



# अखिल भारतीय विद्युत सांख्यिकी All India Electricity Statistics

## सामान्य पुनर्विलोकन 2022

(2020-21 के आंकड़े समाविष्ट)

### General Review 2022 (Containing Data for the Year 2020-21)

भारत सरकार  
विद्युत मंत्रालय  
केंद्रीय विद्युत प्राधिकरण  
नई दिल्ली  
मई 2022

Government of India  
Ministry of Power  
Central Electricity Authority  
New Delhi  
May 2022

(अधिनियम 2003 की धारा 73 (आई) एवं (जे) के तहत के. वि. प्रा. के दायित्व के पालन हेतु प्रकाशित)  
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बृजेश कुमार आर्य  
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 सांचिकी – सामान्य पुनर्विलोकन’ का प्रकाशन इस दिशा में एक कदम है। यह प्रकाशन वर्ष 2020-21 के आंकड़ों पर आधारित है।

“अखिल भारतीय विद्युत सांचिकी – सामान्य पुनर्विलोकन” के लिए आंकड़े भारतीय विद्युत क्षेत्र के विभिन्न संगठनों से संग्रहित किये गये हैं। उपलब्ध आंकड़ों के अनुसार, वर्ष 2020-21 के दौरान विद्युत उत्पादन क्षमता पिछले वर्ष की तुलना में 3.21 % बढ़ी है। इस वर्ष कुल विद्युत ऊर्जा उत्पादन, जिसमें कैप्टिव प्लांट भी शामिल हैं, पिछले वर्ष की तुलना में -1.54 % घटा है। वर्ष 2020-21 के दौरान, देश में कुल स्थापित विद्युत उत्पादन क्षमता में, अक्षय ऊर्जा स्रोतों (यूटिलिटि और गैर यूटिलिटि) (25 मेगावाट से अधिक जल विद्युत को छोड़कर) की स्थापित क्षमता की हिस्सेदारी 21.74 % रही, और इन स्रोतों से उत्पादन की हिस्सेदारी, कुल विद्युत उत्पादन में 9.66 % रही।

मैं उन सभी यूटिलिटियों /संगठनों के सहयोग के लिए, उनके प्रति आभार प्रकट करता हूँ, जिन्होंने समय पर अपेक्षित सूचना प्रस्तुत करके इस प्रकाशन को सम्भव बनाया।

मुझे आशा है कि “अखिल भारतीय विद्युत सांचिकी सामान्य पुनर्विलोकन 2022” भारत के, विद्युत क्षेत्र के विकास में शामिल सभी अंशदायकों की अपेक्षाओं को पूरी करेगा।

(बृजेश कुमार आर्य)

मई, 2022



**Brijesh Kumar Arya  
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 2022” is a step in this direction, which is based on data for the year 2020-21.

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 2020-21 has increased by 3.21 % over the previous year and the total electricity generated in the country including that from captive plants during the year 2020-21 has registered a decline of -1.54 % over the previous year. The share of renewable energy resources (Utilities and non-utilities) (excluding Hydro above 25MW) in total installed capacity was 21.74 % and the share of generation from these sources in total generation was 9.66 % in the country during the year 2020-21.

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 2022” will fulfill the expectations of all stakeholders who are involved in the development of electricity sector in India.

**(BRIJESH KUMAR ARYA)**

**May, 2022**



**बालन अलगरसामी  
सदस्य (योजना)  
केंद्रीय विद्युत प्राधिकरण**

## **प्रस्तावना**

हाल ही में भारतीय विद्युत क्षेत्र ने काफी सकारात्मक विकास किया है लेकिन अभी इस क्षेत्र को आत्मनिर्भर बनाने 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-परोषण 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 हक्कदार 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, कैप्टिव 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 कैप्टिव 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 2020-21 के पूर्ण आंकड़े/सूचना का अभाव होना एक प्रमुख बाधा है और ऐसे मामलों में वर्ष 2019-20 के आंकड़ों की ही पुनरावृत्ति की गई है अथवा इन्हीं से अनुमान लगाया गया है।

“अखिल भारतीय विद्युत सांख्यिकी सामान्य पुनर्विलोकन-2022” में शामिल मार्च, 2021 तक प्राप्त आंकड़ों/सूचना के आधार पर वर्ष 2020-21 के आंकड़ों का संकलन किया गया है। मुझे विश्वास है कि इस प्रकाशन में निहित सूचना भारत के विद्युत क्षेत्र से जुड़े सभी तोगों 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।

मई, 2022

**(बालन अलगरसामी)**



**Balan Alagarsamy**  
**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 Distribution utilities. 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 2020-21 is a major constraint and in such cases the data for the year 2019-20 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 2022" containing data for 2020-21 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.

May, 2022

**(BALAN ALAGARSAMY)**



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

## आभार

इस प्रकाशन “अखिल भारतीय विद्युत सांचियकी सामान्य पुनर्विलोकन-2022” में विभिन्न क्षेत्रों/ श्रेणियों द्वारा विद्युत के उत्पादन, पारेषण, संवितरण और खपत से संबंधित देशव्यापी आंकड़े अंतर्निहित हैं। इस प्रकाशन के लिए आंकड़े सरकारी और निजी दोनों क्षेत्रों में विद्युत क्षेत्र की यूटिलिटियों, विद्युत विभाग और भारत की गैर-यूटिलिटियों और विशिष्ट श्रेणी के उपभोक्ताओं से एकत्रित किए गए हैं। विश्वसनीय आंकड़ों की उपलब्धता विद्युत के विभिन्न क्षेत्रों में निर्णय करने को सुगम बनाने के लिए विभिन्न संकेतकों को तैयार करने के लिए एक महत्वपूर्ण इनपुट है। संगठनों की बड़ी संख्या के कारण आंकड़ा संग्रहण का कार्य निश्चय ही बहुत जटिल हो गया है। योजनाओं और नीति निर्माण में पारस्परिक लाभ के लिए सभी प्रकार के आंकड़ों के प्रबन्धन के कार्य राज्यों में एक केंद्रीय आंकड़ा पूलिंग और प्रकाशन संगठन के होने से यह संकलन भली-भांति किया जा सकेगा।

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

पी.डी.एम. प्रभाग के अधिकारियों ने इस प्रकाशन के आंकड़ों के संकलन के लिए अपनी निरंतर निगरानी के माध्यम से असाधारण प्रयास किया है। श्री अंजुम परवेज, निदेशक; श्रीमती किरण मीणा, उप निदेशक; श्री अक्षय सिंह, उप निदेशक; पवन कुमार गुप्ता, उप निदेशक एवं श्री लोकेन्द्र मीणा द्वारा दिए गए योगदान के लिए मैं उनका आभार प्रकट करता हूँ। इस प्रकाशन को जारी किए जाने में श्री आर.आर. शर्मा, वरिष्ठ सांचियकी 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।

(प्रहलाद)



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

## ACKNOWLEDGEMENT

This publication “All India Electricity Statistics- General Review 2022” 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 Anzum Parwej, Director; Ms. Kiran Meena, Deputy Director; Shri Akshay Singh, Deputy Director, Shri Pawan Kumar Gupta, Deputy Director and Shri Lokendra Meena, Assistant 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.

**May, 2022**

**(PRAHLAD)**

## GLOSSARY

### Containing Definitions, Expansion of Abbreviations

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

NPCIL	Nuclear Power Corporation of India Limited
NR	Northern Region
NTPC	National Thermal Power Corporation Limited
OH	Over Head
OHPCL	Orissa Hydro Power Corporation Limited
OP	Off Peak
OPGCL	Orissa Power Generation Corporation Limited
OPTCL	Orissa Power Transmission Corporation Limited
P	Peak
PDC	Power Development Corporation
PPCL	Pragati Power Corporation Limited
PTCUL	Power Transmission Corporation of Uttarakhand Limited
R	Repeated
RES	Renewable Energy Sources (Includes Electric Generation due to (a) Wind (b) Bio-Mass Power (c) Solar Power (d) Urban & Industrial Wastes & (e) Small Hydro Power Projects of capacity less than or equal to 25 MW.
RRVUNL	Rajasthan Rajya Vidyut Utpadan Nigam Limited
RTC	Round the Clock
RVPNL	Rajasthan Rajya Vidyut Prasaran Nigam Limited
SEB	State Electricity Board
SJVNL	Satluj Jal Vidyut Nigam Limited
SR	Southern Region
SSNNL	Sardar Sarovar Narmada Nigam Limited
STPS	Super Thermal Power Station
THDCIL	Tehri Hydro Development Corporation of India Ltd.
UG	Under Ground
Utg.	Undertaking
UJVNL	Uttaranchal Jal Vidyut Nigam Limited
UN	United Nations
UPCL	Uttarakhand Power Corporation Limited
UPJVUNL	Uttar Pradesh Jal Vidyut Utpadan Nigam Limited
UPPCL	Uttar Pradesh Power Corporation Limited
UPRVUNL	Uttar Pradesh Rajya Vidyut Utpadan Nigam Limited
UT	Union Territory
UTILITIES	Utility means the electric lines or electrical plant, and includes all lands, buildings, works & materials attached thereto belonging to any person acting as a generating company or licensee under the provisions of the Electricity Act,2003.
VVNL	Vishwesharaiah Vidyut Nigam Limited
WBPDCL	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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# 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, 2021 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 2021, the All India installed capacity (excluding captive capacity) has increased to 382151 MW consisting of 46209 MW hydro, 234728 MW thermal, 6780 MW nuclear and 94434 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 2020-21. 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 2020-21 has grown to 78508 MW out of which the contribution of hydro was 131 MW, steam 47760 MW, diesel 17563 MW, gas 7361 MW, and RES 5694 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 1373187 GWh (excluding generation from captive plants) during the year 2020-21 constituting 150300 GWh hydro, 1032611 GWh thermal, 43029 GWh nuclear and 147248 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 2020-21 was 224827 GWh, constituting 339 GWh from hydro, 193143 GWh from steam, 2504 GWh from diesel, 21684 GWh from gas and 7158 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 1230208 GWh during the year 2020-21. 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 41.36%, 26.89% and 17.99% 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 31.03.2021 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 13679477 ckt. kms as on 31st March 2021. Details are given at Table 1.1.

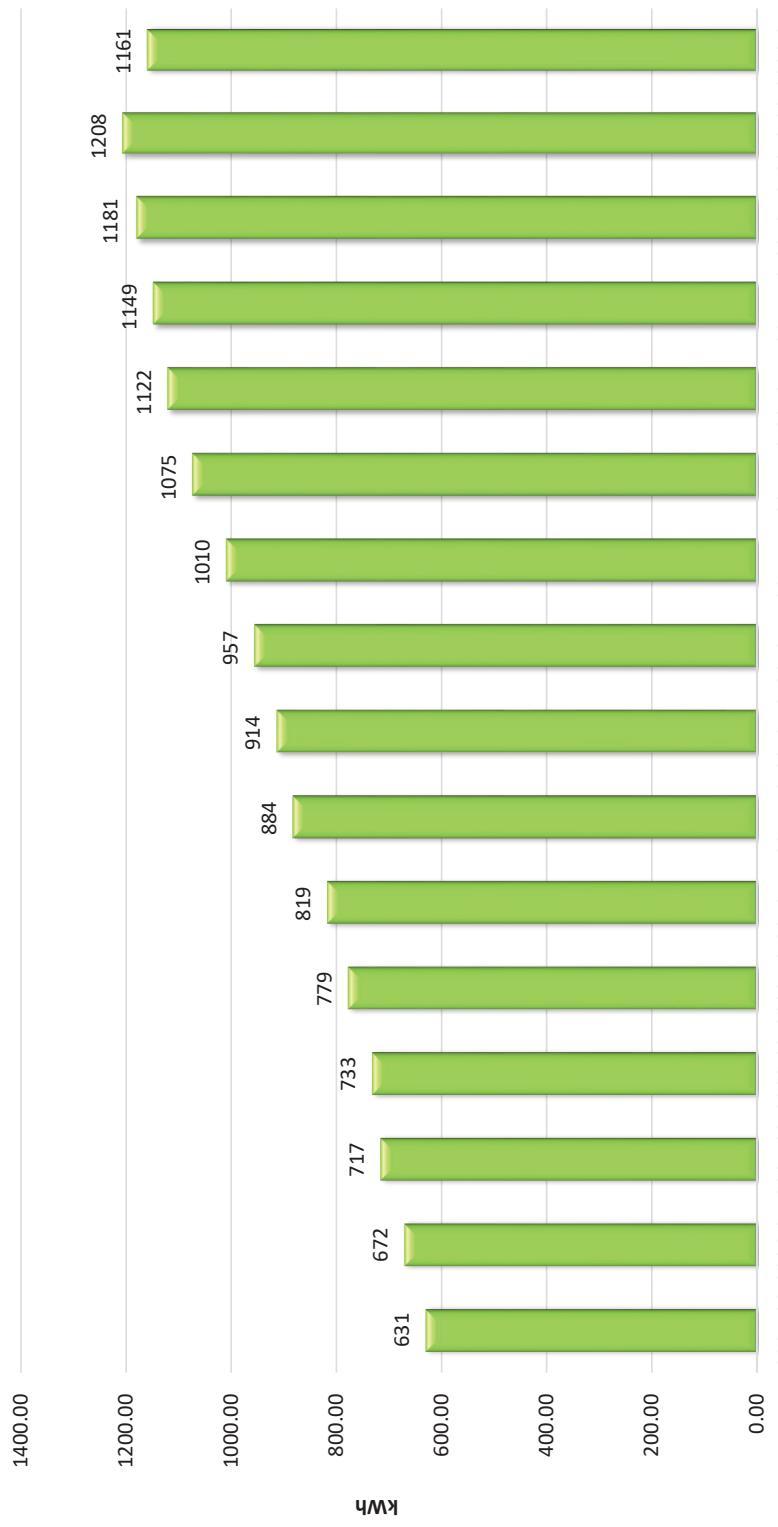
## 6. PER CAPITA ELECTRICITY CONSUMPTION

The per capita electricity consumption which was 18.17 kWh during 1950, has increased to 1161 kWh during the year 2020-21. 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



**TABLE 1.0**  
**OVERVIEW OF ALL INDIA INSTALLED CAPACITY, GENERATION  
AND PER CAPITA CONSUMPTION OF ELECTRICITY 2020-21**

<b>A Installed Capacity as on 31.03.2021</b>								
(MW)								
<b>Sector</b>	<b>Hydro</b>	<b>Thermal</b>				<b>Nuclear</b>	<b>RES</b>	<b>Grand Total</b>
		<b>Steam</b>	<b>Gas</b>	<b>Diesel</b>	<b>Total Thermal</b>			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6 (3+4+5)</b>	<b>7</b>	<b>8</b>	<b>9 (2+6+7+8)</b>
State Sector	27069.50	67081.50	7087.36	236.01	74404.86	0.00	2395.27	103869.64
Central Sector	15646.72	66210.00	7237.91	0.00	73447.91	6780.00	1632.30	97506.93
Private Sector	3493.00	76003.00	10598.74	273.70	86875.45	0.00	90406.21	180774.66
<b>All India Total</b>	<b>46209.22</b>	<b>209294.50</b>	<b>24924.01</b>	<b>509.71</b>	<b>234728.22</b>	<b>6780.00</b>	<b>94433.79</b>	<b>382151.22</b>
(ii) Non-Utilities								78507.97
<b>(iii) Total All India Installed Capacity (Utilities + Non-Utilities)</b>								<b>460659.192</b>
<b>B Generation for 2020-21</b>								
(GWh)								
<b>Sector</b>	<b>Hydro</b>	<b>Thermal</b>				<b>Nuclear</b>	<b>RES</b>	<b>Grand Total</b>
		<b>Steam</b>	<b>Gas</b>	<b>Diesel</b>	<b>Total Thermal</b>			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6 (3+4+5)</b>	<b>7</b>	<b>8</b>	<b>9 (2+6+7+8)</b>
State Sector	75729.63	270132.22	20144.60	186.29	290463.11	0.00	5070.85	371263.59
Central Sector	60623.70	347022.17	16343.62	0.00	363365.79	43029.08	2719.51	469738.08
Private Sector	13946.19	364288.84	14455.78	37.25	378781.87	0.00	139457.14	532185.20
<b>All India Total</b>	<b>150299.52</b>	<b>981443.23</b>	<b>50944.00</b>	<b>223.54</b>	<b>1032610.77</b>	<b>43029.08</b>	<b>147247.51</b>	<b>1373186.88</b>
(ii) Non-Utilities								224827.40
<b>(iii) All India Total Generation (Utilities + Non-Utilities)</b>								<b>1598014.28</b>
(iv) Net Import (+)/Export (-) outside the Country								-25.85
(v) Total Energy available in the Country								1597988.43
C Per Capita Consumption for 2020-21 (KWh)								1161
<b>D Growth</b>								
		<b>2018-19</b>		<b>2019-20</b>		<b>2020-21</b>		
		<b>Value %</b>	<b>Growth</b>	<b>Value %</b>	<b>Growth</b>	<b>Value %</b>	<b>Growth</b>	
<b>1. Installed Capacity (MW)</b>		356100.19	3.52	370106.46	3.93	382151.22	3.25	
<b>2. Generation (GWh)</b>		1371779.48	5.24	1383416.75	0.85	1373186.88	-0.74	
<b>3. Per Capita Consumption (KWh)</b>		1181	2.77	1208	2.30	1161	-3.89	
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 Ca- pacity (MW)	Installed Ca- pacity (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
28	31.03.2021 (End of Annual Plan)	382151	78508	597464	13679477	1161

\*: Estimated

@ : As per revised definition of village electrification and 2001 Census.

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

Sl. No.	As on	HY-DRO	THERMAL (including Steam, Gas & Diesel)	Nuclear	RES	Total
1	31.12.1950	560	1153	0	0	1713(MW)
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
28	31.03.2021 (End of Annual Plan)	46209	234728	6780	94434	382151

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.	During financial year	HYDRO	THERMAL (including Steam, Gas & Diesel)	Nuclear	RES	Total
1	1950	2519	2587	0	0	5106
2	1955-56 (End of 1st Plan)	4295	5367	0	0	9662
3	1960-61(End of 2nd Plan)	7837	9100	0	0	16937
4	1965-66 (End of 3rd Plan)	15225	17765	0	0	32990
5	1968-69(End of 3 Annual Plans)	20723	26711	0	0	47434
6	1973-74 (End of 4th Plan)	28972	35321	2396	0	66689
7	1978-79 (End of 5th Plan)	47159	52594	2770	0	102523
8	1979-80 (End of Annual Plan)	45478	56273	2876	0	104627
9	1984-85 (End of 6th Plan)	53948	98836	4075	0	156859
10	1989-90 (End of 7th Plan)	62116	178690	4625	6	245438
11	1991-92 (End of 2 Annual Plans)	72757	208708	5525	38	287029
12	1996-97 (End of 8th Plan)	68901	317042	9071	876	395889
13	2001-02 (End of 9th Plan)	73580	422300	19475	2085	517439
14	2006-07 (End of 10th Plan)	113502	528490	18802	9860	670654
15	2007-08 (1st year of 11th Plan)	120877	560072	16957	25210	723116
16	2008-09 (2nd year of 11th Plan)	110098	588282	14927	27860	741167
17	2009-10 (3rd year of 11th Plan)	104059	640208	18636	36947	799850
18	2010-11 (4th year of 11th Plan)	114415	664822	26266	39245	844748
19	2011-12 (End of 11th Plan)	130511	708427	32287	51226	922451
20	2012-13 (1st year of 12th Plan)	113720	760454	32866	57449	964489
21	2013-14(2nd year of 12th Plan)	134847	792054	34228	65520	1026649
22	2014-15 (3rd year of 12th Plan)	129244	877941	36102	61785	1105072
23	2015-16 (4th year of 11th Plan)	121377	943013	37413	65781	1167584
24	2016-17 (End of 12th Plan)	122378	993516	37916	81548	1235358
25	2017-18 (End of Annual Plan)	126123	1037146	38346	101839	1303455
26	2018-19 (End of Annual Plan)	134894	1072314	37813	126759	1371779
27	2019-20 (End of Annual Plan)	155769	1042838	46472	138337	1383417
28	2020-21(End of Annual Plan)	150300	1032611	43029	147248	1373187

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

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

(GWh)

Sl. No.	During financial year	Domestic	Commercial	Industrial	Traction	Agriculture	Others	Total
1	1950	525	309	4057	308	162	249	5610
2	1955-56 (End of 1st Plan)	934	546	7514	405	316	435	10150
3	1960-61 (End of 2nd Plan)	1492	848	12547	454	833	630	16804
4	1965-66 (End of 3rd Plan)	2355	1650	22596	1057	1892	905	30455
5	1968-69 (End of 3 Annual Plans)	3184	2126	29931	1247	3465	1439	41392
6	1973-74 (End of 4th Plan)	4645	2988	37791	1531	6310	2292	55557
7	1978-79 (End of 5th Plan)	7576	4330	54440	2186	12028	3445	84005
8	1979-80 (End of Annual Plan)	8402	4657	53206	2301	13452	3316	85334
9	1984-85 (End of 6th Plan)	15506	6937	73520	2880	20961	4765	124569
10	1989-90 (End of 7th Plan)	29577	9548	100373	4070	44056	7474	195098
11	1991-92 (End of 2 Annual Plans)	35854	12032	110844	4520	58557	9394	231201
12	1996-97 (End of 8th Plan)	55267	17519	139253	6594	84019	12642	315294
13	2001-02 (End of 9th Plan)	79694	24139	159507	8106	81673	21551	374670
14	2002-03 (1st year of 10th Plan)	83355	25437	168821	8797	84486	22564	393460
15	2003-04 (2nd year of 10th Plan)	89736	28201	181970	9210	87089	22128	418334
16	2004-05 (3rd year of 10th Plan)	95659	31381	199448	9495	88555	23455	447993
17	2005-06 (4th year of 10th Plan)	100090	35965	214121	9943	90292	24040	474451
18	2006-07 (End of 10th Plan)	111002	40220	241216	10800	99023	23411	525672
19	2007-08 (1st year of 11th Plan)	120918	46685	265407	11108	104182	29660	577960
20	2008-09 (2nd year of 11th Plan)	130495	54199	281663	11813	107767	28590	614527
21	2009-10 (3rd year of 11th Plan)	141845	58971	297621	12390	119492	27712	658031
22	2010-11 (4th year of 11th Plan)	155301	63912	225019	13323	126377	33037	616969
23	2011-12 (End of 11th Plan)	171104	65381	352291	14206	140960	41252	785195
24	2012-13 (1st year of 12th Plan)	183700	72794	365989	14100	147462	40256	824301
25	2013-14 (2nd year of 12th Plan)	199842	74247	384418	15540	152744	47418	874209
26	2014-15 (3rd year of 12th Plan)	217405	78391	418346	16177	168913	49290	948522
27	2015-16 (4th year of 12th Plan)	238876	86037	423523	16594	173185	62976	1001191
28	2016-17 (5th year of 12th Plan)	255826	89825	440206	15683	191151	68493	1061183
29	2017-18 (Annual Plan)	273545	93755	468613	17433	199247	70834	1123427
30	2018-19 (Annual Plan)	288243	98228	519196	18837	213409	72058	1209972
31	2019-20 (Annual Plan)	308745	106047	532820	19148	211295	70031	1248086
32	2020-21 (Annual Plan)	330809	86950	508776	14668	221303	67701	1230208
32	Percentage Share (2020-21)	26.89	7.07	41.36	1.19	17.99	5.50	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	31.03.1955* (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	31151.87	NA	31151.87
18	31.03.2011 (End of 4th year of 11th Plan)	56.88	19111.54	9655.25	5053.76	566.69	34444.12	NA	34444.12
19	31.03.2012 (End of 11th Plan)	47.59	22615.39	9955.23	5884.95	872.21	39375.37	NA	39375.37
20	31.03.2013 (End of 1st year of 12th Plan)	66.90	23889.61	11148.14	4497.69	1124.05	40726.39	NA	40726.39
21	31.03.2014 (End of 2nd year of 12th Plan)	63.59	24751.58	11432.35	4751.35	1259.00	42257.87	NA	42257.87
22	31.03.2015 (End of 3rd year of 12th Plan)	65.09	26088.59	12008.89	5193.44	1300.84	44656.85	NA	44656.85
23	31.03.2016 (End of 4th year of 12th Plan)	59.09	28687.59	12346.61	5818.62	1367.58	48279.48	NA	48279.48
24	31.03.2017 (End of 12th Plan)	65.29	30571.95	13349.69	6109.21	1433.06	51529.19	NA	51529.19
25	31.03.2018 (End of Annual Plan)	50.96	32854.41	13144.60	7156.37	1726.17	54932.51	NA	54932.51
26	31.03.2019 (End of Annual Plan)	103.39	47679.04	15570.97	8787.13	3066.59	75207.13	NA	75207.13
27	31.03.2020 (End of Annual Plan)	130.77	51542.77	12774.66	7315.87	4475.29	76239.36	NA	76239.36
28	31.03.2021 (End of Annual Plan)	130.70	47759.52	17562.86	7361.11	5693.78	78507.97	NA	78507.97

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	RAIL WAYS	TOTAL
1	2	3	4	5	6	7	8	9	10
1	1950*						1467.81		1467.81
2	1955-56*						2184.82		2184.82
3	1960-61*						3186.10		3186.10
4	1965-66*						3733.19		3733.19
5	1968-69*						4136.06		4136.06
6	1973-74*						6067.47		6067.47
7	1978-79	13.22	7211.30	299.13	48.97	0.00	7572.62	34.47	7607.09
8	1979-80	15.06	7225.60	825.71	90.67	0.00	8157.04	35.67	8192.71
9	1984-85	18.29	9966.55	2001.18	317.03	0.00	12303.05	42.80	12345.85
10	1989-90	15.83	19110.46	2757.27	1313.29	0.00	23196.85	29.07	23225.92
11	1991-92	17.57	23409.35	3247.81	1905.24	0.00	28579.97	22.52	28602.49
12	1996-97	28.84	29127.94	6573.38	5039.22	45.63	40815.01	25.07	40840.08
13	2000-01	99.85	40256.24	11397.99	7782.34	101.54	59637.96	NA	59637.96
14	2001-02	116.59	41853.85	10719.66	8835.19	155.53	61680.82	NA	61680.82
15	2002-03	90.32	42229.66	11155.33	10198.16	1176.43	63849.90	NA	63849.90
16	2003-04	97.49	39610.29	13403.31	14874.38	187.65	68173.12	NA	68173.12
17	2004-05	112.77	44016.99	12039.86	15052.05	194.95	71416.62	NA	71416.62
18	2005-06	236.47	46264.87	12253.22	14664.72	220.42	73639.70	NA	73639.70
19	2006-07	217.81	56184.04	9974.85	15207.17	215.88	81799.76	NA	81799.76
20	2007-08	202.21	53568.52	10737.96	25584.58	383.43	90476.69	NA	90476.69
21	2008-09	146.01	73626.49	10082.14	15306.09	560.43	99721.16	NA	99721.16
22	2009-10	151.78	77416.34	8217.22	19738.71	609.05	106133.10	NA	106133.10
23	2010-11	148.79	96657.13	7753.53	15435.17	922.29	120916.91	NA	120916.91
24	2011-12	131.28	104862.65	6244.32	21971.57	1178.17	134387.98	NA	134387.98
25	2012-13	118.18	113166.95	8205.22	20768.88	1750.42	144009.65	NA	144009.65
26	2013-14	129.06	118178.44	8866.47	19911.64	1902.62	148988.22	NA	148988.22
27	2014-15	144.69	128401.06	9919.57	21135.25	2656.43	162257.00	NA	162257.00
28	2015-16	110.09	136720.54	8412.16	21083.29	2046.08	168372.16	NA	168372.16
29	2016-17	143.64	137588.31	9181.74	22855.31	2277.02	172046.03	NA	172046.03
30	2017-18	112.48	143867.68	8106.89	25362.17	2328.17	179777.39	NA	179777.39
31	2018-19	270.04	184250.36	5334.32	19545.09	3673.92	213073.73	NA	213073.73
32	2019-20	348.04	205545.78	1919.32	25443.15	6310.47	239566.76	NA	239566.76
33	2020-21	339.12	193142.60	2504.19	21683.55	7157.94	224827.40	NA	224827.40

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	2020-21
Chandigarh	1301	1365	1419	1472	1497	1589	1574	1535	1604	1349
Delhi	23015	23144	23981	24775	25658	26604	28488	29169	29812	26319
Haryana	27614	26258	29083	32197	35092	34501	38215	41017	43382	41944
Himachal Pradesh	6844	7358	7649	7842	7958	7974	8405	9041	9124	8635
Jammu & Kashmir	4267	5163	5754	6372	7144	7902	8395	9633	10623	9984
Punjab	33888	35825	37557	39384	40843	44050	47027	50120	49168	50286
Rajasthan	37904	42160	43151	49920	50359	51027	53618	60151	61942	64888
Uttar Pradesh	50592	55550	59177	64707	70967	81068	90395	91355	94932	93600
Uttarakhand	8253	8574	9597	9980	10298	11162	11210	11543	12021	11225
<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>	<b>308231</b>
Chhattisgarh	13178	14115	14791	17102	18887	19159	20363	22210	22793	23361
Gujarat	57654	63427	66878	73890	77028	85556	90719	95970	92245	92276
Madhay Pradesh	28541	32936	36770	41757	46384	45681	52523	56972	58628	60954
Maharashtra	96642	100285	100842	108496	115356	121051	124921	132619	125645	126423
Daman & Diu	1771	1814	1819	1595	1692	1737	2377	2431	2496	2137
D & N Haveli	4139	4595	5190	5164	5548	5737	5672	6066	6288	5286
Goa	2973	2998	3085	3151	3391	3475	3618	3787	4104	3700
<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>	<b>314138</b>
Andhra Pradesh	70421	68439	72919	41914	44353	47761	51001	55407	57119	51756
Telangana				39639	41289	44446	51198	58366	59365	57896
Karnataka	47456	51439	53716	55166	57223	58152	59236	62405	61131	62783
Kerala	15993	16833	18025	18786	19829	20218	21354	21414	23149	22599
Tamil Nadu	61897	62077	71772	77618	80083	83936	86654	91788	95919	94592
Puducherry	2322	2492	2532	2441	2468	2556	2540	2654	2714	2603
Lakshadweep	34	38	41	45	46	48	49	49	48	53
<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>	<b>292283</b>
Bihar	6184	6721	7980	9807	13250	17251	18713	20856	22709	24108
Jharkhand	15595	17124	18175	16533	17542	19549	19950	21184	21997	21375
Orissa	13054	13552	14411	15440	16053	16988	17714	19373	20716	20610
West Bengal	33903	36320	36592	39059	42497	43946	45478	48290	50482	48394
Sikkim	371	385	405	405	354	437	344	381	411	415
A & N Islands	199	206	216	229	242	266	266	255	269	245
<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>	<b>115147</b>
Arunachal Pradesh	436	471	481	543	375	371	437	447	419	405
Assam	3969	4205	4763	5484	6199	6525	7064	7268	7109	7356
Manipur	325	379	398	465	475	512	564	613	631	651
Meghalaya	1075	1259	1322	1233	1283	972	1064	1105	1259	1326
Mizoram	252	287	303	327	339	354	396	408	486	454
Nagaland	317	328	395	529	549	635	664	679	693	683
Tripura	554	721	722	786	813	895	928	956	914	982
<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>11858</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>	<b>1041656</b>

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

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

## 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 2021, 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 31.03.2021, there were thirty-four (33) Power Trading Companies, one hundred forty-five (145) 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**  
**31.03.2021**

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 Develepelement 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 Corp. 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 Corp. Ltd.	Bhubaneshwar	Odisha
37	Odisha Power Generation Corpn. Ltd.	Bhubaneshwar	Odisha
38	ONGC Tripura Power Company Ltd	New Delhi	Central Sector (JV)
39	Pench Hydel Power Station	Totladoh	M.P. & Maharashtra
40	Pragati Power Corporation Ltd.	Delhi	Delhi

**TABLE 2.1 (CONTD.)**  
**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER**  
**CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY**  
**FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION**  
**31.03.2021**

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	Telangana
49	TB Dam Tungabhadra Board	Bellary	A.P., Karnataka
50	Teesta Urja limited	New Delhi	State Sector (JV)
51	Tehri Hydro Development Corp. Ltd.	Rishikesh	Uttarakhand
52	Telangana State Power Generation Corpn. Ltd.	Hyderabad	Telangana
53	Tenughat Vidyut Nigam Ltd.	Ranchi	Jharkhand
54	The Durgapur Projects Ltd.	Durgapur	West Bengal
55	Uttar Pradesh Jal Vidyut Nigam Ltd.	Lucknow	Uttar Pradesh
56	Uttar Pradesh Rajya Vidyut Utpadan Nigam Ltd.	Lucknow	Uttar Pradesh
57	Uttarakhand Jal Vidyut Nigam Ltd.	Dehradun	Uttarakhand
58	West Bengal Power Development Corpn. Ltd.	Kolkata	West Bengal. Govt.

**(B) Distribution Undertakings**

1	Ajmer Vidyut Vitran Nigam Ltd.	Ajmer	Rajasthan
2	Andhra Pradesh Central Power Distribution Corporation Ltd.	Vijaywada	Andhra Pradesh
3	Assam Power Distribution Company Ltd.	Guwahati	Assam
4	Bangalore Electricity Supply Co. Ltd.	Bengaluru	Karnataka
5	Brihan Mumbai Electric supply & Transport undertaking	Mumbai	Maharashtra
6	Chamundeshwari Electricity 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 Vij 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

**TABLE 2.1 (CONTD.)**  
**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER**  
**CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY**  
**FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION**  
**31.03.2021**

Sl. No.	Name	Head Quarter	Ownership by Govt.
22	Jodhpur Vidyut Vitran Nigam Ltd.	Jodhpur	Rajasthan
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.

**(C)Transmission Undertakings**

1	Assam Electricity Grid Corporation. Ltd.	Guwahati	Assam
2	Bihar State Power Transmission Co. Ltd.	Patna	Bihar
3	Chhattisgarh State Power Transmission Co. Ltd.	Raipur	Chhattisgarh
4	Delhi Transco Ltd.	Delhi	Delhi
5	Gujarat Energy Transmission Corp. Ltd	Vadodara	Gujarat
6	Haryana Vidyut Prasaran Nigam Ltd.	Panchkula	Haryana
7	Jharkhand Urja Sancharan Nigam Ltd.	Ranchi	Jharkhand
8	Jammu and Kashmir Power Transmission Corporation Ltd	Srinagar	Jammu & Kashmir

**TABLE 2.1 (CONTD.)**  
**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER**  
**CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY**  
**FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION**  
**31.03.2021**

Sl. No.	Name	Head Quarter	Ownership by Govt.
9	Karnataka Power Transmission Corp. Ltd.	Bengaluru	Karnataka
10	M.P. Power Transmission Corp. Ltd.	Jabalpur	Madhya Pradesh
11	Maharashtra State Electricity Transmission Co. Ltd.	Mumbai	Maharashtra
12	Meghalaya Power Transmission Corporation Ltd.	Shillong	Meghalaya
13	Odisha Power Transmission Corporation Ltd.	Bhubneshwar	Odisha
14	Power Grid Corporation of India Ltd.	Gurugram	Central
15	Power Transmission Corporation of Uttarakhand Ltd.	Dehradun	Uttarakhand
16	Punjab Power Transmission Corporation Ltd	Patiala	Punjab
17	Rajasthan Rajya Vidyut Prasaran Nigam Ltd.	Jaipur	Rajasthan
18	Tamil Nadu Transmission Corpn. Ltd.	Chennai	Tamil Nadu
19	Transmission Corp. of Andhra Pradesh Ltd.	Vijaywada	Andhra Pradesh
20	Transmission Corpn. Of Telangana Ltd.	Hyderabad	Telangana
21	Uttar Pradesh Power Transmission Corporation Ltd (UPPTCL)	Lucknow	Uttar Pradesh
22	West Bengal State Electricity Transmission Co. Ltd.	Kolkata	West Bengal. Govt.

**(D) Holding Undertakings**

1	Bihar State Power Holding Co. Ltd.	Patna	Bihar
2	Chhattisgarh State Power Holding Co. Ltd.	Raipur	Chhattisgarh
3	Gujarat Urja Vikas Nigam Ltd.	Vadodara	Gujarat
4	Jammu & Kashmir Power Corporation Ltd	Srinagar	Jammu & Kashmir
5	Jharkhand Urja Vikas Nigam Ltd.	Ranchi	Jharkhand
6	Maharashtra SEB Holding Co. Ltd.	Mumbai	Maharashtra
7	Meghalaya Energy Corporation Ltd.	Shillong	Meghalaya

**(E) Generation + Distribution Undertakings**

1	Ladakh Power Company Limited	Leh	Ladakh
2	Punjab State Power Corporation Ltd	Patiala	Punjab
3	Tamil Nadu Generation & Distribution Corpn. Ltd.	Chennai	Tamil Nadu

**(F) Generation + Transmission Undertakings**

1	Bakra Beas Management Board	Chandigarh	Punjab, Haryana & Rajasthan
2	Damodar Valley Corporation.	Kolkata	Central

**(G) Generating + Distribution + Transmission Undertakings**

1	Himachal Pradesh State Electricity Board Limited	Shimla	Himachal Pradesh
2	Kerala State Electricity Board Ltd.	Thiruvananthapuram	Kerala
3	Tripura State Electricity Corporation Limited	Agartala	Tripura

**(H) Generating + Distribution + Holding Undertakings**

1	Manipur State Power Company Ltd.	Imphal	Manipur
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**TABLE 2.1 (CONTD.)**  
**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER**  
**CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY**  
**FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION**  
**31.03.2021**

<b>(I) Holding Companies for Distribution Undertakings</b>			
1	Grid Corporation. of Orissa Ltd.(GRIDCO)	Bhubaneswar	Odisha
2	M.P. Power Management 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	Aizawl	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 31.03.2021**

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	5	0	0	5
<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>110</b>	<b>8</b>	<b>27</b>	<b>145</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 31.03.2021**  
**(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	L&T Uttarakhand Hydropower Limited	Uttarakhand
22	Sravanthi Energy Pvt. Ltd.	Uttarakhand
23	ACB(India) Ltd.	Chhattisgarh
24	Bharat Aluminium Co. Ltd.	Chhattisgarh
25	DB Power Ltd.	Chhattisgarh
26	GMR Chhattisgarh Energy Ltd.	Chhattisgarh
27	Jindal Power Ltd.	Chhattisgarh
28	Korba West Power Co. Ltd.	Chhattisgarh
29	KSK Mahanadi Power Co. Ltd.	Chhattisgarh
30	Lanco Amarkantak Power Ltd.	Chhattisgarh
31	Maruti Clean Coal & Power Ltd.	Chhattisgarh
32	RKM Powergen Pvt. Ltd.	Chhattisgarh
33	Spectrum Coal & Power Ltd.	Chhattisgarh
34	SV Power Pvt. Ltd.	Chhattisgarh
35	TRN Energy Pvt. Ltd.	Chhattisgarh
36	Vandana Energy & Steel Pvt. Ltd.	Chhattisgarh
37	Vandana Vidyut Ltd.	Chhattisgarh
38	Adani Power Ltd.	Gujarat
39	CGPL(Tata Power)	Gujarat
40	CLP(India) Pvt. Ltd.	Gujarat

**TABLE 2.3 (CONTD.)**  
**DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2021**  
**(UTILITIES)**

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

**TABLE 2.3 (CONTD.)**  
**DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2021**  
**(UTILITIES)**

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

**TABLE 2.3 (CONTD.)**  
**DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2021**  
**(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 Services 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	Southern 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**  
**31.03.2021**

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 31.03.2021**

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	GMR Energy Trading Ltd	14.10.2008	I
6	Global Energy (P) Ltd.	28.11.2008	I
7	Statkraft Markets (P) Ltd.	21.06.2012	I
8	Manikaran Power Limited, Kolkata	29.06.2012	I
9	Solar Energy Corporation of India	01.04.2014	I
10	NHPC Limited	23.04.2018	I
11	NLC India Ltd.	13.07.2018	I
12	Refex Energy Ltd.	30.08.2018	I
13	NTPC limited	08.07.2019	I
14	National Energy Trading & Services Ltd.	23.07.2004	II
15	Essar Electric Power Development Corporation	14.12.2005	II
16	RPG Power Trading Company Ltd	23.09.2008	II
17	Kreate Energy (I) Pvt. Ltd.	12.02.2009	II
18	Arunachal Pradesh Power Corporation (P) Limited, Itanagar	11.09.2012	II
19	Instinct Infra & Power Ltd.	07.09.2005	III
20	Greenko Energies (P)Ltd.	22.01.2008	III
21	Shyam Indus Power Solutions (P) Ltd	11.11.2008	III
22	ABJA Power Pvt. Ltd	26.04.2011	III
23	Saranyu Power Trading Pvt. Ltd.	10.02.2015	III
24	JSW Power Trading Company Ltd.	25.04.2006	IV
25	Knowledge Infrastructure Systems (P) Ltd	18.12.2008	IV
26	Ambitious Power Trading Company Ltd.	16.09.2008	IV
27	Shree Cement Ltd	16.03.2010	IV
28	Vedprakash Power (P) Limited	19.08.2013	IV
29	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
30	Atria Energy Services Pvt. Ltd.	20.06.2017	IV
31	Customised Energy Solutions India (P) Ltd.	08.06.2011	V
32	Gita Power & Infrastructure(P) Ltd.	20.10.2015	V
33	Renew Solar Services Pvt. Ltd.	27.01.2017	V

Trading Limit for Category of License

Category I : Above 7,000 MUs

Category II : Not more than 7,000 MUs

Category III : Not more than 4,000 MUs

Category IV : Not more than 2,000 MUs

Category V : Not more than 500 MUs

Source – CERC



# **CHAPTER 3**

## **INSTALLED CAPACITY**





## CHAPTER 3

### INSTALLED CAPACITY

The total installed capacity in the country including captive power plant (Industries having demand of 1MW and above) increased to 460659 MW as on 31.03.2021 as compared to 446346 MW as on 31.03.2020. The net addition in generating capacity amounted to 14313 MW (Hydro-510 MW, Thermal-5179 MW & Renewable Energy Sources-8625 MW). The increase in All India Installed Capacity including captive power plant capacity over the last year was 3.21%. The total installed capacity comprises 287717 MW from conventional sources (Utilities), 94434 MW from Renewable Energy Sources and 78508 MW from Industrial Captive power plants.

#### UTILITIES

Installed capacity (Utilities) in the country increased to 382151 MW as on 31.03.2021 as compared to 370106 MW as on 31.03.2020 thereby registering an increase of 3.25% over the previous year. The total net addition in generating capacity amounted to 12045 MW which includes 4639 MW from conventional sources viz Hydro, Thermal & Nuclear and 7406 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

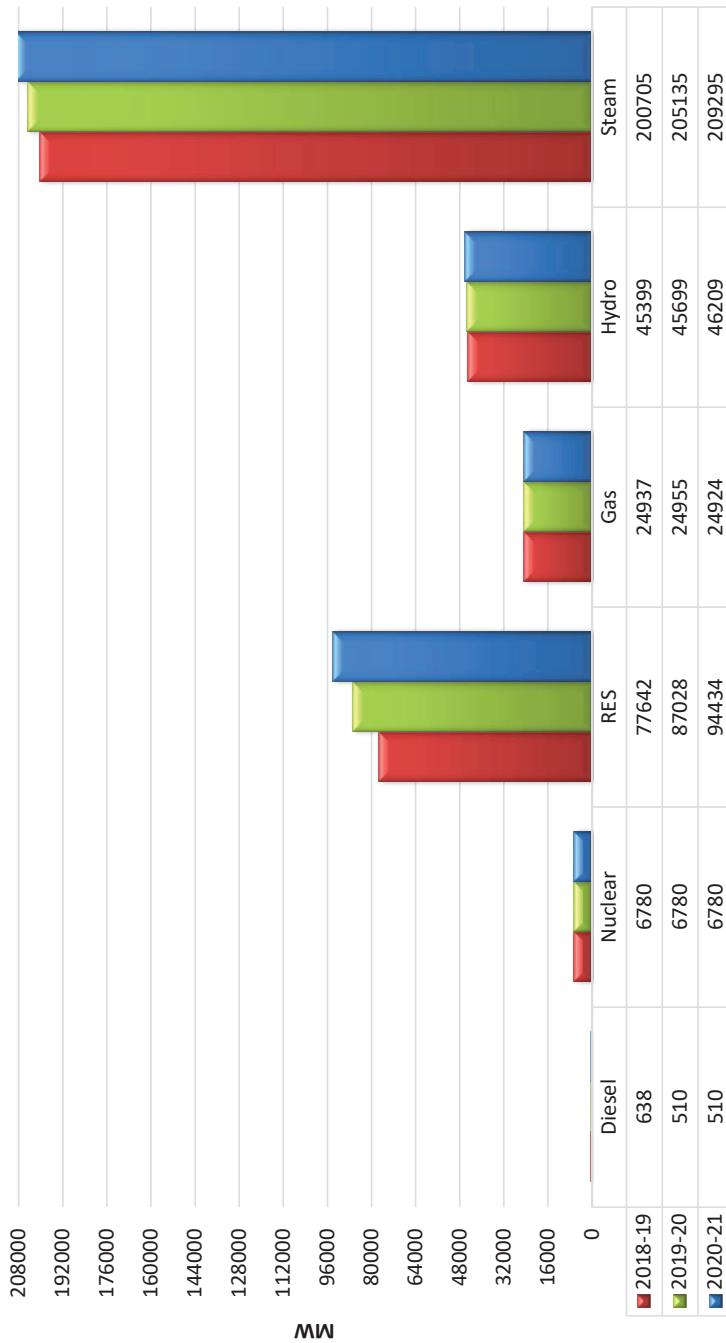
The installed capacity of thermal generating units continued to form the largest share of the installed generating capacity followed by RES. The relative percentage of capacity of hydro, thermal, nuclear and renewable energy sources has been 12.09%, 61.42%, 1.77% and 24.71% respectively as on 31.03.2021.

