462	1194511
<b>Western Region</b>	<b>302.12</b>	<b>951.49</b>	<b>382730.19</b>	<b>1266815</b>	<b>402243</b>
Andhra Pradesh	52.61	160.41	65553.87	1246074	408664
Telangana	38.10	114.65	62143.45	1631247	542028
Karnataka	64.23	191.79	73139.23	1138691	381351
Kerala	36.35	38.86	24552.01	675508	631807
Tamil Nadu	70.52	130.06	103584.34	1468906	796435
Puducherry	1.91	0.48	2906.38	1521665	6054958
Lakshadweep	0.09	0.03	48.42	569697	1614140
<b>Southern Region</b>	<b>263.79</b>	<b>636.28</b>	<b>331927.71</b>	<b>1258284</b>	<b>521669</b>
Bihar	107.94	94.16	23177.00	214719	246145
Jharkhand	35.13	79.71	28789.96	819643	361184
Odisha	43.64	155.71	72500.08	1661474	465610
West Bengal	96.33	88.75	54383.09	564579	612767
Sikkim	0.67	7.10	411.35	613955	57937
A & N Islands	0.60	8.25	268.50	451268	32546
<b>Eastern Region</b>	<b>284.29</b>	<b>433.68</b>	<b>179529.99</b>	<b>631499</b>	<b>413969</b>
Arunachal Pradesh	1.36	83.74	418.69	307407	5000
Assam	33.72	78.44	8356.79	247814	106537
Manipur	2.69	22.33	631.16	234808	28265
Meghalaya	2.88	22.43	1341.74	466369	59819
Mizoram	1.10	21.08	486.40	441377	23074
Nagaland	2.47	16.58	692.72	280680	41780
Tripura	3.97	10.49	914.22	230340	87152
<b>North-Eastern Region</b>	<b>48.19</b>	<b>255.09</b>	<b>12841.72</b>	<b>266492</b>	<b>50342</b>
<b>Total (All India)</b>	<b>1320.61</b>	<b>3287.26</b>	<b>1248085.82</b>	<b>945085</b>	<b>379674</b>

Note : Source of Population: Office of Registrar General of India as on 1st October 2019.

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

**Table 9.9**  
**ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY- STATE-WISE**  
**(UTILITIES & NON UTILITIES)**  
**2019-20**

State/UTs	Population \$ (Million)	Net Generation of Utilities + Net Drawal from Grid including Import from Captive (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	2.08	1916.64	0.00	133.15	133.15
Delhi	23.55	34561.49	450.24	1990.36	2440.60
Haryana	28.86	56761.55	862.06	3028.71	3890.77
Himachal Pradesh	7.29	10561.62	129.50	293.59	423.09
Jammu & Kashmir & Ladakh	12.85	16836.89	147.88	787.73	935.60
Punjab	30.01	58438.31	1277.45	2222.12	3499.57
Rajasthan	76.39	82509.18	4015.47	1735.37	5750.83
Uttar Pradesh	230.11	123965.12	4517.14	3978.73	8495.87
Uttarakhand	11.08	14727.56	159.36	473.16	632.52
<b>Northern Region</b>	<b>422.21</b>	<b>400278.36</b>	<b>11559.09</b>	<b>14642.91</b>	<b>26202.01</b>
Chhattisgarh	26.96	30749.28	1290.13	869.64	2159.77
Gujarat	65.28	115585.31	5758.32	2233.91	7992.23
Madhya Pradesh	81.73	78297.89	2288.05	2876.30	5164.35
Maharashtra	125.15	157836.70	6718.59	3605.19	10323.77
Daman & Diu	0.38	2713.45	0.00	187.88	187.88
D & N Haveli	0.48	6888.45	0.00	482.19	482.19
Goa	2.15	4575.81	0.00	305.39	305.39
<b>Western Region</b>	<b>302.12</b>	<b>396646.88</b>	<b>16055.09</b>	<b>10560.50</b>	<b>26615.59</b>
Andhra Pradesh	52.61	66500.57	2715.90	1481.75	4197.65
Telangana	38.10	69830.46	2341.10	2079.42	4420.52
Karnataka	64.23	73858	2746	1460	4206
Kerala	36.35	27362.51	150.21	1486.30	1636.50
Tamil Nadu	70.52	111832.47	3027.25	4094.63	7121.87
Puducherry	1.91	3001.53	0.00	210.11	210.11
Lakshadweep	0.09	46.55	0.00	0.28	0.28
<b>Southern Region</b>	<b>263.79</b>	<b>352432.21</b>	<b>10980.82</b>	<b>10812.08</b>	<b>21792.90</b>
Bihar	107.94	33206.10	0.00	2249.11	2249.11
Jharkhand	35.13	22263.37	1446.28	24.70	1470.99
Odisha	43.64	30125.62	907.62	575.90	1483.53
West Bengal	96.33	62512.57	3226.36	947.43	4173.79
Sikkim	0.67	582.76	0.48	39.11	39.59
A & N Islands	0.60	324.42	21.94	1.98	23.92
<b>Eastern Region</b>	<b>284.29</b>	<b>149014.85</b>	<b>5602.68</b>	<b>3838.24</b>	<b>9440.93</b>
Arunachal Pradesh	1.36	804.10	0.00	55.83	55.83
Assam	33.72	9761.71	83.22	587.92	671.14
Manipur	2.69	967.19	0.53	67.19	67.72
Meghalaya	2.88	2116.21	21.51	72.91	94.42
Mizoram	1.10	663.86	0.00	29.06	29.06
Nagaland	2.47	850.20	0.00	55.66	55.66
Tripura	3.97	1575.93	30.46	81.98	112.45
<b>North-Eastern Region</b>	<b>48.19</b>	<b>16739.21</b>	<b>135.72</b>	<b>950.56</b>	<b>1086.29</b>
<b>All India</b>	<b>1320.61</b>	<b>1315111.50</b>	<b>44333.41</b>	<b>40804.30</b>	<b>85137.71</b>

Note :

- Per Capita Electricity Consumption = (Gross Electricity Consumed/Mid Year Population)
- Gross Electricity Consumed = Availability to State (i.e. State own Generation + Drawal from regional Grid)+Auxiliary Consumption+Gross Captive Electricity Consumption out of Self Generation
- Auxiliary Consumption State own Generation - Hydro 2% ; Thermal 8.15%; Drawal From Regional grid - 7%
- Gross Captive Electricity Consumption out of Self Generation Estimated fig. for the year 2019-20.
- 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)**  
**2019-20**

State/UTs	Gross Generation of Utilities+Gross Drawal from Grid including Import from Captive (3+6) (GWh)	Gross Consumption out of Self Generation by Captive Industries (GWh)	Total Gross Energy Consumption (Uti+Non-Uti) (7+8)(GWh)	Per Capita Consumption of Electricity (9/2) (kWh)
	7	8	9	10
Chandigarh	2049.79	1.39	2051.18	986
Delhi	37002.09	2.36	37004.45	1572
Haryana	60652.32	3672.01	64324.33	2229
Himachal Pradesh	10984.71	148.61	11133.32	1527
Jammu & Kashmir & Ladakh	17772.50	4.46	17776.95	1384
Punjab	61937.87	3221.76	65159.64	2171
Rajasthan	88260.02	12311.31	100571.33	1317
Uttar Pradesh	132460.99	12218.11	144679.10	629
Uttarakhand	15360.08	1573.65	16933.73	1528
<b>Northern Region</b>	<b>426480.37</b>	<b>33153.67</b>	<b>459634.04</b>	<b>1089</b>
Chhattisgarh	32909.04	22187.02	55096.07	2044
Gujarat	123577.54	32316.45	155893.99	2388
Madhya Pradesh	83462.24	5287.91	88750.15	1086
Maharashtra	168160.47	9269.05	177429.52	1418
Daman & Diu	2901.33	2.08	2903.41	7561
D & N Haveli	7370.64	31.08	7401.72	15517
Goa	4881.20	258.30	5139.50	2396
<b>Western Region</b>	<b>423262.47</b>	<b>69351.89</b>	<b>492614.36</b>	<b>1631</b>
Andhra Pradesh	70698.22	8559.03	79257.25	1507
Telangana	74250.98	4643.29	78894.28	2071
Karnataka	78064.08	16231.06	94295.14	1468
Kerala	28999.01	1010.21	30009.22	826
Tamil Nadu	118954.34	11075.63	130029.97	1844
Puducherry	3211.64	134.53	3346.17	1752
Lakshadweep	46.83	0.00	46.83	551
<b>Southern Region</b>	<b>374225.11</b>	<b>41653.74</b>	<b>415878.85</b>	<b>1577</b>
Bihar	35455.21	394.21	35849.42	332
Jharkhand	23734.36	6244.40	29978.76	853
Odisha	31609.14	36434.30	68043.44	1559
West Bengal	66686.36	6197.69	72884.06	757
Sikkim	622.36	0.00	622.36	929
A & N Islands	348.34	0.00	348.34	585
<b>Eastern Region</b>	<b>158455.78</b>	<b>49270.60</b>	<b>207726.38</b>	<b>731</b>
Arunachal Pradesh	859.94	0.00	859.94	631
Assam	10432.85	1303.37	11736.22	348
Manipur	1034.92	0.00	1034.92	385
Meghalaya	2210.63	266.73	2477.36	861
Mizoram	692.92	0.00	692.92	629
Nagaland	905.86	0.00	905.86	367
Tripura	1688.37	0.00	1688.37	425
<b>North-Eastern Region</b>	<b>17825.49</b>	<b>1570.09</b>	<b>19395.59</b>	<b>402</b>
<b>All India</b>	<b>1400249.21</b>	<b>195000.00</b>	<b>1595249.21</b>	<b>1208</b>

**Table 9.10**  
**ALL INDIA ELECTRICAL ACCIDENTS**  
**STATE-WISE**  
**2019-20**

State/UT	Generating Stations/Transmission & Distribution				Industrial Installations of Consumers	
	Human		Animals		Human	
	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	318	86	248	0	2	0
Assam	216	77	111	2	0	0
Bihar	294	6	191	0	0	0
Chhattisgarh	273	93	374	1	0	0
Goa	3	20	11	0	0	0
Gujarat	263	218	512	0	20	0
Haryana	170	140	76	1	0	0
Himachal Pradesh	15	40	5	0	0	0
Jammu & Kashmir & Ladakh	26	25	3	0	0	0
Karnataka	751	591	1028	156	40	18
Kerala	114	185	39	0	0	0
Madhya Pradesh	759	231	1404	2	0	0
Maharashtra	940	563	1054	15	0	0
Manipur	0	0	0	0	0	0
Meghalaya	27	13	10	0	0	0
Nagaland	NA	NA	NA	NA	NA	NA
Odisha	107	44	59	9	0	0
Punjab	89	55	9	0	0	0
Rajasthan	715	365	1251	0	21	2
Sikkim	1	1	0	0	0	0
Telangana	575	80	1358	0	0	0
Tamil Nadu	597	308	219	0	0	0
Tripura	8	10	33	0	0	0
Uttar Pradesh	385	165	532	5	0	0
West Bengal	77	82	49	0	1	0
Arunachal Pradesh	NA	NA	NA	NA	NA	NA
Delhi	20	25	1	0	0	0
Mizoram	19	13	0	0	0	0
Uttarakhand	0	0	0	0	0	0
Jharkhand	41	0	22	0	0	0
Mines	NA	NA	NA	NA	NA	NA
Central Govt. Installn.	6	8	0	0	0	0
Railways	NA	NA	NA	NA	NA	NA
<b>Union Territories</b>						
A & N Islands	1	1	1	0	0	0
Chandigarh	1	1	0	0	0	0
D.&N. Haveli	NA	NA	NA	NA	NA	NA
Daman & Diu	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0
Puducherry	3	1	1	0	0	0
<b>Total (All India)</b>	<b>6814</b>	<b>3447</b>	<b>8601</b>	<b>191</b>	<b>84</b>	<b>20</b>

NA - Not Available.

**Table 9.10 (Contd.)**  
**ALL INDIA ELECTRICAL ACCIDENTS**  
**STATE-WISE**  
**2019-20**

State/UT	Industrial Installations of Consumers		Installations of Consumers Other than Industrial				Total * Accidents
	Animals		Human		Animals		
	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal	
Andhra Pradesh	0	0	40	3	1	0	698
Assam	0	0	0	0	0	0	406
Bihar	0	0	0	0	0	0	491
Chhattisgarh	0	0	13	4	2	0	760
Goa	0	0	0	3	1	0	38
Gujarat	0	0	247	37	23	0	1320
Haryana	0	0	16	6	4	0	413
Himachal Pradesh	0	0	0	0	0	0	60
Jammu & Kashmir & Ladakh	0	0	0	0	0	0	54
Karnataka	164	0	146	102	112	0	3108
Kerala	0	0	123	25	14	0	500
Madhya Pradesh	0	0	22	94	0	0	2512
Maharashtra	0	0	8	7	0	0	2587
Manipur	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	50
Nagaland	NA	NA	NA	NA	NA	NA	NA
Odisha	0	0	10	0	0	0	229
Punjab	0	0	4	1	0	0	158
Rajasthan	73	0	25	5	3	0	2460
Sikkim	0	0	0	0	0	0	2
Telangana	0	0	87	14	129	0	2243
Tamil Nadu	0	0	0	0	0	0	1124
Tripura	0	0	0	0	0	0	51
Uttar Pradesh	0	0	0	0	0	0	1087
West Bengal	0	0	21	4	0	0	234
Arunachal Pradesh	NA	NA	NA	NA	NA	NA	NA
Delhi	1	0	2	2	1	0	52
Mizoram	0	0	10	15	0	0	57
Uttarakhand	0	0	45	35	90	0	170
Jharkhand	0	0	0	0	0	0	63
Mines	NA	NA	NA	NA	NA	NA	NA
Central Govt. Installn.	0	0	0	0	0	0	14
Railways	NA	NA	NA	NA	NA	NA	NA
<b>Union Territories</b>							
A & N Islands	0	0	0	0	0	0	3
Chandigarh	0	0	0	0	0	0	2
D.&N. Haveli	NA	NA	NA	NA	NA	NA	NA
Daman & Diu	0	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0	0
Puducherry	0	0	0	0	0	0	5
<b>Total (All India)</b>	<b>238</b>	<b>0</b>	<b>819</b>	<b>357</b>	<b>380</b>	<b>0</b>	<b>20951</b>

NA - Not Available.

\*Includes total Human Fatal Accidents(7717), Human Non Fatal Accidents(3824)

Animal Fatal Accidents(9219) and Animal Non Fatal Accidents(191).





**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 31.03.2020, the total number of electricity consumers were about 314.42 million and the connected load was 747185 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 308259 MW followed by industrial and agricultural sectors having connected load of 164378 MW and 140487 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 REGION - WISE/STATE - WISE**  
**UTILITIES**  
**31.3.2020**

State/UTs	Domestic		Commercial		Industrial (LV&MV)	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Chandigarh	922993	202822	529259	26062	94933	2717
Delhi	12203620	5170067	5979278	985274	1715964	43254
Haryana	10667345	5471805	3438892	695518	1839718	96637
Himachal Pradesh	3842616	2097088	801200	286182	257920	30521
Jammu & Kashmir & Ladakh	1863683	1753548	485182	228694	300948	20329
Punjab	12942737	7061124	4204273	1117276	2688516	116187
Rajasthan	13117998	12416813	5027579	1292567	2390076	199746
Uttar Pradesh	37646709	25544387	4499941	1543316	2491222	181696
Uttarakhand	3291550	2215712	1154660	263916	253314	12106
<b>Sub-Total (NR)</b>	<b>96499252</b>	<b>61933366</b>	<b>26120264</b>	<b>6438805</b>	<b>12032611</b>	<b>703193</b>
Chhattisgarh	3133098	4788909	1220619	353386	661614	34571
Gujarat	17171839	13844146	6560887	2122676	8619012	424669
Madhya Pradesh	9149716	11895502	2956270	1076219	1453740	127540
Maharashtra	33357937	24200386	12232961	2738088	7258391	432788
Daman & Diu	104658	49924	25034	7413	117295	1783
Dadra & N. Haveli	118557	69304	37719	8061	134784	2191
Goa	1501763	532392	402496	99753	149887	6167
<b>Sub-Total (WR)</b>	<b>64537568</b>	<b>55380563</b>	<b>23435987</b>	<b>6405596</b>	<b>18394723</b>	<b>1029709</b>
Andhra Pradesh	14679397	15179521	4535571	1589239	3146937	116735
Telangana	11526015	10919813	4926915	1315243	1540609	84611
Karnataka	21229718	19505160	7236070	2308977	4486076	476324
Kerala	17813473	9917001	5102281	2302910	1826258	141802
Tamil Nadu	33796660	23118564	11975365	3431581	9782340	710771
Puduchery	595344	360688	132266	56656	128552	6842
Lakshadweep	71992	19975	16388	4217	3028	346
<b>Sub-Total (SR)</b>	<b>99712599</b>	<b>79020722</b>	<b>33924855</b>	<b>11008823</b>	<b>20913800</b>	<b>1537431</b>
Bihar	13160754	14541124	1992049	893570	1107054	105242
Jharkhand	3877816	3837256	676796	250918	305836	17443
Odisha	8608152	8516668	1336206	403729	509654	25770
West Bengal	13721665	20563503	4367465	2245715	2402627	174238
Sikkim	131386	101673	32717	11827	1371	385
A&N Island	185858	119204	87168	19659	14554	478
<b>Sub-Total (ER)</b>	<b>39685631</b>	<b>47679428</b>	<b>8492401</b>	<b>3825418</b>	<b>4341097</b>	<b>323556</b>
Arunachal Pradesh	300169	245884	60135	27227	1067	207
Assam	5667992	5501765	1425061	282682	243705	18874
Manipur	796529	488527	74473	21899	20030	2897
Meghalaya	413332	469517	86680	28951	9651	695
Mizoram	283469	211742	59396	17899	3843	854
Nagaland	114702	279467	18480	23081	12173	4918
Tripura	248186	790043	59224	66277	53165	4926
<b>Sub-Total (NER)</b>	<b>7824379</b>	<b>7986945</b>	<b>1783450</b>	<b>468016</b>	<b>343634</b>	<b>33371</b>
<b>Total (All India)</b>	<b>308259429</b>	<b>252001024</b>	<b>93756956</b>	<b>28146658</b>	<b>56025865</b>	<b>3627260</b>

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 Arunachal Pradesh, Nagaland & Manipur is estimated due to non availability of data



**Table 10 (Contd.)**  
**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD REGION - WISE/STATE - WISE**  
**UTILITIES**  
**31.3.2020**