#### 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 78508 MW as on 31.03.2021 as compared to 76239 MW as on 31.03.2020 thereby registering an increase of 2.98% 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%, 60.83%, 22.37%, 9.38% & 7.25% 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, 2021.

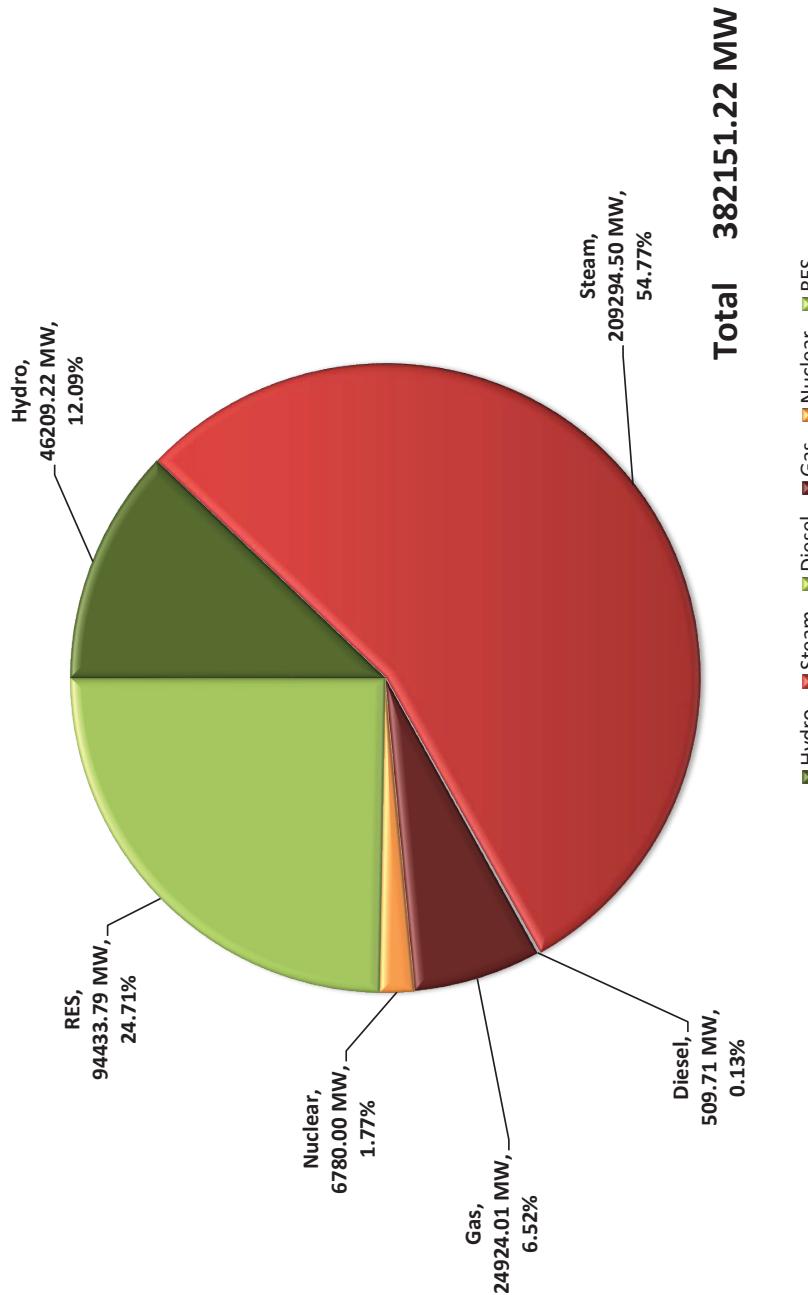
## GROWTH OF INSTALLED CAPACITY UTILITIES 2018-19 to 2020-21



**TABLE 3.1**  
**ALL INDIA INSTALLED CAPACITY MODE-WISE**  
**UTILITIES AND NON-UTILITIES**  
**AS ON 31.03.2021**

Sl. No.	Year	Installed Capacity						RES (3+7+8+9)	
		Thermal			Nuclear				
		Hydro	Steam	Diesel	Gas	Total(Thermal) (4+5+6)			
1	2	3	4	5	6	7	8	9	
<b>(i) Installed Capacity: Utilities</b>									
31.03.2020	45699.22	205134.50	509.71	24955.36	230599.57	6780.00	87027.68	370106.46	
31.03.2021	46209.22	209294.50	509.71	24924.01	234728.22	6780.00	94433.79	382151.22	
% Increase	1.12	2.03	0.00	-0.13	1.79	0.00	8.51	3.25	
<b>(ii) Installed Capacity : Non-Utilities (Industries having demand of 1 MW &amp; above)</b>									
31.03.2020	130.77	51542.77	12774.66	7315.87	71633.30	0.00	4475.29	76239.36	
31.03.2021	130.70	47759.52	17562.86	7361.11	72683.49	0.00	5693.78	78507.97	
% Increase	-0.06	-7.34	37.48	0.62	1.47	0.00	27.23	2.98	
<b>(iii) Installed Capacity : Total ( i+ii )</b>									
31.03.2020	45829.99	256677.27	13284.37	32271.23	302232.86	6780.00	91502.97	446345.82	
31.03.2021	46339.92	257054.02	18072.57	32285.12	307411.71	6780.00	100127.57	460669.19	
% Increase	1.11	0.15	36.04	0.04	1.71	0.00	9.43	3.21	

**INSTALLED CAPACITY MODEWISE  
UTILITIES  
As on 31.03.2021**

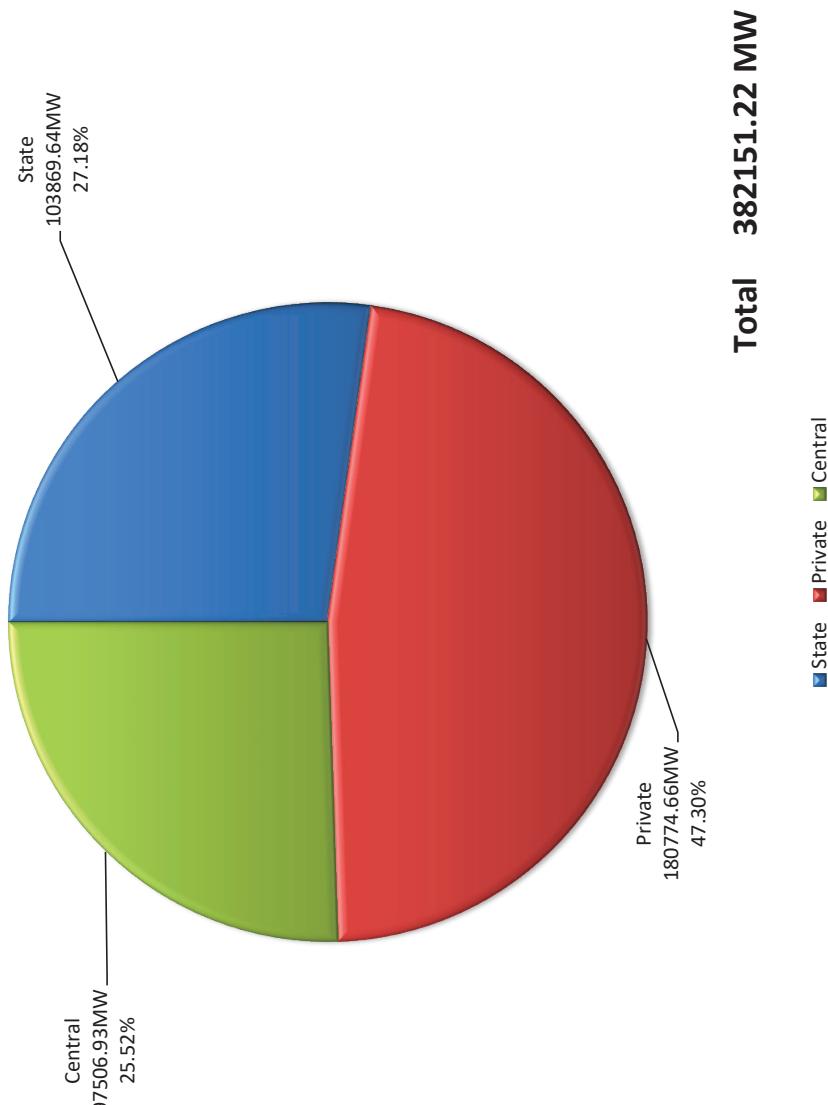


**TABLE 3.2**  
**ALL INDIA INSTALLED CAPACITY OWNERSHIP-WISE AND MODE-WISE UTILITIES**  
**AS ON 31.03.2021**

S. No.	Sector	Installed Capacity						Total (2+6+7+8)
		Hydro	Steam	Diesel	Gas	Total(Ther-mal) (3+4+5)	Nuclear	
1		2	3	4	5	6	7	8
<b>1</b>	<b>Public Sector</b>							<b>9</b>
1.1	Elect. Deptt./Govt./ Corpsns./Joint Ventures	27069.50	67081.50	236.01	7087.36	74404.86	0.00	2395.27
1.2	Central Sector	15646.72	66210.00	0.00	7237.91	73447.91	6780.00	1632.30
	<b>Sub-total Public Sector</b>	<b>42716.22</b>	<b>133291.50</b>	<b>236.01</b>	<b>14325.27</b>	<b>147852.77</b>	<b>6780.00</b>	<b>4027.57</b>
<b>2</b>	<b>Private Sector</b>							<b>201376.57</b>
2.1	Private Companies	3493.00	76003.00	273.70	10598.74	86875.45	0.00	90406.21
	<b>Sub total Private Sector</b>	<b>3493.00</b>	<b>76003.00</b>	<b>273.70</b>	<b>10598.74</b>	<b>86875.45</b>	<b>0.00</b>	<b>90406.21</b>
	<b>Total All India</b>	<b>46209.22</b>	<b>209294.50</b>	<b>509.71</b>	<b>24924.01</b>	<b>234728.22</b>	<b>6780.00</b>	<b>94433.79</b>
								<b>382151.22</b>

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

**INSTALLED CAPACITY SECTORWISE  
UTILITIES  
As on 31.03.2021**



**TABLE 3.3**  
**ALL INDIA INSTALLED CAPACITY STATE-WISE**  
**UTILITIES**  
**31.03.2021**

(MW)

State/UT	31.03.2020	31.03.2021	% INCREASE
Chandigarh	40.55	45.16	11.37
Delhi	2572.56	2600.37	1.08
Haryana	5550.30	5712.19	2.92
Himachal Pradesh	3430.24	3577.64	4.30
Jammu & Kashmir	1604.78	1611.71	0.43
Punjab	9615.90	9784.65	1.75
Rajasthan	20641.58	21263.30	3.01
Uttar Pradesh	16703.81	17346.96	3.85
Uttarakhand	3191.87	3343.10	4.74
Central Sector (NR)	27739.58	29059.58	4.76
Sub-Total (NR)	91091.17	94344.66	3.57
Chhattisgarh	16919.85	16701.38	-1.29
Gujarat	31484.66	33911.15	7.71
Madhya Pradesh	18193.67	18404.23	1.16
Maharashtra	36285.24	36841.71	1.53
Daman & Diu	19.86	40.55	104.18
D. & N. Haveli	5.46	5.46	0.00
Goa	53.17	55.83	5.00
Central Sector (WR)	24706.97	26306.97	6.48
<b>Sub-Total (WR)</b>	<b>127668.88</b>	<b>132267.28</b>	<b>3.60</b>
Andhra Pradesh	22092.59	22696.26	2.73
Telangana	12878.52	14041.69	9.03
Karnataka	25923.86	26154.60	0.89
Kerala	2567.93	2692.25	4.84
Tamil Nadu	24806.70	25684.83	3.54
Puducherry	38.01	41.83	10.05
Lakshadweep	0.75	0.75	0.00
Central Sector (SR)	16961.48	17111.48	0.88
Sub-Total (SR)	105269.85	108423.70	3.00
Bihar	343.47	354.91	3.33
Jharkhand	2426.75	2440.41	0.56
Odisha	8113.61	8141.49	0.34
West Bengal	8945.88	8981.26	0.40
Sikkim	811.18	811.18	0.00
A. & N. Islands	52.39	69.42	32.51
Central Sector (ER)	20730.30	21390.30	3.18
<b>Sub-Total (ER)</b>	<b>41423.57</b>	<b>42188.97</b>	<b>1.85</b>
Arunachal Pradesh	136.72	136.72	0.00
Assam	503.05	507.96	0.98
Manipur	46.61	47.81	2.57
Meghalaya	368.45	368.45	0.00
Mizoram	37.99	38.00	0.03
Nagaland	31.67	31.67	0.00
Tripura	189.92	157.42	-17.11
Central Sector (NER)	3338.60	3638.60	8.99
<b>Sub-Total (NER)</b>	<b>4653.00</b>	<b>4926.62</b>	<b>5.88</b>
<b>Central Sector All India</b>	<b>93476.93</b>	<b>97506.93</b>	<b>4.31</b>
<b>Total All India</b>	<b>370106.46</b>	<b>382151.22</b>	<b>3.25</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 MODEWISE/REGIONWISE/STATEWISE**  
**UTILITIES**  
**AS ON 31.03.2021**

(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	45.16	45.16
Delhi		0.00	447.00	0.00	1908.40	2355.40	0.00	2600.37
Haryana		200.00	4674.00	0.00	150.00	4824.00	0.00	5712.19
Himachal Pradesh		2589.60	0.00	0.00	0.00	0.00	988.04	3577.64
Jammu & Kashmir		1230.00	0.00	0.00	175.00	175.00	0.00	1611.71
Punjab		1243.40	6774.00	0.00	150.00	6924.00	0.00	9784.65
Rajasthan		433.00	10366.00	0.00	603.80	10969.80	0.00	21263.30
Uttar Pradesh		724.10	12774.00	0.00	0.00	12774.00	0.00	17346.96
Uttarakhand		2081.15	99.00	0.00	450.00	549.00	0.00	712.95
Central Sector (NR)		11516.52	13200.00	0.00	2344.06	15544.06	1620.00	29059.58
<b>Sub-Total (NR)</b>	<b>20017.77</b>	<b>48334.00</b>	<b>0.00</b>	<b>5781.26</b>	<b>54115.26</b>	<b>1620.00</b>	<b>18591.63</b>	<b>94344.66</b>
Chhattisgarh		120.00	16008.00	0.00	0.00	16008.00	0.00	16701.38
Gujarat		772.00	13992.00	0.00	6237.82	20229.82	0.00	33911.15
Madhya Pradesh		1703.66	11795.00	0.00	0.00	11795.00	0.00	18404.23
Maharashtra		3331.84	22126.00	0.00	1240.00	23366.00	0.00	36841.71
Daman & Diu		0.00	0.00	0.00	0.00	0.00	0.00	40.55
D. & N. Haveli		0.00	0.00	0.00	0.00	0.00	0.00	5.46
Goa		0.00	0.00	0.00	48.00	48.00	0.00	55.83
Central Sector (WR)		1520.00	19000.00	0.00	3280.67	22280.67	1840.00	26306.97
<b>Sub-Total (WR)</b>	<b>7447.50</b>	<b>82921.00</b>	<b>0.00</b>	<b>10806.49</b>	<b>93727.49</b>	<b>1840.00</b>	<b>29252.29</b>	<b>132267.28</b>
Andhra Pradesh		1673.60	8200.55	36.80	4066.72	12304.07	0.00	8718.59
Telangana		2479.93	6361.95	0.00	831.82	7193.77	0.00	4367.99
Karnataka		3586.60	7080.00	25.20	0.00	7105.20	0.00	15462.80
Kerala		1856.50	0.00	159.96	174.00	333.96	0.00	501.79
Tamil Nadu		2178.20	7270.00	211.70	1027.18	8508.88	0.00	14997.75
Puducherry		0.00	0.00	0.00	32.50	32.50	0.00	9.33
Lakshadweep		0.00	0.00	0.00	0.00	0.00	0.00	0.75
Central Sector (SR)		0.00	12890.00	0.00	359.58	13249.58	3320.00	541.90
<b>Sub-Total (SR)</b>	<b>11774.83</b>	<b>41802.50</b>	<b>433.66</b>	<b>6491.80</b>	<b>48727.97</b>	<b>3320.00</b>	<b>44600.90</b>	<b>108423.70</b>
Bihar		0.00	0.00	0.00	0.00	0.00	0.00	354.91
Jharkhand		130.00	2250.00	0.00	0.00	2250.00	0.00	2440.41
Odisha		2061.92	5540.00	0.00	0.00	5540.00	0.00	539.57
West Bengal		986.00	7327.00	0.00	100.00	7427.00	0.00	568.26
Sikkim		759.00	0.00	0.00	0.00	0.00	0.00	52.18
A. & N. Islands		0.00	0.00	40.05	0.00	40.05	0.00	29.37
Central Sector (ER)		1005.20	20370.00	0.00	0.00	20370.00	0.00	15.10
<b>Sub-Total (ER)</b>	<b>4942.12</b>	<b>35487.00</b>	<b>40.05</b>	<b>100.00</b>	<b>35627.048</b>	<b>0.00</b>	<b>1619.80</b>	<b>42188.97</b>
Arunachal Pradesh		0.00	0.00	0.00	0.00	0.00	0.00	136.72
Assam		100.00	0.00	0.00	353.86	353.86	0.00	507.96
Manipur		0.00	0.00	36.00	0.00	36.00	0.00	11.81
Meghalaya		322.00	0.00	0.00	0.00	0.00	0.00	46.45
Mizoram		0.00	0.00	0.00	0.00	0.00	0.00	38.00
Nagaland		0.00	0.00	0.00	0.00	0.00	0.00	31.67
Tripura		0.00	0.00	0.00	137.00	137.00	0.00	20.42
<b>Central Sector (NER)</b>	<b>1605.00</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>3638.60</b>
<b>Sub-Total (NER)</b>	<b>2027.00</b>	<b>750.00</b>	<b>36.00</b>	<b>1744.46</b>	<b>2530.46</b>	<b>0.00</b>	<b>369.17</b>	<b>4926.62</b>
<b>Central Sector All India</b>	<b>15646.72</b>	<b>66210.00</b>	<b>0.00</b>	<b>7237.91</b>	<b>73447.91</b>	<b>6780.00</b>	<b>1632.30</b>	<b>97506.93</b>
<b>Total All India</b>	<b>46209.22</b>	<b>209294.50</b>	<b>509.71</b>	<b>24924.01</b>	<b>234728.22</b>	<b>6780.00</b>	<b>94433.79</b>	<b>382151.22</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**  
**MODEWISE**  
**AS ON 31.03.2021**

(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
Delhi		0.00	0.00	0.00	1800.40	1800.40	0.00	1800.40
Haryana		200.00	2510.00	0.00	150.00	2660.00	0.00	2929.30
Himachal Pradesh		805.60	0.00	0.00	0.00	0.00	256.61	1062.21
Jammu & Kashmir		1230.00	0.00	0.00	175.00	175.00	0.00	1535.98
Punjab		1243.40	1760.00	0.00	150.00	1910.00	0.00	3281.20
Rajasthan		433.00	7170.00	0.00	603.80	7773.80	0.00	8230.65
Uttar Pradesh		724.1	5469.00	0.00	0.00	5469.00	0.00	6242.20
Uttarakhand		1252.15	0.00	0.00	0.00	0.00	67.87	1320.02
Central Sector (NR)		11516.52	13200.00	0.00	2344.06	15544.06	1620.00	379.00
<b>Sub Total (NR)</b>		<b>17404.77</b>	<b>30109.00</b>	<b>0.00</b>	<b>5223.26</b>	<b>35332.26</b>	<b>1620.00</b>	<b>1104.51</b>
Chhattisgarh		120.00	2840.00	0.00	0.00	2840.00	0.00	11.05
Gujarat		772.00	5410.00	0.00	2177.82	7587.82	0.00	8445.91
Madhya Pradesh		1703.66	5400.00	0.00	0.00	5400.00	0.00	83.96
Maharashtra		2850.84	9750.00	0.00	672.00	10422.00	0.00	388.13
Goa		0.00	0.00	0.00	0.00	0.00	0.00	0.05
Central Sector (WR)		1520.00	19000.00	0.00	3280.67	22280.67	1840.00	666.30
<b>Sub Total (WR)</b>		<b>6966.50</b>	<b>42400.00</b>	<b>0.00</b>	<b>6130.49</b>	<b>48530.49</b>	<b>1840.00</b>	<b>1235.58</b>
Andhra Pradesh		1673.60	5010.00	0.00	235.40	5245.40	0.00	56.18
Telangana		2479.93	4972.50	0.00	0.00	4972.50	0.00	41.22
Karnataka		3586.60	5020.00	0.00	0.00	5020.00	0.00	193.89
Kerala		1856.50	0.00	159.96	0.00	159.96	0.00	172.90
Tamil Nadu		2178.20	4320.00	0.00	524.08	4844.08	0.00	122.70
Puducherry		0.00	0.00	0.00	32.50	32.50	0.00	0.00
Lakshadweep		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector (SR)		0.00	12890.00	0.00	359.58	13249.58	3320.00	541.90
<b>Sub Total (SR)</b>		<b>11774.83</b>	<b>32212.50</b>	<b>159.96</b>	<b>1151.56</b>	<b>33524.02</b>	<b>3320.00</b>	<b>1128.78</b>
Bihar		0.00	0.00	0.00	0.00	0.00	0.00	70.70
Jharkhand		130.00	420.00	0.00	0.00	420.00	0.00	4.05
Odisha		2061.92	1740.00	0.00	0.00	1740.00	0.00	26.30
West Bengal		986.00	5290.00	0.00	100.00	5390.00	0.00	121.95
Sikkim		360.00	0.00	0.00	0.00	0.00	0.00	52.11
A. & N. Islands		0.00	0.00	40.05	0.00	40.05	0.00	5.25
Central Sector (ER)		1005.20	20370.00	0.00	0.00	20370.00	0.00	15.10
<b>Sub Total (ER)</b>		<b>4543.12</b>	<b>27820.00</b>	<b>40.05</b>	<b>100.00</b>	<b>27960.05</b>	<b>0.00</b>	<b>295.46</b>
Arunachal Pradesh		0.00	0.00	0.00	0.00	0.00	0.00	107.11
Assam		100.00	0.00	0.00	329.36	329.36	0.00	5.01
Manipur		0.00	0.00	36.00	0.00	36.00	0.00	5.45
Meghalaya		322.00	0.00	0.00	0.00	0.00	0.00	32.53
Mizoram		0.00	0.00	0.00	0.00	0.00	0.00	36.47
Nagaland		0.00	0.00	0.00	0.00	0.00	0.00	30.67
Tripura		0.00	0.00	0.00	137.00	137.00	0.00	16.01
<b>Central Sector (NER)</b>		<b>1605.00</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>Sub-Total (NER)</b>		<b>2027.00</b>	<b>750.00</b>	<b>36.00</b>	<b>1719.96</b>	<b>2505.96</b>	<b>0.00</b>	<b>263.25</b>
<b>Total-I, (All India)</b>		<b>42716.22</b>	<b>133291.50</b>	<b>236.01</b>	<b>14325.27</b>	<b>147852.77</b>	<b>6780.00</b>	<b>4027.57</b>
								<b>201376.57</b>

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

**TABLE 3.5 (CONTD.)**  
**ALL INDIA GROSS INSTALLED CAPACITY OF ELECTRICITY DEPARTMENTS, GOVT.  
 UNDERTAKINGS, CENTRAL SECTOR, MUNICIPALITIES AND PRIVATE SECTOR  
 MODEWISE  
 AS ON 31.03.2021**

(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	45.16	45.16
Delhi		0.00	447.00	0.00	108.00	555.00	0.00	799.97
Haryana		0.00	2164.00	0.00	0.00	2164.00	0.00	2782.89
Himachal Pradesh	1784.00	0.00	0.00	0.00	0.00	0.00	731.43	2515.43
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	75.73	75.73
Punjab	0.00	5014.00	0.00	0.00	5014.00	0.00	1489.45	6503.45
Rajasthan	0.00	3196.00	0.00	0.00	3196.00	0.00	9836.65	13032.65
Uttar Pradesh	0.00	7305.00	0.00	0.00	7305.00	0.00	3799.76	11104.76
Uttarakhand	829.00	99.00	0.00	450.00	549.00	0.00	645.08	2023.08
Chhattisgarh	0.00	13168.00	0.00	0.00	13168.00	0.00	562.33	13730.33
Gujarat	0.00	8582.00	0.00	4060.00	12642.00	0.00	12823.24	25465.24
Madhya Pradesh	0.00	6395.00	0.00	0.00	6395.00	0.00	4821.61	11216.61
Maharashtra	481.00	12376.00	0.00	568.00	12944.00	0.00	9755.74	23180.74
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	40.55	40.55
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	7.78	55.78
Andhra Pradesh	0.00	3190.55	36.80	3831.32	7058.67	0.00	8662.41	15721.09
Telangana	0.00	1389.45	0.00	831.82	2221.27	0.00	4326.77	6548.04
Karnataka	0.00	2060.00	25.20	0.00	2085.20	0.00	15268.915	17354.12
Kerala	0.00	0.00	0.00	174.00	174.00	0.00	328.89	502.89
TamilNadu	0.00	2950.00	211.70	503.10	3664.80	0.00	14875.05	18539.85
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	9.33	9.33
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	284.21	284.21
Jharkhand	0.00	1830.00	0.00	0.00	1830.00	0.00	56.36	1886.36
Odisha	0.00	3800.00	0.00	0.00	3800.00	0.00	513.27	4313.27
West Bengal	0.00	2037.00	0.00	0.00	2037.00	0.00	446.31	2483.31
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	24.12	24.12
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	49.09	73.59
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	6.36	6.36
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	1.53	1.53
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>3493.00</b>	<b>76003.00</b>	<b>273.70</b>	<b>10598.74</b>	<b>86875.45</b>	<b>0.00</b>	<b>90406.21</b>	<b>180774.66</b>
<b>All India Total (I+II)</b>	<b>46209.22</b>	<b>209294.50</b>	<b>509.71</b>	<b>24924.01</b>	<b>234728.22</b>	<b>6780.00</b>	<b>94433.79</b>	<b>382151.22</b>

**TABLE 3.6**  
**ALL INDIA INSTALLED CAPACITY ADDITION**  
**UTILITIES**  
**DURING 2020-21**

Sl. No.	State/UT	Owner	Name of project	Dt. of Commis-sioning	No. of units	Unit Size (MW)	Total Capacity (MW)
<b>A Hydro</b>							
	Himachal Pradesh	HPPCL	SAWRA KUDDU HPS	12/11/20	3	37	111
				05/12/20		37	
				16/12/20		37	
	Uttarakhand	L&T UHL	SINGOLI BHATWARI HPS	11/12/2020	3	33	99
				12/18/2020		33	
				12/25/2020		33	
	Arunachal Pradesh	NEEPCCO	KAMENG HPS	1/21/2021	2	150.00	300.00
				2/11/2021		150.00	
	<b>Hydro Total</b>						<b>510.00</b>
<b>B Steam</b>							
	Uttar Pradesh	MUNPL	MEJA STPP	12/01/21	1	660.00	660.00
	Uttar Pradesh	NTPC LIMITED	TANDA TPS	31/03/21	1	660.00	660.00
	Chhattisgarh	NTPC LIMITED	LARA TPP	7/12/2020	1	800.00	800.00
	Madhya Pradesh	NTPC LIMITED	GADARWARA TPP	2/16/2021	1	800.00	800.00
	Telangana	TELANGANA STATE GENCO	BHADRADI TPP	6/5/2020	3	270.00	810.00
				12/7/2020		270.00	
				3/26/2021		270.00	
	Tamil Nadu	NLC	NEYVELI NEW TPP	03/02/21	1	500.00	500.00
	Bihar	NPGCL	NABINAGAR STPP	31/03/21	1	660.00	660.00
	<b>Steam Total</b>						<b>4890.00</b>
<b>C Gas</b>							
	Assam	APGCL	NAMRUJP CCPP	17/05/20	1	36.15	36.15
	<b>Steam Total</b>						<b>36.15</b>
	<b>Grand Total (A+B+C)</b>						<b>5436.15</b>

**TABLE 3.7**  
**ALL INDIA INSTALLED CAPACITY ADDITION**  
**MODE-WISE/STATE-WISE/ REGION-WISE**  
**2020-21**

State/UT	Hydro	Thermal				Nuclear	R E S	( MW ) 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	4.61	4.61
Delhi		0.00	0.00	0.00	0.00	0.00	27.81	27.81
Haryana		0.00	0.00	0.00	0.00	0.00	161.89	161.89
Himachal Pradesh	111.00	0.00	0.00	0.00	0.00	0.00	36.40	147.40
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	6.93	6.93
Punjab	0.00	0.00	0.00	0.00	0.00	0.00	168.75	168.75
Rajasthan	0.00	0.00	0.00	0.00	0.00	0.00	621.72	621.72
Uttar Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	643.15	643.15
Uttarakhand	99.00	0.00	0.00	0.00	0.00	0.00	52.23	151.23
Central Sector (NR)	0.00	1320.00	0.00	0.00	1320.00	0.00	0.00	1320.00
<b>Sub Total (NR)</b>	<b>210.00</b>	<b>1320.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1320.00</b>	<b>0.00</b>	<b>1723.49</b>	<b>3253.49</b>
Chhattisgarh	0.00	0.00	0.00	0.00	0.00	0.00	21.53	21.53
Gujarat	0.00	0.00	0.00	0.00	0.00	0.00	2566.49	2566.49
Madhya Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	210.56	210.56
Maharashtra	0.00	0.00	0.00	0.00	0.00	0.00	556.47	556.47
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	20.69	20.69
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	2.66	2.66
Central Sector (WR)	0.00	1600.00	0.00	0.00	1600.00	0.00	0.00	1600.00
<b>Sub Total (WR)</b>	<b>0.00</b>	<b>1600.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1600.00</b>	<b>0.00</b>	<b>3378.41</b>	<b>4978.41</b>
Andhra Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	603.67	603.67
Telangana	0.00	810.00	0.00	0.00	810.00	0.00	353.17	1163.17
Karnataka	0.00	0.00	0.00	0.00	0.00	0.00	230.74	230.74
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	124.32	124.32
Tamil Nadu	0.00	0.00	0.00	0.00	0.00	0.00	878.13	878.13
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	3.82	3.82
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>1310.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1310.00</b>	<b>0.00</b>	<b>2193.85</b>	<b>3503.85</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	11.44	11.44
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	13.66	13.66
Odisha	0.00	0.00	0.00	0.00	0.00	0.00	27.88	27.88
West Bengal	0.00	0.00	0.00	0.00	0.00	0.00	35.38	35.38
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. & N. Islands	0.00	0.00	0.00	0.00	0.00	0.00	17.03	17.03
Central Sector (ER)	0.00	660.00	0.00	0.00	660.00	0.00	0.00	660.00
<b>Sub Total (ER)</b>	<b>0.00</b>	<b>660.00</b>	<b>0.00</b>	<b>0.00</b>	<b>660.00</b>	<b>0.00</b>	<b>105.40</b>	<b>765.40</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	36.15	36.15	0.00	3.76	39.91
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.20
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	0.01	0.01
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector (NER)	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>36.15</b>	<b>36.15</b>	<b>0.00</b>	<b>4.97</b>	<b>341.12</b>
<b>Total (All India)</b>	<b>510.00</b>	<b>4890.00</b>	<b>0.00</b>	<b>36.15</b>	<b>4926.15</b>	<b>0.00</b>	<b>7406.11</b>	<b>12842.26</b>

**TABLE 3.8**  
**DETAILS OF ALL INDIA INSTALLED CAPACITY RETIRED**  
**STATE-WISE/MODE-WISE**  
**2020-21**

Sl. No.	State/UT	Ownership	Name of the Station	Unit No.	Hydro	Steam	Diesel	Gas	Total (Thermal) (7+8+9)	Nuclear	R E S	Total (6+10+11+12)
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Chhattisgarh	CSPGCL	KORBA-III	1	0.00	120.00	0.00	0.00	120.00	0.00	0.00	120.00
2	Chhattisgarh	CSPGCL	KORBA-III	2	0.00	120.00	0.00	0.00	120.00	0.00	0.00	120.00
3	Gujarat	GSECL	KUTCH LIG. TPS	1	0.00	70.00	0.00	0.00	70.00	0.00	0.00	70.00
4	Gujarat	GSECL	KUTCH LIG. TPS	2	0.00	70.00	0.00	0.00	70.00	0.00	0.00	70.00
5	Tamil Nadu	NLC	NEYVELI TPS- I	2	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00
6	Tamil Nadu	NLC	NEYVELI TPS- I	3	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00
7	Tamil Nadu	NLC	NEYVELI TPS- I	4	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00
8	Tamil Nadu	NLC	NEYVELI TPS- I	5	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00
9	Tamil Nadu	NLC	NEYVELI TPS- I	6	0.00	50.00	0.00	0.00	50.00	0.00	0.00	50.00
10	Tamil Nadu	NLC	NEYVELI TPS- I	8	0.00	100.00	0.00	0.00	100.00	0.00	0.00	100.00
11	Assam	APGCL	NAMRUP CCP	4	0.00	0.00	0.00	0.00	11.00	0.00	0.00	11.00
12	Assam	APGCL	NAMRUP CCP	5	0.00	0.00	0.00	0.00	24.00	0.00	0.00	24.00
13	Tripura	TSECL	BARAMURA GT	1	0.00	0.00	0.00	5.00	5.00	0.00	0.00	5.00
14	Tripura	TSECL	BARAMURA GT	2	0.00	0.00	0.00	5.00	5.00	0.00	0.00	5.00
15	Tripura	TSECL	BARAMURA GT	3	0.00	0.00	0.00	6.50	6.50	0.00	0.00	6.50
16	Tripura	TSECL	ROKHIA GT	1	0.00	0.00	0.00	8.00	8.00	0.00	0.00	8.00
17	Tripura	TSECL	ROKHIA GT	2	0.00	0.00	0.00	8.00	8.00	0.00	0.00	8.00
<b>Net Deletion/Retirement</b>				<b>0.00</b>	<b>730.00</b>	<b>0.00</b>	<b>67.50</b>	<b>797.50</b>	<b>0.00</b>	<b>0.00</b>	<b>797.50</b>	



**TABLE 3.9**  
**ALL INDIA INSTALLED CAPACITY**  
**NET ADDITION/DELETION MODEWISE**  
**2020-21**

(MW)

Activity	Hydro	Thermal				Nuclear	R E S	Total (2+6+7+8)
		Steam	Diesel	Gas	Total (Thermal) (3+4+5)			
1	2	3	4	5	6	7	8	9
Gross Addition	510.00	4890.00	0.00	36.15	4926.15	0.00	7406.11	12842.26
Deletion/Retirement	0.00	-730.00	0.00	-67.50	-797.50	0.00	0.00	-797.50
Up-rating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
De-rating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Net Addition	510.00	4160.00	0.00	-31.35	4128.65	0.00	7406.11	12044.76

**TABLE 3.10**  
**SHARE OF PARTICIPATING STATES IN JOINTLY OWNED**  
**POWER STATIONS**  
**AS ON 31.03.2021**

( 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 CPH 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 2020-21 was 1373186.88 GWh as compared to 1383416.75 GWh during 2019-20. The All India generation from utilities has shown a decline of -0.74%. During the year 2020-21, the generation from Hydro, Thermal, Nuclear and Non-Conventional Energy Sources has been 150299.52 GWh, 1032610.77 GWh, 43029.08 GWh and 147247.51 GWh respectively. The respective percentage of this generation with respect to gross generation from above sources has been 10.95%, 75.20%, 3.13% & 10.72%. The Gross Generation during 2020-21 in Central, State and Private Sector was 469738.08 GWh, 371263.59 GWh and 532185.20 GWh constituting 34.21%, 27.04% and 38.76% respectively.

### GENERATION - NON UTILITIES (ONLY CAPTIVE)

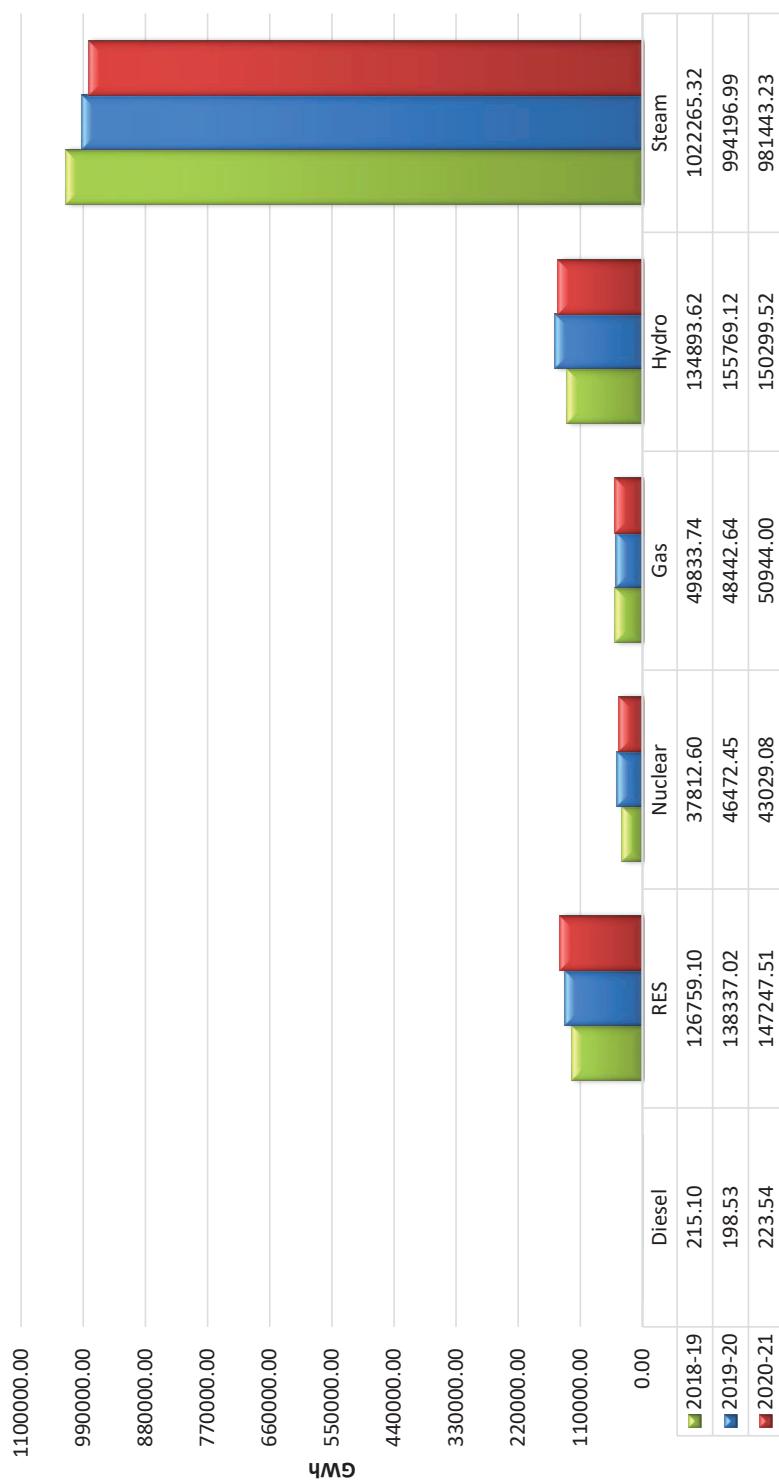
Besides electricity generation by the Public Utilities, during the year under review captive electricity generating plants of industries in the Industrial Sector having demand of 1 MW & above have produced 224827.40 GWh comprising 339.12 GWh from hydro, 193142.60 GWh from steam, 2504.19 GWh from diesel, 21683.55 GWh from gas and 7157.94 GWh from RES respectively. The captive power plant energy generation has registered a decline of -6.15% 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 2020-21 was 1598014.28 GWh as compared to 1622983.50 GWh during the year 2019-20. Thus the electricity generation has registered a decline of -1.54% 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.

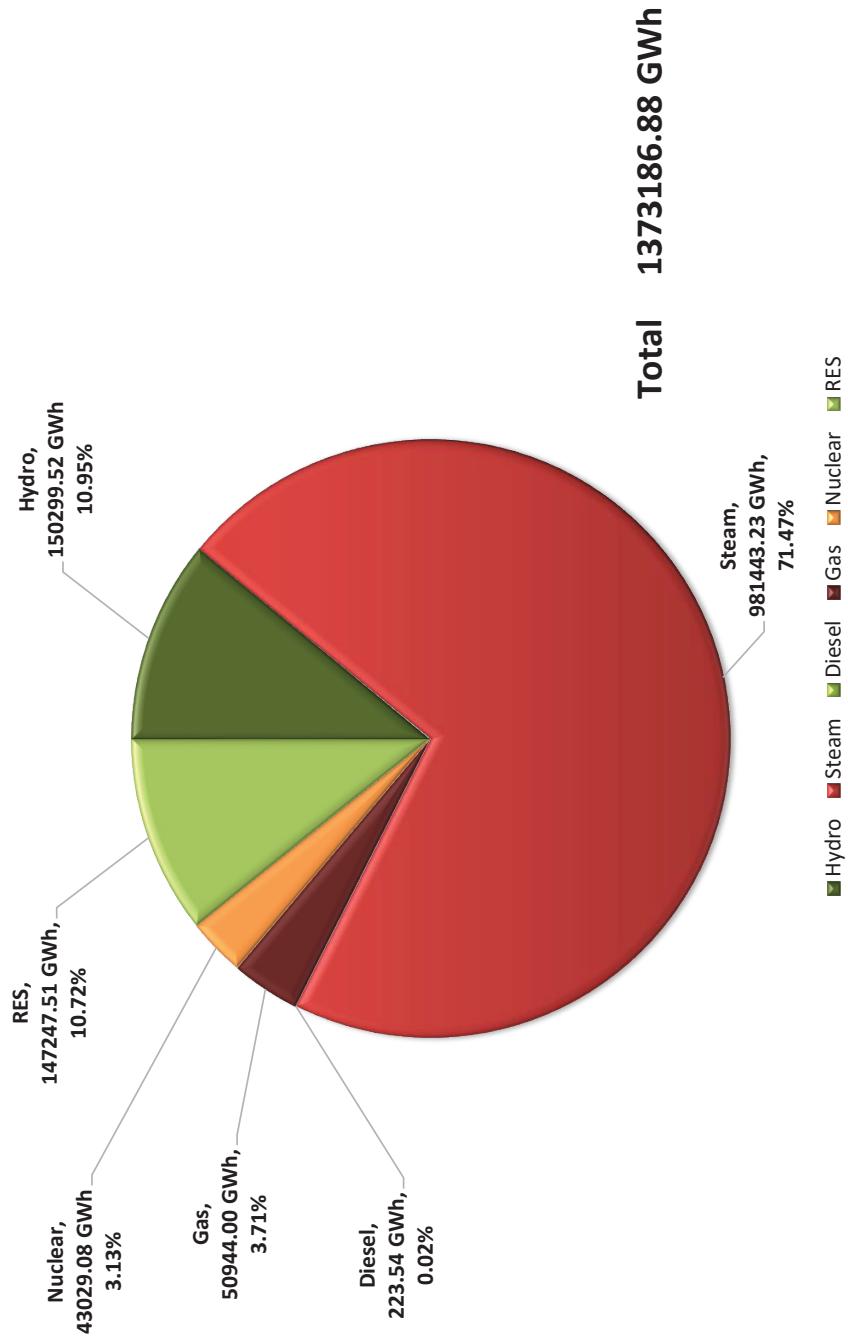
**ALL INDIA GROSS ELECTRICITY GENERATION  
UTILITIES  
2018-19 to 2020-21**



**TABLE 4.1**  
**ALL INDIA GROSS ELECTRICITY GENERATION MODE-WISE**  
**UTILITIES & NON-UTILITIES**  
**2020-21**

Sl. No.	Year	Gross Electricity Generation (GWh)								(GWh)
		Hydro	Thermal	Steam	Diesel	Gas	Total (Thermal) (4+5+6)	Nuclear	RES	
1	2	3	4	5	6	7	8	9	10	
<b>(i) UTILITIES GROSS ELECTRICAL ENERGY GENERATION</b>										
2019-20	155769.12	994196.99	198.53	48442.64		1042838.16	46472.45	138337.02	1383416.75	
2020-21	150299.52	981443.23	223.54	50944.00		1032610.77	43029.08	147247.51	1373186.88	
% Increase	-3.51	-1.28	12.60	5.16		-0.98	-7.41	6.44	-0.74	
<b>(ii) NON-UTILITIES GROSS ELECTRICAL ENERGY GENERATION (Industries having Capacity 1 MW &amp; above)</b>										
2019-20	348.04	205545.78	1919.32	25443.15		232908.24	0.00	6310.47	239566.75	
2020-21	339.12	193142.60	2504.19	21683.55		217330.34	0.00	7157.94	224827.40	
% Increase	-2.56	-6.03	30.47	-14.78		-6.69	0.00	13.43	-6.15	
<b>(iii) TOTAL GROSS ELECTRICAL ENERGY GENERATION (i+ii)</b>										
2019-20	156117.16	1199742.77	2117.84	73885.79		1275746.40	46472.45	144647.49	1622983.50	
2020-21	150638.64	1174585.83	2727.73	72627.55		1249941.11	43029.08	154405.44	1598014.28	
% Increase	-3.51	-2.10	28.80	-1.70		-2.02	-7.41	6.75	-1.54	

## ALL INDIA GROSS ELECTRICITY GENERATION UTILITIES 2020-21



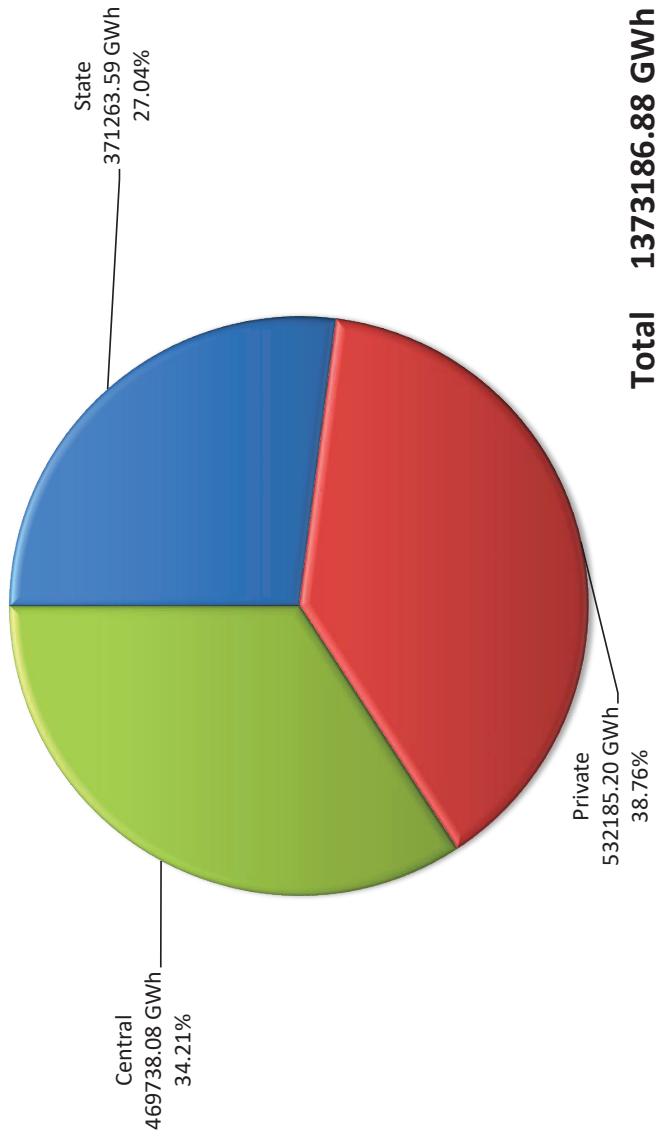


**TABLE 4.2**  
**ALL INDIA GROSS ELECTRICITY GENERATION OWNERSHIP-WISE AND MODE-WISE**  
**UTILITIES**  
**2020-21**

Sl. No.	State/UTs	Gross Electricity Generation (GWh)							
		Hydro	Thermal	Diesel	Gas	Total (Thermal) (3+4+5)	Nuclear	RES	Total (2+6+7+8)
1		2	3	4	5	6	7	8	9
<b>1</b>	<b>Public Sector</b>								
1.1	Elect.Deptt./Govt.Undertakings / Corpn./Joint Ventures	75729.63	270132.22	186.29	20144.60	290463.11	0.00	5070.85	371263.59
1.2	Central Sector	60623.70	347022.17	0.00	16343.62	363365.79	43029.08	2719.51	469738.08
	<b>Sub-total Public Sector</b>	<b>136353.33</b>	<b>617154.39</b>	<b>186.29</b>	<b>36488.22</b>	<b>653828.90</b>	<b>43029.08</b>	<b>7790.36</b>	<b>841001.67</b>
<b>2</b>	<b>Private Sector</b>								
2.1	Private Companies	13946.19	364288.84	37.25	14455.78	378781.87	0.00	139457.14	532185.20
	<b>Sub total Private Sector</b>	<b>13946.19</b>	<b>364288.84</b>	<b>37.25</b>	<b>14455.78</b>	<b>378781.87</b>	<b>0.00</b>	<b>139457.14</b>	<b>532185.20</b>
	<b>Total All India</b>	<b>150299.52</b>	<b>981443.23</b>	<b>223.54</b>	<b>50944.00</b>	<b>1032610.77</b>	<b>43029.08</b>	<b>147247.51</b>	<b>1373186.88</b>

Note: BBMB & DVC Generation is considered under central sector

**ALL INDIA GROSS ELECTRICITY GENERATION SECTORWISE  
UTILITIES  
2020-21**



■ State ■ Private ■ Central

**TABLE 4.3**  
**ALL INDIA GROSS ELECTRICITY GENERATION STATE-WISE**  
**UTILITIES**  
**2020-21**

(GWh)

State/UTs	2019-20	2020-21	% INCREASE
Chandigarh	13.33	10.16	-23.83
Delhi	9406.19	8838.24	-6.04
Haryana	21438.61	18795.96	-12.33
Himachal Pradesh	12602.68	11685.15	-7.28
Jammu & Kashmir	6184.17	5679.90	-8.15
Punjab	37999.91	34768.99	-8.50
Rajasthan	65632.51	67103.40	2.24
Uttar Pradesh	69636.21	72752.14	4.47
Uttarakhand	12440.50	10497.90	-15.62
Central Sector NR	130609.36	126762.60	-2.95
<b>Sub Total (NR)</b>	<b>365963.46</b>	<b>356894.44</b>	<b>-2.48</b>
Chhattisgarh	71515.06	82503.60	15.37
Gujarat	101431.90	99244.17	-2.16
Madhya Pradesh	68895.39	68797.87	-0.14
Maharashtra	125609.85	116856.68	-6.97
Daman & Diu	21.83	40.04	83.46
D. & N. Haveli	6.19	11.96	93.19
Goa	0.82	1.46	0.00
Central Sector WR	122028.47	131634.82	7.87
<b>Sub Total (WR)</b>	<b>489509.51</b>	<b>499090.60</b>	<b>1.96</b>
Andhra Pradesh	66162.86	58101.84	-12.18
Telangana	41829.95	38944.29	-6.90
Karnataka	58714.64	55440.58	-5.58
Kerala	6220.57	7710.99	23.96
Tamil Nadu	60907.68	52372.48	-14.01
Puducherry	259.94	238.54	-8.23
Lakshadweep	53.70	60.43	12.52
Central Sector SR	82475.33	77077.59	-6.54
<b>Sub Total (SR)</b>	<b>316624.68</b>	<b>289946.74</b>	<b>-8.43</b>
Bihar	358.68	226.61	-36.82
Jharkhand	13461.65	13228.84	-1.73
Odisha	25547.21	32385.61	26.77
West Bengal	36922.44	40125.51	8.68
Sikkim	3672.14	3586.15	-2.34
A.& N. Islands	146.01	189.97	30.11
Central Sector ER	113276.55	118675.52	4.77
<b>Sub Total (ER)</b>	<b>193384.67</b>	<b>208418.20</b>	<b>7.77</b>
Arunachal Pradesh	2.23	2.10	-6.18
Assam	1509.16	1377.20	-8.74
Manipur	4.20	7.71	83.42
Meghalaya	1081.02	1208.78	11.82
Mizoram	50.00	33.52	-32.96
Nagaland	75.87	69.77	-8.04
Tripura	713.71	550.27	-22.90
Central Sector NER	14498.22	15587.55	7.51
<b>Sub Total (NER)</b>	<b>17934.42</b>	<b>18836.90</b>	<b>5.03</b>
<b>Central Sector All India</b>	<b>462887.93</b>	<b>469738.08</b>	<b>1.48</b>
<b>Total All India</b>	<b>1383416.75</b>	<b>1373186.88</b>	<b>-0.74</b>

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

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

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

**TABLE 4.4**  
**ALL INDIA GROSS ELECTRICITY GENERATION MODE-WISE/REGION-WISE/STATE-WISE**  
**UTILITIES ONLY**  
**2020-21**

(GWh)

State/UTs	Hydro	Thermal				Nuclear	R E S*	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	10.16	10.16
Delhi	0.00	3769.47	0.00	4642.07	8411.54	0.00	426.70	8838.24
Haryana	1007.53	16703.46	0.00	330.97	17034.43	0.00	754.00	18795.96
Himachal Pradesh	9524.85	0.00	0.00	0.00	0.00	0.00	2160.30	11685.15
Jammu & Kashmir	5240.61	0.00	0.00	0.00	0.00	0.00	439.29	5679.90
Punjab	5294.53	26279.02	0.00	330.97	26609.99	0.00	2864.47	34768.99
Rajasthan	913.65	49724.50	0.00	654.34	50378.84	0.00	15810.91	67103.40
Uttar Pradesh	2634.37	64500.75	0.00	0.00	64500.75	0.00	5617.02	72752.14
Uttarakhand	7704.39	834.69	0.00	721.97	1556.66	0.00	1236.85	10497.90
Central Sector NR	47139.76	64372.10	0.00	3736.90	68109.00	10670.86	842.98	126762.60
<b>Sub Total (NR)</b>	<b>79459.69</b>	<b>226183.99</b>	<b>0.00</b>	<b>10417.22</b>	<b>236601.21</b>	<b>10670.86</b>	<b>30162.68</b>	<b>356894.44</b>
Chhattisgarh	419.19	80450.52	0.00	0.00	80450.52	0.00	1633.89	82503.60
Gujarat	1507.36	63299.31	0.00	17018.83	80318.14	0.00	17418.67	99244.17
Madhya Pradesh	4372.51	56387.49	0.00	0.00	56387.49	0.00	8037.87	68797.87
Maharashtra	6148.06	93134.64	0.00	3389.57	96524.21	0.00	14184.41	116856.68
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	40.04	40.04
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	11.96	11.96
Goa	0.00	0.00	0.00	0.00	0.00	0.00	1.46	1.46
Central Sector WR	4236.17	110279.86	0.00	4432.24	114712.10	11599.58	1086.97	131634.82
<b>Sub Total (WR)</b>	<b>16683.29</b>	<b>403551.82</b>	<b>0.00</b>	<b>24840.64</b>	<b>428392.46</b>	<b>11599.58</b>	<b>42415.27</b>	<b>499090.60</b>
Andhra Pradesh	3562.91	37466.71	0.00	3323.24	40789.95	0.00	13748.98	58101.84
Telangana	3975.85	28049.21	0.00	0.00	28049.21	0.00	6919.23	38944.29
Karnataka	12440.34	15149.91	0.00	0.00	15149.91	0.00	27850.33	55440.58
Kerala	6628.39	0.00	7.83	0.00	7.83	0.00	1074.77	7710.99
Tamil Nadu	5212.71	23555.91	0.00	2264.73	25820.64	0.00	21339.13	52372.48
Puducherry	0.00	0.00	0.00	232.15	232.15	0.00	6.39	238.54
Lakshadweep	0.00	0.00	59.98	0.00	59.98	0.00	0.45	60.43
Central Sector SR	0.00	55481.29	0.00	101.41	55582.70	20758.64	736.25	77077.59
<b>Sub Total (SR)</b>	<b>31820.20</b>	<b>159703.03</b>	<b>67.81</b>	<b>5921.53</b>	<b>165692.37</b>	<b>20758.64</b>	<b>71675.53</b>	<b>289946.74</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	226.61	226.61
Jharkhand	50.00	13152.37	0.00	0.00	13152.37	0.00	26.47	13228.84
Odisha	6393.72	25127.93	0.00	0.00	25127.93	0.00	863.96	32385.61
West Bengal	1759.64	36835.17	0.00	0.00	36835.17	0.00	1530.70	40125.51
Sikkim	3530.19	0.00	0.00	0.00	0.00	0.00	55.96	3586.15
A.& N. Islands	0.00	0.00	155.73	0.00	155.73	0.00	34.24	189.97
Central Sector ER	4744.26	113912.18	0.00	0.00	113912.18	0.00	19.08	118675.52
<b>Sub Total (ER)</b>	<b>16477.81</b>	<b>189027.65</b>	<b>155.73</b>	<b>0.00</b>	<b>189183.38</b>	<b>0.00</b>	<b>2757.01</b>	<b>208418.20</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	2.10	2.10
Assam	203.03	0.00	0.00	1151.28	1151.28	0.00	22.89	1377.20
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	7.71	7.71
Meghalaya	1151.99	0.00	0.00	0.00	0.00	0.00	56.79	1208.78
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	33.52	33.52
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	69.77	69.77
Tripura	0.00	0.00	0.00	540.26	540.26	0.00	10.01	550.27
Central Sector NER	4503.51	2976.74	0.00	8073.07	11049.81	0.00	34.23	15587.55
<b>Sub Total (NER)</b>	<b>5858.53</b>	<b>2976.74</b>	<b>0.00</b>	<b>9764.61</b>	<b>12741.35</b>	<b>0.00</b>	<b>237.02</b>	<b>18836.90</b>
<b>Central Sector All India</b>	<b>60623.70</b>	<b>347022.17</b>	<b>0.00</b>	<b>16343.62</b>	<b>363365.79</b>	<b>43029.08</b>	<b>2719.51</b>	<b>469738.08</b>
<b>Total All India</b>	<b>150299.52</b>	<b>981443.23</b>	<b>223.54</b>	<b>50944.00</b>	<b>1032610.77</b>	<b>43029.08</b>	<b>147247.51</b>	<b>1373186.88</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**  
**MODEWISE**  
**2020-21**

(GWh)

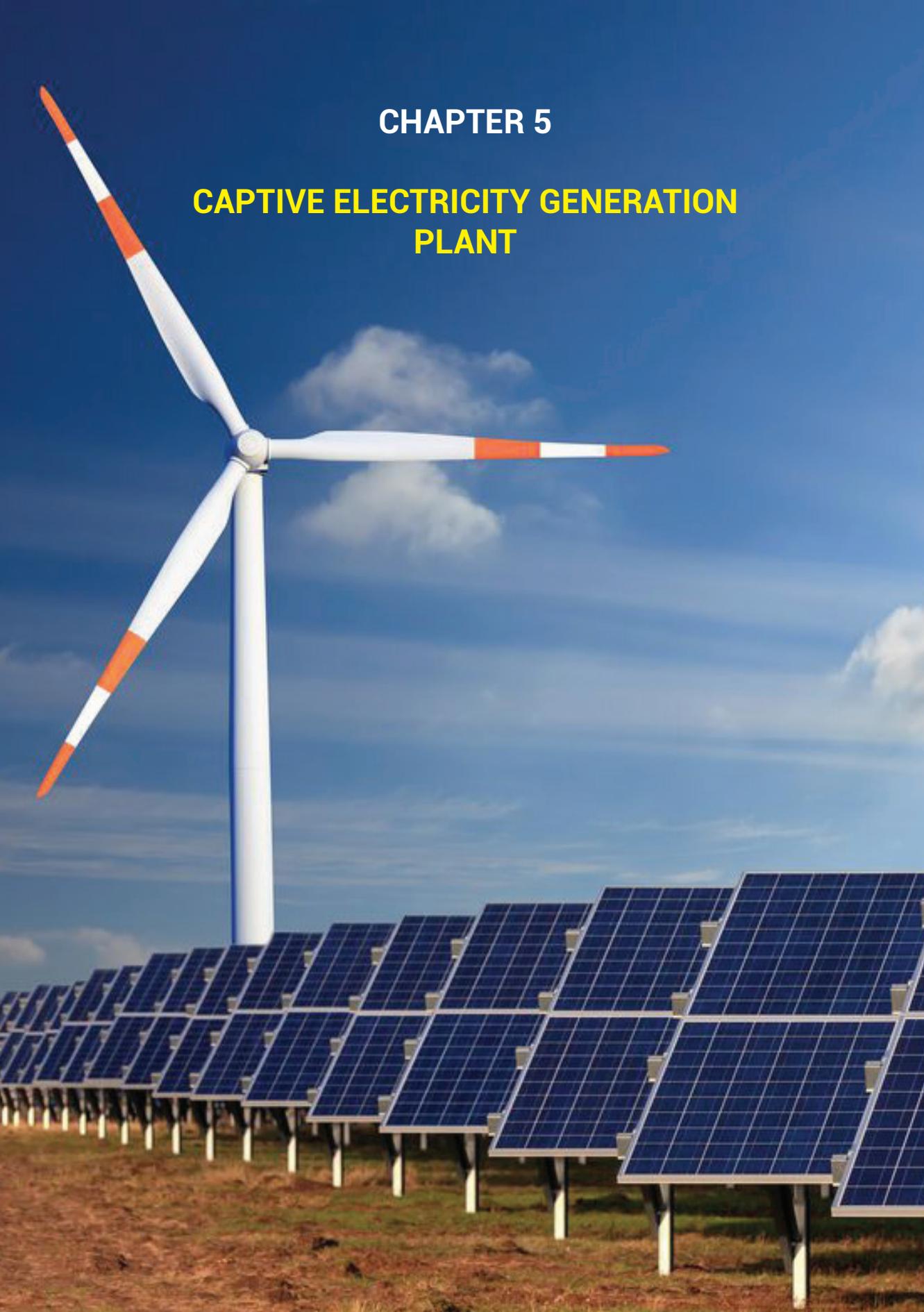
State/UTs	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
<b>ELECTRICITY DEPARTMENTS/GOVERNMENT UNDERTAKINGS/CORPORATIONS/CENTRAL SECTOR</b>								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	4642.07	4642.07	0.00	0.00	4642.07
Haryana	1007.53	5466.82	0.00	330.97	5797.79	0.00	227.02	7032.34
Himachal Pradesh	2071.06	0.00	0.00	0.00	0.00	0.00	582.18	2653.24
Jammu & Kashmir	5240.61	0.00	0.00	0.00	0.00	0.00	302.75	5543.36
Punjab	5294.53	1789.28	0.00	330.97	2120.25	0.00	508.35	7923.13
Rajasthan	913.65	28147.55	0.00	654.34	28801.89	0.00	10.64	29726.18
Uttar Pradesh	2634.37	25797.94	0.00	0.00	25797.94	0.00	164.91	28597.22
Uttarakhand	4487.97	0.00	0.00	0.00	0.00	0.00	260.27	4748.24
Central Sector (NR)	47139.76	64372.10	0.00	3736.90	68109.00	10670.86	842.98	126762.60
<b>Sub Total (NR)</b>	<b>68789.48</b>	<b>125573.69</b>	<b>0.00</b>	<b>9695.25</b>	<b>135268.94</b>	<b>10670.86</b>	<b>2899.10</b>	<b>217628.38</b>
Chhattisgarh	419.19	18234.01	0.00	0.00	18234.01	0.00	21.16	18674.36
Gujarat	1507.36	16756.90	0.00	7823.03	24579.93	0.00	188.64	26275.93
Madhya Pradesh	4372.51	20682.94	0.00	0.00	20682.94	0.00	237.25	25292.70
Maharashtra	4589.07	43773.64	0.00	2007.96	45781.60	0.00	682.98	51053.65
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)	4236.17	110279.86	0.00	4432.24	114712.10	11599.58	1086.97	131634.82
<b>Sub Total (WR)</b>	<b>15124.30</b>	<b>209727.35</b>	<b>0.00</b>	<b>14263.23</b>	<b>223990.58</b>	<b>11599.58</b>	<b>2217.00</b>	<b>252931.46</b>
Andhra Pradesh	3562.91	17933.10	0.00	652.17	18585.27	0.00	117.84	22266.02
Telangana	3975.85	28049.21	0.00	0.00	28049.21	0.00	31.38	32056.44
Karnataka	12440.34	10402.32	0.00	0.00	10402.32	0.00	336.85	23179.51
Kerala	6628.39	0.00	7.83	0.00	7.83	0.00	454.17	7090.39
Tamil Nadu	5212.71	15553.63	0.00	1779.40	17333.03	0.00	244.07	22789.81
Puducherry	0.00	0.00	0.00	232.15	232.15	0.00	0.00	232.15
Lakshadweep	0.00	0.00	59.98	0.00	59.98	0.00	0.00	59.98
Central Sector (SR)	0.00	55481.29	0.00	101.41	55582.70	20758.64	736.25	77077.59
<b>Sub Total (SR)</b>	<b>31820.20</b>	<b>127419.55</b>	<b>67.81</b>	<b>2765.13</b>	<b>130252.49</b>	<b>20758.64</b>	<b>1920.57</b>	<b>184751.90</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	43.20	43.20
Jharkhand	50.00	2237.96	0.00	0.00	2237.96	0.00	9.31	2297.27
Odisha	6393.72	8643.13	0.00	0.00	8643.13	0.00	49.12	15085.97
West Bengal	1759.64	26663.79	0.00	0.00	26663.79	0.00	355.20	28778.63
Sikkim	1813.20	0.00	0.00	0.00	0.00	0.00	55.96	1869.16
A. & N. Islands	0.00	0.00	118.48	0.00	118.48	0.00	14.69	133.17
Central Sector (ER)	4744.26	113912.18	0.00	0.00	113912.18	0.00	19.08	118675.52
<b>Sub Total (ER)</b>	<b>14760.82</b>	<b>151457.06</b>	<b>118.48</b>	<b>0.00</b>	<b>151575.54</b>	<b>0.00</b>	<b>546.56</b>	<b>166882.92</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.45
Assam	203.03	0.00	0.00	1151.28	1151.28	0.00	5.24	1359.55
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	1151.99	0.00	0.00	0.00	0.00	0.00	56.79	1208.78
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	31.07	31.07
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	69.77	69.77
Tripura	0.00	0.00	0.00	540.26	540.26	0.00	9.58	549.84
<b>Central Sector (NER)</b>	<b>4503.51</b>	<b>2976.74</b>	<b>0.00</b>	<b>8073.07</b>	<b>11049.81</b>	<b>0.00</b>	<b>34.23</b>	<b>15587.55</b>
<b>Sub Total (NER)</b>	<b>5858.53</b>	<b>2976.74</b>	<b>0.00</b>	<b>9764.61</b>	<b>12741.35</b>	<b>0.00</b>	<b>207.13</b>	<b>18807.01</b>
<b>Total-I, (All India)</b>	<b>136353.33</b>	<b>617154.39</b>	<b>186.29</b>	<b>36488.22</b>	<b>653828.90</b>	<b>43029.08</b>	<b>7790.36</b>	<b>841001.67</b>

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

**TABLE 4.6**  
**ALL INDIA GROSS ELECTRICITY GENERATION BY PRIVATE SECTOR**  
**MODEWISE**  
**2020-21**

(GWh)

State/UTs	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
<b>PRIVATE SECTOR</b>								
Chandigarh		0.00	0.00	0.00	0.00	0.00	10.16	10.16
Delhi		0.00	3769.47	0.00	0.00	3769.47	0.00	426.70
Haryana		0.00	11236.64	0.00	0.00	11236.64	0.00	526.98
Himachal Pradesh	7453.79	0.00	0.00	0.00	0.00	0.00	1578.12	9031.91
Jammu & Kashmir		0.00	0.00	0.00	0.00	0.00	136.54	136.54
Punjab		0.00	24489.74	0.00	0.00	24489.74	0.00	2356.12
Rajasthan		0.00	21576.95	0.00	0.00	21576.95	0.00	15800.27
Uttar Pradesh		0.00	38702.81	0.00	0.00	38702.81	0.00	5452.12
Uttarakhand	3216.42	834.69	0.00	721.97	1556.66	0.00	976.58	5749.66
Chhattisgarh		0.00	62216.51	0.00	0.00	62216.51	0.00	1612.74
Gujarat		0.00	46542.41	0.00	9195.80	55738.21	0.00	17230.03
Madhya Pradesh		0.00	35704.55	0.00	0.00	35704.55	0.00	7800.61
Maharashtra	1558.99	49361.00	0.00	1381.61	50742.61	0.00	13501.42	65803.02
Daman & Diu		0.00	0.00	0.00	0.00	0.00	40.04	40.04
D. & N. Haveli		0.00	0.00	0.00	0.00	0.00	11.96	11.96
Goa		0.00	0.00	0.00	0.00	0.00	1.46	1.46
Andhra Pradesh		0.00	19533.61	0.00	2671.07	22204.68	0.00	13631.13
Telangana		0.00	0.00	0.00	0.00	0.00	6887.85	6887.85
Karnataka		0.00	4747.59	0.00	0.00	4747.59	0.00	27513.49
Kerala		0.00	0.00	0.00	0.00	0.00	620.61	620.61
TamilNadu		0.00	8002.28	0.00	485.33	8487.61	0.00	21095.06
Puducherry		0.00	0.00	0.00	0.00	0.00	6.39	6.39
Lakshadweep		0.00	0.00	0.00	0.00	0.00	0.45	0.45
Bihar		0.00	0.00	0.00	0.00	0.00	183.40	183.40
Jharkhand		0.00	10914.41	0.00	0.00	10914.41	0.00	17.16
Odisha		0.00	16484.80	0.00	0.00	16484.80	0.00	814.84
West Bengal		0.00	10171.38	0.00	0.00	10171.38	0.00	1175.50
Sikkim	1716.99	0.00	0.00	0.00	0.00	0.00	0.00	1716.99
A.& N. Islands		0.00	0.00	37.25	0.00	37.25	0.00	19.55
Arunachal Pradesh		0.00	0.00	0.00	0.00	0.00	1.65	1.65
Assam		0.00	0.00	0.00	0.00	0.00	17.66	17.66
Manipur		0.00	0.00	0.00	0.00	0.00	7.71	7.71
Meghalaya		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	2.45	2.45
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	0.43	0.43
<b>Total-II, (All India)</b>	<b>13946.19</b>	<b>364288.84</b>	<b>37.25</b>	<b>14455.78</b>	<b>378781.87</b>	<b>0.00</b>	<b>139457.14</b>	<b>532185.20</b>
<b>All India Total (I+II)</b>	<b>150299.52</b>	<b>981443.23</b>	<b>223.54</b>	<b>50944.00</b>	<b>1032610.77</b>	<b>43029.08</b>	<b>147247.51</b>	<b>1373186.88</b>

A photograph of a wind turbine and a solar panel array against a blue sky with white clouds. The wind turbine is on the left, with its blades angled upwards. In the foreground, there is a large field of solar panels arranged in several rows.

## CHAPTER 5

# CAPTIVE ELECTRICITY GENERATION PLANT





## CHAPTER 5

### CAPTIVE ELECTRICITY GENERATION PLANTS

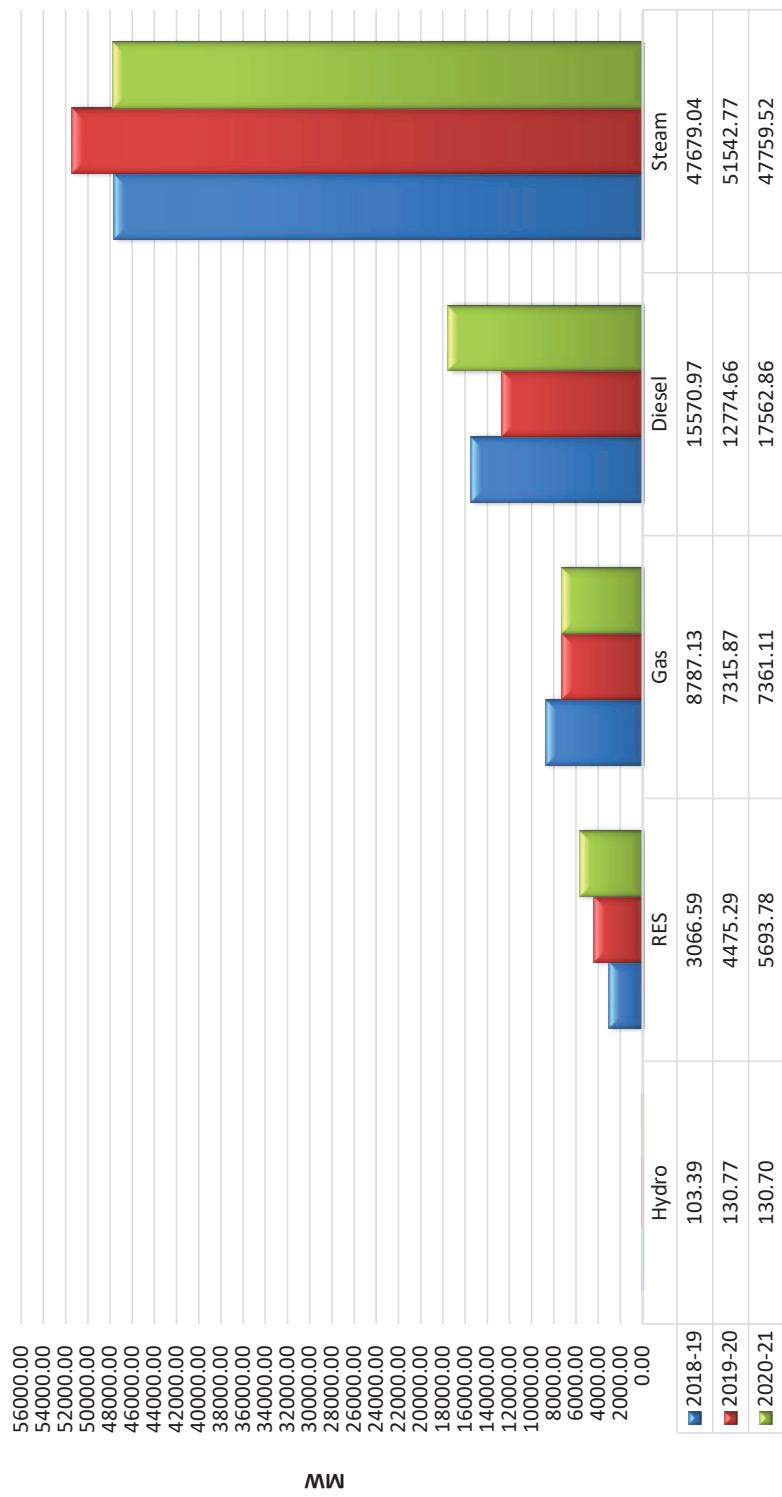
Power intensive Industries such as Aluminium, Cement, Chemicals, Fertilizers, Iron & Steel, Paper and Sugar etc. have started setting up their own captive power plants, either to supplement the electricity purchased from the Utilities, or for emergency use to protect against unreliable grid power such 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 2020-21, Industrial Sector is the largest consumer of energy which has consumed about 41.36% 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 8556 industrial units with demand of 1 MW and above having Captive generation plants. The total installed capacity of such captive generating power plants was 78508 MW as on 31.03.2021. The installed capacity has registered a growth of 2.98% over the total installed captive power plant capacity of 76239 MW as on 31.03.2020. The contribution of Hydro, Steam, Diesel, Gas and Wind & Solar capacity had been 0.17%, 60.83%, 22.37%, 9.38% and 7.25% respectively in the total capacity. The Captive Power Plant generated 224827 GWh during 2020-21 and registered a growth of -6.15% over the generation of 239567 GWh during 2019-20. The contribution of Hydro, Steam, Diesel, Gas and Wind & Solar generation had been 0.15%, 85.91%, 1.11%, 9.64% and 3.18% 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.

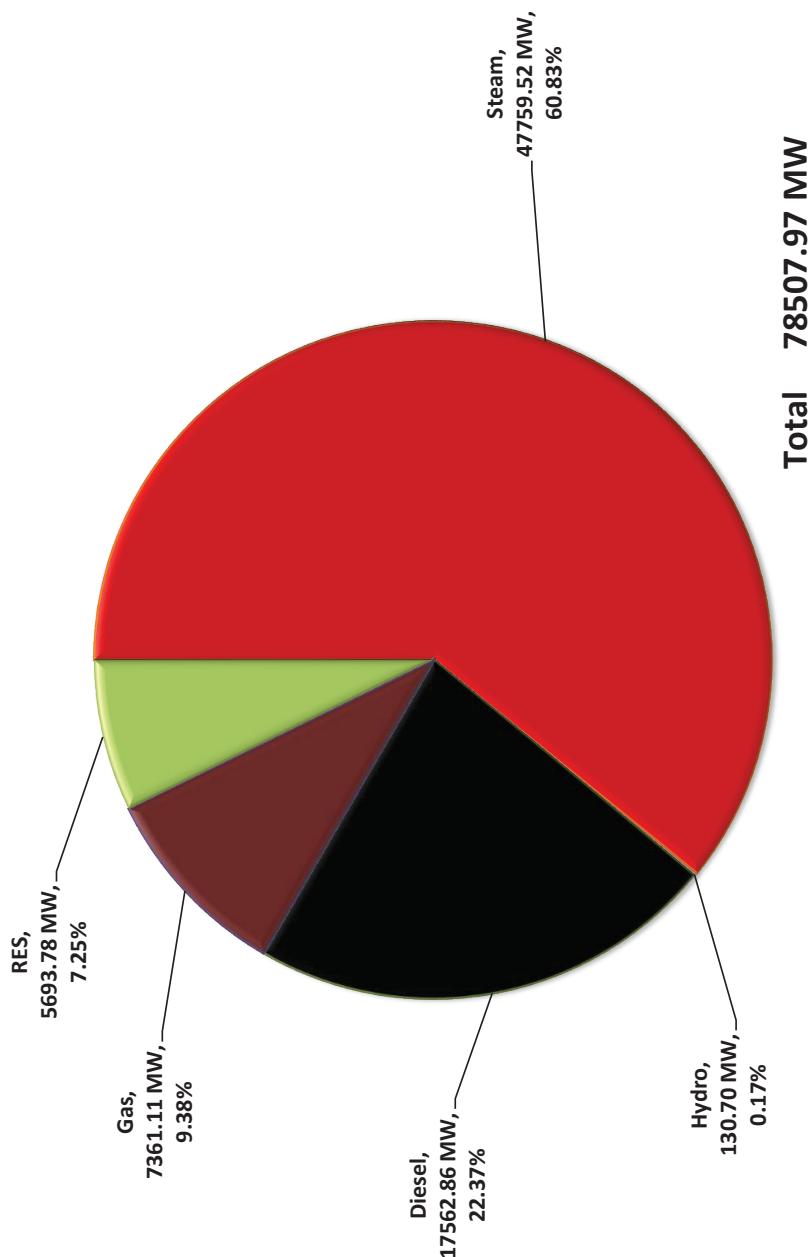
**INSTALLED CAPACITY  
NON-UTILITIES  
2018-19 to 2020-21**



**TABLE 5.1**  
**INDUSTRY-WISE BREAK-UP OF INSTALLED CAPACITY,**  
**ELECTRICITY GENERATION AND CONSUMPTION**  
**2020-21**

Name of Industry	No. of Industries covered	Installed Generating Capacity (MW)	Energy Generation (GWh)	Energy Consumption (GWh)
Aluminium	73	8672.67	55009.32	51653.53
Automobiles	493	1961.44	1181.27	5157.37
Cement	351	7549.57	21045.29	25664.32
Chemical	624	5012.05	12254.10	21075.07
Collieries	22	351.35	40.11	3514.17
Electrical Engineering	243	5585.79	10742.82	6801.24
Fertiliser	65	1247.23	3342.24	4800.81
Food Products	495	1180.76	1086.75	2907.10
Heavy Engineering	143	640.00	767.01	1680.29
Iron & Steel	709	15163.79	56562.64	67706.22
Jute	55	145.75	32.31	491.44
Light Engineering	332	1056.74	1101.64	3850.38
Mineral Oil & Petroleum	229	6712.49	26307.47	28247.85
Mining & Quarrying	78	719.35	2808.90	3469.12
Miscellaneous	1673	5166.15	4719.55	10787.90
Non Ferrous	54	1147.19	4951.48	5846.97
Paper	168	1846.30	6244.28	7097.57
Plastic	72	279.76	745.34	1191.26
Rubber	134	632.55	336.96	2043.60
Sugar	377	5314.91	10591.98	6372.63
Textile	913	4042.91	4455.18	14333.62
Non Industry	1253	4079.22	500.74	4812.57
<b>All India(Non-Utilities)</b>	<b>8556</b>	<b>78507.97</b>	<b>224827.40</b>	<b>279505.05</b>

**INSTALLED CAPACITY  
NON-UTILITIES  
As on 31.03.2021**



**TABLE 5.2**  
**ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2020-21**

(kW)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Colleries	Electrical Engineering	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0	7030	0	0	0	5070	0	0
Delhi	0	0	0	0	0	1020	0	2460
Haryana	11145	772989	41051	110920	0	176502	5330	174499
Himachal Pradesh	0	10570	81378	30523	0	12080	0	19856
Jammu & Kashmir	0	0	0	0	0	0	0	3834
Punjab	2328	109930	32000	39686	0	7590	66118	155243
Rajasthan	3249	118159	1173867	115609	0	46162	0	48922
Uttar Pradesh	928330	36875	103309	40290	0	12140	222742	43308
Uttarakhand	750	62890	4599	51538	0	1880	0	62317
<b>Sub-Total ( NR )</b>	<b>945802</b>	<b>1118444</b>	<b>1436205</b>	<b>388565</b>	<b>0</b>	<b>262444</b>	<b>294190</b>	<b>510438</b>
Chhattisgarh	1452300	0	491416	34600	0	1546690	0	5500
Gujarat	8750	12696	315557	1869027	0	1560642	402090	124995
Madhya Pradesh	0	5652	1896362	508553	0	400068	66731	85016
Maharashtra	42882	233601	971523	495474	0	1074447	173131	13677
Daman & Diu	0	0	0	5643	0	0	0	0
D & N Haveli	2400	0	0	3600	0	14155	0	0
Goa	0	0	272	20060	0	0	0	7200
<b>Sub-Total ( WR )</b>	<b>1506332</b>	<b>251949</b>	<b>3675130</b>	<b>2936957</b>	<b>0</b>	<b>4596002</b>	<b>641952</b>	<b>236388</b>
Andhra Pradesh	11517	0	505796	278857	0	41787	0	80946
Telangana	7317	16349	459848	544254	219000	73400	0	31746
Karnataka	36980	82301	649715	201892	0	71054	0	68794
Kerala	3213	0	3249	80361	11459	33000	3996	4512
Tamil Nadu	149453	491398	582610	311868	0	478886	48172	150948
Puducherry	0	1000	0	46904	0	0	0	4900
Lakshadweep	0	0	0	0	0	0	0	0
<b>Sub-Total ( SR )</b>	<b>208480</b>	<b>591047</b>	<b>2201218</b>	<b>1464135</b>	<b>230459</b>	<b>698127</b>	<b>52168</b>	<b>341846</b>
Bihar	0	0	800	0	0	0	0	6000
Jharkhand	34524	0	24019	60000	79679	0	0	0
Odisha	5976204	0	126318	2885	5500	0	170600	45377
West Bengal	1330	0	43707	79821	35309	29220	58324	26802
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>6012058</b>	<b>0</b>	<b>194844</b>	<b>142706</b>	<b>120488</b>	<b>29220</b>	<b>228924</b>	<b>78179</b>
Arunachal Pradesh	0	0	0	0	0	0	0	0
Assam	0	0	2050	79687	400	0	30000	12209
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>42170</b>	<b>79687</b>	<b>400</b>	<b>0</b>	<b>30000</b>	<b>13906</b>
<b>Total ( All India )</b>	<b>8672672</b>	<b>1961439</b>	<b>7549566</b>	<b>5012051</b>	<b>351347</b>	<b>5585793</b>	<b>1247234</b>	<b>1180756</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**  
**2020-21**

(kW)

State/UTs	Heavy Engineering	Iron & Steel	Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous
	9	10	11	12	13	14	15
Chandigarh	0	9000	0	4053	0	0	47223
Delhi	0	0	0	930	2010	0	2595
Haryana	118363	165543	0	41675	492675	2303	1263737
Himachal Pradesh	0	1260	0	500	2008	0	141916
Jammu & Kashmir	0	1010	0	0	0	0	0
Punjab	14130	58649	0	25116	176918	0	223680
Rajasthan	11508	26159	0	14249	57129	226841	160868
Uttar Pradesh	25205	87889	5888	106107	211558	0	365228
Uttarakhand	6200	3008	0	4000	7382	0	99481
<b>Sub-Total ( N R )</b>	<b>175406</b>	<b>352518</b>	<b>5888</b>	<b>196630</b>	<b>949680</b>	<b>229144</b>	<b>2304727</b>
Chhattisgarh	0	4502002	0	0	12000	117929	28500
Gujarat	33537	600251	0	126788	2727801	1600	346788
Madhya Pradesh	59707	37322	0	1675	272029	3815	60436
Maharashtra	24600	409740	0	73304	703727	0	554341
Daman & Diu	0	0	0	1250	0	0	3700
D & N Haveli	0	0	0	0	2625	0	17465
Goa	3500	102995	0	3497	0	75785	13204
<b>Sub-Total ( W R )</b>	<b>121344</b>	<b>5652310</b>	<b>0</b>	<b>206514</b>	<b>3718182</b>	<b>199129</b>	<b>1024434</b>
Andhra Pradesh	192000	749631	13100	74011	234909	1800	99895
Telangana	6147	28203	0	50034	0	5284	166440
Karnataka	84657	1372471	8000	192225	338290	62407	703742
Kerala	3085	407	0	39326	193780	2400	22545
Tamil Nadu	33848	642795	0	265822	233255	16701	473903
Puducherry	0	7700	0	8385	3600	0	24518
Lakshadweep	0	0	0	0	0	0	0
<b>Sub-Total ( S R )</b>	<b>319737</b>	<b>2801205</b>	<b>21100</b>	<b>629802</b>	<b>1003834</b>	<b>88592</b>	<b>1491042</b>
Bihar	0	0	2240	5250	133525	0	18699
Jharkhand	0	1251862	0	11513	0	90710	7274
Odisha	0	4484728	1610	4750	385820	41376	122288
West Bengal	23517	600113	114910	2284	227620	0	186298
Sikkim	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0
<b>Sub-Total ( E R )</b>	<b>23517</b>	<b>6336703</b>	<b>118760</b>	<b>23797</b>	<b>746965</b>	<b>132086</b>	<b>334559</b>
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	0	5810	0	0	293830	70400	11390
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>293830</b>	<b>70400</b>	<b>11390</b>
<b>Total ( All India )</b>	<b>640004</b>	<b>15163785</b>	<b>145748</b>	<b>1056742</b>	<b>6712490</b>	<b>719350</b>	<b>5166152</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**  
**2020-21**

(kW)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Non Industry	Total (1 to 22)
	16	17	18	19	20	21	22	23
Chandigarh	630	0	0	0	0	1000	19712	93718
Delhi	0	0	0	0	0	0	10104	19119
Haryana	16468	46943	58025	61655	46542	100366	1629105	5335834
Himachal Pradesh	1680	11890	7577	2435	0	104609	0	428281
Jammu & Kashmir	0	0	0	0	0	18712	0	23556
Punjab	1608	168434	784	15196	133618	366554	45818	1643400
Rajasthan	492871	1350	23166	28304	0	310870	5396	2864679
Uttar Pradesh	0	67809	8909	7840	1333043	97001	2397	3705867
Uttarakhand	0	125749	26424	59027	0	21617	5320	542183
<b>Sub-Total ( N R )</b>	<b>513257</b>	<b>422175</b>	<b>124885</b>	<b>174457</b>	<b>1513203</b>	<b>1020730</b>	<b>1717851</b>	<b>14656637</b>
Chhattisgarh	0	7300	0	0	18000	13148	0	8229385
Gujarat	13212	137341	0	71025	63200	531876	0	8947176
Madhya Pradesh	6800	123870	400	19110	53852	233965	0	3835363
Maharashtra	0	241685	48192	14295	916225	91261	0	6082103
Daman & Diu	0	0	0	0	0	808	0	11401
D & N Haveli	5520	2400	0	0	0	32982	0	81147
Goa	0	0	0	11520	0	0	0	238033
<b>Sub-Total ( W R )</b>	<b>25532</b>	<b>512596</b>	<b>48592</b>	<b>115950</b>	<b>1051277</b>	<b>904039</b>	<b>0</b>	<b>27424607</b>
Andhra Pradesh	11358	94909	14500	0	326689	62186	58068	2851958
Telangana	7066	212732	1490	47238	119416	37580	169098	2202641
Karnataka	52365	133090	0	26546	1566949	60098	1107506	6819080
Kerala	21000	25575	0	13399	0	15048	124367	600720
Tamil Nadu	236275	267149	88690	219514	589702	1921535	598781	7801303
Puducherry	0	0	1200	17200	6732	4300	23618	150056
Lakshadweep	0	0	0	0	0	0	0	0
<b>Sub-Total ( S R )</b>	<b>328064</b>	<b>733454</b>	<b>105880</b>	<b>323897</b>	<b>2609488</b>	<b>2100747</b>	<b>2081437</b>	<b>20425759</b>
Bihar	0	0	0	0	124444	0	7246	298204
Jharkhand	6700	0	0	0	0	0	1000	1567280
Odisha	256574	109220	0	16100	14500	0	118844	11882694
West Bengal	425	38854	0	2146	2000	17393	149619	1639692
Sikkim	0	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0	0
<b>Sub-Total ( E R )</b>	<b>263699</b>	<b>148074</b>	<b>0</b>	<b>18246</b>	<b>140944</b>	<b>17393</b>	<b>276708</b>	<b>15387869</b>
Arunachal Pradesh	0	0	0	0	0	0	0	0
Assam	0	30000	400	0	0	0	3225	539401
Manipur	0	0	0	0	0	0	0	0
Meghalaya	16640	0	0	0	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 ( N E R )</b>	<b>16640</b>	<b>30000</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3225</b>	<b>613098</b>
<b>Total ( All India )</b>	<b>1147191</b>	<b>1846299</b>	<b>279757</b>	<b>632550</b>	<b>5314911</b>	<b>4042909</b>	<b>4079222</b>	<b>78507969</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**  
**2020-21**

(GWh)