State/UTs	Industrial (H.V.)		Public Lighting		Traction	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Chandigarh	70296	99	7645	1335	0	0
Delhi	167068	443	146344	13434	172510	10
Haryana	6830735	16593	34491	3897	76503	104
Himachal Pradesh	1679995	3858	6163	1123	0	0
Jammu & Kashmir & Ladakh	421150	852	12140	329	0	0
Punjab	7013074	12329	59394	4599	0	0
Rajasthan	8933176	28080	375415	21108	0	0
Uttar Pradesh	4443048	12256	242039	4167	104422	9
Uttarakhand	1763255	2190	18485	2346	14000	2
<b>Sub-Total (NR)</b>	<b>31321797</b>	<b>76700</b>	<b>902115</b>	<b>52338</b>	<b>367435</b>	<b>125</b>
Chattisgarh	2407422	1945	39530	7431	370200	24
Gujarat	16331349	18389	177723	48620	14757	16
Madhya Pradesh	2331659	5682	140996	20287	2269	11
Maharashtra	19950576	14482	427099	100063	133298	105
Daman & Diu	535095	762	1488	637	0	0
Dadra & N. Haveli	1185935	916	2822	411	0	0
Goa	634070	849	1600	215	0	0
<b>Sub-Total (WR)</b>	<b>43376106</b>	<b>43025</b>	<b>791258</b>	<b>177664</b>	<b>520524</b>	<b>156</b>
Andhra Pradesh	3570527	6471	163867	110889	625602	69
Telangana	4065458	7561	242717	111720	269775	46
Karnataka	5660994	18598	530188	155534	17202	180
Kerala	1162536	2565	165138	41479	107463	20
Tamil Nadu	6749829	6482	2406990	746048	335115	35
Puducherry	514302	557	6284	52688	0	0
Lakshadweep	0	0	237	75	0	0
<b>Sub-Total (SR)</b>	<b>21723645</b>	<b>42234</b>	<b>3515421</b>	<b>1218433</b>	<b>1355157</b>	<b>350</b>
Bihar	1011599	3040	31970	2420	45600	5
Jharkhand	2836767	2373	39052	853	44306	3
Odisha	2531326	1947	35503	7400	475586	37
West Bengal	3962579	4686	148793	47600	441569	78
Sikkim	72260	774	55	30	0	0
A&N Island	0	0	2990	754	0	0
<b>Sub-Total (ER)</b>	<b>10414530</b>	<b>12820</b>	<b>258364</b>	<b>59057</b>	<b>1007061</b>	<b>123</b>
Arunachal Pradesh	81938	89	0	0	0	0
Assam	1151812	4514	8184	1955	0	0
Manipur	14530	101	4130	989	0	0
Meghalaya	180282	140	359	57	0	0
Mizoram	7982	196	893	1192	0	0
Nagaland	0	0	8480	645	0	0
Tripura	79632	878	14519	2324	0	0
<b>Sub-Total (NER)</b>	<b>1516177</b>	<b>5918</b>	<b>36565</b>	<b>7162</b>	<b>0</b>	<b>0</b>
<b>Total (All India)</b>	<b>108352255</b>	<b>180697</b>	<b>5503723</b>	<b>1514654</b>	<b>3250177</b>	<b>754</b>



**Table 10 (Contd.)**  
**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD REGION - WISE/STATE - WISE**  
**UTILITIES**  
**31.3.2020**

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	772	120	0	0	90438	1474	1716336	234629
Delhi	74547	10693	169050	2254	463343	16558	21091724	6241987
Haryana	7575718	646512	447285	22192	200247	547	31110934	6953805
Himachal Pradesh	192772	33375	338307	7501	422395	45157	7541368	2504805
Jammu & Kashmir & Ladakh	147727	21754	122077	2680	373571	11738	3726477	2039924
Punjab	10348146	1385549	262167	15054	392391	582	37910698	9712700
Rajasthan	16291512	1540157	970975	76002	403140	53166	47509871	15627639
Uttar Pradesh	9106056	1294560	484498	20970	4373881	207986	63391816	28809347
Uttarakhand	278817	39364	116711	1966	57237	82	6948029	2537684
<b>Sub-Total (NR)</b>	<b>44016068</b>	<b>4972084</b>	<b>2911069</b>	<b>148619</b>	<b>6776643</b>	<b>337290</b>	<b>220947254</b>	<b>74662520</b>
Chhattisgarh	1407430	545179	112628	27557	0	0	9352541	5759002
Gujarat	15182984	1779445	1078482	96273	285178	63084	65422209	18397318
Madhya Pradesh	11220743	3087266	487540	45120	504312	3605	28247245	16261232
Maharashtra	16893630	4291981	969177	56125	2027680	167286	93250749	32001304
Daman & Diu	3743	1257	733	104	3994	630	792040	62510
Dadra & N. Haveli	8230	1286	4452	460	2270	334	1494769	82963
Goa	57190	11972	0	0	32713	5258	2779719	656606
<b>Sub-Total (WR)</b>	<b>44773949</b>	<b>9718386</b>	<b>2653011</b>	<b>225639</b>	<b>2856146</b>	<b>240197</b>	<b>201339272</b>	<b>73220935</b>
Andhra Pradesh	12178141	1801831	483146	64339	2554376	261225	41937565	19130319
Telangana	9993442	2369073	341781	71135	2759852	67802	35666564	14947004
Karnataka	14981171	3081202	1693278	207156	3089125	1036840	58923821	26789971
Kerala	962352	476551	1635	11	140142	2184	27281277	12884523
Tamil Nadu	10817956	2121773	0	0	2251256	618764	78115511	30754018
Puducherry	45463	6973	153416	147	2843	35542	1578470	520093
Lakshadweep	0	0	0	0	380	225	92025	24838
<b>Sub-Total (SR)</b>	<b>48978525</b>	<b>9857403</b>	<b>2673256</b>	<b>342788</b>	<b>10797974</b>	<b>2022582</b>	<b>243595233</b>	<b>105050766</b>
Bihar	734287	314606	82609	14079	9071	3224	18174993	15877310
Jharkhand	0	61959	0	0	240006	150	8020579	4170955
Odisha	491246	126301	88481	11492	612939	53264	14689092	9146608
West Bengal	1327721	326787	495834	28028	311139	4876	27179392	23395511
Sikkim	0	0	0	0	35692	1819	273482	116508
A&N Island	1185	469	0	0	16845	1679	308600	142243
<b>Sub-Total (ER)</b>	<b>2554439</b>	<b>830122</b>	<b>666924</b>	<b>53599</b>	<b>1225692</b>	<b>65012</b>	<b>68646138</b>	<b>52849135</b>
Arunachal Pradesh	40	20	10572	1411	13871	262	467792	275100
Assam	129325	33340	60922	4679	498872	53770	9185873	5901579
Manipur	1019	66	23825	211	53430	760	987968	515450
Meghalaya	239	112	12946	463	52122	2630	755611	502565
Mizoram	0	0	46395	70	18768	21539	420746	253492
Nagaland	11	1	795	39	39112	2040	193752	310191
Tripura	33659	7159	80046	7146	77778	2718	646209	881471
<b>Sub-Total (NER)</b>	<b>164292</b>	<b>40698</b>	<b>235501</b>	<b>14019</b>	<b>753953</b>	<b>83719</b>	<b>12657951</b>	<b>8639848</b>
<b>Total (All India)</b>	<b>140487272</b>	<b>25418693</b>	<b>9139762</b>	<b>784664</b>	<b>22410408</b>	<b>2748800</b>	<b>747185848</b>	<b>314423204</b>

**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 2020, 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 which represents 100% electrification of the towns.

The total number of existing irrigation pump-sets/tube-wells in the country were (22044042) as on 31st March, 2020. Maharashtra has maximum number of energized pump- sets (4360386) followed by Karnataka (2521284). The average capacity and electricity consumption per pump-set was 6.37 kW and 9586 kWh respectively. The electricity consumption during 2019-20 in Agriculture sector is third highest being 20.00 % 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**  
**31.3.2020**

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

**Table 11.2**  
**ALL INDIA VILLAGES ELECTRIFIED**  
**STATE - WISE**  
**31.3.2020**

Name of the State/UTs	Total Inhabited Villages as per 2011 census	Villages Electrified as on 31.03.2020	% 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
<b>Sub-Total (NR)</b>	<b>199959</b>	<b>199959</b>	<b>100.00</b>
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
<b>Sub-Total (WR)</b>	<b>130699</b>	<b>130699</b>	<b>100.00</b>
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
<b>Sub-Total (SR)</b>	<b>69845</b>	<b>69845</b>	<b>100.00</b>
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
<b>Sub-Total (ER)</b>	<b>154526</b>	<b>154526</b>	<b>100.00</b>
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
<b>Sub-Total (NER)</b>	<b>42435</b>	<b>42435</b>	<b>100.00</b>
<b>Total (All India)</b>	<b>597464</b>	<b>597464</b>	<b>100.00</b>

**Table 11.3**  
**ALL INDIA IRRIGATION PUMPSETS/ TUBEWELLS ENERGISED - STATE WISE**  
**31.3.2020**

Name of the State/UTs	Number of Pumpsets Energised up to 31.03.2019	New Pumpsets Energised during the year 2019-20	No. of Existing Pumpsets Energised upto 31.03.2020	Agricultural Consumption	
				Energy (GWh)	% of total Consumption in the state
Chandigarh	421	0	421	1.02	0.06
Delhi	30575	0	30575	37.36	0.13
Haryana	618885	360	619245	10371.16	23.91
Himachal Pradesh	34149	2251	36400	56.73	0.62
Jammu & Kashmir & Ladakh	9714	0	9714	368.00	3.46
Punjab	1268252	0	1268252	11581.56	23.56
Rajasthan	1494846	88628	1583474	25664.75	41.43
Uttar Pradesh	997407	38	997444	18200.05	19.17
Uttarakhand	28054	0	28054	191.35	1.59
<b>Sub-Total (NR)</b>	<b>4482303</b>	<b>91277</b>	<b>4573579</b>	<b>66471.96</b>	<b>21.26</b>
Chhattisgarh	424786	19098	443884	5082.35	22.30
Gujarat	1601583	11856	1613439	11989.83	12.99
Madhya Pradesh	1487603	62851	1550454	23028.10	39.26
Maharashtra	4360386	0	4360386	29291.23	23.29
Daman & Diu	1243	0	1243	4.34	0.17
D. & N. Haveli	953	0	953	5.25	0.08
Goa	8499	0	8499	27.29	0.66
<b>Sub-Total (WR)</b>	<b>7885053</b>	<b>93805</b>	<b>7978858</b>	<b>69428.40</b>	<b>22.22</b>
Andhra Pradesh	1335040	2477	1337517	15338.95	26.85
Telangana	2227416	0	2227416	20830.08	35.08
Karnataka	2521284	0	2521284	21823.07	37.31
Kerala	531247	13940	545187	360.47	1.56
Tamil Nadu	2119523	20388	2139911	13828.26	14.41
Puducherry	6930	0	6930	55.32	2.04
Lakshadweep	0	0	0	0.00	0.00
<b>Sub-Total (SR)</b>	<b>8741440</b>	<b>36805</b>	<b>8778245</b>	<b>72236.15</b>	<b>24.33</b>
Bihar	285501	0	285501	932.94	4.11
Jharkhand	9453	0	9453	193.91	0.85
Odisha	78200	0	78200	581.29	2.20
West Bengal	307267	23192	330459	1398.75	2.76
Sikkim	0	0	0	0.00	0.00
A. & N. Islands	0	0	0	1.12	0.42
<b>Sub-Total (ER)</b>	<b>680421</b>	<b>23192</b>	<b>703613</b>	<b>3108.00</b>	<b>2.52</b>
Arunachal Pradesh	0	0	0	0.03	0.01
Assam	3675	0	3675	37.00	0.52
Manipur	108	0	108	2.20	0.30
Meghalaya	24	0	24	0.31	0.02
Mizoram	0	0	0	0.14	0.03
Nagaland	194	0	194	0.00	0.00
Tripura	5746	0	5746	34.38	3.76
<b>Sub-Total (NER)</b>	<b>9747</b>	<b>0</b>	<b>9747</b>	<b>74.07</b>	<b>0.64</b>
<b>Total (All India)</b>	<b>21798964</b>	<b>245079</b>	<b>22044042</b>	<b>211318.58</b>	<b>20.00</b>



**Table 11.3 (Contd.)**  
**ALL INDIA IRRIGATION PUMPSETS/ TUBEWELLS ENERGISED - STATE WISE**  
**31.3.2020**

Name of the State/Uts	Agricultural Connected Load (kW)	Average.Capacity pumpset (kW)	Av. Consumption per pumpset (kWh)
Chandigarh	772	1.83	2411
Delhi	74547	2.44	1222
Haryana	7575718	12.23	16748
Himachal Pradesh	192772	5.30	1558
Jammu & Kashmir & Ladakh	147727	15.21	37883
Punjab	10348146	8.16	9132
Rajasthan	16291512	10.29	16208
Uttar Pradesh	9106056	9.13	18247
Uttarakhand	278817	9.94	6821
<b>Sub-Total (NR)</b>	<b>44016068</b>	<b>9.62</b>	<b>14534</b>
Chhattisgarh	1407430	3.17	11450
Gujarat	15182984	9.41	7431
Madhya Pradesh	11220743	7.24	14852
Maharashtra	16893630	3.87	6718
Daman & Diu	3743	3.01	3495
D. & N. Haveli	8230	8.64	5509
Goa	57190	6.73	3211
<b>Sub-Total (WR)</b>	<b>44773949</b>	<b>5.61</b>	<b>8702</b>
Andhra Pradesh	12178141	9.11	11468
Telangana	9993442	4.49	9352
Karnataka	14981171	5.94	8656
Kerala	962352	1.77	661
Tamil Nadu	10817956	5.06	6462
Puducherry	45463	6.56	7983
Lakshadweep	0	0.00	0
<b>Sub-Total (SR)</b>	<b>48978525</b>	<b>5.58</b>	<b>8229</b>
Bihar	734287	2.57	3268
Jharkhand	0	0.00	20513
Odisha	491246	6.28	7433
West Bengal	1327721	4.02	4233
Sikkim	0	0.00	0
A.& N. Islands	1185	0.00	0
<b>Sub-Total (ER)</b>	<b>2554439</b>	<b>3.63</b>	<b>4417</b>
Arunachal Pradesh	40	0.00	0
Assam	129325	35.19	10068
Manipur	1019	9.43	20415
Meghalaya	239	9.95	13110
Mizoram	0	0.00	0
Nagaland	11	0.05	0
Tripura	33659	5.86	5983
<b>Sub-Total (NER)</b>	<b>164292</b>	<b>16.86</b>	<b>7599</b>
<b>Total (All India)</b>	<b>140487272</b>	<b>6.37</b>	<b>9586</b>



# 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 Four (34) numbers of trading companies having trading license as on 31-03-2020. 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 2019-20 was 10689.88 GWh which constitute 0.77 % of the total generation from utilities as against 18301.66 GWh which constituted 1.33% of the total generation from utilities in the previous year 2018-19.

Out of total volume of trade of 10689.88 GWh, Power Trading Corporation which has traded 3688.97 GWh constituting 34.51% of total volume of trade followed by TPTCL which traded 1426.21 GWh constituting 13.34%, NVVNL which traded 1365.38 GWh constituting 12.77%, AEL which traded 916.24 GWh constituting 8.57%. The total volume of trade by these 4 companies which amounts to 69.19 % 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 31.03.2020**

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	Jai Prakash Associates Ltd.	23.03.2011	I
11	Statkraft Markets (P) Ltd.	21.06.2012	I
12	Manikaran Power Limited, Kolkata	29.06.2012	I
13	Solar Energy Corporation of India	01.04.2014	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	NTPC limited	08.07.2019	I
18	Essar Electric Power Development Corporation Ltd.	14.12.2005	II
19	RPG Power Trading Company Ltd	23.09.2008	II
20	Kreate Energy (I) Pvt. Ltd.	12.02.2009	II
21	Shree Cement Ltd	16.03.2010	II
22	Arunachal Pradesh Power Corporation (P) Limited, Itanagar	11.09.2012	II
23	Instinct Infra & Power Ltd.	07.09.2005	III
24	Greenko Energies (P)Ltd.	22.01.2008	III
25	Shyam Indus Power Solutions (P) Ltd	11.11.2008	III
26	ABJA Power Pvt. Ltd	26.04.2011	III
27	Customised Energy Solutions India (P) Ltd.	08.06.2011	III
28	Saranyu Power Trading Pvt. Ltd.	10.02.2015	III
29	Gita Power & Infrastructure(P) Ltd.	20.10.2015	III
30	Ambitious Power Trading Company Ltd.	16.09.2008	IV
31	Vedprakash Power (P) Limited	19.08.2013	IV
32	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
33	Renew Solar Services Pvt. Ltd.	27.01.2017	IV
34	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**  
**2019-20**

(GWh)

State/UTs	Export GWh	Import GWh
Chandigarh	0.00	0.00
Delhi	10.91	1913.61
Haryana	0.00	0.45
Himachal Pradesh	1429.15	0.00
Jammu & Kashmir & Ladakh	462.81	0.00
Punjab	111.43	0.00
Rajasthan	502.30	0.00
Uttar Pradesh	0.00	1773.37
Uttarakhand	0.00	541.76
<b>Northern Region</b>	<b>2516.59</b>	<b>4229.19</b>
Chhattisgarh	933.90	516.39
Gujarat	2574.11	62.69
Madhya Pradesh	2527.52	0.00
Maharashtra	0.00	800.62
Daman & Diu	0.00	0.00
Dadar & Nagar Haveli	0.00	0.00
Goa	0.00	248.08
<b>Western Region</b>	<b>6035.53</b>	<b>1627.78</b>
Andhra Pradesh	305.82	512.04
Telangana	806.27	366.97
Karnataka	206.01	0.00
Kerala	0.00	10.46
Tamil Nadu	78.43	258.13
Puducherry	0.00	0.00
Lakshadweep	0.00	0.00
<b>Southern Region</b>	<b>1396.53</b>	<b>1147.60</b>
Bihar	0.00	950.84
Jharkhand	0.00	0.00
West Bengal	4.36	1247.17
Odisha	292.98	10.49
Sikkim	35.51	0.00
A. & N. Islands	0.00	0.00
<b>Eastern Region</b>	<b>332.84</b>	<b>2208.51</b>
Arunachal Pradesh	0.00	0.00
Assam	0.00	12.73
Manipur	0.00	0.02
Meghalaya	5.26	0.00
Mizoram	23.32	0.00
Nagaland	0.00	0.00
Tripura	72.46	122.60
<b>North-Eastern Region</b>	<b>101.04</b>	<b>135.34</b>
Central Sector	0.00	0.00
Other Country	303.51	1282.33
Inter Trader	3.84	59.13
<b>All India</b>	<b>10689.88</b>	<b>10689.88</b>

**Table 12.3**  
**STATE WISE IMPORT DURING**  
**2019-20**

(GWh)

State/UTs	PEAK	Round the Clock	Other than Peak & RTC	Total
Chandigarh	0.00	0.00	0.00	0.00
Delhi	158.81	1379.87	374.93	1913.61
Haryana	0.00	0.45	0.00	0.45
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir & Ladakh	0.00	0.00	0.00	0.00
Punjab	0.00	0.00	0.00	0.00
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	175.44	859.25	738.68	1773.37
Uttarakhand	0.00	541.76	0.00	541.76
<b>Northern Region</b>	<b>334.25</b>	<b>2781.33</b>	<b>1113.61</b>	<b>4229.19</b>
Chhattisgarh	0.00	356.81	159.58	516.39
Gujarat	0.00	0.00	62.69	62.69
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	0.00	297.15	503.47	800.62
Daman & Diu	0.00	0.00	0.00	0.00
Dadar & Nagar Haveli	0.00	0.00	0.00	0.00
Goa	0.00	117.22	130.87	248.08
<b>Western Region</b>	<b>0.00</b>	<b>771.17</b>	<b>856.62</b>	<b>1627.78</b>
Andhra Pradesh	0.00	512.04	0.00	512.04
Telangana	0.00	366.97	0.00	366.97
Karnataka	0.00	0.00	0.00	0.00
Kerala	0.00	10.46	0.00	10.46
Tamil Nadu	0.00	258.13	0.00	258.13
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
<b>Southern Region</b>	<b>0.00</b>	<b>1147.60</b>	<b>0.00</b>	<b>1147.60</b>
Bihar	0.00	307.35	643.49	950.84
Jharkhand	0.00	0.00	0.00	0.00
West Bengal	0.00	1214.89	32.29	1247.17
Odisha	0.00	10.49	0.00	10.49
Sikkim	0.00	0.00	0.00	0.00
A. & N. Islands	0.00	0.00	0.00	0.00
<b>Eastern Region</b>	<b>0.00</b>	<b>1532.73</b>	<b>675.78</b>	<b>2208.51</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	12.73	0.00	12.73
Manipur	0.00	0.00	0.02	0.02
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	122.60	0.00	122.60
<b>North-Eastern Region</b>	<b>0.00</b>	<b>135.33</b>	<b>0.02</b>	<b>135.34</b>
Central Sector	0.00	0.00	0.00	0.00
Other Country	0.00	1260.92	21.41	1282.33
Inter Trader	0.00	59.13	0.00	59.13
<b>All India</b>	<b>334.25</b>	<b>7688.20</b>	<b>2667.43</b>	<b>10689.88</b>