State/UTs	Heavy Engineering	Iron & Steel	Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous
	9	10	11	12	13	14	15
Chandigarh	0.00	0.00	0.00	0.39	0.00	0.00	0.71
Delhi	0.00	0.00	0.00	0.00	0.16	0.00	0.20
Haryana	3.19	12.54	0.00	0.45	2368.15	0.00	143.83
Himachal Pradesh	0.00	0.00	0.00	0.01	0.69	0.00	13.48
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Punjab	3.76	6.06	0.00	1.30	1008.52	0.00	170.36
Rajasthan	0.49	3.00	0.00	0.97	14.97	1183.18	46.47
Uttar Pradesh	5.73	168.54	0.15	325.90	855.56	0.00	727.77
Uttarakhand	7.13	0.12	0.00	0.35	0.83	0.00	56.83
<b>Sub-Total ( N R )</b>	<b>20.30</b>	<b>190.27</b>	<b>0.15</b>	<b>329.36</b>	<b>4248.88</b>	<b>1183.18</b>	<b>1159.64</b>
Chhattisgarh	0.00	12380.51	0.00	0.00	22.98	501.17	191.30
Gujarat	57.06	1088.93	0.00	81.42	10610.85	0.00	739.19
Madhya Pradesh	3.24	77.42	0.00	0.00	838.89	0.00	61.08
Maharashtra	84.70	1466.62	0.00	91.88	2963.90	0.00	755.39
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	0.08	0.00	0.59
Goa	0.00	434.20	0.00	1.23	0.00	362.40	3.08
<b>Sub-Total ( W R )</b>	<b>145.00</b>	<b>15447.69</b>	<b>0.00</b>	<b>174.53</b>	<b>14436.71</b>	<b>863.57</b>	<b>1750.92</b>
Andhra Pradesh	524.19	3832.35	1.11	268.36	887.21	0.00	156.51
Telangana	1.47	65.15	0.00	21.06	0.00	0.01	94.69
Karnataka	54.79	6661.32	26.67	147.34	1287.02	94.50	635.54
Kerala	1.22	0.00	0.00	0.58	794.22	0.00	27.29
Tamil Nadu	14.01	2124.44	0.00	156.56	777.14	6.00	612.06
Puducherry	0.00	0.01	0.00	1.68	1.41	0.00	5.48
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>595.68</b>	<b>12683.26</b>	<b>27.78</b>	<b>595.57</b>	<b>3747.00</b>	<b>100.51</b>	<b>1531.58</b>
Bihar	0.00	0.00	0.81	0.25	451.93	0.00	2.34
Jharkhand	0.00	6398.43	0.00	1.66	0.00	567.03	1.41
Orissa	0.00	19108.05	0.15	0.22	1517.20	14.79	87.34
West Bengal	6.03	2734.93	3.42	0.04	1038.78	0.00	183.46
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>6.03</b>	<b>28241.42</b>	<b>4.39</b>	<b>2.17</b>	<b>3007.91</b>	<b>581.82</b>	<b>274.56</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	866.98	79.83	2.85
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>866.98</b>	<b>79.83</b>	<b>2.85</b>
<b>Total ( All India )</b>	<b>767.01</b>	<b>56562.64</b>	<b>32.31</b>	<b>1101.64</b>	<b>26307.47</b>	<b>2808.90</b>	<b>4719.55</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**  
**2020-21**

(GWh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Non Industry	Total
	16	17	18	19	20	21	22	23
Chandigarh	0.09	0.00	0.00	0.00	0.00	0.00	3.54	5.09
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.64
Haryana	0.78	43.84	0.00	4.21	128.64	31.94	44.42	3406.43
Himachal Pradesh	0.12	46.37	1.19	0.10	0.00	13.68	0.00	138.37
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	1.04	0.00	1.27
Punjab	0.00	462.96	0.08	1.68	271.39	525.14	1.17	2940.27
Rajasthan	3640.70	0.78	4.71	8.57	0.00	709.48	0.10	10515.78
Uttar Pradesh	0.00	257.93	0.72	2.50	3806.92	144.36	0.19	14195.90
Uttarakhand	0.00	512.56	4.05	159.78	0.00	3.35	0.05	889.53
<b>Sub-Total ( N R )</b>	<b>3641.68</b>	<b>1324.44</b>	<b>10.75</b>	<b>176.85</b>	<b>4206.94</b>	<b>1428.99</b>	<b>49.60</b>	<b>32093.28</b>
Chhattisgarh	0.00	12.30	0.00	0.00	25.71	0.92	0.00	32264.13
Gujarat	0.00	369.61	0.00	58.29	113.20	762.12	0.00	22399.54
Madhya Pradesh	0.12	272.00	0.00	1.22	144.95	621.97	0.00	9878.19
Maharashtra	0.00	979.60	162.00	1.85	1523.69	92.49	0.00	11237.14
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
D & N Haveli	0.46	0.28	0.00	0.00	0.00	15.23	0.00	22.35
Goa	0.00	0.00	0.00	1.00	0.00	0.00	0.00	895.11
<b>Sub-Total ( W R )</b>	<b>0.58</b>	<b>1633.79</b>	<b>162.00</b>	<b>62.37</b>	<b>1807.55</b>	<b>1492.72</b>	<b>0.00</b>	<b>76696.96</b>
Andhra Pradesh	0.54	331.02	111.21	0.00	479.76	48.39	17.78	8914.77
Telangana	0.16	814.08	0.03	0.55	178.57	4.58	26.58	3882.28
Karnataka	241.55	368.51	0.00	1.49	2956.42	85.80	153.98	15191.31
Kerala	34.25	33.03	0.00	0.14	0.00	0.25	56.76	1140.44
Tamil Nadu	18.03	1053.03	461.29	94.53	744.78	1391.53	184.96	11096.56
Puducherry	0.00	0.00	0.04	0.63	0.92	0.00	3.08	138.43
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>294.52</b>	<b>2599.68</b>	<b>572.58</b>	<b>97.33</b>	<b>4360.45</b>	<b>1530.54</b>	<b>443.15</b>	<b>40363.78</b>
Bihar	0.00	0.00	0.00	0.00	202.82	0.00	0.26	658.50
Jharkhand	0.23	0.00	0.00	0.00	0.00	0.00	0.14	7488.91
Orissa	1014.47	464.62	0.00	0.11	14.21	0.00	6.38	61648.12
West Bengal	0.00	86.86	0.00	0.31	0.01	2.92	0.17	4323.92
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>1014.70</b>	<b>551.48</b>	<b>0.00</b>	<b>0.42</b>	<b>217.04</b>	<b>2.92</b>	<b>6.96</b>	<b>74119.45</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	134.89	0.01	0.00	0.00	0.00	1.03	1499.31
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.62
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>134.89</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.03</b>	<b>1553.93</b>
<b>Total ( All India )</b>	<b>4951.48</b>	<b>6244.28</b>	<b>745.34</b>	<b>336.96</b>	<b>10591.98</b>	<b>4455.18</b>	<b>500.74</b>	<b>224827.40</b>

**TABLE 5.4**  
**INDUSTRY-WISE/MODE-WISE ALL INDIA INSTALLED CAPACITY**  
**OF CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE**  
**31.03.2021**

(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	73	0	8346700	160789	70000	59999	35184	8672672
Automobiles	493	0	235957	1148549	184122	208063	184749	1961439
Cement	351	22272	5998781	1196342	96972	164024	71175	7549566
Chemical	624	0	2700544	1360099	501473	91889	358046	5012051
Colleries	22	0	90000	39271	0	222076	0	351347
Electrical Engineering	243	33000	2956915	505375	1399195	335278	356030	5585793
Fertiliser	65	0	460537	66832	543550	108215	68100	1247234
Food Products	495	0	276813	768581	28296	29147	77920	1180756
Heavy Engineering	143	0	200925	284618	27400	50461	76600	640004
Iron & Steel	709	2550	13235566	1210017	541240	36827	137586	15163785
Jute	55	0	5000	136898	2400	1450	0	145748
Light Engineering	332	0	130062	738605	33360	45970	108745	1056742
Mineral Oil & Petroleum	229	0	3094881	260938	3197648	68145	90878	6712490
Mining & Quarrying	78	0	451380	150736	74880	31854	10500	719350
Miscellaneous	1673	4000	1059839	3171945	252138	299272	378959	5166152
Non Ferrous	54	37575	905125	166313	0	22854	15325	1147191
Paper	168	0	1679205	137905	6918	10071	12200	1846299
Plastic	72	0	122592	140919	0	4596	11650	279757
Rubber	134	0	88680	339248	89031	19734	95857	632550
Sugar	377	0	5067490	165670	27080	35547	19125	5314911
Textile	913	31300	651129	1613701	281908	190985	1273886	4042909
Non Industry	1253	0	1400	3799511	3500	166026	108785	4079222
<b>Total</b>	<b>8556</b>	<b>130697</b>	<b>47759520</b>	<b>17562861</b>	<b>7361111</b>	<b>2202480</b>	<b>3491300</b>	<b>78507969</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  
 2020-21**

(GWh)

Name of Industry	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8
Aluminium	0.00	54896.12	2.42	0.21	67.15	43.42	55009.32
Automobiles	0.00	417.73	268.75	202.54	140.31	151.93	1181.27
Cement	70.00	20334.97	79.52	242.28	229.81	88.71	21045.29
Chemical	0.00	9229.20	273.45	1597.97	82.84	1070.63	12254.10
Collieries	0.00	0.00	1.87	0.00	38.24	0.00	40.11
Electrical Engineering	84.00	9286.23	19.48	239.14	404.19	709.77	10742.82
Fertiliser	0.00	1148.68	10.25	1942.42	155.49	85.40	3342.24
Food Products	0.00	820.27	136.39	33.13	27.26	69.70	1086.75
Heavy Engineering	0.00	583.49	8.90	61.68	45.36	67.57	767.01
Iron & Steel	3.50	53971.73	582.88	1779.77	38.62	186.13	56562.64
Jute	0.00	23.45	3.76	3.22	1.89	0.00	32.31
Light Engineering	0.00	641.15	204.64	45.38	44.47	166.00	1101.64
Mineral Oil & Petroleum	0.00	11742.35	29.95	14308.99	72.21	153.98	26307.47
Mining & Quarrying	0.00	2630.64	21.00	82.75	59.04	15.48	2808.90
Miscellaneous	4.58	2749.97	328.38	760.27	327.74	548.61	4719.55
Non Ferrous	88.67	4804.63	3.24	0.00	40.68	14.26	4951.48
Paper	0.00	6151.16	51.00	6.05	6.37	29.70	6244.28
Plastic	0.00	720.83	8.28	0.00	4.43	11.81	745.34
Rubber	0.00	176.27	24.03	52.50	20.38	63.79	336.96
Sugar	0.00	10536.03	6.97	39.23	7.22	2.53	10591.98
Textile	88.37	2270.85	238.44	261.94	240.78	1354.80	4455.18
Non Industry	0.00	6.85	200.56	24.08	203.40	65.85	500.74
<b>Total</b>	<b>339.12</b>	<b>193142.60</b>	<b>2504.19</b>	<b>21683.55</b>	<b>2257.87</b>	<b>4900.06</b>	<b>224827.40</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**  
**2020-21**

(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	4363.32	50646.00	1543.57	49102.43	2551.10	51653.53
Automobile	45.74	1135.52	133.02	1002.50	4154.87	5157.37
Cement	1034.75	20010.54	1300.63	18709.91	6954.41	25664.32
Chemical	745.74	11508.36	374.55	11133.81	9941.26	21075.07
Colleries	0.91	39.21	0.29	38.92	3475.25	3514.17
Electrical Engineering	647.72	10095.10	5605.74	4489.36	2311.88	6801.24
Fertiliser	93.47	3248.77	37.90	3210.87	1589.94	4800.81
Food Products	34.51	1052.24	219.82	832.42	2074.67	2907.10
Heavy Engineering	51.70	715.32	99.72	615.60	1064.70	1680.29
Iron & Steel	5430.71	51131.93	3575.04	47556.89	20149.32	67706.22
Jute	2.30	30.02	0.14	29.87	461.57	491.44
Light Engineering	42.97	1058.67	66.62	992.05	2858.33	3850.38
Mineral Oil & Petroleum	820.32	25487.15	535.57	24951.58	3296.27	28247.85
Mining & Quarrying	130.61	2678.30	521.75	2156.55	1312.57	3469.12
Miscellaneous	190.37	4529.18	1719.02	2810.16	7977.74	10787.90
Non Ferrous	144.28	4807.20	419.38	4387.82	1459.15	5846.97
Paper	447.29	5796.99	80.48	5716.51	1381.05	7097.57
Plastic	73.94	671.40	95.56	575.84	615.42	1191.26
Rubber	15.14	321.82	6.76	315.06	1728.55	2043.60
Sugar	517.60	10074.38	4664.15	5410.23	962.40	6372.63
Textile	96.70	4358.48	262.76	4095.73	10237.89	14333.62
Non Industry	8.80	491.94	73.71	418.23	4394.34	4812.57
<b>Total</b>	<b>14938.87</b>	<b>209888.53</b>	<b>21336.18</b>	<b>188552.35</b>	<b>90952.70</b>	<b>279505.05</b>

**TABLE 5.6**  
**STATE-WISE INSTALLED CAPACITY OF CAPTIVE POWER PLANTS**  
**IN INDUSTRIES HAVING DEMAND OF**  
**1 MW & ABOVE**  
**31.03.2021**

(kW)

State/UTs	No. of Industries Covered	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8	9
Chandigarh	33	0	14400	74489	0	4829	0	93718
Delhi	17	0	0	18719	0	400	0	19119
Haryana	1922	0	374300	4348715	504333	108487	0	5335834
Himachal Pradesh	192	3500	33100	385681	0	6000	0	428281
Jammu & Kashmir	3	0	0	23556	0	0	0	23556
Punjab	416	0	684100	823781	107242	28277	0	1643400
Rajasthan	407	0	1814755	589558	133649	242032	84685	2864679
Uttar Pradesh	270	0	2806363	545739	264405	89360	0	3705867
Uttarakhand	135	0	165300	345460	10149	21273	0	542183
<b>Sub-Total (NR)</b>	<b>3395</b>	<b>3500</b>	<b>5892318</b>	<b>7155698</b>	<b>1019778</b>	<b>500658</b>	<b>84685</b>	<b>14656637</b>
Chhattisgarh	138	22272	7791048	280068	105472	30525	0	8229385
Gujarat	574	2550	4124705	1091431	2938799	140529	649162	8947176
Madhya Pradesh	212	0	2687703	760222	159178	11510	216750	3835363
Maharashtra	414	21000	3867499	726054	777380	350309	339861	6082103
Daman & Diu	7	0	0	11401	0	0	0	11401
D & N Haveli	21	0	8400	66247	6500	0	0	81147
Goa	26	0	84320	70413	83300	0	0	238033
<b>Sub-Total (WR)</b>	<b>1392</b>	<b>45822</b>	<b>18563675</b>	<b>3005836</b>	<b>4070629</b>	<b>532873</b>	<b>1205773</b>	<b>27424607</b>
Andhra Pradesh	321	0	1928618	491785	267140	76806	87609	2851958
Telangana	312	0	1173393	690508	3720	334111	909	2202641
Karnataka	739	27375	3970921	1949478	348715	228376	294215	6819080
Kerala	108	54000	62300	243601	194980	45840	0	600720
Tamil Nadu	1288	0	2843587	2424816	373277	341515	1818109	7801303
Puducherry	66	0	25350	85808	35900	2998	0	150056
Lakshadweep	0	0	0	0	0	0	0	0
<b>Sub-Total (SR)</b>	<b>2834</b>	<b>81375</b>	<b>10004169</b>	<b>5885995</b>	<b>1223732</b>	<b>1029645</b>	<b>2200842</b>	<b>20425759</b>
Bihar	47	0	225500	26796	41280	4628	0	298204
Jharkhand	57	0	1405120	115411	40000	6749	0	1567280
Odisha	432	0	10782680	713047	316500	70467	0	11882694
West Bengal	316	0	713948	588994	296828	39921	0	1639692
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>852</b>	<b>0</b>	<b>13127248</b>	<b>1444247</b>	<b>694608</b>	<b>121765</b>	<b>0</b>	<b>15387869</b>
Arunachal Pradesh	0	0	0	0	0	0	0	0
Assam	72	0	133310	36188	352364	17539	0	539401
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>83</b>	<b>0</b>	<b>172110</b>	<b>71085</b>	<b>352364</b>	<b>17539</b>	<b>0</b>	<b>613098</b>
<b>Total (All India)</b>	<b>8556</b>	<b>130697</b>	<b>47759520</b>	<b>17562861</b>	<b>7361111</b>	<b>2202480</b>	<b>3491300</b>	<b>78507969</b>

**TABLE 5.7**  
**STATE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION BY CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF**  
**1 MW & ABOVE**  
**2020-21**

(GWh)

ENERGY GENERATED							
State/UTs	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8
Chandigarh	0.00	0.10	0.62	0.00	4.37	0.00	5.09
Delhi	0.00	0.00	0.22	0.00	0.42	0.00	0.64
Haryana	0.00	1282.33	193.39	1854.67	76.04	0.00	3406.43
Himachal Pradesh	11.39	93.34	27.24	0.00	6.40	0.00	138.37
Jammu & Kashmir	0.00	0.00	1.27	0.00	0.00	0.00	1.27
Punjab	0.00	2358.60	93.30	461.81	26.56	0.00	2940.27
Rajasthan	0.00	9721.92	26.38	337.31	327.10	103.07	10515.78
Uttar Pradesh	0.00	12246.21	539.87	1361.55	48.27	0.00	14195.90
Uttarakhand	0.00	798.13	46.30	24.68	20.43	0.00	889.53
<b>Sub-Total(NR)</b>	<b>11.39</b>	<b>26500.63</b>	<b>928.60</b>	<b>4040.03</b>	<b>509.58</b>	<b>103.07</b>	<b>32093.28</b>
Chhattisgarh	70.00	31408.41	465.22	257.23	63.27	0.00	32264.13
Gujarat	3.50	14032.25	191.71	6627.34	73.60	1471.16	22399.54
Madhya Pradesh	0.00	8841.56	37.06	479.99	15.63	503.95	9878.19
Maharashtra	51.04	8366.91	58.65	1724.23	525.47	510.83	11237.14
Daman & Diu	0.00	0.00	0.50	0.00	0.00	0.00	0.50
D & N Haveli	0.00	18.80	3.52	0.03	0.00	0.00	22.35
Goa	0.00	438.40	6.56	450.16	0.00	0.00	895.11
<b>Sub-Total(WR)</b>	<b>124.54</b>	<b>63106.32</b>	<b>763.21</b>	<b>9538.97</b>	<b>677.97</b>	<b>2485.94</b>	<b>76696.96</b>
Andhra Pradesh	0.00	7822.17	24.86	900.16	94.58	73.00	8914.77
Telangana	0.00	3632.58	67.59	0.34	180.49	1.28	3882.28
Karnataka	84.94	12876.16	168.07	1440.86	301.18	320.10	15191.31
Kerala	118.25	113.47	35.07	817.64	56.01	0.00	1140.44
Tamil Nadu	0.00	7936.17	382.43	567.72	293.55	1916.68	11096.56
Puducherry	0.00	4.44	7.98	123.43	2.58	0.00	138.43
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total(SR)</b>	<b>203.19</b>	<b>32385.00</b>	<b>686.00</b>	<b>3850.14</b>	<b>928.40</b>	<b>2311.06</b>	<b>40363.78</b>
Bihar	0.00	376.14	1.51	278.53	2.31	0.00	658.50
Jharkhand	0.00	7286.92	18.01	180.40	3.57	0.00	7488.91
Odisha	0.00	60199.61	51.23	1311.42	85.86	0.00	61648.12
West Bengal	0.00	2831.81	31.97	1424.86	35.29	0.00	4323.92
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>70694.49</b>	<b>102.72</b>	<b>3195.21</b>	<b>127.03</b>	<b>0.00</b>	<b>74119.45</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	419.57	5.64	1059.20	14.90	0.00	1499.31
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	36.60	18.02	0.00	0.00	0.00	54.62
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>456.17</b>	<b>23.66</b>	<b>1059.20</b>	<b>14.90</b>	<b>0.00</b>	<b>1553.93</b>
<b>Total (All India)</b>	<b>339.12</b>	<b>193142.60</b>	<b>2504.19</b>	<b>21683.55</b>	<b>2257.87</b>	<b>4900.06</b>	<b>224827.40</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**  
**2020-21**

(GWH)

State/UTs	Auxiliary Consumption	Net Generation (8-9)	Export to Utilities	Energy used in the industry out of self Gen (10-11)	Import from Utilities	Energy consumed in the industry (12+13)
9	10	11	12	13	14	
Chandigarh	0.03	5.07	0.56	4.51	52.98	57.49
Delhi	0.00	0.64	0.00	0.64	65.99	66.63
Haryana	3.23	3403.20	18.39	3384.81	3286.54	6671.35
Himachal Pradesh	1.16	137.22	0.61	136.61	2028.83	2165.44
Jammu & Kashmir	0.00	1.27	0.00	1.27	178.28	179.55
Punjab	18.91	2921.36	301.50	2619.86	2736.41	5356.27
Rajasthan	24.28	10491.51	1135.75	9355.75	3987.50	13343.25
Uttar Pradesh	98.55	14097.35	2045.33	12052.02	2329.36	14381.37
Uttarakhand	20.13	869.40	1.44	867.96	2086.74	2954.71
<b>Sub-Total(NR)</b>	<b>166.28</b>	<b>31927.00</b>	<b>3503.57</b>	<b>28423.43</b>	<b>16752.63</b>	<b>45176.06</b>
Chhattisgarh	2301.05	29963.08	5055.48	24907.60	1551.34	26458.94
Gujarat	1032.14	21367.40	406.48	20960.92	8623.51	29584.43
Madhya Pradesh	259.43	9618.76	38.48	9580.28	4691.31	14271.59
Maharashtra	497.99	10739.15	2498.94	8240.21	9177.61	17417.82
Daman & Diu	0.00	0.50	0.00	0.50	39.00	39.50
D & N Haveli	0.00	22.35	0.00	22.35	1478.73	1501.08
Goa	11.90	883.21	221.00	662.21	225.15	887.36
<b>Sub-Total(WR)</b>	<b>4102.51</b>	<b>72594.45</b>	<b>8220.39</b>	<b>64374.06</b>	<b>25786.65</b>	<b>90160.71</b>
Andhra Pradesh	693.81	8220.96	562.61	7658.35	5350.38	13008.73
Telangana	322.98	3559.31	550.28	3009.03	4609.90	7618.92
Karnataka	1172.97	14018.34	2566.77	11451.57	7660.67	19112.24
Kerala	43.68	1096.75	181.43	915.32	1689.29	2604.61
Tamil nadu	753.49	10343.07	2781.84	7561.23	10937.07	18498.30
Puducherry	5.65	132.78	0.51	132.27	763.16	895.44
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total(SR)</b>	<b>2992.57</b>	<b>37371.21</b>	<b>6643.44</b>	<b>30727.77</b>	<b>31010.47</b>	<b>61738.24</b>
Bihar	67.35	591.14	85.31	505.83	105.54	611.37
Jharkhand	897.95	6590.96	292.92	6298.04	4159.35	10457.39
Odisha	6126.74	55521.39	2432.72	53088.67	5892.69	58981.36
West Bengal	448.48	3875.44	130.24	3745.20	6678.67	10423.87
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>7540.51</b>	<b>66578.93</b>	<b>2941.19</b>	<b>63637.74</b>	<b>16836.24</b>	<b>80473.98</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00
Assam	132.10	1367.21	27.60	1339.62	236.93	1576.55
Manipur	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	4.89	49.73	0.00	49.73	329.78	379.50
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>136.99</b>	<b>1416.94</b>	<b>27.60</b>	<b>1389.34</b>	<b>566.71</b>	<b>1956.05</b>
<b>Total (All India)</b>	<b>14938.87</b>	<b>209888.53</b>	<b>21336.18</b>	<b>188552.35</b>	<b>90952.70</b>	<b>279505.05</b>

**TABLE 5.8**  
**ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2020-21**

State/UTs	Aluminium	Automobiles	Cement	Chemical	Colleries	Electrical Engineering	Fertiliser	Food Products	(GWh)
	1	2	3	4	5	6	7	8	
Chandigarh	0.00	3.38	0.00	0.00	0.00	2.02	0.00	0.00	
Delhi	0.00	0.00	0.00	0.00	0.00	0.05	0.00	32.42	
Haryana	0.00	1051.74	207.91	227.17	0.00	14.29	0.00	181.45	
Himachal Pradesh	0.00	24.60	697.14	103.57	0.00	55.17	0.00	95.53	
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.45	
Punjab	8.64	309.10	133.44	160.75	0.00	12.27	157.94	361.40	
Rajasthan	8.08	312.78	4664.12	652.35	0.00	142.79	0.00	150.55	
Uttar Pradesh	6387.64	107.60	527.34	178.47	0.00	7.93	999.34	115.93	
Uttarakhand	0.02	133.33	85.87	293.64	0.00	0.00	0.00	180.97	
<b>Sub-Total ( N R )</b>	<b>6404.38</b>	<b>1942.53</b>	<b>6315.81</b>	<b>1615.94</b>	<b>0.00</b>	<b>234.53</b>	<b>1157.29</b>	<b>1126.69</b>	
Chhattisgarh	9058.00	0.00	2169.70	95.14	0.00	2771.21	0.00	11.97	
Gujarat	272.10	57.98	1563.10	8265.79	0.00	592.24	1445.59	554.56	
Madhya Pradesh	0.00	739.04	6335.14	2017.13	0.00	1186.23	254.76	194.53	
Maharashtra	151.57	583.92	544.56	2080.65	0.00	585.10	937.95	73.84	
Daman & Diu	0.00	0.00	0.00	22.61	0.00	0.00	0.00	0.00	
D & N Haveli	13.59	0.00	0.00	31.77	0.00	83.27	0.00	0.00	
Goa	0.00	0.00	6.30	104.94	0.00	0.00	0.00	31.20	
<b>Sub-Total ( W R )</b>	<b>9495.26</b>	<b>1380.94</b>	<b>10618.79</b>	<b>12618.02</b>	<b>0.00</b>	<b>5218.04</b>	<b>2638.30</b>	<b>866.10</b>	
Andhra Pradesh	32.66	0.00	2420.37	1710.70	0.00	6.07	0.00	194.51	
Telangana	42.60	66.83	1662.43	1412.36	705.43	787.56	0.00	79.61	
Karnataka	38.81	171.45	1687.92	756.26	0.00	56.05	0.00	88.47	
Kerala	101.19	0.00	45.09	501.51	14.11	121.61	23.65	12.86	
Tamil Nadu	35.52	1591.91	1485.57	1224.10	0.00	206.69	276.44	401.26	
Puducherry	0.00	3.71	0.00	336.49	0.00	0.00	0.00	28.88	
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Sub-Total ( S R )</b>	<b>250.78</b>	<b>1833.90</b>	<b>7301.39</b>	<b>5941.41</b>	<b>719.54</b>	<b>1177.98</b>	<b>300.09</b>	<b>805.60</b>	
Bihar	0.00	0.00	65.81	0.00	0.00	0.00	0.00	1.49	
Jharkhand	81.69	0.00	254.36	221.44	1586.13	0.00	0.00	0.00	
Odisha	35416.01	0.00	640.14	127.40	350.78	0.00	556.56	9.35	
West Bengal	5.41	0.00	240.08	221.95	846.02	170.70	63.91	84.82	
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>35503.11</b>	<b>0.00</b>	<b>1200.38</b>	<b>570.79</b>	<b>2782.93</b>	<b>170.70</b>	<b>620.47</b>	<b>95.65</b>	
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Assam	0.00	0.00	68.26	328.91	11.70	0.00	84.66	10.16	
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Meghalaya	0.00	0.00	159.68	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>227.95</b>	<b>328.91</b>	<b>11.70</b>	<b>0.00</b>	<b>84.66</b>	<b>13.05</b>	
<b>Total ( All India )</b>	<b>51653.53</b>	<b>5157.37</b>	<b>25664.32</b>	<b>21075.07</b>	<b>3514.17</b>	<b>6801.24</b>	<b>4800.81</b>	<b>2907.10</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**  
**2020-21**

(GWh)

State/UTs	Heavy Engineering	Iron & Steel	Jute	Light Engineering	Mineral Oil & Petroleum	Mining & Quarrying	Miscellaneous
	9	10	11	12	13	14	15
Chandigarh	0.00	0.00	0.00	0.78	0.00	0.00	31.33
Delhi	0.00	0.00	0.00	1.24	7.68	0.00	9.53
Haryana	47.77	776.92	0.00	11.60	2427.52	0.00	903.12
Himachal Pradesh	0.00	4.99	0.00	1.06	1.37	0.00	446.05
Jammu & Kashmir	0.00	5.02	0.00	0.00	0.00	0.00	0.00
Punjab	50.76	538.70	0.00	44.01	1052.09	0.00	369.07
Rajasthan	6.10	254.86	0.00	4.30	49.50	1119.88	368.33
Uttar Pradesh	42.23	384.97	2.29	371.58	1232.20	0.00	884.68
Uttarakhand	35.64	580.11	0.00	7.78	8.43	0.00	455.58
<b>Sub-Total ( N R )</b>	<b>182.50</b>	<b>2545.58</b>	<b>2.29</b>	<b>442.35</b>	<b>4778.80</b>	<b>1119.88</b>	<b>3467.69</b>
Chhattisgarh	0.00	11550.91	0.00	0.00	22.09	524.27	193.93
Gujarat	145.76	1873.06	0.00	312.12	10557.22	2.33	1610.47
Madhya Pradesh	227.47	127.93	0.00	0.95	916.64	16.35	187.91
Maharashtra	73.90	4576.03	0.00	403.98	3909.63	0.00	1297.37
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	517.08	0.00	117.55
Goa	4.18	266.70	0.00	15.21	0.00	345.54	20.29
<b>Sub-Total ( W R )</b>	<b>451.31</b>	<b>18394.63</b>	<b>0.00</b>	<b>734.05</b>	<b>15922.66</b>	<b>888.49</b>	<b>3442.12</b>
Andhra Pradesh	467.77	4390.33	38.49	621.17	724.21	0.26	303.73
Telangana	43.48	221.13	0.00	143.79	0.00	71.96	411.34
Karnataka	177.17	8576.21	35.71	772.01	1320.19	233.27	849.34
Kerala	30.26	10.30	0.00	106.62	856.10	155.72	52.50
Tamil Nadu	145.63	1878.46	0.00	718.57	781.35	17.91	933.79
Puducherry	0.00	209.84	0.00	26.35	27.24	0.00	77.91
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>864.31</b>	<b>15286.28</b>	<b>74.20</b>	<b>2388.51</b>	<b>3709.09</b>	<b>479.10</b>	<b>2628.62</b>
Bihar	0.00	0.00	8.11	0.25	385.34	0.00	11.52
Jharkhand	0.00	7260.20	0.00	262.13	0.00	693.49	80.28
Odisha	0.00	18499.95	1.73	18.67	1424.39	214.12	179.52
West Bengal	182.17	5608.52	405.11	4.41	1150.66	0.00	950.72
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>182.17</b>	<b>31368.68</b>	<b>414.95</b>	<b>285.46</b>	<b>2960.39</b>	<b>907.61</b>	<b>1222.04</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	876.92	74.04	27.43
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	111.04	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>111.04</b>	<b>0.00</b>	<b>0.00</b>	<b>876.92</b>	<b>74.04</b>	<b>27.43</b>
<b>Total ( All India )</b>	<b>1680.29</b>	<b>67706.22</b>	<b>491.44</b>	<b>3850.38</b>	<b>28247.85</b>	<b>3469.12</b>	<b>10787.90</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**  
**2020-21**

(GWh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Non Industry	Total
	16	17	18	19	20	21	22	23
Chandigarh	0.09	0.00	0.00	0.00	0.00	0.00	19.89	57.49
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	15.70	66.63
Haryana	8.54	67.24	0.00	120.32	131.38	94.90	399.48	6671.35
Himachal Pradesh	10.51	56.17	69.82	7.43	0.00	592.01	0.00	2165.44
Jammu & Kashmir	0.00	0.00	0.00	0.00	0.00	166.08	0.00	179.55
Punjab	4.26	572.29	8.75	35.03	130.30	1367.30	40.16	5356.27
Rajasthan	3775.95	1.71	85.81	112.90	0.00	1622.71	10.55	13343.25
Uttar Pradesh	0.00	267.84	43.44	32.92	2427.73	356.45	10.81	14381.37
Uttarakhand	0.00	646.06	119.25	310.58	0.00	94.49	2.96	2954.71
<b>Sub-Total ( N R )</b>	<b>3799.36</b>	<b>1611.31</b>	<b>327.06</b>	<b>619.17</b>	<b>2689.41</b>	<b>4293.94</b>	<b>499.54</b>	<b>45176.06</b>
Chhattisgarh	0.00	11.56	0.00	0.00	24.82	25.34	0.00	26458.94
Gujarat	0.00	487.33	0.00	68.39	68.62	1707.77	0.00	29584.43
Madhya Pradesh	6.92	499.38	0.03	40.52	148.65	1372.02	0.00	14271.59
Maharashtra	0.00	1037.55	148.90	127.21	507.18	378.48	0.00	17417.82
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.50	0.00	39.50
D & N Haveli	71.66	13.33	0.00	0.00	0.00	652.83	0.00	1501.08
Goa	0.00	0.00	0.00	93.00	0.00	0.00	0.00	887.36
<b>Sub-Total ( W R )</b>	<b>78.58</b>	<b>2049.15</b>	<b>148.93</b>	<b>329.12</b>	<b>749.27</b>	<b>4136.94</b>	<b>0.00</b>	<b>90160.71</b>
Andhra Pradesh	261.06	366.17	166.94	0.00	652.64	476.66	175.00	13008.73
Telangana	64.31	835.30	13.04	195.05	112.42	354.96	395.31	7618.92
Karnataka	164.09	384.18	0.00	43.44	1450.48	198.89	2108.30	19112.24
Kerala	62.53	144.90	0.00	128.95	0.00	63.80	172.93	2604.61
Tamil Nadu	51.94	1084.70	527.98	617.84	555.36	4743.72	1219.55	18498.30
Puducherry	0.00	0.00	4.63	83.68	4.00	8.67	84.02	895.44
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>603.93</b>	<b>2815.24</b>	<b>712.60</b>	<b>1068.97</b>	<b>2774.90</b>	<b>5846.69</b>	<b>4155.10</b>	<b>61738.24</b>
Bihar	0.00	0.00	0.00	0.00	138.51	0.00	0.34	611.37
Jharkhand	10.96	0.00	0.00	0.00	0.00	0.00	6.70	10457.39
Odisha	992.17	448.95	0.00	14.40	14.12	0.00	73.10	58981.36
West Bengal	256.09	85.63	0.00	11.94	6.42	56.04	73.27	10423.87
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>1259.22</b>	<b>534.58</b>	<b>0.00</b>	<b>26.34</b>	<b>159.05</b>	<b>56.04</b>	<b>153.41</b>	<b>80473.98</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	87.29	2.67	0.00	0.00	0.00	4.52	1576.55
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	105.88	0.00	0.00	0.00	0.00	0.00	0.00	379.50
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>105.88</b>	<b>87.29</b>	<b>2.67</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.52</b>	<b>1956.05</b>
<b>Total ( All India )</b>	<b>5846.97</b>	<b>7097.57</b>	<b>1191.26</b>	<b>2043.60</b>	<b>6372.63</b>	<b>14333.62</b>	<b>4812.57</b>	<b>279505.05</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	7449	17273993	22.00	10687.50	4.75
10.00MW & Upto 20.00 MW	472	6858661	8.74	11163.01	4.97
20.00MW & Upto 30.00 MW	206	5156791	6.57	12300.48	5.47
30.00MW & Upto 40.00 MW	109	3861316	4.92	9280.29	4.13
40.00MW & Upto 50.00 MW	72	3309180	4.22	11135.58	4.95
50.00MW & Upto 100.00 MW	156	11253708	14.33	37864.21	16.84
Over 100.00MW	92	30794320	39.22	132396	58.89
<b>Total</b>	<b>8556</b>	<b>78507969</b>	<b>100.00</b>	<b>224827.40</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)

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

@ 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
1985-86	18.29	10226.83	2350.92	401.31	42.97	13040.32

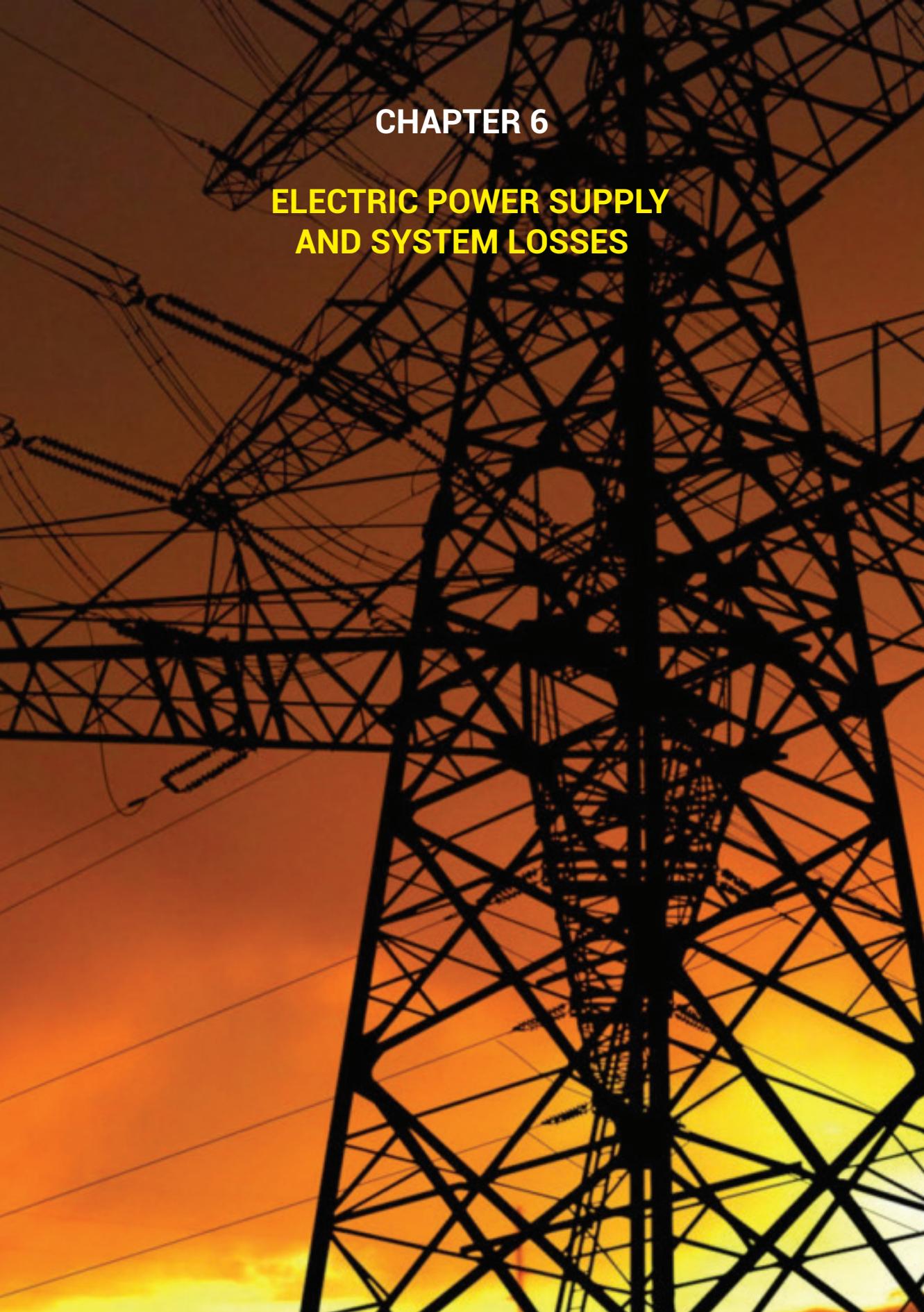
**TABLE 5.11**  
**GROWTH OF ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 1MW & ABOVE**

(GWh)

Year Ending	Hydro	Steam	Diesel @	Gas	Railways	Total
1986-87	18.09	10910.02	2258.28	341.79	36.60	13564.78
1987-88	18.09	13737.16	2595.97	504.22	35.10	16890.54
1988-89	16.45	16314.23	2686.13	864.13	30.51	19911.45
1989-90	15.83	19110.46	2757.27	1313.29	29.07	23225.92
1990-91	14.89	20005.67	3216.27	1844.98	28.82	25110.63
1991-92	17.57	23409.35	3247.81	1905.24	22.52	28602.49
1992-93	16.54	24679.89	3828.01	2803.31	23.76	31351.51
1993-94	14.89	25413.58	3684.64	3149.48	22.45	32285.04
1994-95	14.89	27387.92	4234.01	3407.04	22.70	35066.56
1995-96	17.39	28751.69	4796.89	4576.25	23.85	38166.07
1996-97	28.84	29127.94	6619.01	5039.22	25.07	40840.08
1997-98	78.84	30683.70	7512.43	5775.66	26.96	44077.59
1998-99	80.38	31198.19	8202.80	8871.96	26.20	48379.53
1999-00	98.36	34813.90	10552.89	9932.01	0.00	55397.16
2000-01	99.85	40256.24	11499.53	7782.34	0.00	59637.96
2001-02	116.59	41853.85	10875.19	8835.19	0.00	61680.82
2002-03	90.32	42229.66	11331.76	10198.16	0.00	63849.90
2003-04	97.49	39610.29	13590.96	14874.38	0.00	68173.12
2004-05	112.77	44016.99	12234.81	15052.05	0.00	71416.62
2005-06	236.47	46264.87	12473.64	14664.72	0.00	73639.70
2006-07	217.81	56184.03	10190.73	15207.18	0.00	81799.75
2007-08	202.21	53568.52	11121.38	25584.58	0.00	90476.69
2008-09	146.01	73626.49	10642.57	15306.09	0.00	99721.16
2009-10	151.78	77416.34	8826.27	19738.71	0.00	106133.10
2010-11	148.79	96657.13	8675.82	15435.17	0.00	120916.91
2011-12	131.28	104862.65	7422.48	21971.57	0.00	134387.98
2012-13	118.18	113166.95	9955.64	20768.88	0.00	144009.65
2013-14	129.06	118178.44	10769.08	19911.64	0.00	148988.23
2014-15	144.69	128401.06	12376.00	21135.25	0.00	162057.00
2015-16	110.09	136720.54	10458.24	21083.29	0.00	168372.16
2016-17	143.64	137588.31	11458.76	22855.31	0.00	172046.03
2017-18	112.48	143867.68	10435.06	25362.17	0.00	179777.39
2018-19	270.04	184250.36	9008.25	19545.09	0.00	213073.73
2019-20	348.04	205545.78	8229.79	25443.15	0.00	239566.75
2020-21	339.12	193142.60	9662.13	21683.55	0.00	224827.40

@ Includes RES

\*Breakup not available

A photograph of a tall, lattice-structured electrical pylon. The pylon is silhouetted against a vibrant orange and yellow sunset sky. Multiple power lines extend from the top of the pylon, creating a complex web of lines against the warm colors of the sky.

# CHAPTER 6

## ELECTRIC POWER SUPPLY AND SYSTEM LOSSES





## CHAPTER 6

### ELECTRIC POWER SUPPLY AND SYSTEM LOSSES

During the year 2020-21 gross electricity generation (utilities) was 1373186.88 GWh, out of which 80472.24 GWh representing 5.86% of gross generation was consumed in power station auxiliaries. Thus net generation available at the bus-bar was 1292714.64 GWh. Electricity purchased by public utilities from captive power plants was 21336.18 GWh and electricity imported from Bhutan was 9547.70 GWh. Thus the total electricity available for supply during the year was 1323598.52 GWh as compared to 1332538.74 GWh during the year 2019-20.

Electricity sold to various classes of consumers during the year 2020-21 was 1041655.63 GWh and electricity exported outside the country i.e. to Nepal, Bangladesh and Myanmar was 9573.55 GWh. The electricity lost in transformation, transmission and distribution system and electricity unaccounted worked out to 272369.34 GWh representing 20.73% of the total available electricity. Amongst all the regions percentage system losses were maximum in North-Eastern Region i.e. 29.86%. This was followed by Northern Region with 23.52%, Eastern Region 22.72%, Western Region with 21.81% and Southern Region with 14.86% 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**  
**2020-21**

Sl. No.	Item	Energy (GWh)	Percentage (%) of Sl. 1
1	Gross Energy Generated (Utilities)	1373186.88	100.00
2	Energy Used in Power Station Auxiliaries	80472.24	5.86
3	Net Energy at bus bars (1-2)	1292714.64	94.14
		<b>Percentage (%) of sl. 4</b>	
4	Energy at bus bars (same as 3)	1292714.64	100.00
5	Energy purchased from Non-Utilities	21336.18	1.65
6	Energy Imported from other country	9547.70	0.74
7	Total Energy Available (4+5+6)	1323598.52	102.39
8	Energy sold to other countries	9573.55	0.74
9	Net Energy Available for Supply (7-8)	1314024.97	101.65
		<b>Percentage (%) of sl. 10</b>	
10	Net Energy available for supply (same as 9)	1314024.97	100.00
11	*Energy sold to ultimate consumers	1041655.63	79.27
12	Energy loss in transformation, transmission and distribution and unaccounted for (10-11)	272369.34	20.73

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

**TABLE 6.2**  
**REGIONAL TRANSMISSION LOSSES**  
**UTILITIES**  
**2020-21**

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	233211.16	17048.69	263.09	0.00	0.00	207511.87	8387.51	3.60
Western Region	285739.68	118561.77	0.00	0.00	0.00	156859.78	10318.13	3.61
Southern Region	162565.03	646.91	0.00	0.00	0.00	156417.97	5500.15	3.38
Eastern Region	123256.11	54295.16	1618.25	6679.34	0.00	56279.77	4383.59	3.56
North Eastern Region	19140.23	4441.86	0.00	1003.00	9.87	12854.70	830.80	4.34

**TABLE 6.3**  
**REGIONWISE ENERGY GENERATED, PURCHASED, SOLD AND LOSSES**  
**UTILITIES**  
**2020-21**

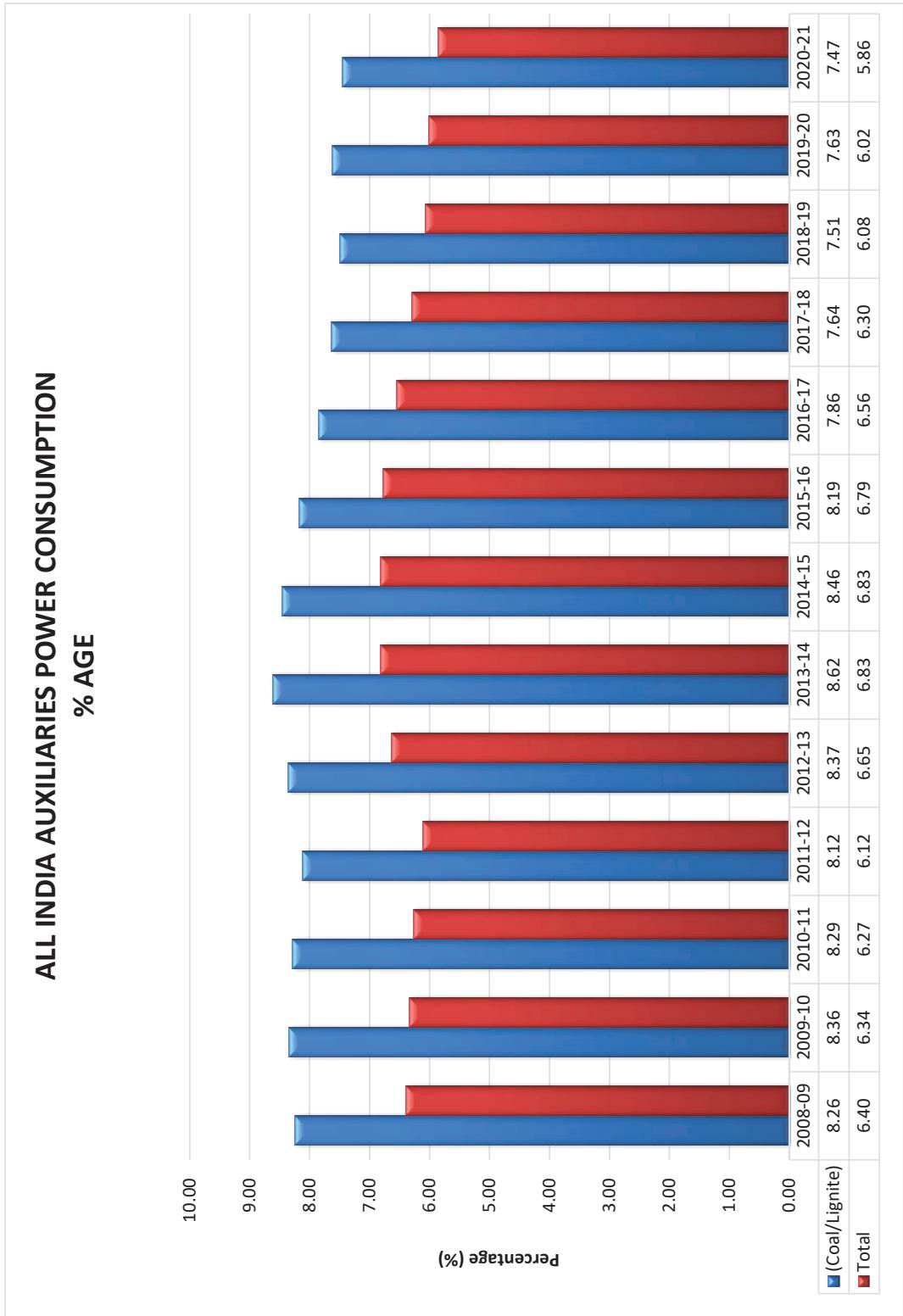
Sl. No.	ITEM	NORTHERN	WESTERN	SOUTHERN	EASTERN	NORTH-EAST	ALL INDIA
1	Own Including IPP & others Ex-bus Generation (GWh)	183630.61	226389.29	174738.28	85394.43	3191.91	673344.52
2	Ex-bus import from cpp (GWh)	3503.57	8220.39	6643.44	2941.19	27.60	21336.18
3	Energy available for drawal from grid including Import from other country (GWh)	216162.47	167177.90	161918.12	68960.95	14698.37	628917.81
4	Total Energy Available (GWh) (1+2+3)	403296.65	401787.58	343299.85	157296.57	17917.88	1323598.52
5	Energy Sold/Export to other countries (GWh)	263.09	0.00	0.00	8297.59	1012.87	9573.55
6	"Net Energy available for supply/Availability Ex-bus (GWh) (4-5)"	403033.55	401787.58	343299.85	148998.98	16905.01	1314024.97
7	Energy sold to ultimate consumers (GWh)	308230.92	314137.68	292282.54	115146.91	11857.59	1041655.63
8	Energy loss in transformation, transmission and distribution and unaccounted for (GWh) (6-7)	94802.63	87649.90	51017.31	33852.08	5047.42	272369.33
9	Percentage loss (%) (= (8/6)*100)	23.52	21.81	14.86	22.72	29.86	20.73

**TABLE 6.4**  
**STATE-WISE SYSTEM LOSSES IN THE YEAR**  
**2020-21**

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 consump- tions	T & D Losses (5-6)	T&D Losses	
	GWh	GWh	GWh	GWh	GWh	GWh	2020-21 (7*100/5)	2019- 20
1	2	3	4	5	6	7	8	9
Chandigarh	10.16	1612.44	0.56	1623.15	1349.09	274.06	16.88	15.20
Delhi	5332.08	25093.43	0.00	30425.51	26319.22	4106.29	13.50	12.40
Haryana	11319.94	43729.45	18.39	55067.77	41943.83	13123.95	23.83	22.55
Himachal	5929.08	4157.82	0.61	10087.51	8635.31	1452.20	14.40	14.31
J & K	5339.61	12451.17	0.00	17790.78	9984.32	7806.46	43.88	37.24
Punjab	22391.02	36322.59	301.50	59015.11	50285.69	8729.42	14.79	15.95
Rajasthan	58252.90	30231.68	1135.75	89620.33	64888.34	24732.00	27.60	24.27
Uttar Pradesh	68277.17	54691.65	2045.33	125014.14	93600.08	31414.07	25.13	22.42
Uttarakhand	6778.66	7609.14	1.44	14389.24	11225.05	3164.19	21.99	20.07
<b>NORTHERN REGION</b>	<b>183630.61</b>	<b>215899.37</b>	<b>3503.57</b>	<b>403033.55</b>	<b>308230.92</b>	<b>94802.63</b>	<b>23.52</b>	<b>21.30</b>
Chhattisgrah	13832.28	12495.65	5055.48	31383.40	23361.34	8022.06	25.56	25.81
Gujarat	81876.90	34018.30	406.48	116301.68	92275.88	24025.80	20.66	21.57
Madhya Pradesh	33102.06	51036.26	38.48	84176.80	60954.12	23222.68	27.59	27.30
Maharastra	97524.60	57230.05	2498.94	157253.60	126423.05	30830.55	19.61	21.23
Daman & Diu	40.04	2353.41	0.00	2393.45	2136.68	256.77	10.73	8.53
D & N Haveli	11.96	5867.97	0.00	5879.92	5286.39	593.54	10.09	9.56
Goa	1.46	4176.27	221.00	4398.72	3700.21	698.51	15.88	10.92
<b>WESTERN REGION</b>	<b>226389.29</b>	<b>167177.90</b>	<b>8220.39</b>	<b>401787.58</b>	<b>314137.68</b>	<b>87649.90</b>	<b>21.81</b>	<b>22.49</b>
Andhra Pradesh	34201.83	26825.25	562.61	61589.69	51756.03	9833.66	15.97	16.99
Telangana	36464.01	31060.39	550.28	68074.68	57896.31	10178.37	14.95	15.28
Karnataka	48476.02	24346.90	2566.77	75389.69	62783.14	12606.55	16.72	17.21
Kerala	7766.33	18181.41	181.43	26129.17	22598.78	3530.40	13.51	14.75
Tamilnadu	47548.09	58767.55	2781.84	109097.48	94592.04	14505.44	13.30	17.39
Puducherry	225.72	2736.62	0.51	2962.85	2603.14	359.71	12.14	15.14
Lakshadweep	56.29	0.00	0.00	56.29	53.10	3.19	5.66	2.30
<b>SOUTHERN REGION</b>	<b>174738.28</b>	<b>161918.12</b>	<b>6643.44</b>	<b>343299.85</b>	<b>292282.54</b>	<b>51017.31</b>	<b>14.86</b>	<b>16.64</b>
Bihar	226.61	34781.91	85.31	35093.82	24108.37	10985.45	31.30	31.09
Jharkhand	19098.14	7673.42	292.92	27064.48	21375.17	5689.30	21.02	16.75
Orissa	21335.76	3488.18	2432.72	27256.66	20609.57	6647.10	24.39	22.65
West Bengal	44412.89	14148.38	130.24	58691.50	48393.90	10297.61	17.55	16.31
Sikkim	55.96	571.47	0.00	627.44	414.77	212.67	33.89	34.27
A.& N. Islands	265.07	0.00	0.00	265.07	245.13	19.95	7.52	7.43
<b>EASTERN REGION</b>	<b>85394.43</b>	<b>60663.36</b>	<b>2941.19</b>	<b>148998.98</b>	<b>115146.91</b>	<b>33852.08</b>	<b>22.72</b>	<b>20.90</b>
Arunachal Pradesh	2.10	749.60	0.00	751.70	405.11	346.59	46.11	47.05
Assam	1333.86	8965.30	27.60	10326.76	7356.29	2970.47	28.76	27.95
Manipur	7.71	1031.77	0.00	1039.48	651.30	388.18	37.34	34.54
Meghalaya	1200.08	830.46	0.00	2030.54	1326.45	704.09	34.68	40.55
Mizoram	33.52	562.44	0.00	595.96	453.54	142.43	23.90	21.94
Nagaland	69.77	803.77	0.00	873.53	682.57	190.96	21.86	20.46
Tripura	544.87	742.15	0.00	1287.02	982.33	304.69	23.67	24.29
<b>NORTH EASTERN REGION</b>	<b>3191.91</b>	<b>13685.50</b>	<b>27.60</b>	<b>16905.01</b>	<b>11857.59</b>	<b>5047.42</b>	<b>29.86</b>	<b>29.98</b>
All India	673344.52	619344.26	21336.18	1314024.97	1041655.63	272369.33	20.73	20.46
Export to Other Countries				9573.55				

(\*) 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**  
**TOTAL AUXILIARY CONSUMPTION DURING ALL MODES**  
**UTILITIES**  
**2020-21**

(GWh)

Name of the State/Uts	Hydro	Steam	Diesel	Gas	Nuclear	RES	Total
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	287.61	0.00	168.04	0.00	0.00	455.65
Haryana	8.26	1271.49	0.00	11.98	0.00	0.00	1291.73
Himachal Pradesh	87.48	0.00	0.00	0.00	0.00	0.05	87.53
Jammu & Kashmir	41.54	0.00	0.00	0.00	0.00	0.00	41.54
Punjab	42.45	1853.71	0.00	11.98	0.00	0.18	1908.32
Rajasthan	6.03	3867.62	0.00	31.24	0.00	0.08	3904.97
Uttar Pradesh	13.34	4824.35	0.00	0.00	0.00	0.00	4837.70
Uttarakhand	36.60	63.69	0.00	18.66	0.00	0.00	118.95
Central Sector	426.12	4892.08	0.00	132.26	1136.02	7.52	6594.00
<b>Sub Total (NR)</b>	<b>661.82</b>	<b>17060.55</b>	<b>0.00</b>	<b>374.16</b>	<b>1136.02</b>	<b>7.84</b>	<b>19240.39</b>
Chhattisgarh	0.89	6126.08	0.00	0.00	0.00	6.24	6133.22
Gujarat	11.69	5420.73	0.00	563.51	0.00	9.24	6005.16
Madhya Pradesh	32.24	4384.86	0.00	0.00	0.00	0.00	4417.10
Maharashtra	62.35	6936.33	0.00	186.83	0.00	0.00	7185.51
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	15.44	6899.75	0.00	163.70	1133.42	3.75	8216.06
<b>Sub Total (WR)</b>	<b>122.60</b>	<b>29767.75</b>	<b>0.00</b>	<b>914.04</b>	<b>1133.42</b>	<b>19.23</b>	<b>31957.05</b>
Andhra Pradesh	14.24	2874.57	0.00	113.49	0.00	0.45	3002.74
Telangana	68.67	1782.46	0.00	0.00	0.00	1.51	1852.64
Karnataka	75.10	1294.16	0.00	0.00	0.00	0.69	1369.96
Kerala	30.93	0.00	1.04	0.00	0.00	1.50	33.46
Tamil Nadu	20.57	1967.30	0.00	165.00	0.00	0.77	2153.65
Puducherry	0.00	0.00	0.00	12.82	0.00	0.00	12.82
Lakshadweep	0.00	0.00	4.14	0.00	0.00	0.00	4.14
Central Sector	0.00	4166.69	0.00	12.61	1758.33	3.77	5941.39
<b>Sub Total (SR)</b>	<b>209.50</b>	<b>12085.18</b>	<b>5.18</b>	<b>303.93</b>	<b>1758.33</b>	<b>8.68</b>	<b>14370.80</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jharkhand	0.41	1016.09	0.00	0.00	0.00	0.00	1016.50
Odisha	25.53	1885.35	0.00	0.00	0.00	0.00	1910.88
West Bengal	26.41	3048.03	0.00	0.00	0.00	0.00	3074.43
Sikkim	28.95	0.00	0.00	0.00	0.00	0.00	28.95
A.& N. Islands	0.00	0.00	6.27	0.00	0.00	0.63	6.90
Central Sector	44.61	8123.41	0.00	0.00	0.00	0.18	8168.21
<b>Sub Total (ER)</b>	<b>125.91</b>	<b>14072.87</b>	<b>6.27</b>	<b>0.00</b>	<b>0.00</b>	<b>0.81</b>	<b>14205.86</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	1.66	0.00	0.00	41.68	0.00	0.00	43.34
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	8.20	0.00	0.00	0.00	0.00	0.50	8.70
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	5.40	0.00	0.00	5.40
Central Sector	40.92	288.80	0.00	310.99	0.00	0.00	640.71
<b>Sub Total (NER)</b>	<b>50.78</b>	<b>288.80</b>	<b>0.00</b>	<b>358.06</b>	<b>0.00</b>	<b>0.50</b>	<b>698.14</b>
<b>All India</b>	<b>1170.62</b>	<b>73275.15</b>	<b>11.45</b>	<b>1950.19</b>	<b>4027.77</b>	<b>37.06</b>	<b>80472.24</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 6.5.1**  
**TOTAL AUXILIARY CONSUMPTION REGION-WISE/STATE-WISE ALL MODES**  
**UTILITIES**  
**2020-21**

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	10.16	10.16	0.00	0.00
Delhi	8838.24	8382.59	455.65	5.16
Haryana	18795.96	17504.23	1291.73	6.87
Himachal Pradesh	11685.15	11597.61	87.53	0.75
Jammu & Kashmir	5679.90	5638.36	41.54	0.73
Punjab	34768.99	32860.67	1908.32	5.49
Rajasthan	67103.40	63198.44	3904.97	5.82
Uttar Pradesh	72752.14	67914.45	4837.70	6.65
Uttarakhand	10497.90	10378.95	118.95	1.13
Central Sector	126762.60	120168.60	6594.00	5.20
<b>Sub Total (NR)</b>	<b>356894.44</b>	<b>337654.05</b>	<b>19240.39</b>	<b>5.39</b>
Chhattisgarh	82503.60	76370.39	6133.22	7.43
Gujarat	99244.17	93239.01	6005.16	6.05
Madhya Pradesh	68797.87	64380.77	4417.10	6.42
Maharashtra	116856.68	109671.16	7185.51	6.15
Daman & Diu	40.04	40.04	0.00	0.00
D. & N. Haveli	11.96	11.96	0.00	0.00
Goa	1.46	1.46	0.00	0.00
Central Sector	131634.82	123418.76	8216.06	6.24
<b>Sub Total (WR)</b>	<b>499090.60</b>	<b>467133.55</b>	<b>31957.05</b>	<b>6.40</b>
Andhra Pradesh	58101.84	55099.09	3002.74	5.17
Telangana	38944.29	37091.65	1852.64	4.76
Karnataka	55440.58	54070.62	1369.96	2.47
Kerala	7710.99	7677.53	33.46	0.43
Tamil Nadu	52372.48	50218.83	2153.65	4.11
Puducherry	238.54	225.72	12.82	5.37
Lakshadweep	60.43	56.29	4.14	6.85
Central Sector	77077.59	71136.20	5941.39	7.71
<b>Sub Total (SR)</b>	<b>289946.74</b>	<b>275575.94</b>	<b>14370.80</b>	<b>4.96</b>
Bihar	226.61	226.61	0.00	0.00
Jharkhand	13228.84	12212.34	1016.50	7.68
Odisha	32385.61	30474.73	1910.88	5.90
West Bengal	40125.51	37051.07	3074.43	7.66
Sikkim	3586.15	3557.21	28.95	0.81
A.& N. Islands	189.97	183.07	6.90	3.63
Central Sector	118675.52	110507.31	8168.21	6.88
<b>Sub Total (ER)</b>	<b>208418.20</b>	<b>194212.34</b>	<b>14205.86</b>	<b>6.82</b>
Arunachal Pradesh	2.10	2.10	0.00	0.00
Assam	1377.20	1333.86	43.34	3.15
Manipur	7.71	7.71	0.00	0.00
Meghalaya	1208.78	1200.08	8.70	0.72
Mizoram	33.52	33.52	0.00	0.00
Nagaland	69.77	69.77	0.00	0.00
Tripura	550.27	544.87	5.40	0.98
Central Sector	15587.55	14946.84	640.71	4.11
<b>Sub Total (NER)</b>	<b>18836.90</b>	<b>18138.76</b>	<b>698.14</b>	<b>3.71</b>
<b>All India</b>	<b>1373186.88</b>	<b>1292714.64</b>	<b>80472.24</b>	<b>5.86</b>

**TABLE 6.5.2**  
**AUXILIARY CONSUMPTION FOR HYDRO PLANTS REGION-WISE/STATE-WISE**  
**UTILITIES**  
**2020-21**

<b>State/UTs</b>	<b>Gross Electricity Generation (GWh)</b>	<b>Net Electricity Generation (GWh)</b>	<b>Auxiliary Consumption (GWh)</b>	<b>% of Gross Generation</b>
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	1007.53	999.27	8.26	0.82
Himachal Pradesh	9524.85	9437.37	87.48	0.92
Jammu & Kashmir	5240.61	5199.07	41.54	0.79
Punjab	5294.53	5252.08	42.45	0.80
Rajasthan	913.65	907.62	6.03	0.66
Uttar Pradesh	2634.37	2621.03	13.34	0.51
Uttarakhand	7704.39	7667.79	36.60	0.48
Central Sector	47139.76	46713.64	426.12	0.90
<b>Sub Total (NR)</b>	<b>79459.69</b>	<b>78797.87</b>	<b>661.82</b>	<b>0.83</b>
Chhattisgarh	419.19	418.30	0.89	0.21
Gujarat	1507.36	1495.67	11.69	0.78
Madhya Pradesh	4372.51	4340.27	32.24	0.74
Maharashtra	6148.06	6085.71	62.35	1.01
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	4236.17	4220.73	15.44	0.36
<b>Sub Total (WR)</b>	<b>16683.29</b>	<b>16560.69</b>	<b>122.60</b>	<b>0.73</b>
Andhra Pradesh	3562.91	3548.67	14.24	0.40
Telangana	3975.85	3907.18	68.67	1.73
Karnataka	12440.34	12365.24	75.10	0.60
Kerala	6628.39	6597.46	30.93	0.47
Tamil Nadu	5212.71	5192.14	20.57	0.39
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>Sub Total (SR)</b>	<b>31820.20</b>	<b>31610.70</b>	<b>209.50</b>	<b>0.66</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	50.00	49.59	0.41	0.82
Odisha	6393.72	6368.19	25.53	0.40
West Bengal	1759.64	1733.23	26.41	1.50
Sikkim	3530.19	3501.24	28.95	0.82
A.& N. Islands	0.00	0.00	0.00	0.00
Central Sector	4744.26	4699.65	44.61	0.94
<b>Sub Total (ER)</b>	<b>16477.81</b>	<b>16351.90</b>	<b>125.91</b>	<b>0.76</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	203.03	201.37	1.66	0.82
Manipur	0.00	0.00	0.00	0.00
Meghalaya	1151.99	1143.79	8.20	0.71
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	4503.51	4462.59	40.92	0.91
<b>Sub Total (NER)</b>	<b>5858.53</b>	<b>5807.75</b>	<b>50.78</b>	<b>0.87</b>
<b>All India</b>	<b>150299.52</b>	<b>149128.90</b>	<b>1170.62</b>	<b>0.78</b>

**TABLE 6.5.3**  
**AUXILIARY CONSUMPTION FOR THERMAL(COAL & LIGNITE) PLANTS**  
**REGION-WISE/STATE-WISE(UTILITIES)**  
**2020-21**

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	3769.47	3481.86	287.61	7.63
Haryana	16703.46	15431.97	1271.49	7.61
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	26279.02	24425.31	1853.71	7.05
Rajasthan	49724.50	45856.88	3867.62	7.78
Uttar Pradesh	64500.75	59676.40	4824.35	7.48
Uttarakhand	834.69	771.00	63.69	7.63
Central Sector	64372.10	59480.02	4892.08	7.60
<b>Sub Total (NR)</b>	<b>226183.99</b>	<b>209123.44</b>	<b>17060.55</b>	<b>7.54</b>
Chhattisgarh	80450.52	74324.44	6126.08	7.61
Gujarat	63299.31	57878.58	5420.73	8.56
Madhya Pradesh	56387.49	52002.63	4384.86	7.78
Maharashtra	93134.64	86198.31	6936.33	7.45
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	110279.86	103380.11	6899.75	6.26
<b>Sub Total (WR)</b>	<b>403551.82</b>	<b>373784.07</b>	<b>29767.75</b>	<b>7.38</b>
Andhra Pradesh	37466.71	34592.14	2874.57	7.67
Telangana	28049.21	26266.75	1782.46	6.35
Karnataka	15149.91	13855.75	1294.16	8.54
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	23555.91	21588.61	1967.30	8.35
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	55481.29	51314.60	4166.69	7.51
<b>Sub Total (SR)</b>	<b>159703.03</b>	<b>147617.85</b>	<b>12085.18</b>	<b>7.57</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	13152.37	12136.28	1016.09	7.73
Odisha	25127.93	23242.58	1885.35	7.50
West Bengal	36835.17	33787.14	3048.03	8.27
Sikkim	0.00	0.00	0.00	0.00
A.& N. Islands	0.00	0.00	0.00	0.00
Central Sector	113912.18	105788.77	8123.41	7.13
<b>Sub Total (ER)</b>	<b>189027.65</b>	<b>174954.78</b>	<b>14072.87</b>	<b>7.44</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	2976.74	2687.94	288.80	9.70
<b>Sub Total (NER)</b>	<b>2976.74</b>	<b>2687.94</b>	<b>288.80</b>	<b>9.70</b>
<b>All India</b>	<b>981443.23</b>	<b>908168.08</b>	<b>73275.15</b>	<b>7.47</b>

**TABLE 6.5.4**  
**AUXILIARY CONSUMPTION FOR DIESEL PLANTS REGIONWISE/STATEWISE**  
**UTILITIES**  
**2020-21**

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	0.00	0.00	0.00	0.00
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	0.00	0.00	0.00	0.00
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Central Sector	0.00	0.00	0.00	0.00
<b>Sub-Total(NR)</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>Sub-Total(WR)</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	7.83	6.79	1.04	13.28
Tamil Nadu	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	59.98	55.84	4.14	6.90
Central Sector	0.00	0.00	0.00	0.00
<b>Sub-Total(SR)</b>	<b>67.81</b>	<b>62.63</b>	<b>5.18</b>	<b>7.64</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	155.73	149.46	6.27	4.02
Central Sector	0.00	0.00	0.00	0.00
<b>Sub-Total(ER)</b>	<b>155.73</b>	<b>149.46</b>	<b>6.27</b>	<b>4.02</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>Sub-Total(NER)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>All India</b>	<b>223.54</b>	<b>212.09</b>	<b>11.45</b>	<b>5.12</b>

**TABLE 6.5.5**  
**AUXILIARY CONSUMPTION FOR GAS BASED PLANTS REGIONWISE/STATEWISE**  
**UTILITIES**  
**2020-21**

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	4642.07	4474.03	168.04	3.62
Haryana	330.97	318.99	11.98	3.62
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	330.97	318.99	11.98	3.62
Rajasthan	654.34	623.10	31.24	4.77
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	721.97	703.31	18.66	2.58
Central Sector	3736.90	3604.64	132.26	3.54
<b>Sub Total (NR)</b>	<b>10417.22</b>	<b>10043.06</b>	<b>374.16</b>	<b>3.59</b>
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	17018.83	16455.32	563.51	3.31
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	3389.57	3202.74	186.83	5.51
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	4432.24	4268.54	163.70	3.69
<b>Sub Total (WR)</b>	<b>24840.64</b>	<b>23926.60</b>	<b>914.04</b>	<b>3.68</b>
Andhra Pradesh	3323.24	3209.75	113.49	3.42
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	2264.73	2099.73	165.00	7.29
Puducherry	232.15	219.33	12.82	5.52
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	101.41	88.80	12.61	0.00
<b>Sub Total (SR)</b>	<b>5921.53</b>	<b>5617.60</b>	<b>303.93</b>	<b>5.13</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>Sub Total (ER)</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	1151.28	1109.60	41.68	3.62
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	540.26	534.86	5.40	1.00
Central Sector	8073.07	7762.08	310.99	3.85
<b>Sub Total (NER)</b>	<b>9764.61</b>	<b>9406.55</b>	<b>358.06</b>	<b>3.67</b>
<b>All India</b>	<b>50944.00</b>	<b>48993.81</b>	<b>1950.19</b>	<b>3.83</b>

**TABLE 6.5.6**  
**AUXILIARY CONSUMPTION FOR NUCLEAR BASED PLANTS REGIONWISE/STATEWISE**  
**UTILITIES**  
**2020-21**

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	0.00	0.00	0.00	0.00
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	0.00	0.00	0.00	0.00
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Central Sector	10670.86	9534.84	1136.02	10.65
<b>Sub Total (NR)</b>	<b>10670.86</b>	<b>9534.84</b>	<b>1136.02</b>	<b>10.65</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	11599.58	10466.16	1133.42	9.77
<b>Sub Total (WR)</b>	<b>11599.58</b>	<b>10466.16</b>	<b>1133.42</b>	<b>9.77</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	20758.64	19000.31	1758.33	8.47
<b>Sub Total (SR)</b>	<b>20758.64</b>	<b>19000.31</b>	<b>1758.33</b>	<b>8.47</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>Sub Total (ER)</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>Sub Total (NER)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>All India</b>	<b>43029.08</b>	<b>39001.31</b>	<b>4027.77</b>	<b>9.36</b>



# CHAPTER 7

## OPERATING DATA UTILITIES





## CHAPTER 7

# OPERATING DATA UTILITIES

### FUEL CONSUMPTION

There are 178 Nos. of Coal fired thermal stations operating in the country as on 31.03.2021. CEA is monitoring fuel consumption of 169 stations having Installed Capacity 202170 MW. For the year 2020-21, the Coal consumption of 169 stations was 615.44 Million Tonnes.

### THERMAL EFFICIENCY

The total numbers of Coal/Lignite/Multi-fuel Power Stations ending March 2021 were 190 having an aggregate installed capacity of 209294.50 MW. Out of these, 178 Stations are coal fired and 12 are of Lignite fired.

CEA has received actual data of 156 Thermal Power Stations. These Thermal Power Stations have capacity of 184318.50 MW. On analyzing, it was found that 1.92% stations are operating below 25%, 9.62% stations are operating at 25% to 30%, 30.77% stations are operating at 30% to 35% and 57.69% stations are operating at above 35% efficiency.

### PLANT LOAD FACTOR

Under Private Sector, Rajasthan recorded the highest PLF of 74.28%. All India Plant Load factors of Central Sector Thermal Power Stations were 63.40% and the All India Plant Load Factors of State and Private Sector of Thermal Power Stations were 46.23% and 54.66% respectively. All India PLF of all Nuclear Power Stations in the country was 72.45%.

### 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., Kerala State Electricity Board and Punjab State Power Corporation Ltd.

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

**TABLE 7.1**  
**CONSUMPTION OF FOSSIL FUELS FOR ELECTRICITY GENERATION IN THERMAL POWER**  
**STATIONS STATE-WISE BY KIND OF FUELS**  
**2020-21**

State/UTs	Coal/Lignite based Power Plants						
	COAL 000' MT	FURNACE OIL (KL)	LIGHT DIESEL OIL/HSD(KL)	LSHS/HHS (KL)	GAS (MMSCM)	LIGNITE 000'(MT)	Generation (GWh)
Delhi	0	0	0	0	0	0	0
Haryana	6693	843	4329	0	0	0	10340
Himachal Pradesh	0	0	0	0	0	0	0
Jammu & Kashmir	0	0	0	0	0	0	0
Punjab	11112	6906	0	0	0	0	17995
Rajasthan	21400	7644	8190	7387	0	5943	43765
Uttar Pradesh	38210	14806	11575	0	0	0	60327
Uttarakhand	0	0	0	0	0	0	0
Central Sector (NR)	40694	3749	28395	2815	0	1259	64372
<b>Sub-Total (NR)</b>	<b>118109</b>	<b>33947</b>	<b>52489</b>	<b>10202</b>	<b>0</b>	<b>7202</b>	<b>196799</b>
Chhattisgarh	57385	10658	8746	0	0	0	80451
Gujarat	36557	33662	12011	1062	0	6056	77059
Madhya Pradesh	47408	10845	13529	0	0	0	77255
Maharashtra	59714	6912	70488	0	418	0	87893
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)	72444	17025	33782	0	0	0	110280
<b>Sub-Total (WR)</b>	<b>273509</b>	<b>79102</b>	<b>138557</b>	<b>1062</b>	<b>418</b>	<b>6056</b>	<b>432937</b>
Andhra Pradesh	23152	9390	2575	0	0	0	37467
Telangana	15959	17149	6079	0	0	0	28049
Karnataka	8429	14751	6281	0	669385	0	15150
Kerala	0	0	0	0	0	0	0
Tamil Nadu	17655	17344	3569	0	0	900	23556
Puducherry	0	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0	0
Central Sector (SR)	26466	37828	12350	0	0	19571	55481
<b>Sub-Total (SR)</b>	<b>91661</b>	<b>96463</b>	<b>30855</b>	<b>0</b>	<b>669385</b>	<b>20470</b>	<b>159703</b>
Bihar	0	0	0	0	0	0	0
Jharkhand	8510	3051	1041	0	0	0	13152
Orissa	18937	1426	2947	0	0	0	25128
West Bengal	23168	0	33593	0	0	0	36835
Sikkim	0	0	0	0	0	0	0
A.& N. Islands	0	0	0	0	0	0	0
Central Sector (ER)	79845	32683	30152	1725	0	0	113912
<b>Sub-Total (ER)</b>	<b>130460</b>	<b>37159</b>	<b>67732</b>	<b>1725</b>	<b>0</b>	<b>0</b>	<b>189028</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)	1706	0	2509	0	0	0	2977
<b>Sub-Total (NER)</b>	<b>1706</b>	<b>0</b>	<b>2509</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2977</b>
<b>Total (All India)</b>	<b>615444</b>	<b>246671</b>	<b>292142</b>	<b>12989</b>	<b>669803</b>	<b>33728</b>	<b>981443</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**  
**2020-21**

State/UTs	Gas based Power Plants				Diesel Power Plants		
	Natural Gas (MMSCM)	H.S.D. (Kilo Ltrs.)	Naptha (Kilo Ltrs.)	Generation (GWh)	LSHS (KL)	Diesel Oil (Kilo Ltrs.)	Generation (GWh)
Delhi	1093	0	0	5304	0	0	0
Haryana	0	0	0	0	0	0	0
Himachal Pradesh	0	0	0	0	0	0	0
Jammu & Kashmir	0	0	0	0	0	0	0
Punjab	0	0	0	0	0	0	0
Rajasthan	263	17	0	654	0	0	0
Uttar Pradesh	0	0	0	0	0	0	0
Uttarakhand	151	0	0	722	0	0	0
Central Sector (NR)	861	197	267	3737	0	0	0
<b>Sub-Total (NR)</b>	<b>2368</b>	<b>214</b>	<b>267</b>	<b>10417</b>	<b>0</b>	<b>0</b>	<b>0</b>
Chhattisgarh	0	0	0	0	0	0	0
Gujarat	3191	0	0	17019	0	0	0
Madhya Pradesh	0	0	0	0	0	0	0
Maharashtra	795	0	0	3390	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)	902	59	189	4432	0	0	0
<b>Sub-Total (WR)</b>	<b>4888</b>	<b>59</b>	<b>189</b>	<b>24841</b>	<b>0</b>	<b>0</b>	<b>0</b>
Andhra Pradesh	737	0	0	3323	0	0	0
Telangana	0	0	0	0	0	0	0
Karnataka	0	0	0	0	0	0	0
Kerala	0	0	0	0	1649	22	8
Tamil Nadu	517	21	494	2265	0	0	0
Puducherry	62	0	0	232	0	0	0
Lakshadweep	0	0	0	0	0	18081	60
Central Sector (SR)	0	0	25626	101	0	0	0
<b>Sub-Total (SR)</b>	<b>1316</b>	<b>21</b>	<b>26120</b>	<b>5922</b>	<b>1649</b>	<b>18103</b>	<b>68</b>
Bihar	0	0	0	0	0	0	0
Jharkhand	0	0	0	0	0	0	0
Orissa	0	0	0	0	0	0	0
West Bengal	0	0	0	0	0	0	0
Sikkim	0	0	0	0	0	0	0
A.& N. Islands	0	0	0	0	0	91949	156
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>91949</b>	<b>156</b>
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	342	0	0	1151	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	240	0	0	540	0	0	0
Central Sector (NER)	1824	0	0	8073	0	0	0
<b>Sub-Total (NER)</b>	<b>2406</b>	<b>0</b>	<b>0</b>	<b>9765</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total (All India)</b>	<b>10978</b>	<b>294</b>	<b>26576</b>	<b>50944</b>	<b>1649</b>	<b>110051</b>	<b>224</b>

MMSCM:-Million Metric Standard Cubic Metre.

**TABLE 7.2**  
**CLASSIFICATION OF STEAM TYPE ELECTRICITY GENERATING STATIONS**  
**EFFICIENCY-WISE**  
**2020-21**

Thermal Efficiency	Percentage(%) of Generating Stations
Up to 25%	1.92
Above 25% & up to 30%	9.62
Above 30% & up to 35%	30.77
Above 35%	57.69
<b>Total</b>	<b>100.00</b>

\* Efficiency has been worked out on the basis of data available for 156 thermal stations.

#### ALL INDIA THERMAL EFFICIENCY OF COAL & LIGNITE BASED PLANTS

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

**TABLE 7.3**  
**SALIENT OPERATING DATA FOR COAL/LIGNITE BASED ELECTRICITY**  
**GENERATING PLANTS**  
**(UTILITIES)**  
**2020-21**

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>
2010-11		380	29	897316	326151	4699
2011-12		411	31	848262	257701	44797
2012-13		455	31.837	763737	6384	44334
2013-14		489	25	592059	93057	4021
2014-15		531	35	438468	161848	2579
2015-16		546	30	343703	136898	1840
2016-17		575	31	348393	166704	1020
2017-18		608	36	325963	201399	2556
2018-19		629	37	270900	239126	3822
2019-20		622	35	250376	287657	9767
2020-21		615	34	246671	292142	12989
<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>
2010-11		3603	2729	10156	9786	10327
2011-12		3606	2714	10280	9974	10417
2012-13		3589	2731	10241	9981	10391
2013-14		3501	2713	10127	10172	10068
2014-15		3558	2699	10074	9984	10173
2015-16		3566	2710	10037	10168	10437
2016-17		3703	2678	10067	9831	9982
2017-18		3721	2688	9999	9872	10297
2018-19		3733	2697	10020	9890	10114
2019-20		3648	2683	9959	9851	9963
2020-21		3645	2694	9995	9841	9909
<b>3</b>	<b>Specific Fuel Consumption</b>	<b>(kg/kWh)</b>	<b>(kg/kWh)</b>			
2010-11		0.70	1.12	N.A.	N.A.	N.A.
2011-12		0.71	1.12	N.A.	N.A.	N.A.
2012-13		0.71	1.11	N.A.	N.A.	N.A.
2013-14		0.71	1.04	N.A.	N.A.	N.A.
2014-15		0.69	1.06	N.A.	N.A.	N.A.
2015-16		0.68	1.06	N.A.	N.A.	N.A.
2016-17		0.66	1.10	N.A.	N.A.	N.A.
2017-18		0.65	1.08	N.A.	N.A.	N.A.
2018-19		0.64	1.07	N.A.	N.A.	N.A.
2019-20		0.65	1.07	N.A.	N.A.	N.A.
2020-21		0.65	1.05	N.A.	N.A.	N.A.

**TABLE 7.4**  
**ALL INDIA PEAK ELECTRICITY DEMAND/PEAK MET STATE-WISE**  
**2020-21**

State/UTs	Peak Demand	Peak Met	Demand Not Met	
	(MW)	(MW)	(MW)	%
Chandigarh	383	383	0	0.00
Delhi	6,314	6,314	0	0.00
Haryana	10,982	10,982	0	0.00
Himachal Pradesh	1,932	1,932	0	0.00
Jammu & Kashmir	3,280	2,680	600	18.29
Punjab	13,148	13,148	0	0.00
Rajasthan	14,441	14,441	0	0.00
Uttar Pradesh	23,797	23,747	50	0.21
Uttarakhand	2,372	2,372	0	0.00
<b>NORTHERN REGION</b>	<b>68,288</b>	<b>67,806</b>	<b>482</b>	<b>0.71</b>
Chhattisgarh	4,682	4,682	0	0.00
Gujarat	18,528	18,483	45	0.24
Madhya Pradesh	15,756	15,668	88	0.56
Maharashtra	25,576	25,513	63	0.24
Daman & Diu	356	355	1	0.38
Dadra & Nagar Haveli	889	888	1	0.07
Goa	612	612	0	0.07
<b>WESTERN REGION</b>	<b>61,778</b>	<b>61,692</b>	<b>86</b>	<b>0.14</b>
Andhra Pradesh	11,193	11,193	0	0.00
Telangana	13,688	13,688	0	0.00
Karnataka	14,367	14,367	0	0.00
Kerala	4,275	4,269	6	0.14
Tamil Nadu	16,263	16,263	0	0.00
Puducherry	429	429	0	0.00
Lakshadweep #	11	11	0	0.00
<b>SOUTHERN REGION</b>	<b>58,395</b>	<b>58,395</b>	<b>0</b>	<b>0.00</b>
Bihar	5,995	5,938	58	0.96
DVC	3,173	3,173	0	0.00
Jharkhand	1,651	1,527	124	7.50
Orissa	4,984	4,984	1	0.01
West Bengal	8,846	8,846	0	0.00
Sikkim	120	120	0	0.00
Andaman Nicobar #	58	54	4	6.90
<b>EASTERN REGION</b>	<b>24,016</b>	<b>24,016</b>	<b>0</b>	<b>0.00</b>
Arunachal Pradesh	158	149	9	5.63
Assam	2072	1987	85	4.12
Manipur	252	249	3	1.13
Meghalaya	384	384	0	0.00
Mizoram	132	132	0	0.00
Nagaland	160	155	5	2.94
Tripura	317	315	2	0.48
<b>NORTH EAST REGION</b>	<b>3,294</b>	<b>3,107</b>	<b>187</b>	<b>5.69</b>
<b>ALL INDIA</b>	<b>190,198</b>	<b>189,395</b>	<b>802</b>	<b>0.42</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 & DVC**  
**AS ON 31.03.2021 (AS REPORTED)**

<b>R E G U L A R</b>						
<b>Name of the Board/Undertaking</b>	<b>Managerial and higher executive</b>	<b>Technical &amp; Scientific Officers</b>	<b>Technical Supervisory Staff</b>	<b>Technicians &amp; Operating Staff</b>	<b>Non-Technical</b>	<b>Total (Regular) (2to6)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>NORTHERN REGION</b>						
(1) Chandigarh	0	44	84	448	125	701
(2) Delhi						
(a) IPGCL+PPCL	13	265	103	327	251	959
(b) Delhi Transco Ltd.	NA	NA	NA	NA	NA	NA
(3) Haryana						
(a) HPGCL	3	486	200	756	403	1848
(b) Uttar Haryana BVN	NA	NA	NA	NA	NA	NA
(c) Dakshin Haryana BVN	11	272	1180	5118	2057	8638
(4) Himachal Pradesh SEBL	20	16	13150	0	609	13795
(5) J&K PDC(R)	NA	NA	NA	NA	NA	NA
(6) Punjab						
(a) Punjab State Power Corp. Ltd	1851	6253	22860	0	4310	35274
(b) Punjab State Transmission Corpn. Ltd	7	424	404	1162	526	2523
(7) Rajasthan						
(a) RRVUNL	11	1364	804	1305	635	4119
(b) RRVPNL	9	1415	1760	3927	1047	8158
(c) Jaipur VVN Ltd.	539		960	13210	3136	17845
(d) Ajmer VVN Ltd.	5	429	1031	11080	2761	15306
(e) Jodhpur VVN Ltd.	10	358	991	10256	2356	13971
(8) Uttar Pradesh						
(a) UPRVUNL	29	1374	892	2604	1276	6175
(b) MVVNL(Lucknow UP)	NA	NA	NA	NA	NA	NA
(c) DVVNL(Agra UP)	NA	NA	NA	NA	NA	NA
(d) KESCO(KANPUR)	NA	NA	NA	NA	NA	NA
(e) Pur.VVN(Varanasi UP)	NA	NA	NA	NA	NA	NA
(f) Paschi.VVN(Meerut UP)	NA	NA	NA	NA	NA	NA
(g) UPJVUNL	0	3	4	32	4	43
(h) UPPCL	93	4192	4626	20433	7830	37174
(9) Uttarakhand						
(a) UJVNL	20	420	393	899	437	2169
(b) UPCL	NA	NA	NA	NA	NA	NA
(c) PTCL	14	244	219	209	140	826

**TABLE 7.5 (CONTD.)**  
**MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC**  
**AS ON 31.03.2021 (AS REPORTED)**

<b>R E G U L A R</b>						
<b>Name of the Board/Undertaking</b>	<b>Managerial and higher executive</b>	<b>Technical &amp; Scientific Officers</b>	<b>Technical Supervisory Staff</b>	<b>Technicians &amp; Operating Staff</b>	<b>Non- Technical</b>	<b>Total (Regular) (2to6)</b>
<b>WESTERN REGION</b>						
<b>(10) Chhattisgarh</b>						
(a) Chhattisgarh Power Generation Co. Ltd.	15	960	1100	373	1042	3490
(b) Chhattisgarh State Power Trans. Co. Ltd.	9	296	58	1115	37	1515
(c) Chhattisgarh State Distribution Co. Ltd.	23	730	618	7045	2783	11199
<b>(11) Gujarat</b>						
(a) Guj. State Energy Gen. Ltd.	3	12	37	36	14	102
(b) Guj. Energy Trans Corporation	5	793	916	8835	1472	12021
(c) Madhya Guj.Vij.Co.Ltd.	2	268	353	3866	2257	6746
(d) Dakshin Guj.Vij.Co.Ltd.	2	667	862	3335	2380	7246
(e) Uttar Guj.Vij.Co.Ltd.	4	762	869	3851	3274	8760
(f) Pachim Guj.Vij.Co.Ltd.	2	586	820	7092	5017	13517
(g) Gujrat Mineral Dev.Corpn.	9	33	42	24	48	156
<b>(12) Madhya Pradesh</b>						
(a) MPPGCL	6	1109	454	1942	1050	4561
(b) MPPTCL	2	424	479	1868	598	3371
(c) MPMKVCL, Bhopal	4	479	686	3832	1704	6705
(d) MPPKVCL, Indore	7	399	618	4492	1985	7501
(e) MPPKVCL, Jabalpur	0	360	485	4817	1998	7660
<b>(13) Maharashtra</b>						
(a) Maharashtra State Power Gen. Co. Ltd.	NA	NA	NA	NA	NA	NA
(b) Maharashtra State Elect. Trans. Co. Ltd.	NA	NA	NA	NA	NA	NA
(c) MSEDCL	55	461	7813	61007	12366	81702
(d) BEST	5	970	259	3647	1198	6079
<b>(14) Goa</b>	<b>1</b>	<b>161</b>	<b>235</b>	<b>4099</b>	<b>1387</b>	<b>5883</b>
<b>(15) Dadra &amp; Nagar Haveli</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>(16) Daman &amp; Diu</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>76</b>	<b>69</b>	<b>158</b>

N.A:- Information not available.