**Table 12.4**  
**STATE WISE TRADER-WISE IMPORT/EXPORT OF ENERGY IN GWh DURING**  
**2019-20**

(GWh)

State/UTs	Import	Export	Trader
Delhi	785.08	0.00	EEPDC
	85.45	10.91	GMR
	466.18	0.00	KEIPL
	9.76	0.00	KISPL
	336.44	0.00	PTC
	230.69	0.00	REL
<b>Total</b>	<b>1913.61</b>	<b>10.91</b>	
Haryana	0.45	0.00	KEIPL
<b>Total</b>	<b>0.45</b>	<b>0.00</b>	
Himachal Pradesh	0.00	481.20	KEIPL
	0.00	2.87	KISPL
	0.00	544.59	PTC
	0.00	20.92	SMPL
	0.00	379.56	TPTCL
<b>Total</b>	<b>0.00</b>	<b>1429.15</b>	
Jammu & Kashmir	0.00	0.45	KEIPL
	0.00	424.66	PTC
	0.00	37.69	TPTCL
<b>Total</b>	<b>0.00</b>	<b>462.81</b>	
Punjab	0.00	90.81	PTC
	0.00	20.62	TPTCL
<b>Total</b>	<b>0.00</b>	<b>111.43</b>	
Rajasthan	0.00	0.16	AEL
	0.00	143.15	GMR
	0.00	2.60	KEIPL
	0.00	87.55	MPL
	0.00	38.14	PTC
	0.00	230.69	REL
<b>Total</b>	<b>0.00</b>	<b>502.30</b>	
Uttar Pradesh	64.83	0.00	APPCPL
	44.79	0.00	KEIPL
	44.77	0.00	MPL
	162.08	0.00	NHPC
	53.06	0.00	NVVNL
	1235.93	0.00	PTC
	20.92	0.00	SMPL
	146.99	0.00	TPTCL
<b>Total</b>	<b>1773.37</b>	<b>0.00</b>	



**Table 12.4 (Contd.)**  
**STATE WISE TRADER-WISE IMPORT/EXPORT OF ENERGY IN GWh DURING**  
**2019-20**

(GWh)

State/UTs	Import	Export	Trader
Uttarakhand	143.91	0.00	GMR
	397.85	0.00	PTC
<b>Total</b>	<b>541.76</b>	<b>0.00</b>	
<b>Northern Region</b>	<b>4229.19</b>	<b>2516.59</b>	
Chhattisgarh	0.00	87.11	AEL
	0.00	2.59	APPCPL
	0.00	2.14	GMR
	110.61	61.12	MPL
	0.00	74.40	NHPC
	0.00	15.56	NVVNL
	326.50	569.84	PTC
	0.00	6.63	SCL
	79.28	114.53	TPTCL
<b>Total</b>	<b>516.39</b>	<b>933.90</b>	
Gujarat	0.00	796.14	AEL
	0.00	62.00	APPCPL
	0.00	15.18	KEIPL
	0.00	9.88	MPL
	0.00	350.81	NHPC
	0.00	649.43	NVVNL
	12.64	466.58	PTC
	0.00	0.17	SCL
	50.05	223.94	TPTCL
<b>Total</b>	<b>62.69</b>	<b>2574.11</b>	
Madhya Pradesh	0.00	54.46	APPCPL
	0.00	785.08	EEPDC
	0.00	11.69	KEIPL
	0.00	126.17	NHPC
	0.00	1520.18	PTC
	0.00	8.89	SCL
	0.00	21.05	TPTCL
<b>Total</b>	<b>0.00</b>	<b>2527.52</b>	
Maharashtra	707.59	0.00	AEL
	11.48	0.00	GMR
	17.78	0.00	KEIPL
	63.77	0.00	PTC
<b>Total</b>	<b>800.62</b>	<b>0.00</b>	
Goa	183.15	0.00	APPCPL
	11.61	0.00	GMR
	13.53	0.00	KEIPL
	2.11	0.00	NVVNL
	37.69	0.00	TPTCL
<b>Total</b>	<b>248.08</b>	<b>0.00</b>	



**Table 12.4 (Contd.)**  
**STATE WISE TRADER-WISE IMPORT/EXPORT OF ENERGY IN GWh DURING**  
**2019-20**

(GWh)

State/UTs	Import	Export	Trader
<b>Western Region</b>	<b>1627.78</b>	<b>6035.53</b>	
Andhra Pradesh	19.10	10.46	APPCPL
	0.00	6.89	KISPL
	34.50	242.21	MPL
	314.90	0.00	NHPC
	0.00	23.76	PTC
	143.54	0.00	TPTCL
	0.00	22.51	SCL
<b>Total</b>	<b>512.04</b>	<b>305.82</b>	
Telangana	208.12	0.00	AEL
	0.00	516.28	NVVNL
	158.86	0.00	PTC
	0.00	289.99	TPTCL
<b>Total</b>	<b>366.97</b>	<b>806.27</b>	
Kerala	10.46	0.00	APPCPL
<b>Total</b>	<b>10.46</b>	<b>0.00</b>	
Karnataka	0.00	32.83	AEL
	0.00	148.03	APPCPL
	0.00	11.61	GMR
	0.00	13.53	KEIPL
<b>Total</b>	<b>0.00</b>	<b>206.01</b>	
Tamil Nadu	3.49	78.43	MPL
	74.40	0.00	NHPC
	180.25	0.00	PTC
<b>Total</b>	<b>258.13</b>	<b>78.43</b>	
<b>Southern Region</b>	<b>1147.60</b>	<b>1396.53</b>	
Bihar	35.28	0.00	GMR
	45.79	0.00	MPL
	694.92	0.00	PTC
	174.85	0.00	TPTCL
<b>Total</b>	<b>950.84</b>	<b>0.00</b>	
Odisha	0.00	143.77	GMR
	10.49	0.00	KEIPL
	0.00	111.67	NVVNL
	0.00	10.42	PTC
	0.00	27.12	TPTCL
<b>Total</b>	<b>10.49</b>	<b>292.98</b>	
West Bengal	0.53	0.00	AEL
	0.23	0.00	APPCPL
	1.30	0.00	MPL
	431.74	0.00	NVVNL
	154.89	0.00	PTC
	658.49	4.36	TPTCL
<b>Total</b>	<b>1247.17</b>	<b>4.36</b>	



**Table 12.4 (Contd.)  
STATE WISE TRADER-WISE IMPORT/EXPORT OF ENERGY IN GWh DURING  
2019-20**

(GWh)

State/UTs	Import	Export	Trader
Sikkim	0.00	0.23	APPCPL
	0.00	35.28	GMR
<b>Total</b>	<b>0.00</b>	<b>35.51</b>	
<b>Eastern Region</b>	<b>2208.51</b>	<b>332.84</b>	
Assam	12.73	0.00	TPTCL
<b>Total</b>	<b>12.73</b>	<b>0.00</b>	
Meghalaya	0.00	5.26	KEIPL
<b>Total</b>	<b>0.00</b>	<b>5.26</b>	
Mizoram	0.00	23.32	KEIPL
<b>Total</b>	<b>0.00</b>	<b>23.32</b>	
Manipur	0.02	0.00	APPCPL
<b>Total</b>	<b>0.02</b>	<b>0.00</b>	
Tripura	0.00	72.46	NVVNL
	122.60	0.00	TPTCL
<b>Total</b>	<b>122.60</b>	<b>72.46</b>	
<b>North Eastern Region</b>	<b>135.34</b>	<b>101.04</b>	
<b>Central Sector</b>	<b>0.00</b>	<b>0.00</b>	
<b>All India</b>	<b>9348.43</b>	<b>10382.53</b>	
Export/Import from other country	238.72	0.00	MPL
	878.48	0.00	NVVNL
	126.94	0.00	PTC
	0.00	303.51	TPTCL
	38.19	0.00	SCL
<b>Total Other Country</b>	<b>1282.33</b>	<b>303.51</b>	
Inter Trader	59.13	0.00	GMR
	0.00	3.84	TPTCL
<b>Total</b>	<b>59.13</b>	<b>610.87</b>	
<b>Grand Total</b>	<b>10689.88</b>	<b>10689.88</b>	



**Table 12.5**  
**TRADER-WISE STATE-WISE ENERGY SALES DURING**  
**2019-20**

(GWh)

Trader	Sales to	Sales Vol.	% Vol.
AEL	Maharashtra	707.59	
	Telangana	208.12	
	West Bengal	0.53	
<b>Total AEL</b>		<b>916.24</b>	<b>8.57</b>
APPCPL	Andhra Pradesh	19.10	
	GOA	183.15	
	Kerala	10.46	
	Manipur	0.02	
	Uttar Pradesh	64.83	
	West Bengal	0.23	
<b>Total APPCPL</b>		<b>277.78</b>	<b>2.60</b>
EEPDC	Delhi	785.08	
<b>Total EEPDC</b>		<b>785.08</b>	<b>7.34</b>
GMR	-	59.13	
	Bihar	35.28	
	Goa	11.61	
	Maharashtra	11.48	
	Uttarakhand	143.91	
	Delhi	85.45	
<b>Total GMR</b>		<b>346.86</b>	<b>3.24</b>
KEIPL	Goa	13.53	
	Haryana	0.45	
	Maharashtra	17.78	
	Uttar Pradesh	44.79	
	Delhi	466.18	
	Odisha	10.49	
<b>Total KEIPL</b>		<b>553.23</b>	<b>5.18</b>
KISPL	Delhi	9.76	
<b>Total KISPL</b>		<b>9.76</b>	<b>0.09</b>
MPL	Andhra Pradesh	34.50	
	Bihar	45.79	
	Chhattisgarh	110.61	
	Nepal	238.72	
	Tamil Nadu	3.49	
	Uttar Pradesh	44.77	
	West Bengal	1.30	
<b>Total MPL</b>		<b>479.18</b>	<b>4.48</b>
NHPC	Andhra Pradesh	314.90	
	Tamil Nadu	74.40	
	Uttar Pradesh	162.08	
<b>Total NHPC</b>		<b>551.38</b>	<b>5.16</b>

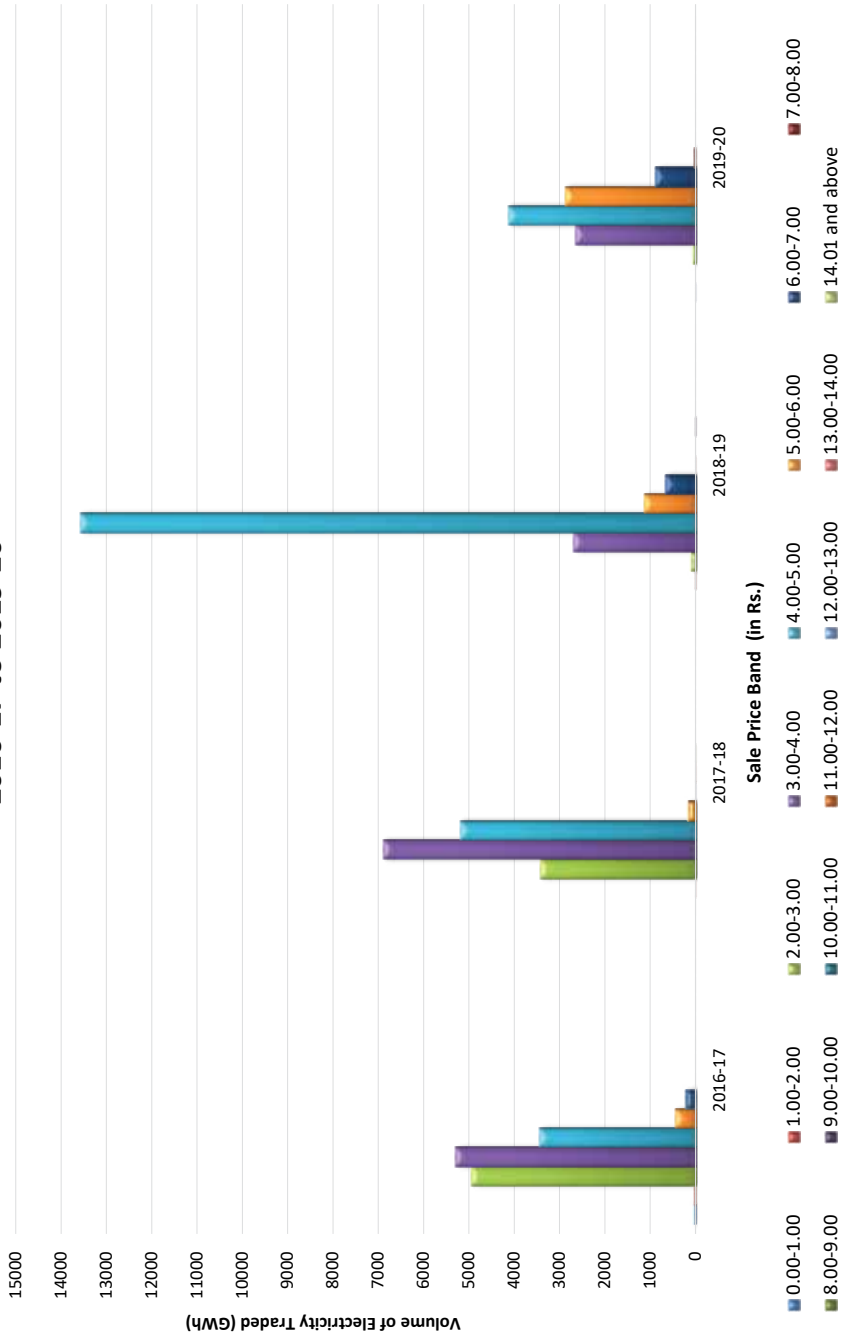
**Table 12.5 (Contd.)  
TRADER-WISE STATE-WISE ENERGY SALES DURING  
2019-20**

(GWh)

Trader	Sales to	Sales Vol.	% Vol.
NVTNL	Goa	2.11	
	Nepal	878.48	
	Uttar Pradesh	53.06	
	West Bengal	431.74	
<b>Total NVTNL</b>		<b>1365.38</b>	<b>12.77</b>
PTC	Bihar	694.92	
	Chhattisgarh	326.50	
	Gujarat	12.64	
	Maharashtra	63.77	
	Nepal	126.94	
	Tamil Nadu	180.25	
	Telangana	158.86	
	Uttar Pradesh	1235.93	
	Uttarakhand	397.85	
	West Bengal	154.89	
	Delhi	336.44	
<b>Total PTC</b>		<b>3688.97</b>	<b>34.51</b>
REL	Delhi	230.69	
<b>Total REL</b>		<b>230.69</b>	<b>2.16</b>
SCL	Nepal	38.19	
<b>Total SCL</b>		<b>38.19</b>	<b>0.36</b>
SMPL	Uttar Pradesh	20.92	
<b>Total SMPL</b>		<b>20.92</b>	<b>0.20</b>
TPTCL	Andhra Pradesh	143.54	
	Assam	12.73	
	Bihar	174.85	
	Chhattisgarh	79.28	
	Goa	37.69	
	Gujarat	50.05	
	Tripura	122.60	
	Uttar Pradesh	146.99	
	West Bengal	658.49	
<b>Total TPTCL</b>		<b>1426.21</b>	<b>13.34</b>
<b>Total All India</b>		<b>10689.88</b>	<b>100.00</b>



### Volume of Electricity Traded Sale Price wise 2016-17 to 2019-20



**Table 12.6**  
**AVERAGE SALE AND PURCHASE PRICE OF ELECTRICITY TRADED**  
**AND TRADING MARGIN-TRADER-WISE**  
**2019-20**

Sl. No.	Name of Trading Licensee	Average Purchase Price (Rs.)	Average Sale Price (Rs.)	Average Trading Margin (Rs.)
1	Adani Enterprises Ltd.	4.256	4.265	0.010
2	Arunachal Pradesh Power Corporation Private Limited	4.120	4.163	0.037
3	Essar Electric Power Development Corporation Ltd.	5.694	5.712	0.018
4	GMR Energy Trading Ltd	4.028	4.065	0.037
5	Kreate Energy (I) Pvt. Ltd.	4.427	4.464	0.063
6	Knowledge Infrastructure Systems (P) Ltd	4.681	4.745	0.064
7	Manikaran Power Limited	4.219	4.290	0.034
8	NHPC Limited	4.928	4.960	0.032
9	NTPC Vidyut Vyapar Nigam Ltd.	4.367	4.513	0.039
10	PTC India Ltd.	5.436	5.471	0.036
11	Refex Energy Ltd.	4.168	4.190	0.021
12	Shree Cement Ltd	3.827	3.857	0.030
13	Statkraft Markets (P) Ltd.	5.415	5.445	0.030
14	Tata Power Trading Company Ltd.	4.619	4.556	0.042
<b>Grand Total</b>		<b>4.815</b>	<b>4.846</b>	<b>0.038</b>

**Table 12.7**  
**VOLUME OF ELECTRICITY TRADED SALE PRICE-WISE**  
**2019-20**

Sale Price (Rs)	Volume (GWh)	% of Total Volume
0.00-1.000	3.09	0.03
1.001-2.000	0.00	0.00
2.001-3.000	81.18	0.76
3.001-4.000	2652.55	24.85
4.001-5.000	4129.10	38.68
5.001-6.000	2885.08	27.03
6.001-7.000	884.57	8.29
7.001-8.000	38.31	0.36
8.001-9.000	0.00	0.00
9.001-10.000	0.00	0.00
10.001-11.000	0.00	0.00
<b>Total</b>	<b>10673.88</b>	<b>100.00</b>

Note - Out of 10689.88 MU volumn traded in year 2019-20 , Sale price is available for 10673.88 MU.