**TABLE 7.5 (CONTD.)**  
**MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC**  
**AS ON 31.03.2021 (AS REPORTED)**

<b>REGULAR</b>						
<b>Name of the Board/Undertaking</b>	<b>Managerial and higher executive</b>	<b>Technical &amp; Scientific Officers</b>	<b>Technical Supervisory Staff</b>	<b>Technicians &amp; Operating Staff</b>	<b>Non-Technical</b>	<b>Total (Regular) (2to6)</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
<b>SOUTHERN REGION</b>						
<b>(17) Andhra Pradesh</b>						
(a) APGENCO	14	1898	219	2606	720	5457
(b) APTRANSCO	11	1639	18	200	270	2138
(c) South Power Dis. Co. of AP Ltd.	4	785	506	5222	2564	9081
(d) Eastern Power Dis. Co. of AP Ltd.	12	776	438	6677	1666	9569
(e) APPDCL	1	194	74	56	39	364
<b>(18) Telangana</b>						
(a) Telangana Transco	15	1582	16	162	466	2241
(b) TSGENCO	26	2571	101	2920	864	6482
(c) TSNPDCL	15	1751	0	5908	2231	9905
(d) TSSPDCL	17	685	1631	5721	2552	10606
<b>(19) Karnataka</b>						
(a) KPTCL	16	2157	1962	4360	1236	9731
(b) KPCL	20	1454	358	1124	1431	4387
(c) Hubli Elec. Supply Co. Ltd.	0	924	976	4698	3138	9736
(d) Gulbarga Elec. Supply Co. Ltd.	4	442	219	5546	1054	7265
(e) Bangalore Elec. Supply Co. Ltd.	12	1057	750	10591	2775	15185
(f) Mangalore Elec. Supply Co. Ltd.	5	363	260	3470	1190	5288
(g) Chamundeshwari Elec. Supply Corp. Ltd.	6	401	260	4851	1136	6654
<b>(20) Kerala</b>						
(a) Kerala SEB	23	6051	12250	16632	7734	42690
(b) Thrissur Electricity Department	0	0	57	0	48	105
(21) Tamil Nadu Gen. & Dist. Corpn. Ltd.	64	10987	1914	45186	30268	88419
<b>(22) PUDDICHERRY+PPCL</b>	<b>0</b>	<b>72</b>	<b>198</b>	<b>1263</b>	<b>640</b>	<b>2173</b>
<b>(23) Lakshdweep</b>	<b>0</b>	<b>1</b>	<b>42</b>	<b>222</b>	<b>74</b>	<b>339</b>
<b>EASTERN REGION</b>						
<b>(24) Bihar</b>						
(a) Bihar SPHCL	28	3395	1820	3842	2853	11938
(b) BSPGCL	NA	NA	NA	NA	NA	NA
(c) BSPTCL	NA	NA	NA	NA	NA	NA
(d) South Bihar PDCL	10	1418	23	2605	1808	5864
(e) North Bihar PDCL	10	519	747	2176	903	4355

**TABLE 7.5 (CONTD.)**  
**MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC**  
**AS ON 31.03.2021 (AS REPORTED)**

REGULAR						
Name of the Board/Undertaking	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Operating Staff	Non-Technical	Total (Regular) (2to6)
<b>(25) Jharkhand</b>						
(a) Jharkhand Urja Utpadan Nigam Ltd.	20	507	250	3612	158	4547
(b) Jharkhand Bijili Vitran Nigam Ltd.	7	474	0	2345	491	3317
(c) Tenughat Vidyut Nigam Ltd.	3	161	37	331	145	677
<b>(26) Odisha</b>						
(a) OPTCL	20	877	159	1086	471	2613
(b) OPGCL	15	222	290	0	91	618
(c) OHPCCL	2	420	23	597	224	1266
<b>(27) West Bengal</b>						
(a) WBPDCL	26	1499	521	1205	653	3904
(b) WBSETCL	16	448	598	931	457	2450
(c) WBSED Co. Ltd.	25	1673	440	3699	6519	12356
(d) Durgapur Projects Ltd.	3	173	159	1394	81	1810
NORTH EASTERN REGION						
<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	769
(b) APDCL	9	797	503	5079	2315	8703
(c) AEGCL	6	797	0	513	311	1627
<b>(30) Meghalaya</b>						
(a) MPGCL	4	192	113	175	292	776
(b) MECL	12	436	306	1434	977	3165
<b>(31) Mizoram</b>	<b>5</b>	<b>117</b>	<b>191</b>	<b>617</b>	<b>562</b>	<b>1492</b>
<b>(32) Manipur</b>						
(a) Manipur SPCL	1	80	72	976	345	1474
(b) Manipur SPDCL	NA	NA	NA	NA	NA	NA
<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 Corp. Ltd.</b>	<b>3</b>	<b>2780</b>	<b>6</b>	<b>0</b>	<b>731</b>	<b>3520</b>
<b>Total</b>	<b>3290</b>	<b>80318</b>	<b>95257</b>	<b>354914</b>	<b>152555</b>	<b>686334</b>

N.A:- Information not available.

**TABLE 7.5 (CONTD.)**  
**MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC**  
**AS ON 31.03.2021 (AS REPORTED)**

NON R E G U L A R					
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>NORTHERN REGION</b>					
<b>(1) Chandigarh</b>	0	370	0	370	1071
<b>(2) Delhi</b>					
(a) IPGCL+PPCL	0	21	0	21	980
(b) Delhi Transco Ltd.		NA	NA	NA	NA
<b>(3) Haryana</b>					
(a) HPGCL	0	0	0	0	1848
(b) Uttar Haryana BVN		NA	NA	NA	NA
(c) Dakshin Haryana BVN	0	5734	0	5734	14372
<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	8191	0	8191	43465
(b) Punjab State Transmission Corpn. Ltd	0	590	3	593	3116
<b>(7) Rajasthan</b>					
(a) RRVUNL	0	0	1	1	4120
(b) RRVPNL	0	0	0	0	8158
(c) Jaipur VVN Ltd.	0	0	0	0	17845
(d) Ajmer VVN Ltd.	0	0	0	0	15306
(e) Jodhpur VVN Ltd.	0	0	0	0	13971
<b>(8) Uttar Pradesh</b>					
(a) UPRVUNL	0	0	0	0	6175
(b) MVVNL(Lucknow UP)		NA	NA	NA	NA
(c) DVVNL(Agra UP)		NA	NA	NA	NA
(d) KESCO(KANPUR)		NA	NA	NA	NA
(e) Pur.VVNL(Varanasi UP)		NA	NA	NA	NA
(f) Paschi.VVNL(Meerut UP)		NA	NA	NA	NA
(g) UPJVUNL	5	0	1	6	49
(h) UPPCL	0	0	0	0	37174
<b>(9) Uttrakhand</b>					
(a) UJVNL	0	0	0	0	2169
(b) UPCL		NA	NA	NA	NA
(c) PTCL	0	0	0	0	826

**TABLE 7.5 (CONTD.)**  
**MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC**  
**AS ON 31.03.2021 (AS REPORTED)**

NON R E G U L A R					
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)
<b>WESTERN REGION</b>					
<b>(10) Chhattisgarh</b>					
(a) Chhattisgarh Power Generation Co. Ltd.	188	197	0	385	3875
(b) Chhattisgarh State Power Trans. Co. Ltd.	0	96	0	96	1611
(c) Chhattisgarh State Distribution Co. Ltd.	0	0	0	0	11199
<b>(11) Gujarat</b>					
(a) Guj. State Elect Gen. Corporation Ltd.	5	4	0	9	111
(b) Guj. Energy Trans Corporation	1091	0	0	1091	13112
(c) Madhya Guj.Vij.Co.Ltd.	696	0	0	696	7442
(d) Dakshin Guj.Vij.Co.Ltd.	0	0	0	0	7246
(e) Uttar Guj.Vij.Co.Ltd.	1190	0	0	1190	9950
(f) Pachim Guj.Vij.Co.Ltd.	0	0	0	0	13517
(g) Gujurat Mineral Dev.Corpns.	24	0	0	24	180
<b>(12) Madhya Pradesh</b>					
(a) MPPGCL	0	0	0	0	4561
(b) MPPTCL	0	557	1	558	3929
(c) MPMKVVL, Bhopal	508	1	11963	12472	19177
(d) MPPKVVCL, Indore	152	14725	0	14877	22378
(e) MPPKVVCL, Jabalpur	1689	3	113	1805	9465
<b>(13) Maharashtra</b>					
(a) Maharashtra State Power Gen. Co. Ltd.	NA	NA	NA	NA	NA
(b) Maharashtra State Elect. Trans. Co. Ltd.	NA	NA	NA	NA	NA
(c) MSEDCCL	0	0	0	0	81702
(d) BEST	69	0	773	842	6921
<b>(14) Goa</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5883</b>
<b>(15) Dadra &amp; Nagar Haveli</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>(16) Daman &amp; Diu</b>	<b>0</b>	<b>40</b>	<b>307</b>	<b>347</b>	<b>505</b>

N.A:- Information not available.

**TABLE 7.5 (CONTD.)**  
**MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC**  
**AS ON 31.03.2021 (AS REPORTED)**

NON R E G U L A R					
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)
	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>SOUTHERN REGION</b>					
<b>(17) Andhra Pradesh</b>					
(a) APGENCO	45	4472	0	4517	9974
(b) APTRANSCO	0	6204	0	6204	8342
(c) South Power Dis. Co. of AP Ltd.	423	7624	0	8047	17128
(d) Eastern Power Dis. Co. of AP Ltd.	0	4258	0	4258	13827
(e) APPDCL	0	31	1047	1078	1442
<b>(18) Telangana</b>					
(a) Telangana Transco	0	4150	0	4150	6391
(b) TSGENCO	0	0	0	0	6482
(c) TSNDCL	0	3614	0	3614	13519
(d) TSSPDCL	0	9450	0	9450	20056
<b>(19) Karnataka</b>					
(a) KPTCL	0	0	8904	8904	18635
(b) KPCL	11	565	0	576	4963
(c) Hubli Elec. Supply Co. Ltd.	0	0	0	0	9736
(d) Gulbarga Elec. Supply Co. Ltd.	0	812	0	812	8077
(e) Bangalore Elec. Supply Co. Ltd.	0	0	0	0	15185
(f) Mangalore Elec. Supply Co. Ltd.	0	0	0	0	5288
(g) Chamundeshwari Elec. Supply Corp. Ltd.	0	0	0	0	6654
<b>(20) Kerala</b>					
(a) Kerala SEB	0	790	0	790	43480
(b) Thrissur Electricity Department	0	37	10	47	152
(21) Tamil Nadu Gen. & Dist. Corp. Ltd.	0	0	0	0	88419
<b>(22) PUDDICHERRY+PPCL</b>	<b>0</b>	<b>380</b>	<b>0</b>	<b>380</b>	<b>2553</b>
<b>(23) Lakshdweep</b>	<b>9</b>	<b>0</b>	<b>128</b>	<b>137</b>	<b>476</b>
<b>EASTERN REGION</b>					
<b>(24) Bihar</b>					
(a) Bihar SPHCL	830	5897	6294	13021	24959
(b) BSPGCL	NA	NA	NA	NA	NA

**TABLE 7.5 (CONTD.)**  
**MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC**  
**AS ON 31.03.2021 (AS REPORTED)**

NON R E G U L A R					
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)
(c) BSPTCL	NA	NA	NA	NA	NA
(d) South Bihar PDCL	0	5826	815	6641	12505
(e) North Bihar PDCL	0	723	0	723	5078
<b>(25) Jharkhand</b>					
(a) Jharkhand Urja Utpadan Nigam Ltd.	0	0	0	0	4547
(b) Jharkhand Bijili Vitran Nigam Ltd.	0	0	0	0	3317
(c) Tenughat Vidyut Nigam Ltd.	0	61	0	61	738
<b>(26) Odisha</b>					
(a) OPTCL	199	0	0	199	2812
(b) OPGCL	0	0	0	0	618
(c) OHPCL	0	0	79	79	1345
<b>(27) West Bengal</b>					
(a) WBPDCL	0	0	0	0	3904
(b) WBSETCL	1	0	11	12	2462
(c) WBSED Co. Ltd.	0	563	1562	2125	14481
(d) Durgapur Projects Ltd.	0	0	0	0	1810
<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	2161
<b>(30) Meghalaya</b>					
(a) MPGCL	4	346	0	350	1126
(b) MPTCL	0	15	2173	2188	5353
(31) Mizoram	0	504	2149	2653	4145
<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>10401</b>	<b>92544</b>	<b>46086</b>	<b>149031</b>	<b>835365</b>

N.A:- Information not available.

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

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	437	11891	NA	NA	6553	18881
NTPC JVs	54	1477	NA	NA	236	1767
NHPC	247	2302	196	1301	1523	5569
NPCIL	495	3145	1877	3339	2166	11022
PGCIL	466	3107	2112	1465	1596	8746
NHDC	15	217	27	131	136	526
NLC	165	651	56	881	234	1987
NTPL	86	88	6	26	24	230
NEEPCO	21	550	71	236	211	1089
SJVNL	10	195	142	161	73	581
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					6555

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

Name of the Power Corporation	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	
NTPC	0	0	0	0	18881
NTPC JVs	0	0	0	0	1767
NHPC	0	0	0	0	5569
NPCIL	0	202	0	202	11224
PGCIL	646	0	0	646	9392
NHDC	0	0	0	0	526
NLC	232	771	389	1392	3379
NTPL	12	1322	0	1334	1564
NEEPCO	124	282	48	454	1543
SJVNL	0	0	0	0	581
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	6555

**TABLE 7.6**  
**PLANT LOAD FACTOR OF THERMAL/ NUCLEAR**  
**ELECTRICITY GENERATING PLANTS STATE-WISE**  
**2020-21**

State/UTs	Central Sector Thermal	Nuclear	State Sector Thermal	Private Sector Thermal
<b>NORTHERN REGION</b>				
Chandigarh	-	-	-	-
Delhi	-	-	-	-
Haryana	27.81	-	24.86	42.14
Himachal Pradesh	-	-	-	-
Jammu & Kashmir	-	-	-	-
Punjab	-	-	11.61	47.19
Rajasthan	66.29	71.45	46.81	74.28
Uttar Pradesh	65.94	85.22	53.85	57.88
Uttarnanchal	-	-	-	-
<b>WESTERN REGION</b>				
Chhattisgarh	85.39	-	68.44	53.94
Gujarat	-	96.33	34.61	64.44
Madhya Pradesh	83.92	-	43.72	72.81
Maharashtra	32.24	64.31	51.25	43.51
Daman & Diu	-	-	-	-
D. & N. Haveli	-	-	-	-
Goa	-	-	-	-
<b>SOUTHERN REGION</b>				
Andhra Pradesh	49.54	-	40.86	48.69
Telangana	73.37	-	72.34	-
Karnataka	22.41	92.02	23.65	26.31
Kerala	-	-	-	-
Tamil Nadu	50.06	63.93	41.10	30.97
Puducherry	-	-	-	-
Lakshadweep	-	-	-	-
<b>EASTERN REGION</b>				
Bihar	60.50	-	-	-
Jharkhand	72.66	-	60.83	68.08
Orissa	83.48	-	56.70	48.28
West Bengal	59.83	-	57.54	57.34
Sikkim	-	-	-	-
A.& N. Islands	-	-	-	-
<b>NORTH-EASTERN REGION</b>				
Arunachal Pradesh	-	-	-	-
Assam	45.31	-	-	-
Manipur	-	-	-	-
Meghalaya	-	-	-	-
Mizoram	-	-	-	-
Nagaland	-	-	-	-
<b>Tripura</b>	-	-	-	-
<b>Total (All India)</b>	<b>63.40</b>	<b>72.45</b>	<b>46.23</b>	<b>54.66</b>

**TABLE 7.7**  
**COAL CONSUMPTION IN THERMAL POWER PLANTS**  
**2020-21**

QUANTITY( IN 000 Tonne)

<b>Name of State</b>	<b>Annual Coal Allocation From CIL/SCCL</b>	<b>ACTUAL RECEIPT</b>					<b>Consumption</b>
		<b>CIL/SCCL</b>	<b>Other Source</b>	<b>Import</b>	<b>Total</b>	<b>% of</b>	
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
Haryana	16904	5531	0	0	5531	33	6693
Punjab	19090	10179	0	0	10179	53	11112
Rajasthan	20828	9025	11330	0	20355	98	21400
Uttar Pradesh	47067	36338	144	0	36481	78	38210
Central Sector	49916	38321	931	55	39307	79	40694
<b>Sub-Total (NR)</b>	<b>153804</b>	<b>99395</b>	<b>12404</b>	<b>55</b>	<b>111855</b>	<b>73</b>	<b>118109</b>
Chhattisgarh	36473	36280	21501	53	57835	159	57385
Gujarat	22263	7606	0	26860	34465	155	36557
Madhya Pradesh	31981	19584	25866	0	45450	142	47408
Maharashtra	61185	50949	1774	3370	56094	92	59714
Central Sector	67777	69246	2753	309	72308	107	72444
<b>Sub-Total (WR)</b>	<b>219679</b>	<b>183665</b>	<b>51893</b>	<b>30593</b>	<b>266152</b>	<b>121</b>	<b>273509</b>
Andhra Pradesh	30747	14366	0	7546	21912	71	23152
Telangana	20396	15457	0	0	15457	76	15959
Karnataka	15661	5461	0	1681	7142	46	8429
Tamil Nadu	21291	12364	0	4805	17169	81	17655
Central Sector	38025	24927	606	342	25876	68	26466
<b>Sub-Total (SR)</b>	<b>126120</b>	<b>72574</b>	<b>606</b>	<b>14374</b>	<b>87555</b>	<b>69</b>	<b>91661</b>
Jharkhand	6534	7743	672	0	8415	129	8510
Orissa	13557	14570	4644	0	19214	142	18937
West Bengal	19981	14068	8405	12	22485	113	23168
Central Sector	75983	72739	5987	447	79173	104	79845
<b>Sub-Total (ER)</b>	<b>116055</b>	<b>109120</b>	<b>19709</b>	<b>460</b>	<b>129288</b>	<b>111</b>	<b>130460</b>
Central Sector	2500	902	525	0	1427	57	1706
<b>Sub-Total (NER)</b>	<b>2500</b>	<b>902</b>	<b>525</b>	<b>0</b>	<b>1427</b>	<b>57</b>	<b>1706</b>
<b>TOTAL ALL India</b>	<b>618158</b>	<b>465657</b>	<b>85138</b>	<b>45481</b>	<b>596276</b>	<b>96</b>	<b>615444</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 ±800 kV, ±500 kV HVDC & 765 kV, 400 kV, 230/220 kV, 132/110 kV and 66 kV AC lines. All these lines have been installed by Generation/ Transmission/ Distribution Utilities including Central Sector Organizations and State/ UT Electricity Departments.

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

The State of Uttar Pradesh has the largest Transmission and Distribution network of 1649360 Ckt. Kms in the country. Apart from Uttar Pradesh the States of Maharashtra, Rajasthan, Karnataka, Madhya Pradesh, Gujarat, Tamil Nadu, Andhra Pradesh, Telangana & West Bengal have more than 81 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
		31.03.21	31.03.20	
<b>A</b>	<b>Transmission Lines</b>			
1	±800 kV HVDC	9656	6126	57.63
2	±500 kV HVDC	9432	9432	0.00
3	± 320 KV HVDC	330		
4	765kV	46108	44851	2.80
5	400 kV	190426	181601	4.86
6	230/220 kV	191365	189836	0.81
7	132/110/90 kV	219892	210269	4.58
8	78/66 kV	72987	71285	2.39
9	33/22/20 kV	520304	508226	2.38
10	15/11 kV	4572823	4452730	2.70
11	6.6/4.4/3.3/2.2 kV	44172	44178	-0.01
<b>Total (A)</b>		<b>5877496</b>	<b>5718533</b>	<b>2.78</b>
<b>B</b>	<b>Distribution lines</b>			
12	Up to 500 volts	7801981	7560781	3.19
<b>Total (B)</b>		<b>7801981</b>	<b>7560781</b>	<b>3.19</b>
<b>Total (All India) (A+B)</b>		<b>13679477</b>	<b>13279315</b>	<b>3.01</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, 2021 were 5521 having aggregate capacity of 373074 MVA. The total numbers of step-down and distribution transformers were 92438 and 13146526 with aggregate capacity of 2051981 MVA and 677671 MVA respectively.

**TABLE NO.8.1**  
**STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES**  
**31.03.2021**

(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	± 320 KV	(O.H.)	(O.H.)				
<b>NORTHERN REGION</b>									
Chandigarh	0	0	0	0	0	0	0	0	0
Delhi	0	0	0	0	249	0	860	0	0
Haryana	0	0	0	0	1450	0	6386	5198	0
Himachal Pradesh	0	0	0	0	121	0	1779	2452	0
Jammu & Kashmir	0	0	0	0	581	0	935	2265	0
Punjab	0	0	0	0	2170	0	7865	3093	0
Rajasthan	0	1980	0	717	8403	0	16115	18346	0
Uttar Pradesh	0	0	0	2342	7456	0	13699	25006	0
Uttarakhand	0	0	0	0	464	0	1415	1590	0
Central Sector(NR)	6083	3210	0	8628	29440	0	8279	490	0
<b>Sub-Total (NR)</b>	<b>6083</b>	<b>5190</b>	<b>0</b>	<b>11688</b>	<b>50334</b>	<b>0</b>	<b>57333</b>	<b>58441</b>	<b>0</b>
<b>WESTERN REGION</b>									
Chhattisgarh	0	0	0	1147	3989	41	4455	6960	0
Gujarat	0	0	0	0	8179	0	19931	6283	0
Madhya Pradesh	0	0	0	1639	5668	0	14008	20484	0
Maharashtra	0	1504	0	2080	14373	0	20595	15454	3683
Daman & Diu	0	0	0	0	0	0	33	0	0
D. & N. Haveli	0	0	0	0	0	0	10	0	0
Goa	0	0	0	0	0	0	276	0	443
Central Sector(WR)	0	0	0	17360	28650	0	1281	159	0
<b>Sub-Total (WR)</b>	<b>0</b>	<b>1504</b>	<b>0</b>	<b>22226</b>	<b>60859</b>	<b>41</b>	<b>60589</b>	<b>49340</b>	<b>4126</b>
<b>SOUTHERN REGION</b>									
Andhra Pradesh	0	0	0	0	5558	0	11980	11883	0
Telangana	0	0	0	0	6169	0	8695	11764	0
Karnataka	0	0	0	896	4101	0	12277	0	11201
Kerala	0	0	0	0	1027	0	3326	0	5726
Tamil Nadu	0	0	0	0	4356	11477	0	0	20344
Puducherry	0	0	0	0	0	266	0	42	290
Lakshadweep	0	0	0	0	0	0	0	0	0
Central Sector(SR)	3530	2738	330	6791	23266	64	1001	0	0
<b>Sub-Total (SR)</b>	<b>3530</b>	<b>2738</b>	<b>330</b>	<b>7687</b>	<b>44476</b>	<b>11806</b>	<b>37279</b>	<b>23689</b>	<b>37560</b>
<b>EASTERN REGION</b>									
Bihar	0	0	0	0	1159	0	4883	12109	0
Jharkhand	0	0	0	0	1031	0	2022	3690	0
Odisha	0	0	0	305	1995	0	6403	7393	0
West Bengal	0	0	0	0	3096	0	4152	9734	0
Sikkim	0	0	0	0	522	0	30	55	0
A. & N. Islands	0	0	0	0	0	0	0	0	0
Central Sector(ER)	43	0	0	4203	20840	0	3884	4557	0
<b>Sub-Total (ER)</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>4508</b>	<b>28642</b>	<b>0</b>	<b>21374</b>	<b>37538</b>	<b>0</b>
<b>NORTH EASTERN REGION</b>									
Arunachal Pradesh	0	0	0	0	0	0	19	341	0
Assam	0	0	0	0	1280	0	2048	3045	0
Manipur	0	0	0	0	90	0	0	699	0
Meghalaya	0	0	0	0	4	0	227	1134	0
Mizoram	0	0	0	0	0	0	0	870	0
Nagaland	0	0	0	0	0	0	0	348	0
Tripura	0	0	0	0	1007	0	0	572	0
Central Sector(NER)	0	0	0	0	3733	0	649	2187	0
<b>Sub-Total (NER)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6115</b>	<b>0</b>	<b>2943</b>	<b>9197</b>	<b>0</b>
<b>Total Central Sector</b>	<b>9656</b>	<b>5948</b>	<b>330</b>	<b>36981</b>	<b>105927</b>	<b>64</b>	<b>15095</b>	<b>7393</b>	<b>0</b>
<b>Total (All India)</b>	<b>9656</b>	<b>9432</b>	<b>330</b>	<b>46108</b>	<b>190426</b>	<b>11847</b>	<b>179518</b>	<b>178205</b>	<b>41686</b>

**TABLE NO.8.1(CONTD.)**  
**STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES**  
**31.03.2021**

(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	133	14	9	0	0	553	361
Delhi	1452	821	931	0	0	8302	8774
Haryana	3498	7681	0	0	0	142695	0
Himachal Pradesh	702	3436	0	7906	0	24425	19
Jammu & Kashmir	236	4884	0	0	0	37820	0
Punjab	10111	71	0	0	0	248423	0
Rajasthan	303	57139	212	0	0	563954	1589
Uttar Pradesh	3139	47967	597	0	0	366271	792
Uttarakhand	42	5471	0	0	0	42572	0
Central Sector(NR)	152	119	2	68	46	18	4
<b>Sub-Total (NR)</b>	<b>19767</b>	<b>127602</b>	<b>1750</b>	<b>7974</b>	<b>46</b>	<b>1435033</b>	<b>11538</b>
<b>WESTERN REGION</b>							
Chhattisgarh	0	23283	117	0	0	122192	235
Gujarat	35016	73	523	1168	926	443329	16392
Madhya Pradesh	71	56565	0	0	0	464024	0
Maharashtra	595	48791	2438	31833	5286	325293	10612
Daman & Diu	89	0	0	0	0	147	273
D. & N. Haveli	269	0	0	0	0	840	0
Goa	0	2112	0	0	0	4056	0
Central Sector(WR)	2	0	32	0	0	13	0
<b>Sub-Total (WR)</b>	<b>36041</b>	<b>130824</b>	<b>3110</b>	<b>33002</b>	<b>6212</b>	<b>1359895</b>	<b>27513</b>
<b>SOUTHERN REGION</b>							
Andhra Pradesh	169	27688	47	0	0	228008	95
Telangana	0	26434	804	0	0	186030	512
Karnataka	11802	9302	94	0	0	394329	9798
Kerala	2535	1804	176	161	0	62885	3637
Tamil Nadu	283	7691	1029	47615	92	125790	3990
Puducherry	0	19	0	1789	0	447	0
Lakshadweep	0	0	0	0	0	0	102
Central Sector(SR)	0	0	0	0	0	0	0
<b>Sub-Total (SR)</b>	<b>14789</b>	<b>72939</b>	<b>2150</b>	<b>49564</b>	<b>92</b>	<b>997489</b>	<b>18134</b>
<b>EASTERN REGION</b>							
Bihar	0	16502	294	0	0	143570	419
Jharkhand	0	10295	195	0	0	71461	321
Orissa	0	15120	1	0	0	158472	16
West Bengal	333	17002	2482	0	50	175578	9038
Sikkim	413	0	0	0	0	3204	110
A. & N. Islands	0	539	0	0	0	916	0
Central Sector(ER)	37	1506	0	0	0	11	9
<b>Sub-Total (ER)</b>	<b>783</b>	<b>60966</b>	<b>2972</b>	<b>0</b>	<b>50</b>	<b>553213</b>	<b>9913</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	1677	0	0	0	7797	88
Meghalaya	0	2261	0	0	0	16299	0
Mizoram	111	1509	0	0	0	5641	0
Nagaland	474	2066	0	0	0	5529	0
Tripura	408	911	0	0	0	18577	0
Central Sector(NER)	0	0	0	0	0	0	0
<b>Sub-Total (NER)</b>	<b>1606</b>	<b>21050</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>160008</b>	<b>88</b>
<b>Total Central Sector</b>	<b>191</b>	<b>1625</b>	<b>34</b>	<b>68</b>	<b>46</b>	<b>42</b>	<b>13</b>
<b>Total (All India)</b>	<b>72987</b>	<b>413382</b>	<b>9983</b>	<b>90540</b>	<b>6400</b>	<b>4505637</b>	<b>67186</b>

**TABLE 8.2**  
**NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY STATEWISE**  
**UTILITIES**  
**31.03.2021**

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	18	2210200	912	37422000
Haryana	14	4910000	2504	62514099.3
Himachal Pradesh	133	4321318	854	7272681
Jammu & Kashmir	85	1253554	2400	13253550
Punjab	77	8483010	2083	63159737
Rajasthan	280	12309426	10627	127728910
Uttar Pradesh	316	17457092	6903	142710897
Uttarakhand	71	2414186	830	12638880
Central Sector(NR)	392	35722410	724	159431268
<b>Sub-Total (NR)</b>	<b>1386</b>	<b>89081196</b>	<b>27895</b>	<b>627274022.3</b>
<b>WESTERN REGION</b>				
Chhattisgarh	90	17966300	2567	32642460
Gujarat	411	31142902	5775	154694990
Madhya Pradesh	245	16932468	8503	113508345
Maharashtra	591	31502330	9372	194560250
Daman & Diu	0	0	38	1192000
D. & N. Haveli	0	0	52	1800000
Goa	2	106000	138	2610200
Central Sector(WR)	240	34934450	486	142889650
<b>Sub-Total (WR)</b>	<b>1579</b>	<b>132584450</b>	<b>26931</b>	<b>643897895</b>
<b>SOUTHERN REGION</b>				
New Andhra	299	16632490	5935	89644400
Telangana	103	9354200	6578	106083300
Karnataka	457	15886530	3763	86007900
Kerala	120	2859301	1324	25361700
Tamil Nadu	341	12738962	4356	100039440
Puducherry	2	24000	54	1484000
Lakshadweep	27	25250	0	0
Central Sector(SR)	487	30038150	438	92041850
<b>Sub-Total (SR)</b>	<b>1836</b>	<b>87558883</b>	<b>22448</b>	<b>500662590</b>
<b>EASTERN REGION</b>				
Bihar	16	321000	3159	44234400
Jharkhand	13	4605600	1216	16547630
Odisha	145	6356200	2665	34545240
West Bengal	87	10890450	2992	63301630
Sikkim	40	4707430	52	405000
A.& N. Islands	8	65000	12	50600
Central Sector(ER)	182	28875850	634	90392600
<b>Sub-Total (ER)</b>	<b>491</b>	<b>55821530</b>	<b>10730</b>	<b>249477100</b>
<b>NORTH EASTERN REGION</b>				
Arunachal Pradesh	39	20031	185	609465
Assam	27	555000	3270	11832480
Manipur	4	50000	241	1894250
Meghalaya	25	441900	221	2459526
Mizoram	20	63239	120	618400
Nagaland	12	32330	128	562100
Tripura	11	927640	168	1622100
Central Sector(NER)	91	5937970	101	11070600
<b>Sub-Total (NER)</b>	<b>229</b>	<b>8028110</b>	<b>4434</b>	<b>30668921</b>
<b>Total Central Sector</b>	<b>1392</b>	<b>135508830</b>	<b>2383</b>	<b>495825968</b>
<b>Total (All India)</b>	<b>5521</b>	<b>373074168</b>	<b>92438</b>	<b>2051980528</b>

**TABLE 8.2(CONTD.)**  
**NUMBER OF TRANSFORMERS AND THEIR AGGREGATECAPACITY STATEWISE**  
**UTILITIES**  
**31.03.2021**

Name of the State/U.Ts.	DISTRIBUTION	
	Nos.	Capacity(KVA)
<b>NORTHERN REGION</b>		
Chandigarh	2345	770648
Delhi	83844	16206197
Haryana	611298	31618864
Himachal Pradesh	33611	3047995
Jammu & Kashmir	52708	6674515
Punjab	1148489	37887242
Rajasthan	2010829	53270033
Uttar Pradesh	936294	42907012
Uttarakhand	69616	4875936
Central Sector(NR)	1089	10784142
<b>Sub-Total (NR)</b>	<b>4950123</b>	<b>208042584</b>
<b>WESTERN REGION</b>		
Chhattisgarh	192303	11964355
Gujarat	1710276	60902781
Madhya Pradesh	915060	46611297
Maharashtra	762624	84205117
Daman & Diu	926	264915
D. & N. Haveli	1109	222850
Goa	6394	1208297
Central Sector(WR)	601	936194
<b>Sub-Total (WR)</b>	<b>3589293</b>	<b>206315806</b>
<b>SOUTHERN REGION</b>		
New Andhra	1215048	39223499
Telangana	767593	34237211
Karnataka	1019818	55747076
Kerala	110353	14386596
Tamil Nadu	348119	45333400
Puducherry	2796	653485
Lakshadweep	108	17387
Central Sector(SR)	787	925755
<b>Sub-Total (SR)</b>	<b>3464622</b>	<b>190524409</b>
<b>EASTERN REGION</b>		
Bihar	294598	20770113
Jharkhand	130649	8721626
Orissa	256761	12738704
West Bengal	314895	18632199
Sikkim	2934	392410
A.& N. Islands	1147	207266
Central Sector(ER)	1155	1740503
<b>Sub-Total (ER)</b>	<b>1002139</b>	<b>63202821</b>
<b>NORTH EASTERN REGION</b>		
Arunachal Pradesh	8892	448648
Assam	88178	5808501
Manipur	8205	600000
Meghalaya	11828	776022
Mizoram	2705	326167
Nagaland	3626	327391
Tripura	16862	1236830
Central Sector(NER)	53	62230
<b>Sub-Total (NER)</b>	<b>140349</b>	<b>9585789</b>
<b>Total Central Sector</b>	<b>3685</b>	<b>14448824</b>
<b>Total (All India)</b>	<b>13146526</b>	<b>677671408</b>



# CHAPTER 9

## ELECTRICITY UTILISATION





## CHAPTER 9

### ELECTRICITY UTILISATION

#### I. Electrical Energy Consumption

Electricity consumption by various categories of consumers served by utilities during the year 2020-21 was 1041655.63 GWh registering a decrease of 1.02% over previous year.

As in the preceding year, the major portion of electricity viz. 950531.20 GWh representing 91.25% of the total energy consumption was distributed by the Public Sector and remaining 8.75% was distributed by the private sector (including Cooperatives Societies). Out of 91.25% of energy distributed by the Public Sector, the Municipalities distributed 0.47% and the Electricity Departments of the States and Union Territories and State Govt. distribution companies distributed balance 90.78%. 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 2.93%, 0.86%, 0.92%, 0.69% and 1.63% adding up 7.02% only and the balance of 1.73% 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 2020-21 are tabulated below: -

Sl. No	Agency	Electrical Energy Sold to Ultimate Consumers		
		Quantum (GWh)	% of total Consumption	% increase over 2019-20
1.	Elect. Deptts. of State & UTs/State Govt. Distribution Companies	945598.71	90.78	0.02
2.	Municipalities	4932.50	0.47	-20.13
3.	Private Licensees (including Coop. Societies)	91124.43	8.75	-9.60
	<b>Total</b>	<b>1041655.63</b>	<b>100.00</b>	<b>-1.02</b>

Regarding to the energy consumed by various classes of consumers, the Domestic category of consumers, consumed highest energy i.e. 31.76% of total energy sold by Utilities as compared to 29.34% during 2019-20. The energy sales to Domestic consumers registered an increase of 7.15% over the previous year.

Industrial consumers, the second largest category amongst the consumers consumed 30.74% of total energy sales as compared to 32.03% during the previous year. The consumption of energy under this Sector decreased by 5.00% over the previous year.

Agricultural consumers, the third largest category amongst the consumers consumed 21.25% of total energy sales as compared to 20.08% during the previous year. The consumption of energy by this Sector increased by 4.74% over the previous year.

The electricity consumption in the Commercial category during the year was 86950.28 GWh registering a decrease of 18.01% while the electricity consumption in the Public Lighting category was 9117.44 GWh registering a fall of 3.33% against the overall decrease of 1.02% 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 2020-21 was 1230207.98 GWh as compared to 1248085.82 GWh during the year 2019-20 registering decrease of 1.43% over the previous year. The last two years have been difficult for the Indian economy on account of the COVID-19 pandemic, impact of which has been reflected in the power consumption pattern for 2020-21. The electricity consumption pattern for the year 2020-21 has shown improved share of Domestic and Agriculture electricity consumption. However, share of Industrial and Commercial consumption has decreased. The share of total Domestic consumption was 26.89% during the year 2020-21 as compared to 24.74% during the year 2019-20 and registered a growth of 7.15% over the previous year. The share of Agriculture consumption was 17.99% during the year 2020-21 as compared to 16.93% during the year 2019-20 and registered a growth of 4.74% over the previous year. The share of Industrial consumption was 41.36% during the year 2020-21 as compared to 42.69% during the year 2019-20 and registered a decrease of 4.51% over the previous year. The share of Commercial consumption was 7.07% during the year 2020-21 as compared to 8.50% during the year 2019-20 and registered a decrease of 18.01% over the previous year

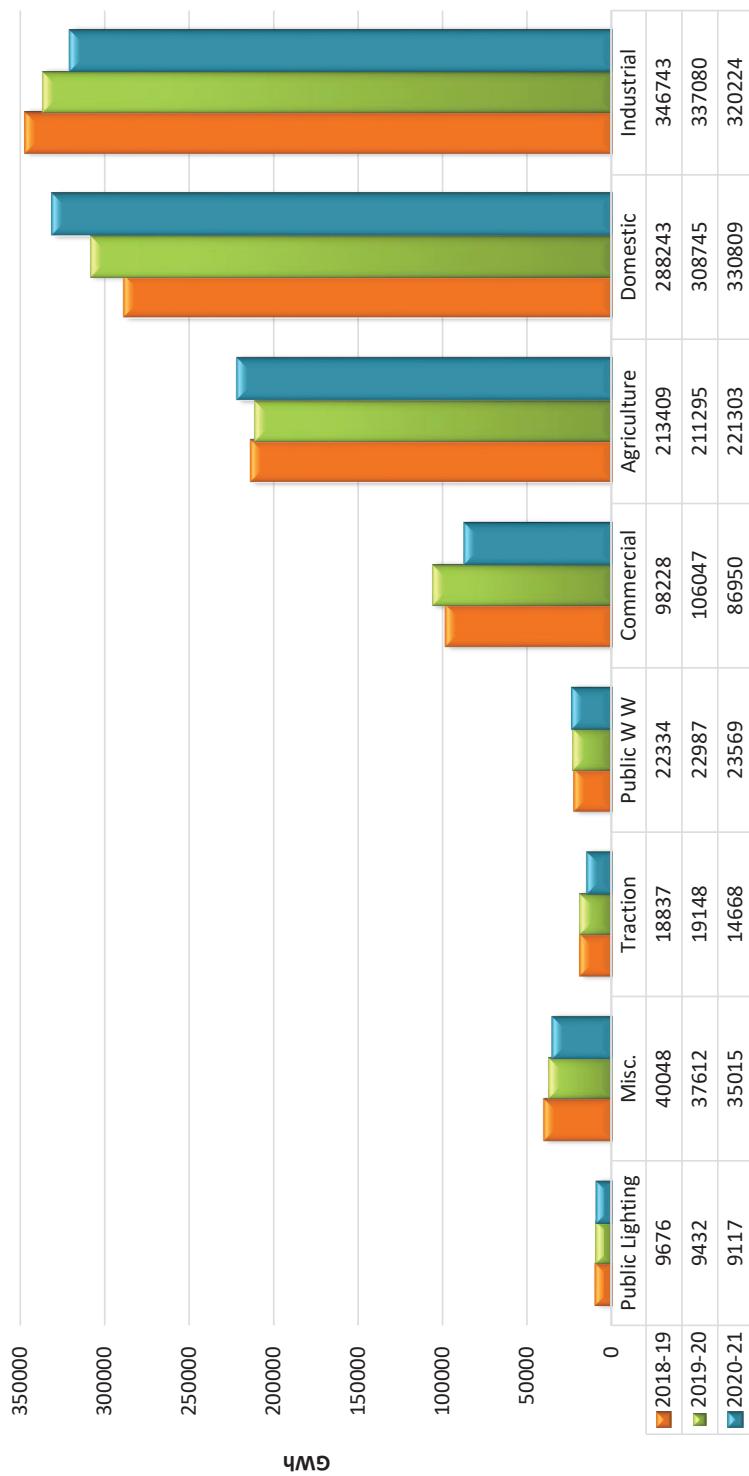
## **III. Per Capita Electricity Consumption**

The per capita consumption of electricity on All India basis works out to 1161 kWh for the year 2020-21 against 1208 kWh in the year 2019-20. 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 2020-21, the total number of electrical accidents reported was 23763 which comprised 9028 human fatal accidents, 3750 human non-fatal accidents, 10758 animal fatal accidents and 227 animal non-fatal accidents. The details of electrical accidents are displayed in table 9.10.

**GROWTH OF CATEGORY-WISE ELECTRICITY CONSUMPTION**  
**UTILITIES**  
**2018-19 to 2020-21**



**TABLE 9.1**  
**ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE**  
**(UTILITIES)**  
**2020-21**

Category	Energy Sold During 2020-21 (GWh)	% of Total Energy Sold in 2020-21	Energy Sold During 2019-20 (GWh)	% of Total Energy Sold in 2019-20	% Increase in Sale over Previous Year 2019-20
Domestic	330808.94	31.76	308745.36	29.34	7.15
Commercial	86950.28	8.35	106047.13	10.08	-18.01
Industrial Power	320223.84	30.74	337080.24	32.03	-5.00
Public Lighting	9117.44	0.88	9431.81	0.90	-3.33
Railway/ Tramways	14668.02	1.41	19147.99	1.82	-23.40
Agriculture	221303.44	21.25	211294.89	20.08	4.74
Public Water Works & Sewage Pumping	23568.57	2.26	22987.14	2.18	2.53
Miscellaneous	35015.12	3.36	37611.79	3.57	-6.90
<b>Total</b>	<b>1041655.63</b>	<b>100.00</b>	<b>1052346.36</b>	<b>100.00</b>	<b>-1.02</b>

**TABLE 9.1(A)**  
**ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE**  
**(UTILITIES & NON-UTILITIES)**  
**2020-21**

Category	Energy Sold During 2020-21 (GWh)	% of Total Energy Sold in 2020-21	Energy Sold During 2019-20 (GWh)	% of Total Energy Sold in 2019-20	% Increase in Sale over Previous Year 2019-20
Domestic	330808.94	26.89	308745.36	24.74	7.15
Commercial	86950.28	7.07	106047.13	8.50	-18.01
Industrial Power	508776.19	41.36	532819.70	42.69	-4.51
Public Lighting	9117.44	0.74	9431.81	0.76	-3.33
Railways/ Tramways	14668.02	1.19	19147.99	1.53	-23.40
Agriculture	221303.44	17.99	211294.89	16.93	4.74
Public Water Works & Sewage Pumping	23568.57	1.92	22987.14	1.84	2.53
Miscellaneous	35015.12	2.85	37611.79	3.01	-6.90
<b>Total</b>	<b>1230207.98</b>	<b>100.00</b>	<b>1248085.82</b>	<b>100.00</b>	<b>-1.43</b>

**TABLE 9.2**  
**ALL INDIA ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS**  
**OWNERSHIP-WISE/STATE-WISE**  
**(UTILITIES)**  
**2020-21**

State / UTs	S.E.B.s	Municipalities	Govt. Deptts./ Undertakings/ Corporations	Private Sector	Total (GWh)
Chandigarh	0.00	0.00	1349.09	0.00	1349.09
Delhi	0.00	973.00	79.24	25266.98	26319.22
Haryana	0.00	0.00	41943.83	0.00	41943.83
Himachal Pradesh	0.00	0.00	8635.31	0.00	8635.31
Jammu & Kashmir	0.00	0.00	9984.32	0.00	9984.32
Punjab	0.00	0.00	50285.69	0.00	50285.69
Rajasthan	0.00	0.00	64656.84	231.50	64888.34
Uttar Pradesh	0.00	0.00	91588.04	2012.04	93600.08
Uttarakhand	0.00	0.00	11225.05	0.00	11225.05
<b>Sub-Total (NR)</b>	<b>0.00</b>	<b>973.00</b>	<b>279747.40</b>	<b>27510.52</b>	<b>308230.92</b>
Chhattisgarh	0.00	0.00	23361.34	0.00	23361.34
Gujarat	0.00	0.00	78368.94	13906.94	92275.88
Madhya Pradesh	0.00	0.00	60355.91	598.21	60954.12
Maharashtra	0.00	3838.41	111237.27	11347.37	126423.05
Daman & Diu	0.00	0.00	2136.68	0.00	2136.68
D & N Haveli	0.00	0.00	5286.39	0.00	5286.39
Goa	0.00	0.00	3575.76	124.44	3700.21
<b>Sub-Total (WR)</b>	<b>0.00</b>	<b>3838.41</b>	<b>284322.29</b>	<b>25976.97</b>	<b>314137.68</b>
Andhra Pradesh	0.00	0.00	51054.77	701.26	51756.03
Telangana	0.00	0.00	57091.43	804.88	57896.31
Karnataka	0.00	0.00	60386.60	2396.54	62783.14
Kerala	0.00	121.08	22268.76	208.94	22598.78
Tamil Nadu	0.00	0.00	94592.04	0.00	94592.04
Puducherry	0.00	0.00	2603.14	0.00	2603.14
Lakshadweep	0.00	0.00	53.10	0.00	53.10
<b>Sub-Total (SR)</b>	<b>0.00</b>	<b>121.08</b>	<b>288049.85</b>	<b>4111.61</b>	<b>292282.54</b>
Bihar	0.00	0.00	24108.37	0.00	24108.37
Jharkhand	0.00	0.00	18285.54	3089.64	21375.17
Odisha	0.00	0.00	0.00	20609.57	20609.57
West Bengal	0.00	0.00	38567.77	9826.12	48393.90
Sikkim	0.00	0.00	414.77	0.00	414.77
A & N Islands	0.00	0.00	245.13	0.00	245.13
<b>Sub-Total (ER)</b>	<b>0.00</b>	<b>0.00</b>	<b>81621.58</b>	<b>33525.32</b>	<b>115146.91</b>
Arunachal Pradesh	0.00	0.00	405.11	0.00	405.11
Assam	0.00	0.00	7356.29	0.00	7356.29
Manipur	0.00	0.00	651.30	0.00	651.30
Meghalaya	0.00	0.00	1326.45	0.00	1326.45
Mizoram	0.00	0.00	453.54	0.00	453.54
Nagaland	0.00	0.00	682.57	0.00	682.57
Tripura	0.00	0.00	982.33	0.00	982.33
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>0.00</b>	<b>11857.59</b>	<b>0.00</b>	<b>11857.59</b>
<b>Total (All India)</b>	<b>0.00</b>	<b>4932.50</b>	<b>945598.71</b>	<b>91124.43</b>	<b>1041655.63</b>

**TABLE 9.3**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE**  
**UTILITIES**  
**2020-21**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	695.00	334.31	120.34	93.89	12.14
Delhi	16439.52	5314.07	2341.12	478.12	328.09
Haryana	11970.24	4005.99	2045.88	10758.18	168.01
Himachal Pradesh	2356.54	518.42	85.03	4687.42	10.48
Jammu & Kashmir	4887.71	1707.24	238.23	925.37	127.03
Punjab	15324.00	3465.00	3130.00	12586.94	210.00
Rajasthan	14257.93	4092.87	2113.69	11537.33	339.07
Uttar Pradesh	43955.07	6285.63	3985.69	10251.79	732.82
Uttarakhand	3207.31	1337.35	261.22	5442.36	53.27
<b>Sub-Total (NR)</b>	<b>113093.31</b>	<b>27060.90</b>	<b>14321.20</b>	<b>56761.40</b>	<b>1980.91</b>
Chhattisgarh	6447.32	1419.51	609.67	7514.40	98.47
Gujarat	16510.22	4314.36	14606.24	41125.28	152.05
Madhya Pradesh	16790.81	3370.14	1291.37	9247.62	470.44
Maharashtra	30193.01	9546.78	9880.65	34151.33	1863.29
Daman & Diu	138.24	39.87	184.48	1749.84	5.52
D & N Haveli	149.28	32.65	193.09	4898.91	2.45
Goa	1265.68	424.68	106.12	1810.00	26.29
<b>Sub-Total (WR)</b>	<b>71494.55</b>	<b>19147.98</b>	<b>26871.63</b>	<b>100497.38</b>	<b>2618.51</b>
Andhra Pradesh	17477.79	3051.17	2280.09	14267.29	214.66
Telangana	12806.97	4843.07	1228.28	11247.58	342.22
Karnataka	15668.55	6759.47	1913.20	9741.96	1036.90
Kerala	12765.35	4267.62	1144.99	2925.81	379.75
Tamil Nadu	32721.90	8976.93	9332.13	23512.06	1291.89
Puducherry	842.43	189.33	164.94	1300.14	23.23
Lakshadweep	40.35	11.47	0.37	0.00	0.82
<b>Sub-Total (SR)</b>	<b>92323.34</b>	<b>28099.07</b>	<b>16064.00</b>	<b>62994.85</b>	<b>3289.47</b>
Bihar	15045.49	2396.14	807.96	2762.59	83.94
Jharkhand \$	6475.17	1033.02	309.91	11832.01	87.36
Odisha	8420.21	2157.67	405.46	6025.33	240.37
West Bengal \$	17536.06	5455.58	2142.09	15587.53	706.34
Sikkim	115.38	30.00	2.20	242.58	0.30
A & N Islands	148.06	49.21	9.16	0.00	6.49
<b>Sub-Total (ER)</b>	<b>47740.37</b>	<b>11121.62</b>	<b>3676.79</b>	<b>36450.03</b>	<b>1124.79</b>
Arunachal Pradesh	188.86	53.71	1.31	126.20	10.32
Assam	3784.98	1099.73	120.12	1570.73	18.65
Manipur	429.03	75.82	18.90	11.72	5.13
Meghalaya	500.01	81.58	4.55	616.63	0.55
Mizoram	276.24	52.72	4.06	5.54	2.11
Nagaland	390.03	85.15	63.35	0.00	20.94
Tripura	588.22	72.00	17.39	26.05	46.07
<b>Sub-Total (NER)</b>	<b>6157.37</b>	<b>1520.71</b>	<b>229.69</b>	<b>2356.88</b>	<b>103.77</b>
<b>Total (All India)</b>	<b>330808.94</b>	<b>86950.28</b>	<b>61163.30</b>	<b>259060.54</b>	<b>9117.44</b>

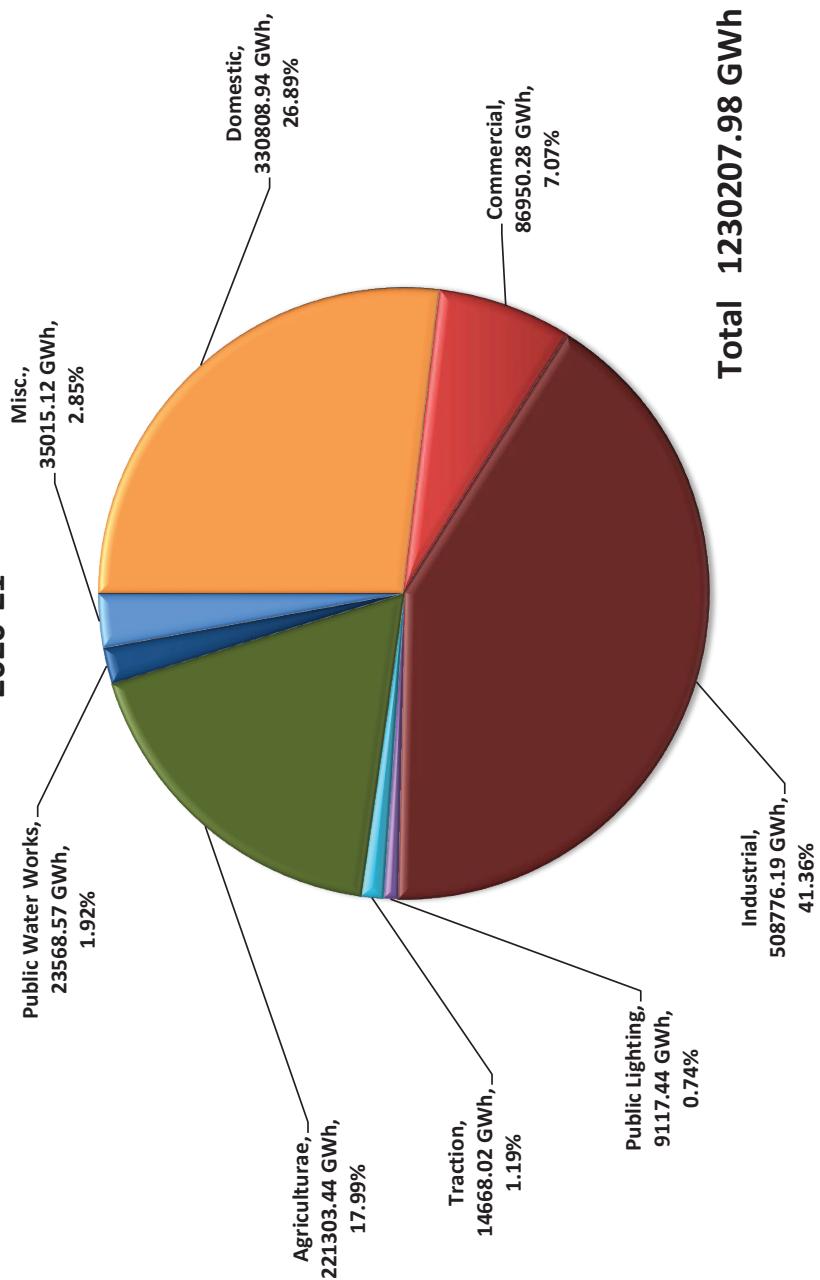
**TABLE 9.3 (CONTD.)**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE**  
**UTILITIES**  
**2020-21**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	1.37	53.79	38.27	1349.09
Delhi	77.50	39.44	644.37	657.00	26319.22
Haryana	286.00	10087.50	1148.41	1473.62	41943.83
Himachal Pradesh	0.00	72.64	602.92	301.86	8635.31
Jammu & Kashmir	9.40	361.57	779.59	948.17	9984.32
Punjab	122.80	13092.85	0.00	2354.10	50285.69
Rajasthan	231.50	28525.48	2584.76	1205.70	64888.34
Uttar Pradesh	1424.20	18931.27	1637.92	6395.68	93600.08
Uttarakhand	25.10	189.99	498.45	210.00	11225.05
<b>Sub-Total (NR)</b>	<b>2176.50</b>	<b>71302.10</b>	<b>7950.21</b>	<b>13584.40</b>	<b>308230.92</b>
Chhattisgarh	908.45	5902.81	460.72	0.00	23361.34
Gujarat	433.21	12663.82	2108.36	362.34	92275.88
Madhya Pradesh	1806.89	25645.52	1378.99	952.35	60954.12
Maharashtra	1996.29	33912.33	3047.29	1832.09	126423.05
Daman & Diu	0.00	3.40	2.46	12.87	2136.68
D & N Haveli	0.00	4.85	5.15	0.00	5286.39
Goa	0.00	31.25	0.00	36.18	3700.21
<b>Sub-Total (WR)</b>	<b>5144.84</b>	<b>78163.98</b>	<b>7002.96</b>	<b>3195.83</b>	<b>314137.68</b>
Andhra Pradesh	1399.21	9368.73	630.92	3066.16	51756.03
Telangana	567.48	22260.11	980.72	3619.89	57896.31
Karnataka	90.22	22337.19	3814.18	1421.45	62783.14
Kerala	168.69	412.02	0.25	534.29	22598.78
Tamil Nadu	564.50	13974.68	1291.89	2926.06	94592.04
Puducherry	0.00	68.57	0.00	14.50	2603.14
Lakshadweep	0.00	0.00	0.00	0.09	53.10
<b>Sub-Total (SR)</b>	<b>2790.10</b>	<b>68421.30</b>	<b>6717.96</b>	<b>11582.46</b>	<b>292282.54</b>
Bihar	1056.10	1149.30	216.22	590.64	24108.37
Jharkhand \$	825.94	203.60	0.00	608.17	21375.17
Odisha	1330.30	644.66	329.47	1056.10	20609.57
West Bengal \$	1344.23	1332.23	1033.23	3256.61	48393.90
Sikkim	0.00	0.00	0.00	24.31	414.77
A & N Islands	0.00	1.11	0.00	31.09	245.13
<b>Sub-Total (ER)</b>	<b>4556.57</b>	<b>3330.90</b>	<b>1578.92</b>	<b>5566.92</b>	<b>115146.91</b>
Arunachal Pradesh	0.00	0.77	9.32	14.61	405.11
Assam	0.00	39.00	80.38	642.70	7356.29
Manipur	0.00	7.08	21.07	82.55	651.30
Meghalaya	0.00	0.14	38.94	84.04	1326.45
Mizoram	0.00	0.16	82.45	30.26	453.54
Nagaland	0.00	0.00	10.41	112.69	682.57
Tripura	0.00	38.00	75.95	118.66	982.33
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>85.15</b>	<b>318.51</b>	<b>1085.50</b>	<b>11857.59</b>
<b>Total (All India)</b>	<b>14668.02</b>	<b>221303.44</b>	<b>23568.57</b>	<b>35015.12</b>	<b>1041655.63</b>

## ELECTRICITY CONSUMPTION PATTERN UTILITIES & NON-UTILITIES

2020-21



**TABLE 9.3(A)**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE**  
**UTILITIES & NON-UTILITIES**  
**2020-21**

<b>State / UTs</b>	<b>Domestic</b>	<b>Commercial</b>	<b>Industrial Power</b>		<b>Public Lighting</b>	<b>(GWh)</b>
			<b>(Low &amp; Med. Voltage)</b>	<b>(High Voltage)</b>		
Chandigarh	695.00	334.31	120.34	98.39	12.14	
Delhi	16439.52	5314.07	2341.12	478.76	328.09	
Haryana	11970.24	4005.99	2045.88	14142.99	168.01	
Himachal Pradesh	2356.54	518.42	85.03	4824.03	10.48	
Jammu & Kashmir	4887.71	1707.24	238.23	926.64	127.03	
Punjab	15324.00	3465.00	3130.00	15206.80	210.00	
Rajasthan	14257.93	4092.87	2113.69	20893.09	339.07	
Uttar Pradesh	43955.07	6285.63	3985.69	22303.81	732.82	
Uttarakhand	3207.31	1337.35	261.22	6310.33	53.27	
<b>Sub-Total (NR)</b>	<b>113093.31</b>	<b>27060.90</b>	<b>14321.20</b>	<b>85184.83</b>	<b>1980.91</b>	
Chhattisgarh	6447.32	1419.51	609.67	32422.00	98.47	
Gujarat	16510.22	4314.36	14606.24	62086.20	152.05	
Madhya Pradesh	16790.81	3370.14	1291.37	18827.90	470.44	
Maharashtra	30193.01	9546.78	9880.65	42391.54	1863.29	
Daman & Diu	138.24	39.87	184.48	1750.34	5.52	
D & N Haveli	149.28	32.65	193.09	4921.26	2.45	
Goa	1265.68	424.68	106.12	2472.21	26.29	
<b>Sub-Total (WR)</b>	<b>71494.55</b>	<b>19147.98</b>	<b>26871.63</b>	<b>164871.44</b>	<b>2618.51</b>	
Andhra Pradesh	17477.79	3051.17	2280.09	21925.65	214.66	
Telangana	12806.97	4843.07	1228.28	14256.60	342.22	
Karnataka	15668.55	6759.47	1913.20	21193.53	1036.90	
Kerala	12765.35	4267.62	1144.99	3841.13	379.75	
Tamil Nadu	32721.90	8976.93	9332.13	31073.29	1291.89	
Puducherry	842.43	189.33	164.94	1432.41	23.23	
Lakshadweep	40.35	11.47	0.37	0.00	0.82	
<b>Sub-Total (SR)</b>	<b>92323.34</b>	<b>28099.07</b>	<b>16064.00</b>	<b>93722.62</b>	<b>3289.47</b>	
Bihar	15045.49	2396.14	807.96	3268.42	83.94	
Jharkhand \$	6475.17	1033.02	309.91	18130.05	87.36	
Odisha	8420.21	2157.67	405.46	59114.00	240.37	
West Bengal \$	17536.06	5455.58	2142.09	19332.73	706.34	
Sikkim	115.38	30.00	2.20	242.58	0.30	
A & N Islands	148.06	49.21	9.16	0.00	6.49	
<b>Sub-Total (ER)</b>	<b>47740.37</b>	<b>11121.62</b>	<b>3676.79</b>	<b>100087.77</b>	<b>1124.79</b>	
Arunachal Pradesh	188.86	53.71	1.31	126.20	10.32	
Assam	3784.98	1099.73	120.12	2910.35	18.65	
Manipur	429.03	75.82	18.90	11.72	5.13	
Meghalaya	500.01	81.58	4.55	666.36	0.55	
Mizoram	276.24	52.72	4.06	5.54	2.11	
Nagaland	390.03	85.15	63.35	0.00	20.94	
Tripura	588.22	72.00	17.39	26.05	46.07	
<b>Sub-Total (NER)</b>	<b>6157.37</b>	<b>1520.71</b>	<b>229.69</b>	<b>3746.22</b>	<b>103.77</b>	
<b>Total (All India)</b>	<b>330808.94</b>	<b>86950.28</b>	<b>61163.30</b>	<b>447612.89</b>	<b>9117.44</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 CATEGORYWISE/STATEWISE**  
**UTILITIES & NON-UTILITIES**  
**2020-21**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	1.37	53.79	38.27	1353.60
Delhi	77.50	39.44	644.37	657.00	26319.86
Haryana	286.00	10087.50	1148.41	1473.62	45328.64
Himachal Pradesh	0.00	72.64	602.92	301.86	8771.92
Jammu & Kashmir	9.40	361.57	779.59	948.17	9985.58
Punjab	122.80	13092.85	0.00	2354.10	52905.55
Rajasthan	231.50	28525.48	2584.76	1205.70	74244.09
Uttar Pradesh	1424.20	18931.27	1637.92	6395.68	105652.10
Uttarakhand	25.10	189.99	498.45	210.00	12093.02
<b>Sub-Total (NR)</b>	<b>2176.50</b>	<b>71302.10</b>	<b>7950.21</b>	<b>13584.40</b>	<b>336654.36</b>
Chhattisgarh	908.45	5902.81	460.72	0.00	48268.94
Gujarat	433.21	12663.82	2108.36	362.34	113236.80
Madhya Pradesh	1806.89	25645.52	1378.99	952.35	70534.40
Maharashtra	1996.29	33912.33	3047.29	1832.09	134663.26
Daman & Diu	0.00	3.40	2.46	12.87	2137.18
D & N Haveli	0.00	4.85	5.15	0.00	5308.74
Goa	0.00	31.25	0.00	36.18	4362.42
<b>Sub-Total (WR)</b>	<b>5144.84</b>	<b>78163.98</b>	<b>7002.96</b>	<b>3195.83</b>	<b>378511.74</b>
Andhra Pradesh	1399.21	9368.73	630.92	3066.16	59414.38
Telangana	567.48	22260.11	980.72	3619.89	60905.34
Karnataka	90.22	22337.19	3814.18	1421.45	74234.71
Kerala	168.69	412.02	0.25	534.29	23514.10
Tamil Nadu	564.50	13974.68	1291.89	2926.06	102153.27
Puducherry	0.00	68.57	0.00	14.50	2735.41
Lakshadweep	0.00	0.00	0.00	0.09	53.10
<b>Sub-Total (SR)</b>	<b>2790.10</b>	<b>68421.30</b>	<b>6717.96</b>	<b>11582.46</b>	<b>323010.31</b>
Bihar	1056.10	1149.30	216.22	590.64	24614.20
Jharkhand \$	825.94	203.60	0.00	608.17	27673.21
Odisha	1330.30	644.66	329.47	1056.10	73698.24
West Bengal \$	1344.23	1332.23	1033.23	3256.61	52139.10
Sikkim	0.00	0.00	0.00	24.31	414.77
A & N Islands	0.00	1.11	0.00	31.09	245.13
<b>Sub-Total (ER)</b>	<b>4556.57</b>	<b>3330.90</b>	<b>1578.92</b>	<b>5566.92</b>	<b>178784.65</b>
Arunachal Pradesh	0.00	0.77	9.32	14.61	405.11
Assam	0.00	39.00	80.38	642.70	8695.91
Manipur	0.00	7.08	21.07	82.55	651.30
Meghalaya	0.00	0.14	38.94	84.04	1376.18
Mizoram	0.00	0.16	82.45	30.26	453.54
Nagaland	0.00	0.00	10.41	112.69	682.57
Tripura	0.00	38.00	75.95	118.66	982.33
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>85.15</b>	<b>318.51</b>	<b>1085.50</b>	<b>13246.93</b>
<b>Total (All India)</b>	<b>14668.02</b>	<b>221303.44</b>	<b>23568.57</b>	<b>35015.12</b>	<b>1230207.98</b>



**TABLE 9.4**  
**ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES**  
**CATEGORY-WISE & STATE-WISE**  
**2020-21**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Delhi	16104.28	4604.07	2341.12	478.12	321.09
Rajasthan	0.00	0.00	0.00	0.00	0.00
Uttar Pradesh	617.44	208.92	1068.65	0.00	31.06
<b>Sub-Total (NR)</b>	<b>16721.72</b>	<b>4812.99</b>	<b>3409.77</b>	<b>478.12</b>	<b>352.15</b>
Gujarat	3885.21	1433.69	5248.35	3041.79	17.09
Madhya Pradesh	255.85	30.79	36.40	0.00	5.71
Maharashtra	6186.18	2839.73	705.75	1323.65	0.00
Goa	0.00	0.00	31.29	93.15	0.00
<b>Sub-Total (WR)</b>	<b>10327.24</b>	<b>4304.21</b>	<b>6021.80</b>	<b>4458.59</b>	<b>22.79</b>
Andhra Pradesh	213.35	28.66	37.54	0.00	8.55
Telangana	125.70	20.02	102.28	0.00	6.32
Karnataka	34.66	8.06	5.88	2149.71	2.36
Kerala	7.44	9.57	43.52	145.14	0.53
<b>Sub-Total (SR)</b>	<b>381.15</b>	<b>66.32</b>	<b>189.22</b>	<b>2294.85</b>	<b>17.75</b>
Jharkhand	304.93	55.79	12.24	2349.86	40.94
Odisha	8420.21	2157.67	405.46	6025.33	240.37
West Bengal	4663.74	1460.27	725.16	1814.42	243.12
<b>Sub-Total (ER)</b>	<b>13388.87</b>	<b>3673.73</b>	<b>1142.87</b>	<b>10189.60</b>	<b>524.43</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>40818.98</b>	<b>12857.25</b>	<b>10763.65</b>	<b>17421.15</b>	<b>917.12</b>

**TABLE 9.4 (CONTD.)**  
**ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES**  
**CATEGORY-WISE & STATE-WISE**  
**2020-21**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Delhi	77.50	39.44	644.37	657.00	25266.98
Rajasthan	231.50	0.00	0.00	0.00	231.50
Uttar Pradesh	0.00	19.55	22.54	43.88	2012.04
<b>Sub-Total (NR)</b>	<b>309.00</b>	<b>58.99</b>	<b>666.91</b>	<b>700.88</b>	<b>27510.52</b>
Gujarat	11.18	46.35	182.75	40.53	13906.94
Madhya Pradesh	0.00	225.57	17.86	26.04	598.21
Maharashtra	60.17	0.26	231.63	0.01	11347.37
Goa	0.00	0.00	0.00	0.00	124.44
<b>Sub-Total (WR)</b>	<b>71.35</b>	<b>272.18</b>	<b>432.24</b>	<b>66.58</b>	<b>25976.97</b>
Andhra Pradesh	0.00	384.86	23.90	4.40	701.26
Telangana	0.00	481.87	67.33	1.37	804.88
Karnataka	0.00	181.15	14.25	0.47	2396.54
Kerala	0.00	0.60	0.09	2.04	208.94
<b>Sub-Total (SR)</b>	<b>0.00</b>	<b>1048.48</b>	<b>105.57</b>	<b>8.27</b>	<b>4111.61</b>
Jharkhand	1.54	0.00	0.00	324.34	3089.64
Orissa	1330.30	644.66	329.47	1056.10	20609.57
West Bengal	172.06	0.00	507.02	240.33	9826.12
<b>Sub-Total (ER)</b>	<b>1503.90</b>	<b>644.66</b>	<b>836.49</b>	<b>1620.77</b>	<b>33525.32</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>1884.248344</b>	<b>2024.32</b>	<b>2041.20</b>	<b>2396.51</b>	<b>91124.43</b>

**TABLE 9.5**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY**  
**DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.**  
**UNDERTAKINGS AND MUNICIPALITIES CATEGORY-WISE & STATE-WISE**  
**2020-21**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
<b>I. MUNICIPALITIES</b>					
N.D.M.C (Delhi)	256.00	710.00	0.00	0.00	7.00
Maharashtra	1927.09	1553.54	148.47	144.92	15.92
Kerala	43.14	43.08	3.05	0.00	1.34
Sub-Total	2226.23	2306.62	151.52	144.92	24.26
<b>II. GOVT. DEPTT. / CENTRAL SECTOR UNDERTAKINGS / CORPORATIONS</b>					
Chandigarh	695.00	334.31	120.34	93.89	12.14
Delhi	79.24	0.00	0.00	0.00	0.00
Haryana	11970.24	4005.99	2045.88	10758.18	168.01
Himachal Pradesh	2356.54	518.42	85.03	4687.42	10.48
Jammu & Kashmir	1460.81	1195.23	160.13	679.38	116.98
Punjab	15324.00	3465.00	3130.00	12586.94	210.00
Rajasthan	14257.93	4092.87	2113.69	11537.33	339.07
Uttar Pradesh	43337.63	6076.71	2917.04	10251.79	701.76
Uttarakhand	3207.31	1337.35	261.22	5442.36	53.27
Chhattisgarh	6447.32	1419.51	609.67	7514.40	98.47
Gujarat	12625.01	2880.67	9357.89	38083.49	134.97
Madhya Pradesh	16534.96	3339.35	1254.97	9247.62	464.73
Maharashtra	22079.74	5153.51	9026.43	32682.77	1847.37
Daman & Diu	138.24	39.87	184.48	1749.84	5.52
D & N Haveli	149.28	32.65	193.09	4898.91	2.45
Goa	1265.68	424.68	74.83	1716.85	26.29
Andhra Pradesh	17264.43	3022.51	2242.56	14267.29	206.11
Telangana	12681.27	4823.04	1126.00	11247.58	335.90
Karnataka	15633.89	6751.41	1907.32	7592.26	1034.54
Kerala	12714.76	4214.96	1098.42	2780.67	377.88
Tamil Nadu	32721.90	8976.93	9332.13	23512.06	1291.89
Puducherry	842.43	189.33	164.94	1300.14	23.23
Lakshadweep	40.35	11.47	0.37	0.00	0.82
Bihar	15045.49	2396.14	807.96	2762.59	83.94
DVC in Jharkhand	0.00	0.00	0.00	7540.20	0.00
DVC in West Bengal	0.00	17.27	36.22	5532.44	0.00
Jharkhand	6170.24	977.23	297.67	1941.95	46.42
Odisha	0.00	0.00	0.00	0.00	0.00
West Bengal	12872.32	3978.04	1380.70	8240.67	463.22
Sikkim	115.38	30.00	2.20	242.58	0.30
A. & N. Islands	148.06	49.21	9.16	0.00	6.49
Arunachal Pradesh	188.86	53.71	1.31	126.20	10.32
Assam	3784.98	1099.73	120.12	1570.73	18.65
Manipur	429.03	75.82	18.90	11.72	5.13
Meghalaya	500.01	81.58	4.55	616.63	0.55
Mizoram	276.24	52.72	4.06	5.54	2.11
Nagaland	390.03	85.15	63.35	0.00	20.94
Tripura	588.22	72.00	17.39	26.05	46.07
<b>Sub-Total</b>	<b>284336.82</b>	<b>71274.40</b>	<b>50170.03</b>	<b>241248.48</b>	<b>8166.01</b>
<b>Total (I &amp; II)</b>	<b>286563.05</b>	<b>73581.02</b>	<b>50321.55</b>	<b>241393.39</b>	<b>8190.27</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**  
**2020-21**

(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	0.00	0.00	973.00
Maharashtra	1.82	0.00	46.66	0.00	3838.41
Kerala	0.29	0.07	0.00	30.11	121.08
Sub-Total	2.12	0.07	46.66	30.11	4932.50
<b>II. GOVT. DEPTT. / CENTRAL SECTOR UNDERTAKINGS / CORPORATIONS</b>					
Chandigarh	0.00	1.37	53.79	38.27	1349.09
Delhi	0.00	0.00	0.00	0.00	79.24
Haryana	286.00	10087.50	1148.41	1473.62	41943.83
Himachal Pradesh	0.00	72.64	602.92	301.86	8635.31
Jammu & Kashmir	9.40	262.57	673.59	433.21	4991.31
Punjab	122.80	13092.85	0.00	2354.10	50285.69
Rajasthan	0.00	28525.48	2584.76	1205.70	64656.84
Uttar Pradesh	1424.20	18911.72	1615.38	6351.80	91588.04
Uttarakhand	25.10	189.99	498.45	210.00	11225.05
Chhattisgarh	908.45	5902.81	460.72	0.00	23361.34
Gujarat	422.03	12617.47	1925.61	321.81	78368.94
Madhya Pradesh	1806.89	25419.95	1361.13	926.31	60355.91
Maharashtra	1934.30	33912.07	2769.00	1832.08	111237.27
Daman & Diu	0.00	3.40	2.46	12.87	2136.68
D & N Haveli	0.00	4.85	5.15	0.00	5286.39
Goa	0.00	31.25	0.00	36.18	3575.76
Andhra Pradesh	1399.21	8983.87	607.02	3061.77	51054.77
Telangana	567.48	21778.24	913.39	3618.52	57091.43
Karnataka	90.22	22156.04	3799.94	1420.98	60386.60
Kerala	168.40	411.35	0.16	502.15	22268.76
Tamil Nadu	564.50	13974.68	1291.89	2926.06	94592.04
Puducherry	0.00	68.57	0.00	14.50	2603.14
Lakshadweep	0.00	0.00	0.00	0.09	53.10
Bihar	1056.10	1149.30	216.22	590.64	24108.37
DVC in Jharkhand	300.00	0.00	0.00	0.00	7840.20
DVC in West Bengal	409.96	0.00	0.00	53.43	6049.32
Jharkhand	524.40	203.60	0.00	283.83	10445.34
Odisha	0.00	0.00	0.00	0.00	0.00
West Bengal	762.21	1332.23	526.21	2962.85	32518.45
Sikkim	0.00	0.00	0.00	24.31	414.77
A. & N. Islands	0.00	1.11	0.00	31.09	245.13
Arunachal Pradesh	0.00	0.77	9.32	14.61	405.11
Assam	0.00	39.00	80.38	642.70	7356.29
Manipur	0.00	7.08	21.07	82.55	651.30
Meghalaya	0.00	0.14	38.94	84.04	1326.45
Mizoram	0.00	0.16	82.45	30.26	453.54
Nagaland	0.00	0.00	10.41	112.69	682.57
Tripura	0.00	38.00	75.95	118.66	982.33
<b>Sub-Total</b>	<b>12781.65</b>	<b>219180.05</b>	<b>21374.70</b>	<b>32073.54</b>	<b>940605.70</b>
<b>Total (I &amp; II)</b>	<b>12783.77</b>	<b>219180.12</b>	<b>21421.37</b>	<b>32103.65</b>	<b>945538.20</b>

**TABLE 9.6**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE**  
**TILITIES**  
**2020-21**

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	51.52	24.78	8.92	6.96	0.90
Delhi	62.46	20.19	8.90	1.82	1.25
Haryana	28.54	9.55	4.88	25.65	0.40
Himachal Pradesh	27.29	6.00	0.98	54.28	0.12
Jammu & Kashmir	48.95	17.10	2.39	9.27	1.27
Punjab	30.47	6.89	6.22	25.03	0.42
Rajasthan	21.97	6.31	3.26	17.78	0.52
Uttar Pradesh	46.96	6.72	4.26	10.95	0.78
Uttarakhand	28.57	11.91	2.33	48.48	0.47
<b>Northern Region</b>	<b>36.69</b>	<b>8.78</b>	<b>4.65</b>	<b>18.42</b>	<b>0.64</b>
Chhattisgarh	27.60	6.08	2.61	32.17	0.42
Gujarat	17.89	4.68	15.83	44.57	0.16
Madhya Pradesh	27.55	5.53	2.12	15.17	0.77
Maharashtra	23.88	7.55	7.82	27.01	1.47
Daman & Diu	6.47	1.87	8.63	81.90	0.26
D & N Haveli	2.82	0.62	3.65	92.67	0.05
Goa	34.21	11.48	2.87	48.92	0.71
<b>Western Region</b>	<b>22.76</b>	<b>6.10</b>	<b>8.55</b>	<b>31.99</b>	<b>0.83</b>
Andhra Pradesh	33.77	5.90	4.41	27.57	0.41
Telangana	22.12	8.37	2.12	19.43	0.59
Karnataka	24.96	10.77	3.05	15.52	1.65
Kerala	56.49	18.88	5.07	12.95	1.68
Tamil Nadu	34.59	9.49	9.87	24.86	1.37
Puducherry	32.36	7.27	6.34	49.95	0.89
Lakshadweep	75.98	21.60	0.70	0.00	1.54
Southern Region	31.59	9.61	5.50	21.55	1.13
Bihar	62.41	9.94	3.35	11.46	0.35
Jharkhand	30.29	4.83	1.45	55.35	0.41
Odisha	40.86	10.47	1.97	29.24	1.17
West Bengal	36.24	11.27	4.43	32.21	1.46
Sikkim	27.82	7.23	0.53	58.49	0.07
A & N Islands	60.40	20.08	3.74	0.00	2.65
<b>Eastern Region</b>	<b>41.46</b>	<b>9.66</b>	<b>3.19</b>	<b>31.66</b>	<b>0.98</b>
Arunachal Pradesh	46.62	13.26	0.32	31.15	2.55
Assam	51.45	14.95	1.63	21.35	0.25
Manipur	65.87	11.64	2.90	1.80	0.79
Meghalaya	37.70	6.15	0.34	46.49	0.04
Mizoram	60.91	11.62	0.89	1.22	0.47
Nagaland	57.14	12.47	9.28	0.00	3.07
Tripura	59.88	7.33	1.77	2.65	4.69
<b>North-Eastern Region</b>	<b>51.93</b>	<b>12.82</b>	<b>1.94</b>	<b>19.88</b>	<b>0.88</b>
<b>Total (All India)</b>	<b>31.76</b>	<b>8.35</b>	<b>5.87</b>	<b>24.87</b>	<b>0.88</b>

**TABLE 9.6 (CONTD.)**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE**  
**UTILITIES**  
**2020-21**

State / UTs	% age of total Energy Sold				
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold (GWh)
Chandigarh	0.00	0.10	3.99	2.84	1349.09
Delhi	0.29	0.15	2.45	2.50	26319.22
Haryana	0.68	24.05	2.74	3.51	41943.83
Himachal Pradesh	0.00	0.84	6.98	3.50	8635.31
Jammu & Kashmir	0.09	3.62	7.81	9.50	9984.32
Punjab	0.24	26.04	0.00	4.68	50285.69
Rajasthan	0.36	43.96	3.98	1.86	64888.34
Uttar Pradesh	1.52	20.23	1.75	6.83	93600.08
Uttarakhand	0.22	1.69	4.44	1.87	11225.05
<b>Northern Region</b>	<b>0.71</b>	<b>23.13</b>	<b>2.58</b>	<b>4.41</b>	<b>308230.92</b>
Chhattisgarh	3.89	25.27	1.97	0.00	23361.34
Gujarat	0.47	13.72	2.28	0.39	92275.88
Madhya Pradesh	2.96	42.07	2.26	1.56	60954.12
Maharashtra	1.58	26.82	2.41	1.45	126423.05
Daman & Diu	0.00	0.16	0.12	0.60	2136.68
D & N Haveli	0.00	0.09	0.10	0.00	5286.39
Goa	0.00	0.84	0.00	0.98	3700.21
<b>Western Region</b>	<b>1.64</b>	<b>24.88</b>	<b>2.23</b>	<b>1.02</b>	<b>314137.68</b>
Andhra Pradesh	2.70	18.10	1.22	5.92	51756.03
Telangana	0.98	38.45	1.69	6.25	57896.31
Karnataka	0.14	35.58	6.08	2.26	62783.14
Kerala	0.75	1.82	0.00	2.36	22598.78
Tamil Nadu	0.60	14.77	1.37	3.09	94592.04
Puducherry	0.00	2.63	0.00	0.56	2603.14
Lakshadweep	0.00	0.00	0.00	0.18	53.10
<b>Southern Region</b>	<b>0.95</b>	<b>23.41</b>	<b>2.30</b>	<b>3.96</b>	<b>292282.54</b>
Bihar	4.38	4.77	0.90	2.45	24108.37
Jharkhand	3.86	0.95	0.00	2.85	21375.17
Odisha	6.45	3.13	1.60	5.12	20609.57
West Bengal	2.78	2.75	2.14	6.73	48393.90
Sikkim	0.00	0.00	0.00	5.86	414.77
A & N Islands	0.00	0.45	0.00	12.68	245.13
Eastern Region	3.96	2.89	1.37	4.83	115146.91
Arunachal Pradesh	0.00	0.19	2.30	3.61	405.11
Assam	0.00	0.53	1.09	8.74	7356.29
Manipur	0.00	1.09	3.24	12.67	651.30
Meghalaya	0.00	0.01	2.94	6.34	1326.45
Mizoram	0.00	0.04	18.18	6.67	453.54
Nagaland	0.00	0.00	1.53	16.51	682.57
Tripura	0.00	3.87	7.73	12.08	982.33
<b>North-Eastern Region</b>	<b>0.00</b>	<b>0.72</b>	<b>2.69</b>	<b>9.15</b>	<b>11857.59</b>
<b>Total (All India)</b>	<b>1.41</b>	<b>21.25</b>	<b>2.26</b>	<b>3.36</b>	<b>1041655.63</b>

**TABLE 9.6(A)**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE**  
**UTILITIES & NON-UTILITIES**  
**2020-21**

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	51.34	24.70	8.89	7.27	0.90
Delhi	62.46	20.19	8.89	1.82	1.25
Haryana	26.41	8.84	4.51	31.20	0.37
Himachal Pradesh	26.86	5.91	0.97	54.99	0.12
Jammu & Kashmir	48.95	17.10	2.39	9.28	1.27
Punjab	28.96	6.55	5.92	28.74	0.40
Rajasthan	19.20	5.51	2.85	28.14	0.46
Uttar Pradesh	41.60	5.95	3.77	21.11	0.69
Uttarakhand	26.52	11.06	2.16	52.18	0.44
<b>Northern Region</b>	<b>33.59</b>	<b>8.04</b>	<b>4.25</b>	<b>25.30</b>	<b>0.59</b>
Chhattisgarh	13.36	2.94	1.26	67.17	0.20
Gujarat	14.58	3.81	12.90	54.83	0.13
Madhya Pradesh	23.81	4.78	1.83	26.69	0.67
Maharashtra	22.42	7.09	7.34	31.48	1.38
Daman & Diu	6.47	1.87	8.63	81.90	0.26
D & N Haveli	2.81	0.62	3.64	92.70	0.05
Goa	29.01	9.73	2.43	56.67	0.60
<b>Western Region</b>	<b>18.89</b>	<b>5.06</b>	<b>7.10</b>	<b>43.56</b>	<b>0.69</b>
Andhra Pradesh	29.42	5.14	3.84	36.90	0.36
Telangana	21.03	7.95	2.02	23.41	0.56
Karnataka	21.11	9.11	2.58	28.55	1.40
Kerala	54.29	18.15	4.87	16.34	1.61
Tamil Nadu	32.03	8.79	9.14	30.42	1.26
Puducherry	30.80	6.92	6.03	52.37	0.85
Lakshadweep	75.98	21.60	0.70	0.00	1.54
<b>Southern Region</b>	<b>28.58</b>	<b>8.70</b>	<b>4.97</b>	<b>29.02</b>	<b>1.02</b>
Bihar	61.13	9.73	3.28	13.28	0.34
Jharkhand	23.40	3.73	1.12	65.51	0.32
Odisha	11.43	2.93	0.55	80.21	0.33
West Bengal	33.63	10.46	4.11	37.08	1.35
Sikkim	27.82	7.23	0.53	58.49	0.07
A & N Islands	60.40	20.08	3.74	0.00	2.65
<b>Eastern Region</b>	<b>26.70</b>	<b>6.22</b>	<b>2.06</b>	<b>55.98</b>	<b>0.63</b>
Arunachal Pradesh	46.62	13.26	0.32	31.15	2.55
Assam	43.53	12.65	1.38	33.47	0.21
Manipur	65.87	11.64	2.90	1.80	0.79
Meghalaya	36.33	5.93	0.33	48.42	0.04
Mizoram	60.91	11.62	0.89	1.22	0.47
Nagaland	57.14	12.47	9.28	0.00	3.07
Tripura	59.88	7.33	1.77	2.65	4.69
<b>North-Eastern Region</b>	<b>46.48</b>	<b>11.48</b>	<b>1.73</b>	<b>28.28</b>	<b>0.78</b>
<b>Total (All India)</b>	<b>26.89</b>	<b>7.07</b>	<b>4.97</b>	<b>36.39</b>	<b>0.74</b>

**TABLE 9.6(A) (CONTD.)**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE**  
**UTILITIES & NON-UTILITIES**  
**2020-21**

State / UTs	% age of total Energy Sold				
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold (GWh)
Chandigarh	0.00	0.10	3.97	2.83	1353.60
Delhi	0.29	0.15	2.45	2.50	26319.86
Haryana	0.63	22.25	2.53	3.25	45328.64
Himachal Pradesh	0.00	0.83	6.87	3.44	8771.92
Jammu & Kashmir	0.09	3.62	7.81	9.50	9985.58
Punjab	0.23	24.75	0.00	4.45	52905.55
Rajasthan	0.31	38.42	3.48	1.62	74244.09
Uttar Pradesh	1.35	17.92	1.55	6.05	105652.10
Uttarakhand	0.21	1.57	4.12	1.74	12093.02
<b>Northern Region</b>	<b>0.65</b>	<b>21.18</b>	<b>2.36</b>	<b>4.04</b>	<b>336654.36</b>
Chhattisgarh	1.88	12.23	0.95	0.00	48268.94
Gujarat	0.38	11.18	1.86	0.32	113236.80
Madhya Pradesh	2.56	36.36	1.96	1.35	70534.40
Maharashtra	1.48	25.18	2.26	1.36	134663.26
Daman & Diu	0.00	0.16	0.11	0.60	2137.18
D & N Haveli	0.00	0.09	0.10	0.00	5308.74
Goa	0.00	0.72	0.00	0.83	4362.42
<b>Western Region</b>	<b>1.36</b>	<b>20.65</b>	<b>1.85</b>	<b>0.84</b>	<b>378511.74</b>
Andhra Pradesh	2.36	15.77	1.06	5.16	59414.38
Telangana	0.93	36.55	1.61	5.94	60905.34
Karnataka	0.12	30.09	5.14	1.91	74234.71
Kerala	0.72	1.75	0.00	2.27	23514.10
Tamil Nadu	0.55	13.68	1.26	2.86	102153.27
Puducherry	0.00	2.51	0.00	0.53	2735.41
Lakshadweep	0.00	0.00	0.00	0.18	53.10
<b>Southern Region</b>	<b>0.86</b>	<b>21.18</b>	<b>2.08</b>	<b>3.59</b>	<b>323010.31</b>
Bihar	4.29	4.67	0.88	2.40	24614.20
Jharkhand	2.98	0.74	0.00	2.20	27673.21
Odisha	1.81	0.87	0.45	1.43	73698.24
West Bengal	2.58	2.56	1.98	6.25	52139.10
Sikkim	0.00	0.00	0.00	5.86	414.77
A & N Islands	0.00	0.45	0.00	12.68	245.13
<b>Eastern Region</b>	<b>2.55</b>	<b>1.86</b>	<b>0.88</b>	<b>3.11</b>	<b>178784.65</b>
Arunachal Pradesh	0.00	0.19	2.30	3.61	405.11
Assam	0.00	0.45	0.92	7.39	8695.91
Manipur	0.00	1.09	3.24	12.67	651.30
Meghalaya	0.00	0.01	2.83	6.11	1376.18
Mizoram	0.00	0.04	18.18	6.67	453.54
Nagaland	0.00	0.00	1.53	16.51	682.57
Tripura	0.00	3.87	7.73	12.08	982.33
<b>North-Eastern Region</b>	<b>0.00</b>	<b>0.64</b>	<b>2.40</b>	<b>8.19</b>	<b>13246.93</b>
<b>Total (All India)</b>	<b>1.19</b>	<b>17.99</b>	<b>1.92</b>	<b>2.85</b>	<b>1230207.98</b>

**TABLE 9.7**  
**PER CAPITA ULTIMATE CONSUMPTION OF ELECTRICITY**  
**STATE-WISE/CATEGORY-WISE**  
**UTILITIES**  
**2020-21**

(kWh)

State / UTs	Population (Million)	Domestic	Commercial	Industrial Power	
				(Low & Med. Volt-age)	(High Voltage)
Chandigarh	1.20	578.21	278.13	100.11	78.11
Delhi	20.41	805.31	260.31	114.68	23.42
Haryana	29.31	408.35	136.66	69.79	367.00
Himachal Pradesh	7.37	319.57	70.30	11.53	635.67
Jammu & Kashmir	13.66	357.79	124.97	17.44	67.74
Punjab	30.24	506.76	114.59	103.51	416.25
Rajasthan	78.86	180.80	51.90	26.80	146.30
Uttar Pradesh	229.67	191.38	27.37	17.35	44.64
Uttarakhand	11.35	282.68	117.87	23.02	479.67
<b>Northern Region</b>	<b>422.08</b>	<b>267.94</b>	<b>64.11</b>	<b>33.93</b>	<b>134.48</b>
Chhattisgarh	29.33	219.80	48.39	20.78	256.18
Gujarat	69.40	237.89	62.16	210.46	592.57
Madhya Pradesh	84.04	199.80	40.10	15.37	110.04
Maharashtra	123.96	243.57	77.01	79.71	275.50
Daman & Diu	0.46	301.83	87.05	402.80	3820.62
D & N Haveli	0.60	250.89	54.88	324.53	8233.46
Goa	1.56	813.94	273.11	68.25	1163.99
<b>Western Region</b>	<b>309.34</b>	<b>231.12</b>	<b>61.90</b>	<b>86.87</b>	<b>324.87</b>
Andhra Pradesh	52.67	331.84	57.93	43.29	270.89
Telangana	37.60	340.62	128.81	32.67	299.15
Karnataka	66.63	235.17	101.45	28.72	146.22
Kerala	35.41	360.47	120.51	32.33	82.62
Tamil Nadu	76.26	429.11	117.72	122.38	308.33
Puducherry	1.56	541.06	121.60	105.93	835.03
Lakshadweep	0.07	593.35	168.70	5.46	0.00
<b>Southern Region</b>	<b>270.19</b>	<b>341.70</b>	<b>104.00</b>	<b>59.45</b>	<b>233.15</b>
Bihar	122.34	122.98	19.59	6.60	22.58
Jharkhand	38.25	169.29	27.01	8.10	309.34
Odisha	43.96	191.55	49.08	9.22	137.07
West Bengal	97.87	179.18	55.74	21.89	159.27
Sikkim	0.67	171.44	44.58	3.27	360.45
A & N Islands	0.40	370.15	123.03	22.91	0.00
<b>Eastern Region</b>	<b>303.49</b>	<b>157.30</b>	<b>36.65</b>	<b>12.11</b>	<b>120.10</b>
Arunachal Pradesh	1.53	123.76	35.20	0.86	82.70
Assam	34.89	108.49	31.52	3.44	45.02
Manipur	3.15	136.24	24.08	6.00	3.72
Meghalaya	3.27	152.81	24.93	1.39	188.46
Mizoram	1.21	228.30	43.57	3.35	4.58
Nagaland	2.18	178.75	39.02	29.03	0.00
Tripura	4.05	145.20	17.77	4.29	6.43
<b>North-Eastern Region</b>	<b>50.28</b>	<b>122.47</b>	<b>30.25</b>	<b>4.57</b>	<b>46.88</b>
<b>Total (All India)</b>	<b>1355.38</b>	<b>244.07</b>	<b>64.15</b>	<b>45.13</b>	<b>191.13</b>

Note:- Source of Population: Office of Registrar General of India as on 1st October 2020

(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**  
**2020-21**

(kWh)