# APPENDICES







## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
<b>1. Northern Region (NR)</b>									
1	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	1	30,000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	2	30,000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	3	30,000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	4	30,000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	5	30,000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	6	30,000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	7	30,000		1995
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	8	30,000		1995
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	9	30,000		1996
2	Delhi	State Sector	PPCL	PRAGATI CCPP	GT-Gas	1	104,600		2002
	Delhi	State Sector	PPCL	PRAGATI CCPP	GT-Gas	2	104,600		2002
	Delhi	State Sector	PPCL	PRAGATI CCPP	ST-Gas	3	121,200		2003
3	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	1	250,000		2010
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	2	250,000		2011
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	ST-Gas	3	250,000		2012
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	4	250,000		2012
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	5	250,000		2013
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	ST-Gas	6	250,000		2014
4	Delhi	Private Sector	TPDDL	RITHALA CCPP	GT-Gas	1	35,750		2010
	Delhi	Private Sector	TPDDL	RITHALA CCPP	GT-Gas	2	35,750		2010
	Delhi	Private Sector	TPDDL	RITHALA CCPP	ST-Gas	3	36,500		2011
<b>Total (Delhi)</b>							<b>2208,400</b>		
5	Haryana	State Sector	HPGCL	YAMUNA NAGAR TPS	Steam	1	300,000		2007
	Haryana	State Sector	HPGCL	YAMUNA NAGAR TPS	Steam	2	300,000		2008
6	Haryana	State Sector	HPGCL	RAJIV GANDHI TPS	Steam	1	600,000		2010
	Haryana	State Sector	HPGCL	RAJIV GANDHI TPS	Steam	2	600,000		2010
7	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	6	210,000		2001
	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	7	250,000		2004
	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	8	250,000		2005



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Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
8	Haryana	Private Sector	JHAJIAR POWER LTD.	MAHATMA GANDHI TPS	Steam	1	660.000		2012
	Haryana	Private Sector	JHAJIAR POWER LTD.	MAHATMA GANDHI TPS	Steam	2	660.000		2012
	<b>Total (Haryana)</b>						<b>3830.000</b>		
9	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	1	25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	2	25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	3	25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	4	25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	5	25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	6	25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	GT-Gas	7	25.000		1995
	<b>Total (Jammu &amp; Kashmir)</b>						<b>175.000</b>		
10	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	1	210.000		1997
	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	2	210.000		1998
	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	3	250.000		2008
	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	4	250.000		2008
11	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	3	210.000		1988
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	4	210.000		1989
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	5	210.000		1992
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	6	210.000		1993
12	Punjab	Private Sector	Nabha Power Ltd	RAI PURA TPP	Steam	1	700.000		2014
	Punjab	Private Sector	Nabha Power Ltd	RAI PURA TPP	Steam	2	700.000		2014
13	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	1	660.000		2014
	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	2	660.000		2015
	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	3	660.000		2016
14	Punjab	Private Sector	GPSSL (GVK)	GOINDWAL SAHIB TPP	Steam	1	270.000		2016
	Punjab	Private Sector	GPSSL (GVK)	GOINDWAL SAHIB TPP	Steam	2	270.000		2016
	<b>Total (Punjab)</b>						<b>5680.000</b>		
15	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	1	110.000		1983
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	2	110.000		1983
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	3	210.000		1988

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	4	210,000	1989
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	5	210,000	1994
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	6	195,000	2003
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	7	195,000	2009
16	Rajasthan	State Sector	RRVUNL	GIRAL TPS	Steam	1	125,000	2007
	Rajasthan	State Sector	RRVUNL	GIRAL TPS	Steam	2	125,000	2010
17	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	1	250,000	2009
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	2	250,000	2010
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	3	250,000	2013
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	4	250,000	2014
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	5	660,000	2017
	Rajasthan	State Sector	RRVUNL	CHHABRA TPP	Steam	6	660,000	2019
18	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	1	250,000	1998
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	2	250,000	2000
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	3	250,000	2001
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	4	250,000	2002
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	5	250,000	2003
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	6	250,000	2009
	Rajasthan	State Sector	RRVUNL	SURATGARH TPS	Steam	7	660,000	2020
19	Rajasthan	State Sector	RRVUNL	KALISINDH TPS	Steam	1	600,000	2014
	Rajasthan	State Sector	RRVUNL	KALISINDH TPS	Steam	2	600,000	2015
20	Rajasthan	State Sector	RRVUNL	DHOLPUR CCPP	GT-Gas	1	110,000	2007
	Rajasthan	State Sector	RRVUNL	DHOLPUR CCPP	GT-Gas	2	110,000	2007
	Rajasthan	State Sector	RRVUNL	DHOLPUR CCPP	GT-Gas	3	110,000	2007
21	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	1	3,000	1994
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	2	35,500	1996
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	3	37,500	2002
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	4	37,800	2003
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	5	110,000	2013
	Rajasthan	State Sector	RRVUNL	RAMGARH CCPP	GT-Gas	6	50,000	2013

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
22	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	Steam	1	660.000		2013
	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	Steam	2	660.000		2013
23	Rajasthan	Private Sector	RWPL (ISW)	JALIPA KAPURDI TPP	Steam	1	135.000		2009
	Rajasthan	Private Sector	RWPL (ISW)	JALIPA KAPURDI TPP	Steam	2	135.000		2010
	Rajasthan	Private Sector	RWPL (ISW)	JALIPA KAPURDI TPP	Steam	3	135.000		2011
	Rajasthan	Private Sector	RWPL (ISW)	JALIPA KAPURDI TPP	Steam	4	135.000		2011
	Rajasthan	Private Sector	RWPL (ISW)	JALIPA KAPURDI TPP	Steam	5	135.000		2013
	Rajasthan	Private Sector	RWPL (ISW)	JALIPA KAPURDI TPP	Steam	6	135.000		2013
	Rajasthan	Private Sector	RWPL (ISW)	JALIPA KAPURDI TPP	Steam	7	135.000		2013
	Rajasthan	Private Sector	RWPL (ISW)	JALIPA KAPURDI TPP	Steam	8	135.000		2013
<b>Total (Rajasthan)</b>							<b>10173.800</b>		
24	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	1	210.000		1986
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	2	210.000		1987
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	3	210.000		1988
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	4	500.000		1993
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	5	500.000		1994
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	6	500.000		2015
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	7	500.000		2016
25	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	7	105.000		1978
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	8	250.000		2011
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	9	250.000		2012
26	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	7	94.000		1974
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	9	200.000		1980
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	10	200.000		1979
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	11	200.000		1977
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	12	200.000		1981
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	13	200.000		1982
27	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	1	110.000		1984
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	2	110.000		1985
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	3	210.000		2006

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Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	4	210,000		2006
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	5	250,000		2012
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	6	250,000		2013
28	Uttar Pradesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	1	45,000		2011
	Uttar Pradesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	2	45,000		2011
29	Uttar Pradesh	Private Sector	BEPL	MAQSOODPUR TPS	Steam	1	45,000		2011
	Uttar Pradesh	Private Sector	BEPL	MAQSOODPUR TPS	Steam	2	45,000		2012
30	Uttar Pradesh	Private Sector	BEPL	BARKHERA TPS	Steam	1	45,000		2011
	Uttar Pradesh	Private Sector	BEPL	BARKHERA TPS	Steam	2	45,000		2012
31	Uttar Pradesh	Private Sector	BEPL	UTRAULA TPS	Steam	1	45,000		2012
	Uttar Pradesh	Private Sector	BEPL	UTRAULA TPS	Steam	2	45,000		2012
32	Uttar Pradesh	Private Sector	BEPL	KUNDARKI TPS	Steam	1	45,000		2012
	Uttar Pradesh	Private Sector	BEPL	KUNDARKI TPS	Steam	2	45,000		2012
33	Uttar Pradesh	Private Sector	LAPPL	ANPARA C TPS	Steam	1	600,000		2011
	Uttar Pradesh	Private Sector	LAPPL	ANPARA C TPS	Steam	2	600,000		2011
34	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	1	300,000		2010
	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	2	300,000		2010
	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	3	300,000		2011
	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	4	300,000		2012
35	Uttar Pradesh	Private Sector	LPGL	LALITPUR TPS	Steam	1	660,000		2016
	Uttar Pradesh	Private Sector	LPGL	LALITPUR TPS	Steam	2	660,000		2016
	Uttar Pradesh	Private Sector	LPGL	LALITPUR TPS	Steam	3	660,000		2016
36	Uttar Pradesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	1	660,000		2015
	Uttar Pradesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	2	660,000		2016
	Uttar Pradesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	3	660,000		2017
							<b>12279,000</b>		
37	Uttarakhand	Private Sector	Gama Infraprop Pvt. Ltd.	GAMA CAPP	Steam	1	225,000		2016
38	Uttarakhand	Private Sector	Sawanthi Energy Pvt. Ltd.	KASHIPUR CCPP	Steam	1	225,000		2016
							<b>450,000</b>		
39	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	1	500,000		2010

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	2	500,000		2011
	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	3	500,000		2012
40	Haryana	Central Sector	NTPC	FARIDABAD CCPP	GT-Gas	1	137,760		1999
	Haryana	Central Sector	NTPC	FARIDABAD CCPP	GT-Gas	2	137,760		1999
	Haryana	Central Sector	NTPC	FARIDABAD CCPP	ST-Gas	3	156,070		2000
41	Rajasthan	Central Sector	NLC	BARSINGSAR LIGNITE	Steam	1	125,000		2010
	Rajasthan	Central Sector	NLC	BARSINGSAR LIGNITE	Steam	2	125,000		2011
42	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	1	88,710		1989
	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	2	88,710		1989
	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	3	88,710		1989
	Rajasthan	Central Sector	NTPC	ANTA CCPP	ST-Gas	4	153,200		1989
43	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	1	210,000		1991
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	2	210,000		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	3	210,000		1993
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	4	210,000		1994
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	5	490,000		2010
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	6	490,000		2010
44	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	1	500,000		1988
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	2	500,000		1989
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	3	500,000		2005
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	4	500,000		2005
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	5	500,000		2012
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	6	500,000		2013
45	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	1	200,000		1982
	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	2	200,000		1982
	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	3	200,000		1983
	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	4	200,000		1983
	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	5	200,000		1984
	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	6	500,000		1986
	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	7	500,000		1987



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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
46	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	1	110.000		1988
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	2	110.000		1989
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	3	110.000		1990
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	4	110.000		1998
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	5	660.000		2019
47	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	1	210.000		1988
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	2	210.000		1989
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	3	210.000		1999
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	4	210.000		1999
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	5	210.000		2006
	Uttar Pradesh	Central Sector	NTPC	UNCHAHAH TPS	Steam	6	500.000		2017
48	Uttar Pradesh	Central Sector	MUNPL	MEJA STPP	Steam	1	660.000		2018
49	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	1	130.190		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	2	130.190		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	3	130.190		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	4	130.190		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	ST-Gas	5	154.510		1994
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	ST-Gas	6	154.510		1994
50	Uttar Pradesh	Central Sector	NTPC	AURAIVA CCPP	GT-Gas	1	111.190		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIVA CCPP	GT-Gas	2	111.190		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIVA CCPP	GT-Gas	3	111.190		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIVA CCPP	GT-Gas	4	111.190		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIVA CCPP	ST-Gas	5	109.300		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIVA CCPP	ST-Gas	6	109.300		1990
<b>Total Central Sector (Northern Region)</b>							<b>14224.060</b>		
<b>Northern Region Total</b>							<b>49020.260</b>		
<b>2. Western Region</b>									
51	Chhattisgarh	State Sector	CSPGCL	KORBA-III TPS	Steam	1	120.000		1976
	Chhattisgarh	State Sector	CSPGCL	KORBA-III TPS	Steam	2	120.000		1981
52	Chhattisgarh	State Sector	CSPGCL	DSPM TPS	Steam	1	250.000		2007

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Chhattisgarh	State Sector	CSPGCL	DSPM TPS	Steam	2	250,000		2007
53	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	1	210,000		1984
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	2	210,000		1983
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	3	210,000		1985
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	4	210,000		1986
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	5	500,000		2013
54	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	1	500,000		2014
	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	2	500,000		2016
55	Chhattisgarh	Private Sector	Vandana Energy & Steel Pvt Ltd	KATGHORA TPP	Steam	1	35,000		2012
56	Chhattisgarh	Private Sector	Lanco Amalkantak Power Ltd	PATHADI TPP	Steam	1	300,000		2009
	Chhattisgarh	Private Sector	Lanco Amalkantak Power Ltd	PATHADI TPP	Steam	2	300,000		2010
57	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPELLI TPP	Steam	1	135,000		2011
	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPELLI TPP	Steam	2	135,000		2012
58	Chhattisgarh	Private Sector	ACB (India) Ltd	CHAKABURA TPP	Steam	2	30,000		2014
59	Chhattisgarh	Private Sector	Jindal Power Limited	TAMINAR TPP	Steam	1	600,000		2014
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMINAR TPP	Steam	2	600,000		2014
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMINAR TPP	Steam	3	600,000		2015
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMINAR TPP	Steam	4	600,000		2015
60	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	1	250,000		2007
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	2	250,000		2008
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	3	250,000		2008
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	4	250,000		2008
61	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIJA TPS	Steam	1	50,000		2013
	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIJA TPS	Steam	2	50,000		2016
62	Chhattisgarh	Private Sector	S V Power Private Limited	SVPL TPP	Steam	1	63,000		2011
63	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALITARA TPS	Steam	2	600,000		2018
	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALITARA TPS	Steam	3	600,000		2013
	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALITARA TPS	Steam	4	600,000		2014
64	Chhattisgarh	Private Sector	Korba West Power Co Ltd	AVANTHA BHANDAR	Steam	1	600,000		2014
65	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	1	600,000		2014

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	2	600.000		2015
66	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAKHEDA TPP	Steam	1	685.000		2015
	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAKHEDA TPP	Steam	2	685.000		2015
67	Chhattisgarh	Private Sector	Vandana Vidhyut Ltd	SALORA TPP	Steam	1	135.000		2015
68	Chhattisgarh	Private Sector	ACB (India) Ltd	SWASTIK KORBA TPP	Steam	1	25.000		2015
69	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	1	360.000		2015
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	2	360.000		2016
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	3	360.000		2017
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	4	360.000		2019
70	Chhattisgarh	Private Sector	Maruti Clean Coal & Power Ltd	BANDAKHAR TPP	Steam	1	300.000		2015
71	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	1	300.000		2015
	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	2	300.000		2016
72	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	1	300.000		2016
	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	2	300.000		2017
73	Chhattisgarh	Private Sector	SKS Power Generation Ltd	BINJKOTE TPP	Steam	1	300.000		2017
	Chhattisgarh	Private Sector	SKS Power Generation Ltd	BINJKOTE TPP	Steam	2	300.000		2018
							<b>16248.000</b>		
74	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	3	210.000		1990
	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	4	210.000		1991
	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	5	210.000		1998
75	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	1	70.000		1990
	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	2	70.000		1991
	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	3	75.000		1997
	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	4	75.000		2009
76	Gujarat	State Sector	GSECL	SIKKA REP. TPS	Steam	3	250.000		2015
	Gujarat	State Sector	GSECL	SIKKA REP. TPS	Steam	4	250.000		2015
77	Gujarat	State Sector	GSECL	UKAI TPS	Steam	3	200.000		1979
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	4	200.000		1979
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	5	210.000		1985
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	6	500.000		2013



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Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	2	210,000	1983
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	3	210,000	1984
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	4	210,000	1986
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	5	210,000	1986
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	6	210,000	1987
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	7	210,000	1998
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	8	800,000	2019
79	Gujarat	State Sector	GMDCL	AKRIMOTA LIG TPS	Steam	1	125,000	2005
	Gujarat	State Sector	GMDCL	AKRIMOTA LIG TPS	Steam	2	125,000	2005
80	Gujarat	State Sector	Bhavnagar Energy Co. Ltd	BHAVNAGAR CFBC TPP	Steam	1	250,000	2016
	Gujarat	State Sector	Bhavnagar Energy Co. Ltd	BHAVNAGAR CFBC TPP	Steam	2	250,000	2017
81	Gujarat	State Sector	GSEGL	HAZIRA CCPP	GT-Gas	1	52,000	2001
	Gujarat	State Sector	GSEGL	HAZIRA CCPP	GT-Gas	2	52,000	2001
	Gujarat	State Sector	GSEGL	HAZIRA CCPP	GT-Gas	3	52,100	2002
82	Gujarat	State Sector	GSEGL	HAZIRA CCPP EXT	GT-Gas	1	351,000	2012
83	Gujarat	State Sector	GPPCL	PIPAVAV CCPP	GT-Gas	1	351,000	2014
	Gujarat	State Sector	GPPCL	PIPAVAV CCPP	GT-Gas	2	351,000	2013
84	Gujarat	State Sector	GSECL	DHUVRAN CCPP	GT-Gas	1	67,850	2003
	Gujarat	State Sector	GSECL	DHUVRAN CCPP	GT-Gas	2	38,770	2003
	Gujarat	State Sector	GSECL	DHUVRAN CCPP	GT-Gas	3	72,000	2006
	Gujarat	State Sector	GSECL	DHUVRAN CCPP	GT-Gas	4	40,000	2007
	Gujarat	State Sector	GSECL	DHUVRAN CCPP	GT-Gas	5	376,100	2014
85	Gujarat	State Sector	GSECL	UTRAN CCPP	GT-Gas	5	240,000	2009
	Gujarat	State Sector	GSECL	UTRAN CCPP	GT-Gas	6	134,000	2009
86	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (D-F STATIONS)	Steam	1	120,000	1978
	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (D-F STATIONS)	Steam	2	121,000	1984
	Gujarat	Private Sector	Torrent Power Ltd	SABARMATI (D-F STATIONS)	Steam	3	121,000	1988
87	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CCPP	GT-Gas	1	382,500	2009
	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CCPP	GT-Gas	2	382,500	2009

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Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CCPP	GT-Gas	3	382.500		2009
88	Gujarat	Private Sector	Torrent Power Ltd	UNOSUGEN CCPP	GT-Gas	1	382.500		2013
89	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	1	110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	2	110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	3	110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	4	185.000		1997
90	Gujarat	Private Sector	Essar Power Gujarat Ltd	SALAYA TPP	Steam	1	600.000		2012
	Gujarat	Private Sector	Essar Power Gujarat Ltd	SALAYA TPP	Steam	2	600.000		2012
91	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	1	330.000		2009
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	2	330.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	3	330.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	4	330.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	5	660.000		2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	6	660.000		2011
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	7	660.000		2011
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	8	660.000		2011
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	9	660.000		2012
92	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	1	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	2	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	3	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	4	800.000		2013
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	5	800.000		2013
93	Gujarat	Private Sector	GIPCL	BARODA CCPP	GT-Gas	5	106.000		1997
	Gujarat	Private Sector	GIPCL	BARODA CCPP	GT-Gas	6	54.000		1997
94	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	1	125.000		2000
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	2	125.000		1999
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	3	125.000		2010
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	4	125.000		2010
95	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCPP	GT-Gas	1	135.000		1997
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCPP	GT-Gas	2	135.000		1997

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Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.	
							MW			
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	GT-Gas	3	135,000		1998	
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	ST-Gas	4	250,000		1998	
96	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CAPP	GT-Gas	1	400,000		2014	
	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CAPP	GT-Gas	2	400,000		2014	
	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CAPP	GT-Gas	3	400,000		2014	
	<b>Total (Gujarat)</b>							<b>22469.820</b>		
97	Madhya Pradesh	State Sector	MPPGCL	AMARKANTAK EXT TPS	Steam	3	210,000		2008	
98	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	1	210,000		1993	
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	2	210,000		1994	
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	3	210,000		1999	
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	4	210,000		1999	
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	5	500,000		2007	
99	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	6	200,000		1979	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	7	210,000		1980	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	8	210,000		1983	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	9	210,000		1984	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	10	250,000		2013	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	11	250,000		2013	
100	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	1	600,000		2013	
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	2	600,000		2014	
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	3	660,000		2018	
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	4	660,000		2019	
101	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	1	600,000		2013	
	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	2	600,000		2018	
102	Madhya Pradesh	Private Sector	JaiPraksh Power Venture Ltd	BINA TPS	Steam	1	250,000		2012	
	Madhya Pradesh	Private Sector	JaiPraksh Power Venture Ltd	BINA TPS	Steam	2	250,000		2013	
103	Madhya Pradesh	Private Sector	BLA Power Pvt Ltd	NIWARI TPP	Steam	1	45,000		2013	
	Madhya Pradesh	Private Sector	BLA Power Pvt Ltd	NIWARI TPP	Steam	2	45,000		2019	
104	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMITPP	Steam	1	660,000		2013	
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMITPP	Steam	2	660,000		2013	

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Appendix-A

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

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
111	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	6	210,000		1982
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	7	210,000		1983
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	8	660,000		2015
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	9	660,000		2016
	Maharashtra	State Sector	MSPGCL	KORADI TPS	Steam	10	660,000		2016
112	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	3	210,000		1979
	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	4	210,000		1980
	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	5	210,000		1981
113	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	1	250,000		2007
	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	2	250,000		2010
114	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	6	250,000		2007
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	7	250,000		2010
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	8	250,000		2016
115	Maharashtra	State Sector	MSPGCL	URAN CCPP	GT-Gas	5	108,000		1985
	Maharashtra	State Sector	MSPGCL	URAN CCPP	GT-Gas	6	108,000		1985
	Maharashtra	State Sector	MSPGCL	URAN CCPP	GT-Gas	7	108,000		1985
	Maharashtra	State Sector	MSPGCL	URAN CCPP	GT-Gas	8	108,000		1985
	Maharashtra	State Sector	MSPGCL	URAN CCPP	ST-Gas	9	120,000		1994
	Maharashtra	State Sector	MSPGCL	URAN CCPP	ST-Gas	10	120,000		1994
116	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	1	270,000		2014
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	2	270,000		2017
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	3	270,000		2017
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	4	270,000		2017
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	5	270,000		2017
117	Maharashtra	Private Sector	GMR Energy Ltd	GMR WARORA TPS	Steam	1	300,000		2013
	Maharashtra	Private Sector	GMR Energy Ltd	GMR WARORA TPS	Steam	2	300,000		2013
118	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	1	660,000		2012
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	2	660,000		2013
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	3	660,000		2013
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	4	660,000		2014

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Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.	
							MW			
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	5	660.000		2014	
119	Maharashtra	Private Sector	Gupta Energy Pvt.Ltd	GEPL TPP Ph-I	Steam	1	60.000		2012	
	Maharashtra	Private Sector	Gupta Energy Pvt.Ltd	GEPL TPP Ph-I	Steam	2	60.000		2012	
120	Maharashtra	Private Sector	Vidarbha Industries Power Ltd	BUTIBORI TPP	Steam	1	300.000		2012	
	Maharashtra	Private Sector	Vidarbha Industries Power Ltd	BUTIBORI TPP	Steam	2	300.000		2014	
121	Maharashtra	Private Sector	Ideal Energy Projects Ltd	BELA TPS	Steam	1	270.000		2013	
122	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	1	270.000		2013	
	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	2	270.000		2014	
	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	3	270.000		2015	
	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	4	270.000		2015	
	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	5	270.000		2015	
123	Maharashtra	Private Sector	JSW Energy Ltd	JSW RATNAGIRI TPP	Steam	1	300.000		2010	
	Maharashtra	Private Sector	JSW Energy Ltd	JSW RATNAGIRI TPP	Steam	2	300.000		2010	
	Maharashtra	Private Sector	JSW Energy Ltd	JSW RATNAGIRI TPP	Steam	3	300.000		2011	
	Maharashtra	Private Sector	JSW Energy Ltd	JSW RATNAGIRI TPP	Steam	4	300.000		2011	
124	Maharashtra	Private Sector	Abhijeet MADC Nagpur EPL	MIHAN TPS	Steam	1	246.000		2012	
125	Maharashtra	Private Sector	Adani Electricity Mumbai Ltd	DAHANU TPS	Steam	1	250.000		1995	
	Maharashtra	Private Sector	Adani Electricity Mumbai Ltd	DAHANU TPS	Steam	2	250.000		1995	
126	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	1	135.000		2010	
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	2	135.000		2010	
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	3	135.000		2011	
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	4	135.000		2011	
127	Maharashtra	Private Sector	Dharwal Infrastructure Pvt.Ltd	DHARWAL TPP	Steam	1	300.000		2013	
	Maharashtra	Private Sector	Dharwal Infrastructure Pvt.Ltd	DHARWAL TPP	Steam	2	300.000		2014	
128	Maharashtra	Private Sector	Shirpur Power Pvt.Ltd	SHIRPUR TPP	Steam	1	150.000		2017	
129	Maharashtra	Private Sector	Tata Power Co.Ltd	TROMBAY TPS	Steam	5	500.000		1984	
	Maharashtra	Private Sector	Tata Power Co.Ltd	TROMBAY TPS	Steam	8	250.000		2009	
130	Maharashtra	Private Sector	Tata Power Co.Ltd	TROMBAY CCPP	GT-Gas	1	120.000		1993	
	Maharashtra	Private Sector	Tata Power Co.Ltd	TROMBAY CCPP	GT-Gas	2	60.000		1994	
131	Maharashtra	Private Sector	Pioneer Gas Power Ltd	MANGAON CCPP	GT-Gas	1	388.000		2016	
<b>Total (Maharashtra)</b>								<b>22566.000</b>		

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
132	Goa	Private Sector	Reliance Energy Trading (P) Ltd.	GOA CCPP (Liq.)	GT-Gas		48,000		1999
<b>Total (Goa)</b>							<b>48,000</b>		
133	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	1	200,000		1983
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	2	200,000		1983
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	3	200,000		1984
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	4	500,000		1987
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	5	500,000		1988
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	6	500,000		2010
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	7	500,000		2010
134	Chhattiagarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPS	Steam	1	250,000		2008
	Chhattiagarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPS	Steam	2	250,000		2009
135	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	1	660,000		2011
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	2	660,000		2011
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	3	660,000		2012
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	4	500,000		2007
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	5	500,000		2008
136	Chhattiagarh	Central Sector	NTPC	LARA TPP	Steam	1	800,000		2018
137	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	1	144,300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	2	144,300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	3	144,300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	4	224,490		1995
138	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	1	106,000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	2	106,000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	3	106,000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	4	106,000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	5	116,100		1993
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	6	116,100		1993
139	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	1	210,000		1987
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	2	210,000		1988
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	3	210,000		1989

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	4	210.000		1989
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	5	210.000		1990
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	6	210.000		1991
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	7	500.000		1999
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	8	500.000		2000
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	9	500.000		2006
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	10	500.000		2007
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	11	500.000		2012
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	12	500.000		2013
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	13	500.000		2015
140	Madhya Pradesh	Central Sector	NTPC	KHARGONE STPP	Steam	1	660.000		2019
	Madhya Pradesh	Central Sector	NTPC	KHARGONE STPP	Steam	2	660.000		2020
141	Madhya Pradesh	Central Sector	NTPC	GADARWARA TPP	Steam	1	800.000		2019
142	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	1	500.000		2012
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	2	500.000		2013
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	3	660.000		2016
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	4	660.000		2017
143	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	1	660.000		2017
	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	2	660.000		2019
144	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	1	205.000		1998
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	2	205.000		1998
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	3	230.000		1998
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	4	213.000		2006
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	5	213.000		2006
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	6	237.540		2006
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	7	213.000		2007
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	8	213.000		2007
	Maharashtra	Central Sector	RGPLL	RATNAGIRI CCPP	GT-Gas	9	237.540		2007
<b>Total Central Sector (Western Region)</b>								<b>20680.670</b>	
<b>Western Region Total</b>								<b>96282.490</b>	



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## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
<b>3. Southern Region</b>									
145	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	1	210,000		1994
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	2	210,000		1995
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	3	210,000		2007
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	4	210,000		2007
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	5	210,000		2010
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	6	600,000		2018
146	Andhra Pradesh	State Sector	APGENCO	Dr. N. TATA RAO TPS	Steam	1	210,000		1979
	Andhra Pradesh	State Sector	APGENCO	Dr. N. TATA RAO TPS	Steam	2	210,000		1980
	Andhra Pradesh	State Sector	APGENCO	Dr. N. TATA RAO TPS	Steam	3	210,000		1989
	Andhra Pradesh	State Sector	APGENCO	Dr. N. TATA RAO TPS	Steam	4	210,000		1990
	Andhra Pradesh	State Sector	APGENCO	Dr. N. TATA RAO TPS	Steam	5	210,000		1994
	Andhra Pradesh	State Sector	APGENCO	Dr. N. TATA RAO TPS	Steam	6	210,000		1995
	Andhra Pradesh	State Sector	APGENCO	Dr. N. TATA RAO TPS	Steam	7	500,000		2009
147	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAIAH TPS	Steam	1	800,000		2014
	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAIAH TPS	Steam	2	800,000		2015
148	Andhra Pradesh	Private Sector	LVS Power Ltd	L.V.S. Diesel Power Station	Diesel	1	18,400		2001
	Andhra Pradesh	Private Sector	LVS Power Ltd	L.V.S. Diesel Power Station	Diesel	2	18,400		2001
149	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	1	150,000		2012
	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	2	150,000		2012
	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	3	150,000		2014
	Andhra Pradesh	Private Sector	Simhapuri Energy Pvt Ltd	SIMHAPURI TPS	Steam	4	150,000		2015
150	Andhra Pradesh	Private Sector	Minakshi Energy Ltd	THAMMINAPATNAM TPS	Steam	1	150,000		2012
	Andhra Pradesh	Private Sector	Minakshi Energy Ltd	THAMMINAPATNAM TPS	Steam	2	150,000		2013
151	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	PAINAMPURAM TPP	Steam	1	660,000		2015
	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	PAINAMPURAM TPP	Steam	2	660,000		2015
152	Andhra Pradesh	Private Sector	HNPC	VIZAG TPP	Steam	1	520,000		2015
	Andhra Pradesh	Private Sector	HNPC	VIZAG TPP	Steam	2	520,000		2016
153	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	SGPL TPP	Steam	1	660,000		2016
	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	SGPL TPP	Steam	2	660,000		2017

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
154	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI CCPP	GT-Gas	1	118.654		2000
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI CCPP	GT-Gas	2	121.285		2000
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI CCPP	ST-Gas	3	128.205		2000
155	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI EXTN CCPP	GT-Gas	1	233.000		2009
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI EXTN CCPP	GT-Gas	2	133.000		2010
156	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI ST-3 CCPP	GT-Gas	1	371.000		2015
	Andhra Pradesh	Private Sector	Lanco Kondapalli Power Pvt Ltd	KONDAPALLI ST-3 CCPP	GT-Gas	2	371.000		2015
157	Andhra Pradesh	Private Sector	Gautami Power Ltd	GAUTAMI CCPP	GT-Gas	1	145.000		2009
	Andhra Pradesh	Private Sector	Gautami Power Ltd	GAUTAMI CCPP	GT-Gas	2	145.000		2009
	Andhra Pradesh	Private Sector	Gautami Power Ltd	GAUTAMI CCPP	ST-Gas	3	174.000		2009
158	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	1	33.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	2	33.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	3	34.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	4	112.000		2012
	Andhra Pradesh	Private Sector	APGPCL	VIJESWARAM CCPP	GT-Gas	5	60.000		2012
159	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	GT-Gas	1	140.000		2009
	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	GT-Gas	2	140.000		2009
	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	ST-Gas	3	165.000		2010
160	Andhra Pradesh	Private Sector	Reliance Infrastructure Ltd - A.P.	PEDDAPURAM CCPP	GT-Gas	1	142.000		2002
	Andhra Pradesh	Private Sector	Reliance Infrastructure Ltd - A.P.	PEDDAPURAM CCPP	GT-Gas	2	78.000		2002
161	Andhra Pradesh	State Sector	APEPDCCL	JEGURUPADU PHASE I CCPP	GT-Gas	1	52.800		1996
	Andhra Pradesh	State Sector	APEPDCCL	JEGURUPADU PHASE I CCPP	GT-Gas	2	52.800		1996
	Andhra Pradesh	State Sector	APEPDCCL	JEGURUPADU PHASE I CCPP	GT-Gas	3	52.800		1996
	Andhra Pradesh	State Sector	APEPDCCL	JEGURUPADU PHASE I CCPP	GT-Gas	4	77.000		1997
162	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	1	140.000		2005
	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	2	80.000		2005
163	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	DEMAGIRI CCPP	GT-Gas	1	233.000		2006
	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	DEMAGIRI CCPP	GT-Gas	2	137.000		2006
164	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd.	GODAVARI CCPP	GT-Gas	1	47.000		1997
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd.	GODAVARI CCPP	GT-Gas	2	47.000		1997

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd.	GODAVARI CCPP	GT-Gas	3	47,000		1997
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd.	GODAVARI CCPP	ST-Gas	4	67,000		1998
165	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	1	42,500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	2	42,500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	3	42,500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	4	42,500		2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	5	50,000		2001
166	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GREL CCPP (Rajahmundry)	ST-Gas	1	384,000		2015
	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GREL CCPP (Rajahmundry)	GT-Gas	2	384,000		2015
<b>Total (Andhra Pradesh)</b>							<b>14525.344</b>		
167	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	9	250,000		1997
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	10	250,000		1998
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	11	500,000		2011
168	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (STAGE-7)	Steam	12	800,000		2018
169	Telangana	State Sector	TSGENCO	KAKATIYA TPS	Steam	1	500,000		2010
	Telangana	State Sector	TSGENCO	KAKATIYA TPS	Steam	2	600,000		2015
170	Telangana	State Sector	TSGENCO	RAMAGUNDEM - B TPS	Steam	1	62,500		1971
171	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	1	600,000		2016
	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	2	600,000		2016
<b>Total (Telangana)</b>							<b>4162.500</b>		
172	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	1	210,000		1985
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	2	210,000		1986
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	3	210,000		1991
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	4	210,000		1994
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	5	210,000		1999
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	6	210,000		1999
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	7	210,000		2002
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	8	250,000		2010
173	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	1	500,000		2007
	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	2	500,000		2012

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.
	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	3	700.000	2016
174	Karnataka	State Sector	Raichur Power Corp. Ltd	YERMARUS TPP	Steam	1	800.000	2016
	Karnataka	State Sector	Raichur Power Corp. Ltd	YERMARUS TPP	Steam	2	800.000	2017
175	Karnataka	Private Sector	Shri Rajalaxmi Pvt. Ltd	BELLARY DG	Diesel	1	25.200	2000
176	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-I)	Steam	1	130.000	1999
	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-I)	Steam	2	130.000	1999
177	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-II)	Steam	1	300.000	2009
	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-II)	Steam	2	300.000	2009
178	Karnataka	Private Sector	Udupi Power Corp. Ltd	UDUPI TPP	Steam	1	600.000	2010
	Karnataka	Private Sector	Udupi Power Corp. Ltd	UDUPI TPP	Steam	2	600.000	2011
	<b>Total (Karnataka)</b>						<b>7105.200</b>	
179	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	1	21.320	1997
	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	4	21.320	1997
	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	5	21.320	1997
180	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	2	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	3	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	5	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	6	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	7	16.000	1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	8	16.000	1999
181	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	1	45.000	1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	2	45.000	1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	4	45.000	1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	3	39.000	2000
	<b>Total (Kerala)</b>						<b>333.960</b>	
182	Puducherry	State Sector	PPCL	KARAIKAL CCPP	GT-Gas	1	32.500	1999
	<b>Total (Puducherry)</b>						<b>32.500</b>	
183	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	1	210.000	1987
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	2	210.000	1987
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	3	210.000	1989

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	4	210,000		1990
184	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS-II	Steam	1	600,000		2012
185	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	1	210,000		1994
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	2	210,000		1995
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	3	210,000		1996
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	4	600,000		2013
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	5	600,000		2013
186	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	1	210,000		1979
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	2	210,000		1980
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	3	210,000		1982
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	4	210,000		1992
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	5	210,000		1991
	Tamil Nadu	State Sector	TANGEDCO	KUTTALAM CAPP	GT-Gas	1	63,000		2003
	Tamil Nadu	State Sector	TANGEDCO	KUTTALAM CAPP	GT-Gas	2	37,000		2004
188	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	1	30,000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	2	30,000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	3	30,000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	4	30,000		1996
189	Tamil Nadu	State Sector	TANGEDCO	KOVKALPAL CAPP	GT-Gas	1	69,650		2001
	Tamil Nadu	State Sector	TANGEDCO	KOVKALPAL CAPP	GT-Gas	2	38,230		2001
190	Tamil Nadu	State Sector	TANGEDCO	NARIMANAM GPS	GT-Gas	1	5,000		1992
	Tamil Nadu	State Sector	TANGEDCO	NARIMANAM GPS	GT-Gas	2	5,000		1992
191	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CAPP	GT-Gas	1	60,000		2002
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CAPP	GT-Gas	2	59,800		2008
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CAPP	GT-Gas	3	34,000		2003
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CAPP	GT-Gas	4	32,400		2009
192	Tamil Nadu	Private Sector	Madurai Power Corp. Pvt Ltd	SAMAYANALLUR DG	Diesel	1	106,001		2001
193	Tamil Nadu	Private Sector	Samalpatti Power Co. Pvt Ltd	SAMALPATTI DG	Diesel	1	105,700		2000
194	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	1	150,000		2013
	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	2	150,000		2013

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.	
							MW			
195	Tamil Nadu	Private Sector	ST-CMS Electric Co. Pvt Ltd	NEWVELI TPS(Z)	Steam	1	250.000		2002	
196	Tamil Nadu	Private Sector	Coastal Energen Pvt Ltd	MUTHIARA TPP	Steam	1	600.000		2015	
	Tamil Nadu	Private Sector	Coastal Energen Pvt Ltd	MUTHIARA TPP	Steam	2	600.000		2016	
197	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPCL TPP	Steam	1	600.000		2015	
	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPCL TPP	Steam	2	600.000		2016	
198	Tamil Nadu	Private Sector	PPN Power Gen. Co. Pvt Ltd	PNALLUR CCPP	GT-Gas	1	225.000		2001	
	Tamil Nadu	Private Sector	PPN Power Gen. Co. Pvt Ltd	PNALLUR CCPP	GT-Gas	2	105.500		2001	
199	Tamil Nadu	Private Sector	Aban Power Co. Ltd	KARUPPUR CCPP	GT-Gas	1	70.000		2005	
	Tamil Nadu	Private Sector	Aban Power Co. Ltd	KARUPPUR CCPP	GT-Gas	2	49.800		2005	
200	Tamil Nadu	Private Sector	Pioneer Power Ltd	VALANTARVY CCPP	GT-Gas	1	38.000		2005	
	Tamil Nadu	Private Sector	Pioneer Power Ltd	VALANTARVY CCPP	GT-Gas	2	14.800		2006	
<b>Total (Tamil Nadu)</b>								<b>8508.881</b>		
201	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	1	500.000		2002	
	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	2	500.000		2002	
	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	3	500.000		2011	
	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	4	500.000		2012	
202	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	1	200.000		1983	
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	2	200.000		1984	
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	3	200.000		1984	
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	4	500.000		1988	
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	5	500.000		1989	
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	6	500.000		1989	
	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	7	500.000		2004	
203	Karnataka	Central Sector	NTPC	KUDGI STPP	Steam	1	800.000		2016	
	Karnataka	Central Sector	NTPC	KUDGI STPP	Steam	2	800.000		2017	
	Karnataka	Central Sector	NTPC	KUDGI STPP	Steam	3	800.000		2018	
204	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	GT-Gas	1	115.200		1998	
	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	GT-Gas	2	115.200		1999	
	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	GT-Gas	3	129.180		1999	
205	Tamil Nadu	Central Sector	NLC	NEWVELI TPS- I	Steam	2	50.000		1963	

## Appendix-A

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS-I	Steam	3	50,000		1963
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS-I	Steam	4	50,000		1963
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS-I	Steam	5	50,000		1964
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS-I	Steam	6	50,000		1965
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS-I	Steam	8	100,000		1969
206	Tamil Nadu	Central Sector	NLC	NEWVELI TPS- II	Steam	1	210,000		1988
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS- II	Steam	2	210,000		1987
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS- II	Steam	3	210,000		1986
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS- II	Steam	4	210,000		1991
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS- II	Steam	5	210,000		1991
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS- II	Steam	6	210,000		1992
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS- II	Steam	7	210,000		1993
207	Tamil Nadu	Central Sector	NLC	NEWVELI TPS-II EXP	Steam	1	250,000		2012
	Tamil Nadu	Central Sector	NLC	NEWVELI TPS-II EXP	Steam	2	250,000		2015
208	Tamil Nadu	Central Sector	NLC	NEWVELI (EXT) TPS	Steam	1	210,000		2002
	Tamil Nadu	Central Sector	NLC	NEWVELI (EXT) TPS	Steam	2	210,000		2003
209	Tamil Nadu	Central Sector	NLC	NEWVELI NEW TPP	Steam	1	500,000		2019
210	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	1	500,000		2012
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	2	500,000		2013
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	3	500,000		2014
211	Tamil Nadu	Central Sector	NITPL	TUTICORIN (JV) TPP	Steam	1	500,000		2015
	Tamil Nadu	Central Sector	NITPL	TUTICORIN (JV) TPP	Steam	2	500,000		2015
<b>Total Central Sector (Southern Region)</b>							<b>13099.580</b>		
<b>Southern Region Total</b>							<b>47767.965</b>		
<b>4. Eastern Region</b>									
212	A & N Islands	State Sector	A&D Island Electricity Deptt.	AND. NICOBAR DG	Diesel	1	40,048		2000
<b>Total (A &amp; N Islands)</b>							<b>40,048</b>		
213	Jharkhand	State Sector	Tenughat Vidyut Nigam Ltd	TENUGHAT TPS	Steam	1	210,000		1994
	Jharkhand	State Sector	Tenughat Vidyut Nigam Ltd	TENUGHAT TPS	Steam	2	210,000		1996
214	Jharkhand	Private Sector	Tata Power Co. Ltd	JOJOBERA TPS	Steam	2	120,000		2001

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Jharkhand	Private Sector	Tata Power Co. Ltd	JOJOBERA TPS	Steam	3	120.000		2002
215	Jharkhand	Private Sector	Adhunik Power & Natural Resource Ltd	MAHADEV PRASAD STPP	Steam	1	270.000		2012
	Jharkhand	Private Sector	Adhunik Power & Natural Resource Ltd	MAHADEV PRASAD STPP	Steam	2	270.000		2013
216	Jharkhand	Private Sector	Maithon Power Ltd	MAITHON RB TPP	Steam	1	525.000		2011
	Jharkhand	Private Sector	Maithon Power Ltd	MAITHON RB TPP	Steam	2	525.000		2012
							<b>2250.000</b>		
217	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	1	210.000		1994
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	2	210.000		1995
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	3	660.000		2019
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	4	660.000		2019
218	Odisha	Private Sector	Sterilite Energy Ltd	STERILITE TPP	Steam	1	600.000		2010
	Odisha	Private Sector	Sterilite Energy Ltd	STERILITE TPP	Steam	2	600.000		2010
219	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	1	350.000		2013
	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	2	350.000		2013
	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	3	350.000		2014
220	Odisha	Private Sector	JITPL	DERANG TPP	Steam	1	600.000		2014
	Odisha	Private Sector	JITPL	DERANG TPP	Steam	2	600.000		2015
221	Odisha	Private Sector	IBPIL	UTKAL TPP (IND BARATH)	Steam	1	350.000		2016
							<b>5540.000</b>		
222	West Bengal	State Sector	DPL	D.P.L. TPS	Steam	7	300.000		2007
	West Bengal	State Sector	DPL	D.P.L. TPS	Steam	8	250.000		2014
223	West Bengal	State Sector	WBPC	BAKRESWAR TPS	Steam	1	210.000		1999
	West Bengal	State Sector	WBPC	BAKRESWAR TPS	Steam	2	210.000		2000
	West Bengal	State Sector	WBPC	BAKRESWAR TPS	Steam	3	210.000		2001
	West Bengal	State Sector	WBPC	BAKRESWAR TPS	Steam	4	210.000		2007
	West Bengal	State Sector	WBPC	BAKRESWAR TPS	Steam	5	210.000		2009
224	West Bengal	State Sector	WBPC	BANDEL TPS	Steam	1	60.000		1965
	West Bengal	State Sector	WBPC	BANDEL TPS	Steam	2	60.000		1965
	West Bengal	State Sector	WBPC	BANDEL TPS	Steam	5	210.000		1982
225	West Bengal	State Sector	WBPC	KOLAGHAT TPS	Steam	1	210.000		1990



## Appendix-A

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.	
							MW			
	West Bengal	State Sector	WBPDCL	KOLAGHAT TPS	Steam	2	210,000		1985	
	West Bengal	State Sector	WBPDCL	KOLAGHAT TPS	Steam	3	210,000		1984	
	West Bengal	State Sector	WBPDCL	KOLAGHAT TPS	Steam	4	210,000		1993	
	West Bengal	State Sector	WBPDCL	KOLAGHAT TPS	Steam	5	210,000		1991	
	West Bengal	State Sector	WBPDCL	KOLAGHAT TPS	Steam	6	210,000		1993	
226	West Bengal	State Sector	WBPDCL	SANTALDIH TPS	Steam	5	250,000		2007	
	West Bengal	State Sector	WBPDCL	SANTALDIH TPS	Steam	6	250,000		2011	
227	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	1	300,000		2007	
	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	2	300,000		2008	
	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	3	500,000		2015	
	West Bengal	State Sector	WBPDCL	SAGARDIGHI TPS	Steam	4	500,000		2016	
228	West Bengal	State Sector	WBPDCL	HALDIA GT (Liq.)	GT-Gas	1	20,000		1979	
	West Bengal	State Sector	WBPDCL	HALDIA GT (Liq.)	GT-Gas	2	20,000		1979	
229	West Bengal	State Sector	WBPDCL	KASBA GT (Liq.)	GT-Gas	1	20,000		1979	
	West Bengal	State Sector	WBPDCL	KASBA GT (Liq.)	GT-Gas	2	20,000		1979	
230	West Bengal	State Sector	WBPDCL	SILIGURI GPS	GT-Gas	1	20,000		1980	
231	West Bengal	Private Sector	CESC Ltd	BUDGE BUDGE TPS	Steam	1	250,000		1997	
	West Bengal	Private Sector	CESC Ltd	BUDGE BUDGE TPS	Steam	2	250,000		1999	
	West Bengal	Private Sector	CESC Ltd	BUDGE BUDGE TPS	Steam	3	250,000		2009	
232	West Bengal	Private Sector	CESC Ltd	SOUTHERN REPL. TPS	Steam	1	67,500		1991	
	West Bengal	Private Sector	CESC Ltd	SOUTHERN REPL. TPS	Steam	2	67,500		1990	
233	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	1	60,000		1985	
	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	2	60,000		1982	
	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	3	60,000		1983	
	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	4	60,000		1984	
234	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	1	300,000		2015	
	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	2	300,000		2015	
235	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	1	150,000		2017	
	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	2	150,000		2017	
236	West Bengal	Private Sector	DPSCLTD	DISHERGARH TPP	Steam	1	12,000		2019	
<b>Total (West Bengal)</b>								<b>7427,000</b>		

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
237	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	6	105.000		1983
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	7	105.000		1985
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	8	250.000		2018
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	9	250.000		2018
238	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	1	210.000		1992
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	2	210.000		1994
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	3	210.000		1995
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	4	210.000		1996
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	5	500.000		2007
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	6	500.000		2008
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	7	500.000		2009
239	Bihar	Central Sector	NTPC	BARH II STPP	Steam	4	660.000		2013
	Bihar	Central Sector	NTPC	BARH II STPP	Steam	5	660.000		2015
240	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	1	110.000		1985
	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	2	110.000		1986
	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	3	195.000		2015
	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	4	195.000		2017
241	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	1	250.000		2016
	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	2	250.000		2017
	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	3	250.000		2019
242	Bihar	Central Sector	NPCC	NABINAGAR STPP	Steam	1	660.000		2019
243	Jharkhand	Central Sector	DVC	BOKARO 'B' TPS	Steam	3	210.000		1993
244	Jharkhand	Central Sector	DVC	KODARMA TPP	Steam	1	500.000		2011
	Jharkhand	Central Sector	DVC	KODARMA TPP	Steam	2	500.000		2013
245	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	7	250.000		2009
	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	8	250.000		2010
246	Jharkhand	Central Sector	DVC	BOKARO 'A' TPS	Steam	1	500.000		2016
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	1	500.000		1995
247	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	2	500.000		1996
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	3	500.000		2003

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	4	500.000		2003
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	5	500.000		2004
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	6	500.000		2005
248	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	1	60.000		1967
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	2	60.000		1968
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	3	60.000		1968
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	4	60.000		1969
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	5	110.000		1982
	Odisha	Central Sector	NTPC	TALCHER (OLD) TPS	Steam	6	110.000		1983
249	Odisha	Central Sector	NTPC	DARLIPALI STPS	Steam	1	800.000		2019
250	West Bengal	Central Sector	DVC	DURGAPUR TPS	Steam	4	210.000		1982
251	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	1	500.000		2011
	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	2	500.000		2012
252	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	1	210.000		1995
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	2	210.000		1997
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	3	210.000		1998
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	4	210.000		2004
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	5	250.000		2007
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	6	250.000		2007
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	7	500.000		2010
	West Bengal	Central Sector	DVC	MEJIA TPS	Steam	8	500.000		2011
253	West Bengal	Central Sector	DVC	RAGHUNATHPUR TPP	Steam	1	600.000		2014
	West Bengal	Central Sector	DVC	RAGHUNATHPUR TPP	Steam	2	600.000		2016
254	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	1	200.000		1986
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	2	200.000		1986
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	3	200.000		1987
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	4	500.000		1992
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	5	500.000		1994
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	6	500.000		2011
	<b>Total (DVC)</b>						<b>6960.000</b>		

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
<b>Total (NTPC &amp; NTPC's Joint Ventures)</b>							<b>12750.000</b>		
<b>Total Central Sector (Eastern Region)</b>							<b>19710.000</b>		
<b>Eastern Region Total</b>							<b>34967.048</b>		
<b>5. North Eastern Region</b>									
255	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	5	20.000		1994
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	6	20.000		1994
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	7	20.000		1995
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	8	37.200		2012
256	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	2	21.000		1965
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	3	21.000		1965
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	4	11.000		1975
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	5	24.000		1976
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	6	22.000		1985
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	7	62.250		2017
257	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	1	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	2	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	3	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	4	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	5	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	6	9.965		2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	7	9.965		2018
258	Assam	Private Sector	DLF Power Supply Co. Ltd	Adamtilla CCPP	GT-Gas	1	3.000		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Adamtilla CCPP	GT-Gas	2	3.000		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Adamtilla CCPP	GT-Gas	3	3.000		1998
259	Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCPP	GT-Gas	1	3.500		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCPP	GT-Gas	2	3.500		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCPP	GT-Gas	3	3.500		1997
	Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCPP	GT-Gas	4	5.000		1998
<b>Total (Assam)</b>							<b>352.705</b>		

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
260	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	1	6,000		2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	2	6,000		2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	3	6,000		2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	4	6,000		2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	5	6,000		2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	6	6,000		2002
	<b>Total (Manipur)</b>						<b>36,000</b>		
261	Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	4	37,500		2002
	Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	5	21,000		2010
262	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	1	8,000		1990
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	2	8,000		1990
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	3	8,000		1995
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	4	8,000		1995
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	5	8,000		1997
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	6	8,000		1997
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	7	21,000		2002
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	8	21,000		2006
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	9	21,000		2013
	<b>Total (Tripura)</b>						<b>169,500</b>		
263	Assam	Central Sector	NTPC	BONGAIGAON TPP	Steam	1	250,000		2015
	Assam	Central Sector	NTPC	BONGAIGAON TPP	Steam	2	250,000		2017
	Assam	Central Sector	NTPC	BONGAIGAON TPP	Steam	3	250,000		2019
264	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	1	33,500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	2	33,500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	3	33,500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	4	33,500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	5	33,500		1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	6	33,500		1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	7	30,000		1998
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	8	30,000		1998

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2020

Appendix-A

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	9	30,000		1998
265	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	1	21,000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	2	21,000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	3	21,000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	4	21,000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	5	25,500		2015
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	6	25,500		2016
266	Tripura	Central Sector	NEEPCO	MONARCHAK CCPP	GT-Gas	1	65,400		2015
	Tripura	Central Sector	NEEPCO	MONARCHAK CCPP	GT-Gas	3	35,600		2016
267	Tripura	Central Sector	ONGC	TRIPURA CCPP	GT-Gas	1	363,300		2013
	Tripura	Central Sector	ONGC	TRIPURA CCPP	GT-Gas	2	363,300		2014
<b>Total Central Sector (North Eastern Region)</b>							<b>2003.600</b>		
<b>North Eastern Region Total</b>							<b>2561.805</b>		
<b>Total All India Thermal</b>							<b>230599.568</b>		

## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
<b>1. Northern Region (NR)</b>								
1	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	1	16.50		1970
	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	2	16.50		1971
	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	3	16.50		1970
	Himachal Pradesh	State Sector	HPSEB	BASSI HPS	4	16.50		1981
2	Himachal Pradesh	State Sector	HPSEB	GIRI BATA HPS	1	30.00		1978
	Himachal Pradesh	State Sector	HPSEB	GIRI BATA HPS	2	30.00		1978
3	Himachal Pradesh	State Sector	HPSEB	LARU HPS	1	42.00		2006
	Himachal Pradesh	State Sector	HPSEB	LARU HPS	2	42.00		2006
	Himachal Pradesh	State Sector	HPSEB	LARU HPS	3	42.00		2006
4	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	1	40.00		1989
	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	2	40.00		1989
	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	3	40.00		1989
5	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	1	65.00		2016
	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	2	65.00		2016
	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	3	65.00		2017
6	Himachal Pradesh	State Sector	HPPCL	SAINI HPS	1	50.00		2017
	Himachal Pradesh	State Sector	HPPCL	SAINI HPS	2	50.00		2017
7	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	1	15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	2	15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	3	15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	4	15.00		1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	5	50.00		1982
8	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	1	250.00		2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	2	250.00		2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	3	250.00		2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	4	250.00		2011
9	Himachal Pradesh	Private Sector	EPPL	MALANA-II HPS	1	50.00		2011
	Himachal Pradesh	Private Sector	EPPL	MALANA-II HPS	2	50.00		2011
10	Himachal Pradesh	Private Sector	ADHPL	ALLAIN DUHANGAN HPS	1	96.00		2010

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Himachal Pradesh	Private Sector	ADHPL	ALLAIN DUHANGAN HPS	2	96.00		2010
11	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	1	100.00		2003
	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	2	100.00		2003
	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	3	100.00		2003
12	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	1	43.00		2001
	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	2	43.00		2001
13	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	1	35.00		2012
	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	2	35.00		2012
14	Himachal Pradesh	Private Sector	IAEPL	CHANUJU-I HPS	1	12.00		2017
	Himachal Pradesh	Private Sector	IAEPL	CHANUJU-I HPS	2	12.00		2017
	Himachal Pradesh	Private Sector	IAEPL	CHANUJU-I HPS	3	12.00		2017
<b>Total (Himachal Pradesh)</b>						<b>2561.00</b>		
15	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELUM HPS	1	35.00		1978
	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELUM HPS	2	35.00		1979
	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELUM HPS	3	35.00		1979
16	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	1	35.00		2001
	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	2	35.00		2001
	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	3	35.00		2002
17	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	1	150.00		2008
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	2	150.00		2008
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	3	150.00		2008
18	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	1	150.00		2015
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	2	150.00		2015
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	3	150.00		2015
<b>Total (Jammu &amp; Kashmir)</b>						<b>1110.00</b>		
19	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	1	33.50		1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	2	33.50		1985
20	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	3	33.50		1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	4	33.50		1985
21	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	1	15.00		1983



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



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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Uttar Pradesh	State Sector	UPJVNL	KHARA HPS	3		24.00	1992
	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	1		10.20	1965
31	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	2		10.20	1965
	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	3		10.20	1965
	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	1		33.00	1970
32	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	2		33.00	1970
	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	3		33.00	1971
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	1		50.00	1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	2		50.00	1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	3		50.00	1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	4		50.00	1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	5		50.00	1961
	Uttar Pradesh	State Sector	UPJVNL	RIHAND HPS	6		50.00	1965
<b>Total (Uttar Pradesh)</b>							<b>501.60</b>	
34	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	1		60.00	1975
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	2		60.00	1975
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	3		60.00	1975
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	4		60.00	1976
35	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	1		11.25	1965
	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	2		11.25	1966
	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	3		11.25	1970
36	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	1		17.00	1965
	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	2		17.00	1966
	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	3		17.00	1970
37	Uttarakhand	State Sector	UJVNL	KHATIMA HPS	1		13.80	1955
	Uttarakhand	State Sector	UJVNL	KHATIMA HPS	2		13.80	1956
	Uttarakhand	State Sector	UJVNL	KHATIMA HPS	3		13.80	1956
38	Uttarakhand	State Sector	UJVNL	KHODRI HPS	1		30.00	1984
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	2		30.00	1984
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	3		30.00	1984

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.	
						MW			
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	4	30.00		1984	
39	Uttarakhand	State Sector	UJVNL	KULHAL HPS	1	10.00		1975	
	Uttarakhand	State Sector	UJVNL	KULHAL HPS	2	10.00		1975	
	Uttarakhand	State Sector	UJVNL	KULHAL HPS	3	10.00		1975	
40	Uttarakhand	State Sector	UJVNL	MANERI BHALI - I HPS	1	30.00		1984	
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - I HPS	2	30.00		1984	
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - I HPS	3	30.00		1984	
41	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	1	76.00		2008	
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	2	76.00		2008	
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	3	76.00		2008	
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	4	76.00		2008	
42	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	1	66.00		1975	
	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	2	66.00		1976	
	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	3	66.00		1977	
43	Uttarakhand	State Sector	UJVNL	CHILLA HPS	1	36.00		1980	
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	2	36.00		1980	
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	3	36.00		1980	
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	4	36.00		1981	
44	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	1	100.00		2006	
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	2	100.00		2006	
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	3	100.00		2006	
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	4	100.00		2006	
45	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	1	82.50		2015	
	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	2	82.50		2015	
	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	3	82.50		2015	
	Uttarakhand	Private Sector	AHPC (GVK)	SHRINAGAR HPS	4	82.50		2015	
	<b>Total (Uttarakhand)</b>						<b>1982.15</b>		
46	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	1	108.00		1960	
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	2	126.00		1961	
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	3	108.00		1961	



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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	4	126.00		1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	5	126.00		1961
47	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	6	157.00		1966
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	7	157.00		1966
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	8	157.00		1967
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	9	157.00		1967
	Himachal Pradesh	State Sector	BBMB	BHAKRA RIGHT HPS	10	157.00		1968
48	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	1	165.00		1977
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	2	165.00		1978
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	3	165.00		1979
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	4	165.00		1979
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	5	165.00		1983
	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	6	165.00		1983
49	Himachal Pradesh	State Sector	BBMB	PONG HPS	1	66.00		1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	2	66.00		1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	3	66.00		1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	4	66.00		1979
	Himachal Pradesh	State Sector	BBMB	PONG HPS	5	66.00		1982
	Himachal Pradesh	State Sector	BBMB	PONG HPS	6	66.00		1983
50	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	1	60.00		1980
	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	2	60.00		1980
51	Himachal Pradesh	Central Sector	NHPC	CHAMERA-I HPS	1	180.00		1994
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-I HPS	2	180.00		1994
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-I HPS	3	180.00		1994
52	Himachal Pradesh	Central Sector	NHPC	CHAMERA-II HPS	1	100.00		2003
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-II HPS	2	100.00		2003
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-II HPS	3	100.00		2004
53	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	1	77.00		2012
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	2	77.00		2012

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## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
54	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	3	77.00		2012
	Himachal Pradesh	Central Sector	SJWNL	NATHPA JHAKRI HPS	1	250.00		2004
	Himachal Pradesh	Central Sector	SJWNL	NATHPA JHAKRI HPS	2	250.00		2003
	Himachal Pradesh	Central Sector	SJWNL	NATHPA JHAKRI HPS	3	250.00		2003
	Himachal Pradesh	Central Sector	SJWNL	NATHPA JHAKRI HPS	4	250.00		2004
	Himachal Pradesh	Central Sector	SJWNL	NATHPA JHAKRI HPS	5	250.00		2004
	Himachal Pradesh	Central Sector	SJWNL	NATHPA JHAKRI HPS	6	250.00		2004
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	1	130.00		2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	2	130.00		2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	3	130.00		2014
55	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	4	130.00		2014
	Himachal Pradesh	Central Sector	SJWNL	RAMPUR HPS	1	68.67		2014
	Himachal Pradesh	Central Sector	SJWNL	RAMPUR HPS	2	68.67		2014
	Himachal Pradesh	Central Sector	SJWNL	RAMPUR HPS	3	68.67		2014
	Himachal Pradesh	Central Sector	SJWNL	RAMPUR HPS	4	68.67		2014
	Himachal Pradesh	Central Sector	SJWNL	RAMPUR HPS	5	68.67		2014
	Himachal Pradesh	Central Sector	SJWNL	RAMPUR HPS	6	68.67		2014
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	1	200.00		2015
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	2	200.00		2015
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	3	200.00		2015
56	Himachal Pradesh	Central Sector	NTPC	KOLDAM	4	200.00		2015
	Jammu & Kashmir	Central Sector	NHPC	SEWA-II HPS	1	40.00		2010
	Jammu & Kashmir	Central Sector	NHPC	SEWA-II HPS	2	40.00		2010
	Jammu & Kashmir	Central Sector	NHPC	SEWA-II HPS	3	40.00		2010
	Jammu & Kashmir	Central Sector	NHPC	DULHASTI HPS	1	130.00		2007
	Jammu & Kashmir	Central Sector	NHPC	DULHASTI HPS	2	130.00		2007
	Jammu & Kashmir	Central Sector	NHPC	DULHASTI HPS	3	130.00		2007
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	1	115.00		1987
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	2	115.00		1987
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	3	115.00		1987

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	4	115.00	1993	
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	5	115.00	1994	
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	6	115.00	1995	
61	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	1	120.00	1997	
	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	2	120.00	1997	
	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	3	120.00	1997	
	Jammu & Kashmir	Central Sector	NHPC	URI-I HPS	4	120.00	1996	
62	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	1	11.00	2012	
	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	2	11.00	2012	
	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	3	11.00	2012	
	Jammu & Kashmir	Central Sector	NHPC	CHUTAK HPS	4	11.00	2013	
63	Jammu & Kashmir	Central Sector	NHPC	NIMBOO BAZDO HPS	1	15.00	2013	
	Jammu & Kashmir	Central Sector	NHPC	NIMBOO BAZDO HPS	2	15.00	2013	
	Jammu & Kashmir	Central Sector	NHPC	NIMBOO BAZDO HPS	3	15.00	2013	
64	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	1	60.00	2013	
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	2	60.00	2013	
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	3	60.00	2013	
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	4	60.00	2014	
65	Jammu & Kashmir	Central Sector	NHPC	KISHANGANGA HPS	1	110.00	2018	
	Jammu & Kashmir	Central Sector	NHPC	KISHANGANGA HPS	2	110.00	2018	
	Jammu & Kashmir	Central Sector	NHPC	KISHANGANGA HPS	3	110.00	2018	
66	Punjab	State Sector	BBMB	GANGUWAL HPS	1	24.20	1962	
	Punjab	State Sector	BBMB	GANGUWAL HPS	2	24.20	1955	
	Punjab	State Sector	BBMB	GANGUWAL HPS	3	29.25	1955	
67	Punjab	State Sector	BBMB	KOTLA HPS	1	24.20	1961	
	Punjab	State Sector	BBMB	KOTLA HPS	2	29.25	1956	
	Punjab	State Sector	BBMB	KOTLA HPS	3	24.20	1956	
68	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	1	70.00	2005	
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	2	70.00	2005	
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	3	70.00	2005	

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## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	4	70.00		2005
69	Uttarakhand	Central Sector	NHPC	TANAKPUR HPS	1	31.40		1992
	Uttarakhand	Central Sector	NHPC	TANAKPUR HPS	2	31.40		1992
	Uttarakhand	Central Sector	NHPC	TANAKPUR HPS	3	31.40		1992
70	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	1	250.00		2006
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	2	250.00		2006
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	3	250.00		2007
	Uttarakhand	Central Sector	NHPC	TEHRI ST-1 HPS	4	250.00		2007
71	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	1	100.00		2011
	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	2	100.00		2011
	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	3	100.00		2012
	Uttarakhand	Central Sector	THDC	KOTESHWAR HPS	4	100.00		2012
<b>Total Central Sector (Northern Region)</b>						<b>11516.52</b>		
<b>Northern Region Total</b>						<b>19023.27</b>		
<b>2. Western Region</b>								
72	Chhattisgarh	State Sector	CSPGCL	HASDEOBANGO HPS	1	40.00		1994
	Chhattisgarh	State Sector	CSPGCL	HASDEOBANGO HPS	2	40.00		1994
	Chhattisgarh	State Sector	CSPGCL	HASDEOBANGO HPS	3	40.00		1995
<b>Total (Chhattisgarh)</b>						<b>120.00</b>		
73	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	1	50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	2	50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	3	50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	4	50.00		2004
	Gujarat	State Sector	SSNNL	S SAROVAR CHPH HPS	5	50.00		2004
74	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	1	200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	2	200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	3	200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	4	200.00		2005
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	5	200.00		2006
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	6	200.00		2006

## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
75	Gujarat	State Sector	GSECL	KADANA HPS	1	60.00		1990
	Gujarat	State Sector	GSECL	KADANA HPS	2	60.00		1990
	Gujarat	State Sector	GSECL	KADANA HPS	3	60.00		1997
	Gujarat	State Sector	GSECL	KADANA HPS	4	60.00		1998
76	Gujarat	State Sector	GSECL	UKAI HPS	1	75.00		1974
	Gujarat	State Sector	GSECL	UKAI HPS	2	75.00		1974
	Gujarat	State Sector	GSECL	UKAI HPS	3	75.00		1975
	Gujarat	State Sector	GSECL	UKAI HPS	4	75.00		1976
<b>Total (Gujarat)</b>						<b>1990.00</b>		
77	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	1	23.00		1960
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	2	23.00		1960
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	3	23.00		1960
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	4	23.00		1963
	Madhya Pradesh	State Sector	MPPGCL	GANDHI SAGAR HPS	5	23.00		1966
78	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR TONS HPS -I	1	105.00		1976
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR TONS HPS -I	2	105.00		1970
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR TONS HPS -I	3	105.00		1992
79	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	1	15.00		2002
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	2	15.00		2002
80	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-III HPS	1	20.00		2000
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-III HPS	2	20.00		2001
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-III HPS	3	20.00		2002
81	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	1	45.00		1988
	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	2	45.00		1988
82	Madhya Pradesh	State Sector	MPPGCL	MADHIKHERA HPS	1	20.00		2006
	Madhya Pradesh	State Sector	MPPGCL	MADHIKHERA HPS	2	20.00		2006
	Madhya Pradesh	State Sector	MPPGCL	MADHIKHERA HPS	3	20.00		2006
83	Madhya Pradesh	State Sector	MPPGCL	RAIGHAT HPS	1	15.00		1999
	Madhya Pradesh	State Sector	MPPGCL	RAIGHAT HPS	2	15.00		1999
	Madhya Pradesh	State Sector	MPPGCL	RAIGHAT HPS	3	15.00		1999
<b>Total (Madhya Pradesh)</b>						<b>715.00</b>		



## Appendix-B

## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
84	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	1	80.00		1986
	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	2	80.00		1987
85	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	1	40.00		1988
	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	2	40.00		1987
86	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	1	18.00		1980
	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	2	18.00		1981
87	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	1	70.00		1962
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	2	70.00		1962
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	3	70.00		1963
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	4	70.00		1963
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	5	80.00		1967
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	6	80.00		1966
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	7	80.00		1967
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	8	80.00		1966
88	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	1	80.00		1975
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	2	80.00		1976
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	3	80.00		1977
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	4	80.00		1978
89	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	1	250.00		2000
	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	2	250.00		2000
	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	3	250.00		1999
	Maharashtra	State Sector	MAHAGENCO	KOYNA-IV HPS	4	250.00		1999
90	Maharashtra	State Sector	MAHAGENCO	TILLARI HPS	1	60.00		1986
91	Maharashtra	State Sector	MAHAGENCO	VAITARNA HPS	1	60.00		1976
92	Maharashtra	State Sector	MAHAGENCO	GHATGHAR PSS HPS	1	125.00		2008
	Maharashtra	State Sector	MAHAGENCO	GHATGHAR PSS HPS	2	125.00		2008
93	Maharashtra	State Sector	DLHP	BHANDARDHARA HPS ST-II	1	34.00		1996
94	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA PSS HPS	1	150.00		1995
95	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	1	25.00		1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	2	25.00		1927

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Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	3	25.00	1927	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	4	25.00	1927	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	5	25.00	1927	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	6	25.00	1949	
96	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	1	24.00	1998	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	2	24.00	1997	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	3	24.00	1998	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	4	1.50	1997	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	5	1.50	1999	
97	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	1	12.00	2002	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	2	12.00	2003	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	3	12.00	2001	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	4	12.00	2002	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	5	12.00	2002	
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	6	12.00	2002	
<b>Total (Maharashtra)</b>						<b>3047.00</b>		
98	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	1	65.00	2007	
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	2	65.00	2007	
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	3	65.00	2007	
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	4	65.00	2007	
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	5	65.00	2007	
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	6	65.00	2007	
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	7	65.00	2007	
	Madhya Pradesh	Central Sector	NHDC	OMKARESHWAR HPS	8	65.00	2007	
99	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	1	125.00	2004	
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	2	125.00	2004	
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	3	125.00	2004	
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	4	125.00	2004	
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	5	125.00	2004	
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	6	125.00	2004	

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	7	125.00		2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	8	125.00		2005
<b>Total Central Sector (Western Region)</b>						<b>1520.00</b>		
<b>Western Region Total</b>						<b>7392.00</b>		
<b>3. Southern Region</b>								
100	Andhra Pradesh	State Sector	APGENCO	NAGARIJUN SGR RBC HPS	1	30.00		1983
	Andhra Pradesh	State Sector	APGENCO	NAGARIJUN SGR RBC HPS	2	30.00		1990
	Andhra Pradesh	State Sector	APGENCO	NAGARIJUN SGR RBC HPS	3	30.00		1983
101	Andhra Pradesh	State Sector	APGENCO	SRSAILAM HPS	1	110.00		1982
	Andhra Pradesh	State Sector	APGENCO	SRSAILAM HPS	2	110.00		1982
	Andhra Pradesh	State Sector	APGENCO	SRSAILAM HPS	3	110.00		1983
	Andhra Pradesh	State Sector	APGENCO	SRSAILAM HPS	4	110.00		1984
	Andhra Pradesh	State Sector	APGENCO	SRSAILAM HPS	5	110.00		1986
	Andhra Pradesh	State Sector	APGENCO	SRSAILAM HPS	6	110.00		1986
	Andhra Pradesh	State Sector	APGENCO	SRSAILAM HPS	7	110.00		1987
102	Andhra Pradesh	State Sector	APGENCO	UPPER SILERU HPS	1	60.00		1967
	Andhra Pradesh	State Sector	APGENCO	UPPER SILERU HPS	2	60.00		1968
	Andhra Pradesh	State Sector	APGENCO	UPPER SILERU HPS	3	60.00		1994
	Andhra Pradesh	State Sector	APGENCO	UPPER SILERU HPS	4	60.00		1997
103	Andhra Pradesh	State Sector	APGENCO	NAGARIJUN SGR TPD	1	25.00		2017
	Andhra Pradesh	State Sector	APGENCO	NAGARIJUN SGR TPD	2	25.00		2017
<b>Total (Andhra Pradesh)</b>						<b>1150.00</b>		
104	Telangana	State Sector	APGENCO	LOWER SILERU HPS	1	115.00		1976
	Telangana	State Sector	APGENCO	LOWER SILERU HPS	2	115.00		1976
	Telangana	State Sector	APGENCO	LOWER SILERU HPS	3	115.00		1977
	Telangana	State Sector	APGENCO	LOWER SILERU HPS	4	115.00		1978
105	Telangana	State Sector	TSGENCO	NAGARIJUN SGR HPS	1	110.00		1978
	Telangana	State Sector	TSGENCO	NAGARIJUN SGR HPS	2	100.80		1980
	Telangana	State Sector	TSGENCO	NAGARIJUN SGR HPS	3	100.80		1981
	Telangana	State Sector	TSGENCO	NAGARIJUN SGR HPS	4	100.80		1982

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Telangana	State Sector	TSGENCO	NAGARIJUN SGR HPS	5	100.80		1983
	Telangana	State Sector	TSGENCO	NAGARIJUN SGR HPS	6	100.80		1984
	Telangana	State Sector	TSGENCO	NAGARIJUN SGR HPS	7	100.80		1985
	Telangana	State Sector	TSGENCO	NAGARIJUN SGR HPS	8	100.80		1985
106	Telangana	State Sector	TSGENCO	NAGARIJUN SGR LBC HPS	1	30.00		1983
	Telangana	State Sector	TSGENCO	NAGARIJUN SGR LBC HPS	2	30.00		1983
107	Telangana	State Sector	TSGENCO	POCHAMPAD HPS	1	9.00		1987
	Telangana	State Sector	TSGENCO	POCHAMPAD HPS	2	9.00		1987
	Telangana	State Sector	TSGENCO	POCHAMPAD HPS	3	9.00		1988
	Telangana	State Sector	TSGENCO	POCHAMPAD HPS	4	9.00		2010
108	Telangana	State Sector	TSGENCO	PRIVADARSHINI JURALA HPS	1	39.00		2008
	Telangana	State Sector	TSGENCO	PRIVADARSHINI JURALA HPS	2	39.00		2008
	Telangana	State Sector	TSGENCO	PRIVADARSHINI JURALA HPS	3	39.00		2009
	Telangana	State Sector	TSGENCO	PRIVADARSHINI JURALA HPS	4	39.00		2010
	Telangana	State Sector	TSGENCO	PRIVADARSHINI JURALA HPS	5	39.00		2010
	Telangana	State Sector	TSGENCO	PRIVADARSHINI JURALA HPS	6	39.00		2011
109	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	1	150.00		2001
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	2	150.00		2001
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	3	150.00		2002
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	4	150.00		2002
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	5	150.00		2003
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	6	150.00		2003
110	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	1	40.00		2015
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	2	40.00		2015
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	3	40.00		2016
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	4	40.00		2016
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	5	40.00		2016
	Telangana	State Sector	TSGENCO	LOWER JURALA HPS	6	40.00		2016
111	Telangana	State Sector	TSGENCO	PULLCHINTALA HPS	1	30.00		2016
	Telangana	State Sector	TSGENCO	PULLCHINTALA HPS	2	30.00		2017

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Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.	
						MW			
	Telangana	State Sector	TSGENCO	PULLCHINTALA HPS	3	30.00		2017	
	Telangana	State Sector	TSGENCO	PULLCHINTALA HPS	4	30.00		2018	
	<b>Total (Telangana)</b>						<b>2865.60</b>		
112	Karnataka	State Sector	KPCL	JOG HPS	1	13.20		1947	
	Karnataka	State Sector	KPCL	JOG HPS	2	13.20		1949	
	Karnataka	State Sector	KPCL	JOG HPS	3	13.20		1949	
	Karnataka	State Sector	KPCL	JOG HPS	4	13.20		1950	
	Karnataka	State Sector	KPCL	JOG HPS	5	21.60		1952	
	Karnataka	State Sector	KPCL	JOG HPS	6	21.60		1952	
	Karnataka	State Sector	KPCL	JOG HPS	7	21.60		1952	
	Karnataka	State Sector	KPCL	JOG HPS	8	21.60		1952	
113	Karnataka	State Sector	KPCL	MUNIRABAD HPS	1	9.00		1962	
	Karnataka	State Sector	KPCL	MUNIRABAD HPS	2	9.00		1962	
	Karnataka	State Sector	KPCL	MUNIRABAD HPS	3	10.00		1965	
114	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	1	3.00		1922	
	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	2	3.00		1924	
	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	3	3.00		1924	
	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	4	3.00		1925	
	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	5	3.00		1923	
	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	6	3.00		1924	
	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	7	6.00		1928	
	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	8	6.00		1934	
	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	9	6.00		1928	
	Karnataka	State Sector	KPCL	SIVASAMUNDRUM HPS	10	6.00		1928	
115	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	1	15.00		2004	
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	2	55.00		2004	
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	3	55.00		2005	
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	4	55.00		2004	
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	5	55.00		2005	
	Karnataka	State Sector	KPCL	ALMATTI DPH HPS	6	55.00		2005	

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Appendix-B

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
116	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	1	16.00	1992	
	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	2	16.00	1992	
117	Karnataka	State Sector	KPCL	KADRA HPS	1	50.00	1997	
	Karnataka	State Sector	KPCL	KADRA HPS	2	50.00	1999	
	Karnataka	State Sector	KPCL	KADRA HPS	3	50.00	1999	
118	Karnataka	State Sector	KPCL	KALINADI HPS	1	135.00	1979	
	Karnataka	State Sector	KPCL	KALINADI HPS	2	135.00	1980	
	Karnataka	State Sector	KPCL	KALINADI HPS	3	135.00	1981	
	Karnataka	State Sector	KPCL	KALINADI HPS	4	150.00	1982	
	Karnataka	State Sector	KPCL	KALINADI HPS	5	150.00	1983	
	Karnataka	State Sector	KPCL	KALINADI HPS	6	150.00	1984	
119	Karnataka	State Sector	KPCL	KODASALI HPS	1	40.00	1998	
	Karnataka	State Sector	KPCL	KODASALI HPS	2	40.00	1999	
	Karnataka	State Sector	KPCL	KODASALI HPS	3	40.00	1999	
120	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	1	27.50	1979	
	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	2	27.50	1980	
121	Karnataka	State Sector	KPCL	SHARAVATHI HPS	1	103.50	1965	
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	2	103.50	1965	
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	3	103.50	1967	
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	4	103.50	1967	
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	5	103.50	1968	
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	6	103.50	1968	
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	7	103.50	1968	
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	8	103.50	1971	
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	9	103.50	1976	
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	10	103.50	1977	
	122	Karnataka	State Sector	KPCL	GERUSUPPA HPS	1	60.00	2001
Karnataka		State Sector	KPCL	GERUSUPPA HPS	2	60.00	2001	
Karnataka		State Sector	KPCL	GERUSUPPA HPS	3	60.00	2001	
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	4	60.00	2002	

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## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
123	Karnataka	State Sector	KPCL	BHADRA HPS	1	2.00		1962
	Karnataka	State Sector	KPCL	BHADRA HPS	2	12.00		1963
	Karnataka	State Sector	KPCL	BHADRA HPS	3	12.00		1963
124	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	1	50.00		1985
	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	2	50.00		1985
125	Karnataka	State Sector	KPCL	VARAHI HPS	1	115.00		1989
	Karnataka	State Sector	KPCL	VARAHI HPS	2	115.00		1990
	Karnataka	State Sector	KPCL	VARAHI HPS	3	115.00		2009
	Karnataka	State Sector	KPCL	VARAHI HPS	4	115.00		2009
126	Karnataka	State Sector	APGENCO	T B DAM HPS	1	9.00		1957
	Karnataka	State Sector	APGENCO	T B DAM HPS	2	9.00		1957
	Karnataka	State Sector	APGENCO	T B DAM HPS	3	9.00		1964
	Karnataka	State Sector	APGENCO	T B DAM HPS	4	9.00		1964
127	Karnataka	State Sector	APGENCO	HAMPI HPS	1	9.00		1958
	Karnataka	State Sector	APGENCO	HAMPI HPS	2	9.00		1958
	Karnataka	State Sector	APGENCO	HAMPI HPS	3	9.00		1964
	Karnataka	State Sector	APGENCO	HAMPI HPS	4	9.00		1964
				<b>Total (Karnataka)</b>		<b>3644.20</b>		
128	Kerala	State Sector	KSEB	IDAMALAYAR HPS	1	37.50		1987
	Kerala	State Sector	KSEB	IDAMALAYAR HPS	2	37.50		1987
129	Kerala	State Sector	KSEB	IDUKKI HPS	1	130.00		1976
	Kerala	State Sector	KSEB	IDUKKI HPS	2	130.00		1976
	Kerala	State Sector	KSEB	IDUKKI HPS	3	130.00		1976
	Kerala	State Sector	KSEB	IDUKKI HPS	4	130.00		1985
	Kerala	State Sector	KSEB	IDUKKI HPS	5	130.00		1986
	Kerala	State Sector	KSEB	IDUKKI HPS	6	130.00		1986
130	Kerala	State Sector	KSEB	KAKKAD HPS	1	25.00		1999
	Kerala	State Sector	KSEB	KAKKAD HPS	2	25.00		1999
131	Kerala	State Sector	KSEB	KUTTIYADI HPS	1	25.00		1972
	Kerala	State Sector	KSEB	KUTTIYADI HPS	2	25.00		1972

## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Kerala	State Sector	KSEB	KUTTIYADI HPS	3	25.00		1972
132	Kerala	State Sector	KSEB	KUTTIYADI EXTN. HPS.	4	50.00		2001
133	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	1	50.00		2010
	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	2	50.00		2010
134	Kerala	State Sector	KSEB	LOWER PERIYAR HPS	1	60.00		1997
	Kerala	State Sector	KSEB	LOWER PERIYAR HPS	2	60.00		1997
	Kerala	State Sector	KSEB	LOWER PERIYAR HPS	3	60.00		1997
135	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	1	15.00		1961
	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	2	15.00		1961
	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	3	15.00		1963
136	Kerala	State Sector	KSEB	PALLIVASAL HPS	1	5.00		1940
	Kerala	State Sector	KSEB	PALLIVASAL HPS	2	5.00		1941
	Kerala	State Sector	KSEB	PALLIVASAL HPS	3	5.00		1942
	Kerala	State Sector	KSEB	PALLIVASAL HPS	4	7.50		1948
	Kerala	State Sector	KSEB	PALLIVASAL HPS	5	7.50		1949
137	Kerala	State Sector	KSEB	PALLIVASAL HPS	6	7.50		1951
	Kerala	State Sector	KSEB	PANNIAR HPS	1	15.00		1963
	Kerala	State Sector	KSEB	PANNIAR HPS	2	15.00		1964
138	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	1	8.00		1957
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	2	8.00		1958
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	3	8.00		1959
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	4	8.00		1960
139	Kerala	State Sector	KSEB	SABARIGIRI HPS	1	50.00		1966
	Kerala	State Sector	KSEB	SABARIGIRI HPS	2	50.00		1966
	Kerala	State Sector	KSEB	SABARIGIRI HPS	3	50.00		1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	4	50.00		1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	5	50.00		1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	6	50.00		1967
140	Kerala	State Sector	KSEB	SENGULAM HPS	1	12.00		1954
	Kerala	State Sector	KSEB	SENGULAM HPS	2	12.00		1954



## Appendix-B

## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.	
						MM	MW		
	Kerala	State Sector	KSEB	SENGULAM HPS	3	12.00	12.00	1954	
	Kerala	State Sector	KSEB	SENGULAM HPS	4	12.00	12.00	1955	
141	Kerala	State Sector	KSEB	SHOLAYAR HPS	1	18.00	18.00	1966	
	Kerala	State Sector	KSEB	SHOLAYAR HPS	2	18.00	18.00	1968	
	Kerala	State Sector	KSEB	SHOLAYAR HPS	3	18.00	18.00	1968	
	<b>Total (Kerala)</b>						<b>1856.50</b>		
142	Tamil Nadu	State Sector	TANGEDCO	ALIVAR HPS	1	60.00	60.00	1970	
143	Tamil Nadu	State Sector	TANGEDCO	BHAWANI KATTAL HPS	1	15.00	15.00	2006	
	Tamil Nadu	State Sector	TANGEDCO	BHAWANI KATTAL HPS	2	15.00	15.00	2006	
144	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE II HPS	1	15.00	15.00	2013	
	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE II HPS	2	15.00	15.00	2013	
145	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE III HPS	1	15.00	15.00	2012	
	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE III HPS	2	15.00	15.00	2013	
146	Tamil Nadu	State Sector	TANGEDCO	KADAMPARI HPS	1	100.00	100.00	1987	
	Tamil Nadu	State Sector	TANGEDCO	KADAMPARI HPS	2	100.00	100.00	1988	
	Tamil Nadu	State Sector	TANGEDCO	KADAMPARI HPS	3	100.00	100.00	1988	
	Tamil Nadu	State Sector	TANGEDCO	KADAMPARI HPS	4	100.00	100.00	1988	
147	Tamil Nadu	State Sector	TANGEDCO	KODAYAR-I HPS.	1	60.00	60.00	1970	
148	Tamil Nadu	State Sector	TANGEDCO	KODAYAR-II HPS.	2	40.00	40.00	1971	
149	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-I HPS.	1	20.00	20.00	1960	
	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-I HPS.	2	20.00	20.00	1960	
	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-I HPS.	3	20.00	20.00	1964	
	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-II HPS.	4	35.00	35.00	1960	
150	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-II HPS.	5	35.00	35.00	1961	
	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-II HPS.	6	35.00	35.00	1961	
	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-II HPS.	7	35.00	35.00	1961	
	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-II HPS.	8	35.00	35.00	1964	
151	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-III HPS.	9	60.00	60.00	1965	
	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-III HPS.	10	60.00	60.00	1964	
	Tamil Nadu	State Sector	TANGEDCO	KUNDAH-III HPS.	11	60.00	60.00	1978	

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
152	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-IV HPS.	12	50.00	1966	
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-IV HPS.	13	50.00	1978	
153	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-V HPS.	14	20.00	1964	
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-V HPS.	15	20.00	1988	
154	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-I HPS.	1	15.00	1988	
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-I HPS.	2	15.00	1988	
155	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-II HPS.	3	15.00	1988	
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-II HPS.	4	15.00	1988	
156	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	5	15.00	1988	
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	6	15.00	1987	
157	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-IV HPS.	7	15.00	1989	
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-IV HPS.	8	15.00	1988	
158	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	1	12.50	1937	
	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	2	12.50	1937	
	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	3	12.50	1938	
	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	4	12.50	1946	
159	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	1	50.00	1965	
	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	2	50.00	1966	
	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	3	50.00	1966	
	Tamil Nadu	State Sector	TENGEDCO	METTUR TUNNEL HPS	4	50.00	1966	
160	Tamil Nadu	State Sector	TENGEDCO	MOYAR HPS	1	12.00	1952	
	Tamil Nadu	State Sector	TENGEDCO	MOYAR HPS	2	12.00	1952	
	Tamil Nadu	State Sector	TENGEDCO	MOYAR HPS	3	12.00	1953	
161	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	1	8.00	1944	
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	2	8.00	1944	
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	3	8.00	1945	
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	4	8.00	1951	
162	Tamil Nadu	State Sector	TENGEDCO	PARSON'S VALLEY HPS	1	30.00	2000	
163	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	1	42.00	1958	
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	2	42.00	1959	

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## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	3	42.00		1959
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	4	35.00		1965
164	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	1	7.00		1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	2	7.00		1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	3	7.00		1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	4	13.60		1954
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	5	13.60		1954
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	6	11.00		1939
165	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	1	50.00		2005
	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	2	50.00		2005
	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	3	50.00		2005
166	Tamil Nadu	State Sector	TENGEDCO	SARKARPATHY HPS	1	30.00		1966
167	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	1	35.00		1971
	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	2	35.00		1971
168	Tamil Nadu	State Sector	TENGEDCO	SURULIYAR HPS	1	35.00		1978
<b>Total (Tamil Nadu)</b>						<b>2178.20</b>		
<b>Southern Region Total</b>						<b>11694.50</b>		
<b>4. Eastern Region</b>								
169	Jharkhand	State Sector	JUJUL	SUBERNREKHA-I HPS.	1	65.00		1977
170	Jharkhand	State Sector	JUJUL	SUBERNREKHA-II HPS.	2	65.00		1980
<b>Total (Jharkhand)</b>						<b>130.00</b>		
171	Odisha	State Sector	OHPC	BALIMELA HPS	1	60.00		1973
	Odisha	State Sector	OHPC	BALIMELA HPS	2	60.00		1974
	Odisha	State Sector	OHPC	BALIMELA HPS	3	60.00		1974
	Odisha	State Sector	OHPC	BALIMELA HPS	4	60.00		1975
	Odisha	State Sector	OHPC	BALIMELA HPS	5	60.00		1976
	Odisha	State Sector	OHPC	BALIMELA HPS	6	60.00		1970
	Odisha	State Sector	OHPC	BALIMELA HPS	7	75.00		2008
	Odisha	State Sector	OHPC	BALIMELA HPS	8	75.00		2008
172	Odisha	State Sector	OHPC	HIRAKUD HPS	1	32.00		1956

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Odisha	State Sector	OHPC	HIRAKUD HPS	2		32.00	1957
	Odisha	State Sector	OHPC	HIRAKUD HPS	3		37.50	1956
	Odisha	State Sector	OHPC	HIRAKUD HPS	4		37.50	1957
	Odisha	State Sector	OHPC	HIRAKUD HPS	5		49.50	1962
	Odisha	State Sector	OHPC	HIRAKUD HPS	6		49.50	1963
	Odisha	State Sector	OHPC	HIRAKUD HPS	7		37.50	1990
173	Odisha	State Sector	OHPC	CHIPLIMA HPS	1		24.00	1962
	Odisha	State Sector	OHPC	CHIPLIMA HPS	2		24.00	1962
	Odisha	State Sector	OHPC	CHIPLIMA HPS	3		24.00	1964
174	Odisha	State Sector	OHPC	RENGALI HPS	1		50.00	1985
	Odisha	State Sector	OHPC	RENGALI HPS	2		50.00	1986
	Odisha	State Sector	OHPC	RENGALI HPS	3		50.00	1989
	Odisha	State Sector	OHPC	RENGALI HPS	4		50.00	1990
	Odisha	State Sector	OHPC	RENGALI HPS	5		50.00	1992
175	Odisha	State Sector	OHPC	UPPER INDRAVATHI HPS	1		150.00	1999
	Odisha	State Sector	OHPC	UPPER INDRAVATHI HPS	2		150.00	1999
	Odisha	State Sector	OHPC	UPPER INDRAVATHI HPS	3		150.00	2000
	Odisha	State Sector	OHPC	UPPER INDRAVATHI HPS	4		150.00	2001
176	Odisha	State Sector	OHPC	UPPER KOLAB HPS	1		80.00	1988
	Odisha	State Sector	OHPC	UPPER KOLAB HPS	2		80.00	1989
	Odisha	State Sector	OHPC	UPPER KOLAB HPS	3		80.00	1990
	Odisha	State Sector	OHPC	UPPER KOLAB HPS	4		80.00	1993
177	Odisha	State Sector	APGENCO	MACHKUND HPS	1		21.25	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	2		21.25	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	3		21.25	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	4		17.00	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	5		17.00	1959
	Odisha	State Sector	APGENCO	MACHKUND HPS	6		17.00	1959
							<b>2142.25</b>	
178	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	1		9.00	1967

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## LIST OF HYDRO POWER STATIONS AS ON 31.03.2020

Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	2	9.00		1967
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	3	9.00		1972
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	4	9.00		2012
179	West Bengal	State Sector	WBPDCL	RAMMAM HPS	1	12.50		1995
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	2	12.50		1995
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	3	12.50		1996
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	4	12.50		1996
180	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	1	225.00		2007
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	2	225.00		2007
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	3	225.00		2007
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	4	225.00		2007
<b>Total (West Bengal)</b>						<b>986.00</b>		
181	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	1	200.00		2017
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	2	200.00		2017
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	3	200.00		2017
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	4	200.00		2017
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	5	200.00		2017
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	6	200.00		2017
182	Sikkim	Private Sector	GATI INFRASTRUCTURE LTD.	CHUZACHEN HPS	1	55.00		2013
	Sikkim	Private Sector	GATI INFRASTRUCTURE LTD.	CHUZACHEN HPS	2	55.00		2013
183	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETHANG LOOP HPS	1	48.00		2015
	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETHANG LOOP HPS	2	48.00		2015
184	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	1	48.50		2017
	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	2	48.50		2017
185	Sikkim	Private Sector	Sneha Kinetics Projects Ltd	DIKCHU HPS	1	48.00		2017
	Sikkim	Private Sector	Sneha Kinetics Projects Ltd	DIKCHU HPS	2	48.00		2017
<b>Total (Sikkim)</b>						<b>1599.00</b>		
186	Jharkhand	Central Sector	DVC	MAITHON HPS	1	20.00		1958
	Jharkhand	Central Sector	DVC	MAITHON HPS	2	20.00		1958
	Jharkhand	Central Sector	DVC	MAITHON HPS	3	23.20		1957



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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
187	Jharkhand	Central Sector	DVC	PANCHET HPS	1	40.00		1959
	Jharkhand	Central Sector	DVC	PANCHET HPS	2	40.00		1990
188	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	1	33.00		2013
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	2	33.00		2013
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	3	33.00		2013
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-III HPS	4	33.00		2013
189	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	1	40.00		2016
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	2	40.00		2016
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	3	40.00		2016
	West Bengal	Central Sector	NHPC	TEESTA LOW DAM-IV HPS	4	40.00		2016
190	Sikkim	Central Sector	NHPC	RANGIT HPS	1	20.00		2000
	Sikkim	Central Sector	NHPC	RANGIT HPS	2	20.00		2000
	Sikkim	Central Sector	NHPC	RANGIT HPS	3	20.00		2000
191	Sikkim	Central Sector	NHPC	TEESTA V HPS	1	170.00		2008
	Sikkim	Central Sector	NHPC	TEESTA V HPS	2	170.00		2008
	Sikkim	Central Sector	NHPC	TEESTA V HPS	3	170.00		2008
<b>Total (DVC)</b>						<b>143.20</b>		
<b>Total (NHPC)</b>						<b>862.00</b>		
<b>Total Central Sector (DVC+NHPC) (Eastern Region)</b>						<b>1005.20</b>		
<b>Eastern Region Total</b>						<b>5862.45</b>		
<b>5. North Eastern Region</b>								
192	Assam	State Sector	APGCL	KARBI LANGPI HPS	1	50.00		2007
	Assam	State Sector	APGCL	KARBI LANGPI HPS	2	50.00		2007
<b>Total (Assam)</b>						<b>100.00</b>		
193	Meghalaya	State Sector	MeECL	KYRDEMKULAI HPS	1	30.00		1979
	Meghalaya	State Sector	MeECL	KYRDEMKULAI HPS	2	30.00		1979
194	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	1	9.00		1965
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	2	9.00		1965
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	3	9.00		1965
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	4	9.00		1965

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Sl. No.	Region /State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
195	Meghalaya	State Sector	MeECL	UMIAM HPS ST-IV	1	30.00		1992
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-IV	2	30.00		1992
196	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	1	42.00		2011
	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	2	42.00		2012
	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	3	42.00		2013
197	Meghalaya	State Sector	MeECL	NEW UMITRU HPS	1	20.00		2017
	Meghalaya	State Sector	MeECL	NEW UMITRU HPS	2	20.00		2017
				<b>Total (Meghalaya)</b>		<b>322.00</b>		
198	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	1	135.00		2002
	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	2	135.00		2002
	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	3	135.00		2002
199	Arunachal Pradesh	Central Sector	NEEPCO	PARE HPS	1	55.00		2018
	Arunachal Pradesh	Central Sector	NEEPCO	PARE HPS	2	55.00		2018
200	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	1	150.00		2020
	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	2	150.00		2020
201	Assam	Central Sector	NEEPCO	KOPIJU HPS	1	50.00		1988
	Assam	Central Sector	NEEPCO	KOPIJU HPS	2	50.00		1988
	Assam	Central Sector	NEEPCO	KOPIJU HPS	3	50.00		1997
	Assam	Central Sector	NEEPCO	KOPIJU HPS	4	50.00		1997
202	Assam	Central Sector	NEEPCO	KHONDONG HPS	1	25.00		1984
	Assam	Central Sector	NEEPCO	KHONDONG HPS	2	25.00		1984
203	Manipur	Central Sector	NHPC	LOKTAK HPS	1	35.00		1983
	Manipur	Central Sector	NHPC	LOKTAK HPS	2	35.00		1983
	Manipur	Central Sector	NHPC	LOKTAK HPS	3	35.00		1983
204	Mizoram	Central Sector	NEEPCO	TUIRIAL HPS	1	30.00		2017
	Mizoram	Central Sector	NEEPCO	TUIRIAL HPS	2	30.00		2017
205	Nagaland	Central Sector	NEEPCO	DOYANG HPS.	1	25.00		2000
	Nagaland	Central Sector	NEEPCO	DOYANG HPS.	2	25.00		2000
	Nagaland	Central Sector	NEEPCO	DOYANG HPS.	3	25.00		2000
				<b>Total Central Sector (North Eastern Region)</b>		<b>1305.00</b>		
				<b>North Eastern Region Total</b>		<b>1727.00</b>		
				<b>Total All India Hydro</b>		<b>45699.22</b>		

## LIST OF NUCLEAR POWER STATIONS AS ON 31.03.2020

Appendix-C

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







# Central Electricity Authority

Power Data Management Division

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