State / UTs	Public Lighting	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total
Chandigarh	10.10	0.00	1.14	0.00	31.84	1122.37
Delhi	16.07	3.80	1.93	31.56	32.18	1289.27
Haryana	5.73	9.76	344.12	39.18	50.27	1430.85
Himachal Pradesh	1.42	0.00	9.85	81.76	40.94	1171.05
Jammu & Kashmir	9.30	0.69	26.47	57.07	69.41	730.86
Punjab	6.94	4.06	432.98	0.00	77.85	1662.94
Rajasthan	4.30	2.94	361.72	32.78	15.29	822.82
Uttar Pradesh	3.19	6.20	82.43	7.13	27.85	407.54
Uttarakhand	4.69	2.21	16.74	43.93	18.51	989.34
<b>Northern Region</b>	<b>4.69</b>	<b>5.16</b>	<b>168.93</b>	<b>18.84</b>	<b>32.18</b>	<b>730.26</b>
Chhattisgarh	3.36	30.97	201.23	15.71	0.00	796.42
Gujarat	2.19	6.24	182.47	30.38	5.22	1329.59
Madhya Pradesh	5.60	21.50	305.16	16.41	11.33	725.30
Maharashtra	15.03	16.10	273.57	24.58	14.78	1019.86
Daman & Diu	12.06	0.00	7.42	5.37	28.11	4665.24
D & N Haveli	4.11	0.00	8.16	8.66	0.00	8884.68
Goa	16.91	0.00	20.10	0.00	23.27	2379.56
<b>Western Region</b>	<b>8.46</b>	<b>16.63</b>	<b>252.68</b>	<b>22.64</b>	<b>10.33</b>	<b>1015.50</b>
Andhra Pradesh	4.08	26.57	177.88	11.98	58.22	982.67
Telangana	9.10	15.09	592.04	26.08	96.28	1539.84
Karnataka	15.56	1.35	335.26	57.25	21.33	942.31
Kerala	10.72	4.76	11.63	0.01	15.09	638.15
Tamil Nadu	16.94	7.40	183.26	16.94	38.37	1240.47
Puducherry	14.92	0.00	44.04	0.00	9.31	1671.89
Lakshadweep	12.02	0.00	0.00	0.00	1.39	780.91
<b>Southern Region</b>	<b>12.17</b>	<b>10.33</b>	<b>253.24</b>	<b>24.86</b>	<b>42.87</b>	<b>1081.77</b>
Bihar	0.69	8.63	9.39	1.77	4.83	197.06
Jharkhand	2.28	21.59	5.32	0.00	15.90	558.84
Odisha	5.47	30.26	14.67	7.50	24.03	468.85
West Bengal	7.22	13.73	13.61	10.56	33.27	494.47
Sikkim	0.45	0.00	0.00	0.00	36.12	616.30
A & N Islands	16.22	0.00	2.78	0.00	77.72	612.82
<b>Eastern Region</b>	<b>3.71</b>	<b>15.01</b>	<b>10.98</b>	<b>5.20</b>	<b>18.34</b>	<b>379.41</b>
Arunachal Pradesh	6.76	0.00	0.51	6.11	9.57	265.47
Assam	0.53	0.00	1.12	2.30	18.42	210.86
Manipur	1.63	0.00	2.25	6.69	26.21	206.83
Meghalaya	0.17	0.00	0.04	11.90	25.69	405.39
Mizoram	1.75	0.00	0.13	68.14	25.00	374.82
Nagaland	9.60	0.00	0.00	4.77	51.65	312.82
Tripura	11.37	0.00	9.38	18.75	29.29	242.49
<b>North-Eastern Region</b>	<b>2.06</b>	<b>0.00</b>	<b>1.69</b>	<b>6.34</b>	<b>21.59</b>	<b>235.85</b>
<b>Total (All India)</b>	<b>6.73</b>	<b>10.82</b>	<b>163.28</b>	<b>17.39</b>	<b>25.83</b>	<b>768.53</b>

**TABLE 9.8**  
**ANNUAL ELECTRICITY CONSUMPTION PER SQUARE KILOMETRE AND PER THOUSAND POPULATION**  
**REGION-WISE/STATE-WISE**  
**(UTILITIES+NON-UTILITIES)**  
**2020-21**

State / UTs	Population (Million)	Area in 1000 sq. kms. \$	Total Energy Sold (GWh)	Energy Consumed per thousand population (kWh)	Energy Consumed per sq. km. (kWh)
Chandigarh	1.20	0.11	1353.60	1126125	12305477
Delhi	20.41	1.48	26319.86	1289305	17783692
Haryana	29.31	44.21	45328.64	1546314	1025303
Himachal Pradesh	7.37	55.67	8771.92	1189574	157570
Jammu & Kashmir	13.66	222.24	9985.58	730955	44932
Punjab	30.24	50.36	52905.55	1749580	1050547
Rajasthan	78.86	342.24	74244.09	941455	216936
Uttar Pradesh	229.67	240.93	105652.10	460013	438518
Uttarakhand	11.35	53.48	12093.02	1065840	226122
<b>Northern Region</b>	<b>422.08</b>	<b>1010.72</b>	<b>336654.36</b>	<b>797602</b>	<b>333084</b>
Chhattisgarh	29.33	135.19	48268.94	1645551	357045
Gujarat	69.40	196.03	113236.80	1631607	577650
Madhya Pradesh	84.04	308.25	70534.40	839296	228822
Maharashtra	123.96	307.72	134663.26	1086336	437616
Daman & Diu	0.46	0.11	2137.18	4666323	19428874
D & N Haveli	0.60	0.49	5308.74	8922245	10834155
Goa	1.56	3.70	4362.42	2805414	1179032
<b>Western Region</b>	<b>309.34</b>	<b>951.49</b>	<b>378511.74</b>	<b>1223595</b>	<b>397809</b>
Andhra Pradesh	52.67	160.41	59414.38	1128071	370391
Telangana	37.60	114.65	60905.34	1619866	531228
Karnataka	66.63	191.79	74234.71	1114184	387062
Kerala	35.41	38.86	23514.10	663996	605098
Tamil Nadu	76.26	130.06	102153.27	1339627	785432
Puducherry	1.56	0.48	2735.41	1756847	5698773
Lakshadweep	0.07	0.03	53.10	780907	1770055
<b>Southern Region</b>	<b>270.19</b>	<b>636.28</b>	<b>323010.31</b>	<b>1195502</b>	<b>507654</b>
Bihar	122.34	94.16	24614.20	201193	261408
Jharkhand	38.25	79.71	27673.21	723502	347174
Odisha	43.96	155.71	73698.24	1676560	473304
West Bengal	97.87	88.75	52139.10	532733	587483
Sikkim	0.67	7.10	414.77	616300	58418
A & N Islands	0.40	8.25	245.13	612816	29712
<b>Eastern Region</b>	<b>303.49</b>	<b>433.68</b>	<b>178784.65</b>	<b>589092</b>	<b>412250</b>
Arunachal Pradesh	1.53	83.74	405.11	265472	4838
Assam	34.89	78.44	8695.91	249259	110861
Manipur	3.15	22.33	651.30	206828	29167
Meghalaya	3.27	22.43	1376.18	420592	61354
Mizoram	1.21	21.08	453.54	374824	21515
Nagaland	2.18	16.58	682.57	312819	41168
Tripura	4.05	10.49	982.33	242491	93645
<b>North-Eastern Region</b>	<b>50.28</b>	<b>255.09</b>	<b>13246.93</b>	<b>263479</b>	<b>51930</b>
<b>Total (All India)</b>	<b>1355.38</b>	<b>3287.26</b>	<b>1230207.98</b>	<b>907645</b>	<b>374235</b>

Note:-

Source of Population: Office of Registrar General of India as on 1st October 2020

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

**TABLE 9.9**  
**ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY- STATE-WISE**  
**(UTILITIES & NON UTILITIES)**  
**2020-21**

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	1.20	1639.22	0.00	114.42	114.42
Delhi	20.41	30874.45	404.49	1780.08	2184.57
Haryana	29.31	55429.13	757.63	3103.90	3861.53
Himachal Pradesh	7.37	10339.60	122.71	319.38	442.09
Jammu & Kashmir	13.66	18127.49	144.01	881.81	1025.82
Punjab	30.24	60303.64	1195.89	2574.41	3770.31
Rajasthan	78.86	86791.10	4022.82	2143.50	6166.32
Uttar Pradesh	229.67	126297.95	4822.64	3833.64	8656.28
Uttarakhand	11.35	14219.53	130.18	539.75	669.93
<b>Northern Region</b>	<b>422.08</b>	<b>404022.11</b>	<b>11600.37</b>	<b>15290.90</b>	<b>26891.27</b>
Chhattisgarh	29.33	31085.32	1327.83	864.61	2192.44
Gujarat	69.40	113303.32	5599.95	2351.99	7951.94
Madhya Pradesh	84.04	85995.38	2198.37	3531.14	5729.51
Maharashtra	123.96	153499.95	6183.08	3957.46	10140.54
Daman & Diu	0.46	2343.10	0.00	162.95	162.95
D & N Haveli	0.60	5806.68	0.00	406.47	406.47
Goa	1.56	4290.65	0.00	288.82	288.82
<b>Western Region</b>	<b>309.34</b>	<b>396324.40</b>	<b>15309.22</b>	<b>11563.45</b>	<b>26872.66</b>
Andhra Pradesh	52.67	63427.61	2224.89	1908.57	4133.47
Telangana	37.60	68577.36	2250.15	2211.17	4461.32
Karnataka	66.63	70076	2380	1732	4112
Kerala	35.41	26030.30	184.54	1294.46	1479.00
Tamil Nadu	76.26	104161.81	2510.43	4182.10	6692.53
Puducherry	1.56	2785.33	0.00	194.97	194.97
Lakshadweep	0.07	55.74	0.00	0.00	0.00
<b>Southern Region</b>	<b>270.19</b>	<b>335114.18</b>	<b>9550.02</b>	<b>11523.73</b>	<b>21073.75</b>
Bihar	122.34	35781.66	0.00	2380.82	2380.82
Jharkhand	38.25	22460.70	1490.37	6.72	1497.10
Odisha	43.96	30028.31	1186.37	239.28	1425.65
West Bengal	97.87	60498.46	3480.22	575.91	4056.13
Sikkim	0.67	573.92	0.32	39.07	39.39
A & N Islands	0.40	324.96	24.29	0.00	24.29
<b>Eastern Region</b>	<b>303.49</b>	<b>149668.01</b>	<b>6181.57</b>	<b>3241.81</b>	<b>9423.38</b>
Arunachal Pradesh	1.53	752.98	0.00	52.67	52.67
Assam	34.89	10320.36	89.31	621.71	711.01
Manipur	3.15	1021.27	0.03	71.47	71.49
Meghalaya	3.27	2058.09	24.79	59.47	84.26
Mizoram	1.21	747.45	0.00	33.40	33.40
Nagaland	2.18	863.36	0.00	55.70	55.70
Tripura	4.05	1698.58	15.96	105.20	121.15
<b>North-Eastern Region</b>	<b>50.28</b>	<b>17462.09</b>	<b>130.08</b>	<b>999.60</b>	<b>1129.68</b>
<b>All India</b>	<b>1355.38</b>	<b>1302590.79</b>	<b>42771.26</b>	<b>42619.49</b>	<b>85390.75</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 2020) as projected by Registrar General of India.

**TABLE 9.9 (CONTD.)**  
**ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY- STATE-WISE**  
**(UTILITIES & NON UTILITIES)**  
**2020-21**

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	1753.65	1.59	1755.24	1460
Delhi	33059.02	0.89	33059.91	1619
Haryana	59290.66	3180.66	62471.32	2131
Himachal Pradesh	10781.69	119.77	10901.47	1478
Jammu & Kashmir	19153.31	5.35	19158.66	1402
Punjab	64073.95	2438.40	66512.35	2200
Rajasthan	92957.41	9622.68	102580.09	1301
Uttar Pradesh	134954.23	10701.07	145655.31	634
Uttarakhand	14889.45	816.77	15706.22	1384
<b>Northern Region</b>	<b>430913.38</b>	<b>26887.18</b>	<b>457800.56</b>	<b>1085</b>
Chhattisgarh	33277.76	23141.74	56419.51	1923
Gujarat	121255.26	20892.85	142148.10	2048
Madhya Pradesh	91724.89	15117.90	106842.79	1271
Maharashtra	163640.49	7188.59	170829.08	1378
Daman & Diu	2506.05	0.46	2506.52	5473
D & N Haveli	6213.14	21.29	6234.44	10478
Goa	4579.47	298.19	4877.66	3137
<b>Western Region</b>	<b>423197.06</b>	<b>66661.02</b>	<b>489858.08</b>	<b>1584</b>
Andhra Pradesh	67561.07	7972.29	75533.36	1434
Telangana	73038.68	2626.45	75665.13	2012
Karnataka	74188.50	11349.73	85538.23	1284
Kerala	27509.30	1326.09	28835.39	814
Tamil Nadu	110854.34	7244.70	118099.04	1549
Puducherry	2980.30	182.03	3162.33	2031
Lakshadweep	55.74	0.00	55.74	820
Southern Region	356187.93	30701.29	386889.23	1432
Bihar	38162.49	442.72	38605.20	316
Jharkhand	23957.79	6420.23	30378.02	794
Odisha	31453.96	48942.99	80396.96	1829
West Bengal	64554.59	3687.49	68242.08	697
Sikkim	613.31	0.00	613.31	911
A & N Islands	349.25	0.00	349.25	873
<b>Eastern Region</b>	<b>159091.39</b>	<b>59493.42</b>	<b>218584.82</b>	<b>720</b>
Arunachal Pradesh	805.65	0.00	805.65	528
Assam	11031.38	1179.33	12210.71	350
Manipur	1092.77	0.00	1092.77	347
Meghalaya	2142.35	77.75	2220.10	679
Mizoram	780.85	0.00	780.85	645
Nagaland	919.06	0.00	919.06	421
Tripura	1819.73	0.00	1819.73	449
<b>North-Eastern Region</b>	<b>18591.77</b>	<b>1257.08</b>	<b>19848.85</b>	<b>395</b>
<b>All India</b>	<b>1387981.54</b>	<b>185000.00</b>	<b>1572981.54</b>	<b>1161</b>

**TABLE 9.10**  
**ALL INDIA ELECTRICAL ACCIDENTS**  
**STATE-WISE**  
**2020-21**

State/UT	Generating Stations/Transmission & Distribution				Industrial Installations of Consumers	
	Human		Animals		Human	
	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	87	23	101	0	190	54
Assam	124	44	41	4	0	0
Bihar	555	30	381	22	0	0
Chhattisgarh	301	81	399	0	1	0
Goa	1	16	6	0	0	0
Gujarat	250	198	441	0	23	0
Haryana	144	117	70	1	0	0
Himachal Pradesh	15	40	5	0	0	0
Jammu & Kashmir	26	25	3	0	0	0
Karnataka	717	525	1135	78	16	8
Kerala	106	243	43	1	0	0
Madhya Pradesh	1062	320	1211	4	0	0
Maharashtra	1038	494	984	9	0	0
Manipur	0	0	0	0	0	0
Meghalaya	12	6	3	0	0	0
Nagaland	NA	NA	NA	NA	NA	NA
Orissa	87	37	52	1	0	0
Punjab	71	54	4	0	2	1
Rajasthan	823	455	1368	0	4	0
Sikkim	1	1	0	0	0	0
Telangana	1241	219	2876	0	0	0
Tamil Nadu	607	180	29	94	0	0
Tripura	8	10	33	0	0	0
Uttar Pradesh	385	165	532	5	0	0
West Bengal	66	96	51	0	0	0
Arunachal Pradesh	4	3	1	0	0	0
Delhi	25	24	0	0	0	0
Mizoram	22	26	0	0	0	0
Uttarakhand	0	0	0	0	0	0
Jharkhand	40	8	98	0	0	0
Mines	NA	NA	NA	NA	NA	NA
Central Govt. Installn.	6	9	0	0	0	0
Railways	NA	NA	NA	NA	NA	NA
Union Territories						
A & N Islands	1	3	3	0	0	0
Chandigarh	0	0	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	4	5	4	0	0	0
<b>Total (All India)</b>	<b>7829</b>	<b>3457</b>	<b>9874</b>	<b>219</b>	<b>236</b>	<b>63</b>

NA - Not Available.

**TABLE 9.10 (CONTD.)**  
**ALL INDIA ELECTRICAL ACCIDENTS**  
**STATE-WISE**  
**2020-21**

State/UT	Industrial Installations of Consumers		Installations of Consumers Other than Industrial				Total * Accidents	
	Animals		Human	Non-Fatal	Animals			
	Fatal	Non-Fatal			Fatal	Non-Fatal		
Andhra Pradesh	153	0	46	2	5	0	661	
Assam	0	0	0	0	0	0	213	
Bihar	0	0	13	0	4	0	1005	
Chhattisgarh	0	0	29	10	25	0	846	
Goa	0	0	2	2	0	0	27	
Gujarat	0	0	291	15	21	6	1245	
Haryana	0	0	21	6	5	0	364	
Himachal Pradesh	0	0	0	0	0	0	60	
Jammu & Kashmir	0	0	0	0	0	0	54	
Karnataka	82	0	119	70	185	0	2935	
Kerala	0	0	119	19	7	0	538	
Madhya Pradesh	0	0	68	23	18	0	2706	
Maharashtra	0	0	17	0	0	0	2542	
Manipur	0	0	0	0	0	0	0	
Meghalaya	0	0	0	0	0	0	21	
Nagaland	NA	NA	NA	NA	NA	NA	NA	
Orissa	0	0	24	11	10	2	224	
Punjab	0	0	6	4	0	0	142	
Rajasthan	1	0	49	10	16	0	2726	
Sikkim	0	0	0	0	0	0	2	
Telangana	0	0	108	22	210	0	4676	
Tamil Nadu	0	0	0	0	0	0	910	
Tripura	0	0	0	0	0	0	51	
Uttar Pradesh	0	0	0	0	0	0	1087	
West Bengal	0	0	0	0	0	0	213	
Arunachal Pradesh	0	0	0	0	0	0	8	
Delhi	0	0	0	0	0	0	49	
Mizoram	0	0	0	0	0	0	48	
Uttarakhand	0	0	45	35	90	0	170	
Jharkhand	0	0	6	0	52	0	204	
Mines	NA	NA	NA	NA	NA	NA	NA	
Central Govt. Installn.	0	0	0	1	0	0	16	
Railways	NA	NA	NA	NA	NA	NA	NA	
Union Territories								
A & N Islands	0	0	0	0	0	0	7	
Chandigarh	0	0	0	0	0	0	0	
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	13	
<b>Total (All India)</b>	<b>236</b>	<b>0</b>	<b>963</b>	<b>230</b>	<b>648</b>	<b>8</b>	<b>23763</b>	

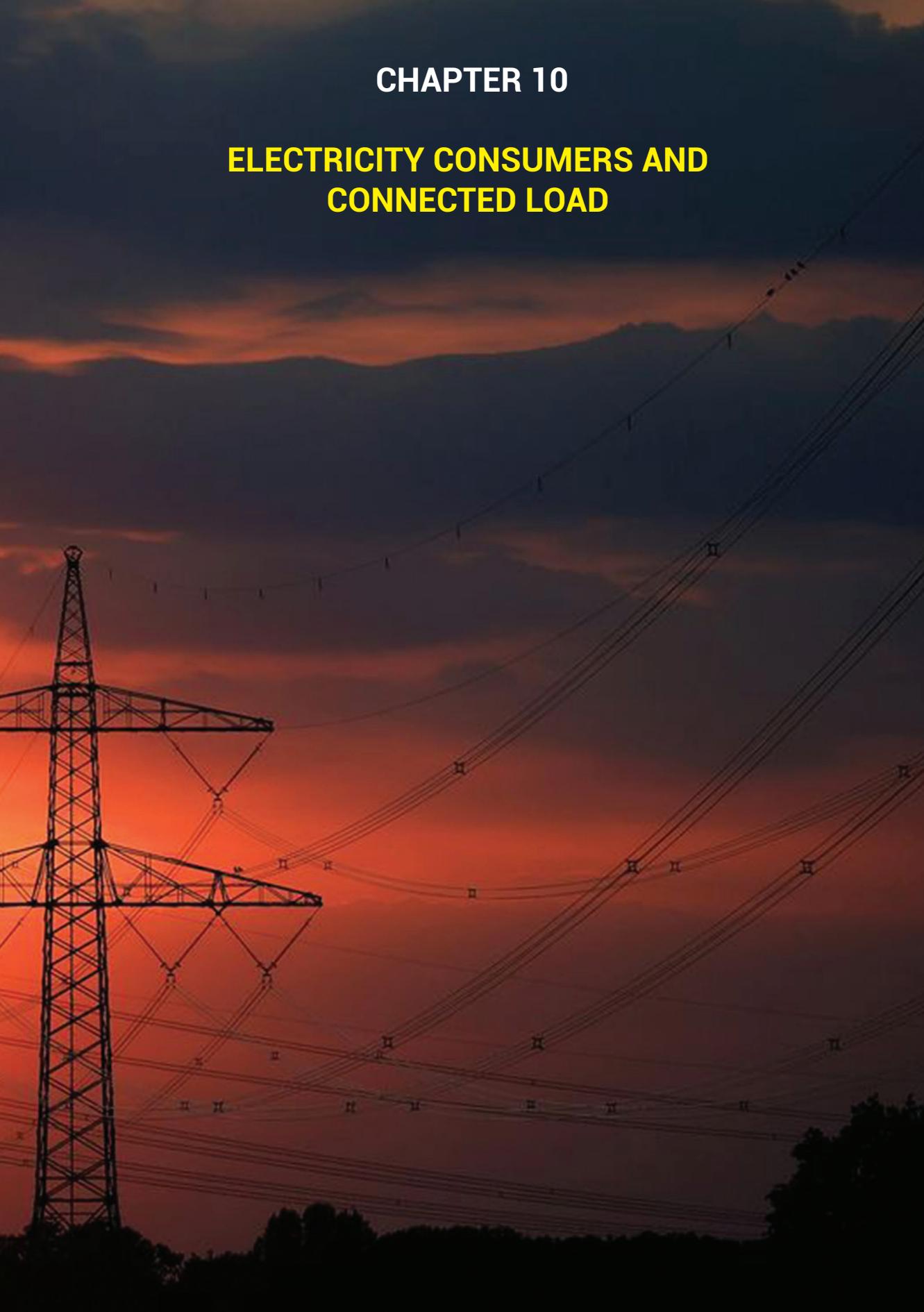
NA - Not Available.

\*Includes total Human Fatal Accidents(9028), Human Non Fatal Accidents(3750)  
 Animal Fatal Accidents(10758) and Animal Non Fatal Accidents(227).



# 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 31.03.2021, the total number of electricity consumers were about 323.12 million and the connected load was 763427 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 319629 MW followed by industrial and agricultural sectors having connected load of 161556 MW and 142787 MW respectively.

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

**TABLE 10**  
**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD**  
**REGIONWISE/STATEWISE**  
**UTILITIES**  
**31.3.2021**

State/UTs	Domestic		Commercial		Industrial (LV&MV)	
	Connected Load (KW)	Consumers	Connected Load(KW)	Consumers	Connected Load (KW)	Consumers
Chandigarh	909659	220229	526058	28610	98273	2765
Delhi	12476665	5324697	5763271	988200	1561588	42699
Haryana	10406968	5584892	3294653	713739	1843150	96440
Himachal Pradesh	4054136	2151857	846330	295072	258204	30355
Jammu & Kashmir and Ladakh	1954803	1817682	508800	233831	303711	20324
Punjab	13394514	7229184	4373714	1146364	2713999	118672
Rajasthan	13519842	11967053	5104625	1164965	2405111	159815
Uttar Pradesh	38576858	26467750	4744360	1623408	2563711	176251
Uttarakhand	3291550	2215712	1154660	263916	253314	12106
<b>Sub-Total(NR)</b>	<b>98584994</b>	<b>62979056</b>	<b>26316471</b>	<b>6458105</b>	<b>12001061</b>	<b>659427</b>
Chhattisgarh	3230360	4867997	1292842	374024	708669	36029
Gujarat	17867303	14090540	6718376	2240650	8977546	420986
Madhya Pradesh	9328424	12131005	3272961	1128417	1550903	133670
Maharashtra	34677186	24788250	12446281	2793990	7853548	466917
Daman & Diu	107771	50815	26612	7479	121312	1819
Dadra & N. Haveli	118557	69304	37719	8061	134784	2191
Goa	1501763	532392	402496	99753	149887	6167
<b>Sub-Total(WR)</b>	<b>66831364</b>	<b>56530303</b>	<b>24197287</b>	<b>6652374</b>	<b>19496648</b>	<b>1067779</b>
Andhra Pradesh	15092691	15316931	4605043	1614784	3220076	116939
Telangana	12403397	11900975	5120908	1495918	1587056	108075
Karnataka	23187342	20044767	7706528	2405051	4879736	494483
Kerala	17819530	9917139	5097057	2303024	1825466	141778
Tamil Nadu	35316220	23741879	13490252	3635969	10131460	737717
Puducherry	612108	370844	135964	58240	129322	6883
Lakshadweep	73385	20253	16395	4604	2651	353
<b>Sub-Total (SR)</b>	<b>104504673</b>	<b>81312788</b>	<b>36172147</b>	<b>11517590</b>	<b>21775768</b>	<b>1606228</b>
Bihar	14480013	15348575	2491526	1074728	1266268	124277
Jharkhand	3881551	3839235	680386	251496	303438	17453
Odisha	8817665	8771146	1372303	414770	510719	25762
West Bengal	14317402	21214061	4507477	2337635	2477690	177532
Sikkim	131386	101673	32717	11827	1371	385
A&N Island	198599	118628	85001	19578	14522	468
<b>Sub-Total (ER)</b>	<b>41826616</b>	<b>49393318</b>	<b>9169410</b>	<b>4110034</b>	<b>4574008</b>	<b>345877</b>
Arunachal Pradesh	94290	204945	30749	27135	2927	260
Assam	5667992	5501765	1425061	282682	243705	18874
Manipur	796529	488527	110970	27374	20030	2897
Meghalaya	633014	563089	103559	28932	10084	700
Mizoram	287420	223698	59742	18989	4997	1034
Nagaland	114702	279467	18480	23081	12173	4918
Tripura	287455	832221	75908	74568	49006	4676
<b>Sub-Total(NER)</b>	<b>7881402</b>	<b>8093712</b>	<b>1824469</b>	<b>482761</b>	<b>342921</b>	<b>33359</b>
<b>Total (All India)</b>	<b>319629049</b>	<b>258309177</b>	<b>97679783</b>	<b>29220864</b>	<b>58190406</b>	<b>3712670</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).

**TABLE 10 (CONTD.)**  
**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD**  
**REGIONWISE/STATEWISE**  
**UTILITIES**  
**31.3.2021**

State/UTs	Industrial(H.V.)		Public Lighting		Traction	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Chandigarh	61162	107	4830	1364	0	0
Delhi	253366	612	126118	15581	82690	5
Haryana	6886924	16948	35043	4014	76503	104
Himachal Pradesh	1655889	3923	6363	1172	0	0
Jammu & Kashmir and Ladakh	425759	852	11851	321	0	0
Punjab	7128202	12945	55851	4781	0	0
Rajasthan	9365621	29473	366517	20733	0	0
Uttar Pradesh	4591425	13203	214526	4680	108600	10
Uttarakhand	1763255	2190	18485	2346	14000	2
<b>Sub-Total(NR)</b>	<b>32131603</b>	<b>80253</b>	<b>839584</b>	<b>54992</b>	<b>281793</b>	<b>121</b>
Chattisgarh	2372370	2013	41212	8590	387200	25
Gujarat	13659020	19399	107155	22547	14757	16
Madhya Pradesh	2394588	5901	149762	21358	2543	12
Maharashtra	15810163	15188	449688	102056	131731	110
Daman & Diu	517168	719	1536	631	0	0
Dadra & N. Haveli	1185935	916	2822	411	0	0
Goa	634070	849	1600	215	0	0
<b>Sub-Total(WR)</b>	<b>36573313</b>	<b>44985</b>	<b>753775</b>	<b>155808</b>	<b>536231</b>	<b>163</b>
Andhra Pradesh	3607091	6475	171265	112267	643500	55
Telangana	4154518	7882	245921	118816	271555	46
Karnataka	5952005	20268	562795	164550	17202	183
Kerala	1164083	2569	163158	41508	107467	20
Tamil Nadu	6954297	6770	2525270	760970	359820	36
Puducherry	522154	568	6311	52919	0	0
Lakshadweep	0	0	227	76	0	0
<b>Sub-Total(SR)</b>	<b>22354148</b>	<b>44532</b>	<b>3674947</b>	<b>1251106</b>	<b>1399544</b>	<b>340</b>
Bihar	1110141	3082	32512	2844	63500	7
Jharkhand	3074691	2424	36110	791	48691	5
Odisha	2437098	1968	36966	7929	523286	41
West Bengal	4097993	4755	152794	49185	456269	83
Sikkim	72260	774	55	30	0	0
A&N Island	0	0	3066	807	0	0
<b>Sub-Total(ER)</b>	<b>10792183</b>	<b>13003</b>	<b>261503</b>	<b>61586</b>	<b>1091745</b>	<b>136</b>
Arunachal Pradesh	65756	43	7189	1816	0	0
Assam	1151812	4514	8184	1955	0	0
Manipur	16510	105	4130	989	0	0
Meghalaya	168008	137	1502	60	0	0
Mizoram	7982	196	912	1244	0	0
Nagaland	0	0	8480	645	0	0
Tripura	104048	1140	16881	2674	0	0
<b>Sub-Total(NER)</b>	<b>1514117</b>	<b>6135</b>	<b>47278</b>	<b>9383</b>	<b>0</b>	<b>0</b>
<b>Total (All India)</b>	<b>103365364</b>	<b>188908</b>	<b>5577087</b>	<b>1532875</b>	<b>3309314</b>	<b>760</b>

**TABLE 10 (CONTD.)**  
**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD**  
**REGIONWISE/STATEWISE**  
**UTILITIES**  
**31.3.2021**

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	789	120	8629	129	43888	1089	1653288	254413
Delhi	61248	10297	295643	6592	368125	23789	20988713	6412472
Haryana	7628560	650384	471661	22395	1162005	1563	31805467	7090479
Himachal Pradesh	206138	36064	349214	7756	457712	48162	7833985	2574361
Jammu & Kashmir and Ladakh	149862	22237	126225	2804	386397	12251	3867408	2110302
Punjab	10372653	1387681	268045	15282	371468	587	38678446	9915496
Rajasthan	15532552	1599092	971697	64644	962654	190324	48228619	15196099
Uttar Pradesh	8571784	1330329	503198	23168	4101849	215792	63976311	29854591
Uttarakhand	278817	39364	116711	1966	57237	82	6948029	2537684
<b>Sub-Total(NR)</b>	<b>42802402</b>	<b>5075568</b>	<b>3111023</b>	<b>144736</b>	<b>7911334</b>	<b>493639</b>	<b>223980266</b>	<b>75945897</b>
Chattisgarh	1508880	585687	124267	32324	0	0	9665800	5906689
Gujarat	15870322	1858943	1155734	100515	293427	67677	64663639	18821273
Madhya Pradesh	12170641	3265844	450355	48385	308769	2131	29628946	16736723
Maharashtra	16758510	4341657	1008925	57192	1946481	167053	91082513	32732413
Daman & Diu	3859	1284	722	102	3837	555	782817	63404
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>46377632</b>	<b>10066673</b>	<b>2744456</b>	<b>238978</b>	<b>2587497</b>	<b>243008</b>	<b>200098203</b>	<b>75000071</b>
Andhra Pradesh	12231079	1809051	549939	64658	2636311	274098	42756995	19315258
Telangana	10823917	2526252	334763	74799	2947509	81701	37889544	16314464
Karnataka	15563618	3171152	1788913	230059	3535801	1179704	63193941	27710217
Kerala	962385	476552	1635	11	131639	2298	27272419	12884899
Tamil Nadu	11034011	2181365	0	0	1300259	573763	81111589	31638469
Puducherry	45717	7012	160728	154	2843	35542	1615147	532162
Lakshadweep	0	0	0	0	226	143	92884	25429
<b>Sub-Total(SR)</b>	<b>50660727</b>	<b>10171384</b>	<b>2835978</b>	<b>369681</b>	<b>10554588</b>	<b>2147249</b>	<b>253932519</b>	<b>108420898</b>
Bihar	816449	362852	141232	40877	38153	15991	20439794	16973233
Jharkhand	0	61959	0	0	250632	75	8275499	4173438
Odisha	595553	136371	100231	12435	644087	56064	15037908	9426486
West Bengal	1364584	337006	523506	31470	307164	4924	28204879	24156651
Sikkim	0	0	0	0	35692	1819	273482	116508
A&N Island	1267	481	0	0	18867	1776	321321	141738
<b>Sub-Total(ER)</b>	<b>2777853</b>	<b>898669</b>	<b>764969</b>	<b>84782</b>	<b>1294595</b>	<b>80649</b>	<b>72552883</b>	<b>54988054</b>
Arunachal Pradesh	23	18	2786	85	26760	96	230482	234398
Assam	129325	33340	60922	4679	498872	53770	9185873	5901579
Manipur	1019	66	23825	211	53430	760	1026444	520929
Meghalaya	219	28	16425	453	57898	2615	990709	596014
Mizoram	0	0	79557	79	58990	20055	499600	265295
Nagaland	11	1	795	39	39112	2040	193752	310191
Tripura	37290	7268	81435	7271	84657	2897	736680	932715
<b>Sub-Total(NER)</b>	<b>167887</b>	<b>40721</b>	<b>265746</b>	<b>12817</b>	<b>819720</b>	<b>82233</b>	<b>12863539</b>	<b>8761121</b>
<b>Total (All India)</b>	<b>142786501</b>	<b>26253015</b>	<b>9722172</b>	<b>850994</b>	<b>23167734</b>	<b>3046778</b>	<b>763427411</b>	<b>323116041</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 2021, the total number of villages electrified was 597464 out of total number of villages of 597464 in the country representing 100 %. All the States/UTs have achieved 100% village electrification as per the above definition.

As per census 2011 data, all the towns i.e. 7935 towns are already electrified in the country.

The total number of existing irrigation pump-sets/tube-wells in the country were 22089217 as on 31<sup>st</sup> March, 2021. Maharashtra has maximum number of energized pump- sets (4360386) followed by Karnataka (2521284). The average capacity and electricity consumption per pump-set was 6.46 kW and 10019 kWh respectively. The electricity consumption during 2020-21 in Agriculture sector is third highest being 21.25% of total consumption of electricity in the country.

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



**TABLE 11.1**  
**TOWNS ELECTRIFIED**  
**31.03.2021**

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 (erstwhile AP)*	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**  
**STATEWISE**  
**31.03.2021**

Name of the State/UTs	Total Inhabited Villages as per 2011 census	Villages Electrified as on 31.03.2021	% age Electrified
Chandigarh	5	5	100.00
Delhi	103	103	100.00
Haryana	6642	6642	100.00
Himachal Pradesh	17882	17882	100.00
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 - STATEWISE**  
**31.03.2021**

Name of the State/UTs	Number of Pumpsets Energised up to 31.03.2020	New Pumpsets Energised during the year 2020-21 (Prov.)	No. of Existing Pumpsets Energised upto 31.03.2021(Prov.)	Agricultural Consumption	
				Energy (GWh)	% of total Consumption in the state
Chandigarh	421	0	421	1.37	0.10
Delhi	30575	0	30575	39.44	0.15
Haryana	619245	3370	622615	10087.50	22.25
Himachal Pradesh	36400	2811	39211	72.64	0.83
Jammu & Kashmir and Ladakh	9714	0	9714	361.57	3.77
Punjab	1268252	0	1268252	13092.85	24.75
Rajasthan	1583474	0	1524106	28525.48	38.42
Uttar Pradesh	997444	66	997510	18931.27	17.92
Uttarakhand	28054	0	28054	189.99	3.12
<b>Sub-Total (NR)</b>	<b>4573579</b>	<b>6247</b>	<b>4520458</b>	<b>71302.10</b>	<b>21.24</b>
Chhattisgarh	443884	0	443884	5902.81	12.23
Gujarat	1613439	12705	1626144	12663.82	11.18
Madhya Pradesh	1550454	40421	1590875	25645.52	36.36
Maharashtra	4360386	0	4360386	33912.33	25.18
Daman & Diu	1243	0	1243	3.40	0.16
D. & N. Haveli	953	0	953	4.85	0.09
Goa	8499	0	8499	31.25	0.72
<b>Sub-Total(WR)</b>	<b>7978858</b>	<b>53126</b>	<b>8031984</b>	<b>78163.98</b>	<b>20.65</b>
Andhra Pradesh	1337517	0	1337517	9368.73	22.79
Telangana	2227416	0	2227416	22260.11	36.55
Karnataka	2521284	0	2521284	22337.19	30.54
Kerala	545187	21143	566330	412.02	1.75
Tamil Nadu	2139911	17544	2157455	13974.68	13.68
Puducherry	6930	0	6930	68.57	2.51
Lakshadweep	0	0	0	0.00	0.00
<b>Sub-Total(SR)</b>	<b>8778245</b>	<b>38687</b>	<b>8816932</b>	<b>68421.30</b>	<b>22.43</b>
Bihar	285501	0	285501	1149.30	4.67
Jharkhand	9453	0	9453	203.60	0.79
Odisha	78200	0	78200	644.66	0.89
West Bengal	330459	6483	336942	1332.23	2.44
Sikkim	0	0	0	0.00	0.00
A.& N. Islands	0	0	0	1.11	0.45
<b>Sub-Total(ER)</b>	<b>703613</b>	<b>6483</b>	<b>710096</b>	<b>3330.90</b>	<b>1.87</b>
Arunachal Pradesh	0	0	0	0.77	0.19
Assam	3675	0	3675	39.00	0.45
Manipur	108	0	108	7.08	1.09
Meghalaya	24	0	24	0.14	0.01
Mizoram	0	0	0	0.16	0.04
Nagaland	194	0	194	0.00	0.00
Tripura	5746	0	5746	38.00	3.87
<b>Sub-Total (NER)</b>	<b>9747</b>	<b>0</b>	<b>9747</b>	<b>85.15</b>	<b>0.65</b>
<b>Total (All India)</b>	<b>22044042</b>	<b>104543</b>	<b>22089217</b>	<b>221303.44</b>	<b>18.36</b>

Note: 59368 Nos. of pumpsets have been de-energised in Rajasthan during 2020-2021

**TABLE 11.3 (CONTD.)**  
**ALL INDIA IRRIGATION PUMPSETS/ TUBEWELLS ENERGISED - STATEWISE**  
**31.03.2021**

Name of the State/Uts	Agricultural	Average.Capacity	Av. Consumption
	Connected Load	pumpset	per pumpset
	(kW)	(kW)	(kWh)
Chandigarh	789	1.87	3245
Delhi	61248	2.00	1290
Haryana	7628560	12.25	16202
Himachal Pradesh	206138	5.26	1853
Jammu & Kashmir	149862	15.43	37221
Punjab	10372653	8.18	10324
Rajasthan	15532552	10.19	18716
Uttar Pradesh	8571784	8.59	18979
Uttarakhand	278817	9.94	6772
<b>Sub-Total (NR)</b>	<b>42802402</b>	<b>9.47</b>	<b>15773</b>
Chhattisgarh	1508880	3.40	13298
Gujarat	15870322	9.76	7788
Madhya Pradesh	12170641	7.65	16120
Maharashtra	16758510	3.84	7777
Daman & Diu	3859	3.10	2734
D. & N. Haveli	8230	8.64	5092
Goa	57190	6.73	3677
<b>Sub-Total(WR)</b>	<b>46377632</b>	<b>5.77</b>	<b>9732</b>
Andhra Pradesh	12231079	9.14	7005
Telangana	10823917	4.86	9994
Karnataka	15563618	6.17	8859
Kerala	962385	1.70	728
Tamil Nadu	11034011	5.11	6477
Puducherry	45717	6.60	9895
Lakshadweep	0	0.00	0
<b>Sub-Total(SR)</b>	<b>50660727</b>	<b>5.75</b>	<b>7760</b>
Bihar	816449	2.86	4026
Jharkhand	0	0.00	21538
odhisa	595553	7.62	8244
West Bengal	1364584	4.05	3954
Sikkim	0	0.00	0
A.& N. Islands	1267	0.00	0
<b>Sub-Total(ER)</b>	<b>2777853</b>	<b>3.91</b>	<b>4691</b>
Arunachal Pradesh	23	0.00	0
Assam	129325	35.19	10612
Manipur	1019	9.43	65556
Meghalaya	219	9.13	5924
Mizoram	0	0.00	0
Nagaland	11	0.05	0
Tripura	37290	6.49	6612
<b>Sub-Total (NER)</b>	<b>167887</b>	<b>17.22</b>	<b>8736</b>
<b>Total (All India)</b>	<b>142786501</b>	<b>6.46</b>	<b>10019</b>



A photograph of a power transmission line tower against a sunset sky. The sky is filled with warm, orange and yellow hues from the setting sun, with some darker clouds visible. In the foreground, several tall, black lattice-style power pylons stand in a row, connected by a network of thick black wires. The perspective is looking down the length of the towers.

## 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-Three (33) numbers of trading companies having trading license as on 31-03-2021. 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 2020-21 was 12477.14 GWh which constitute 0.91 % of the total generation from utilities as against 10689.88 GWh which constituted 0.77% of the total generation from utilities in the previous year 2019-20.

Out of total volume of trade of 12477.14 GWh, Power Trading Corporation which has traded 4392.68 GWh constituting 35.21% of total volume of trade followed by NVVNL which traded 2358.79 GWh constituting 18.9%, TPTCL which traded 1801.09 GWh constituting 14.44%, AEL which traded 1291.03 GWh constituting 10.35%, & of the total volume of trade which amounts to 78.9% of the total volume of electricity traded.

The chapter 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**  
**31.03.2021**

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	GMR Energy Trading Ltd	14.10.2008	I
6	Global Energy (P) Ltd.	28.11.2008	I
7	Statkraft Markets (P) Ltd.	21.06.2012	I
8	Manikaran Power Limited, Kolkata	29.06.2012	I
9	Solar Energy Corporation of India	01.04.2014	I
10	NHPC Limited	23.04.2018	I
11	NLC India Ltd.	13.07.2018	I
12	Refex Energy Ltd.	30.08.2018	I
13	NTPC limited	08.07.2019	I
14	National Energy Trading & Services Ltd.	23.07.2004	II
15	Essar Electric Power Development Corporation Ltd.	14.12.2005	II
16	RPG Power Trading Company Ltd	23.09.2008	II
17	Kreate Energy (I) Pvt. Ltd.	12.02.2009	II
18	Arunachal Pradesh Power Corporation (P) Limited, Itanagar	11.09.2012	II
19	Instinct Infra & Power Ltd.	07.09.2005	III
20	Greenko Energies (P)Ltd.	22.01.2008	III
21	Shyam Indus Power Solutions (P) Ltd	11.11.2008	III
22	ABJA Power Pvt. Ltd	26.04.2011	III
23	Saranyu Power Trading Pvt. Ltd.	10.02.2015	III
24	JSW Power Trading Company Ltd.	25.04.2006	IV
25	Knowledge Infrastructure Systems (P) Ltd	18.12.2008	IV
26	Ambitious Power Trading Company Ltd.	16.09.2008	IV
27	Shree Cement Ltd	16.03.2010	IV
28	Vedprakash Power (P) Limited	19.08.2013	IV
29	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
30	Atria Energy Services Pvt. Ltd.	20.06.2017	IV
31	Customised Energy Solutions India (P) Ltd.	08.06.2011	V
32	Gita Power & Infrastructure(P) Ltd.	20.10.2015	V
33	Renew Solar Services Pvt. Ltd.	27.01.2017	V

Trading Limit for Category of License

Category I : Above 7,000 MUs

Category II : Not more than 7,000 MUs

Category III : Not more than 4,000 MUs

Category IV : Not more than 2,000 MUs

Category V : Not more than 500 MUs

Source – CERC

**TABLE 12.2**  
**STATE WISE IMPORT/EXPORT OF TRADED ENERGY DURING**  
**2020-21**

(GWh)

State/UTs	Export Gwh	Import Gwh
Chandigarh	0.00	0.00
Delhi	185.81	1702.92
Haryana	0.00	236.18
Himachal Pradesh	1839.00	825.81
Jammu & Kashmir	42.66	0.00
Punjab	0.00	2533.77
Rajasthan	0.13	1296.96
Uttar Pradesh	0.00	2117.97
Uttarakhand	0.00	0.00
<b>Northern Region</b>	<b>2067.60</b>	<b>8713.61</b>
Chhattisgarh	3938.84	1.67
Gujarat	2135.47	579.91
Madhya Pradesh	3013.41	0.00
Maharashtra	0.00	702.69
Daman & Diu	0.00	0.00
Dadar & Nagar Haveli	0.00	0.00
Goa	0.00	238.48
<b>Western Region</b>	<b>9087.73</b>	<b>1522.76</b>
Andhra Pradesh	604.75	290.90
Telangana	0.00	0.00
Karnataka	510.48	17.10
Kerala	0.00	156.88
Tamil Nadu	2.35	1565.12
Puducherry	0.00	0.00
Lakshadweep	0.00	0.00
<b>Southern Region</b>	<b>1117.57</b>	<b>2029.99</b>
Bihar	0.00	0.00
Jharkhand	0.00	0.00
West Bengal	0.87	54.07
Odisha	200.79	98.07
Sikkim	1.87	1.87
A. & N. Islands	0.00	0.00
<b>Eastern Region</b>	<b>203.53</b>	<b>154.01</b>
Arunachal Pradesh	0.00	0.00
Assam	0.00	24.83
Manipur	0.00	0.00
Meghalaya	0.00	0.72
Mizoram	0.70	0.00
Nagaland	0.00	0.00
Tripura	0.00	26.17
<b>North-Eastern Region</b>	<b>0.70</b>	<b>51.72</b>
Central Sector	0.00	0.00
Other Country	0.00	5.06
Inter Trader	0.00	0.00
<b>All India</b>	<b>12477.14</b>	<b>12477.14</b>

**TABLE 12.3**  
**STATE WISE IMPORT FIGURES DURING**  
**2020-21**

(GWh)

State/UTs	PEAK	Round the Clock	Other than Peak & RTC	Total
Chandigarh	0.00	0.00	0.00	0.00
Delhi	25.83	879.97	797.12	1702.92
Haryana	0.00	24.04	212.14	236.18
Himachal Pradesh	0.00	650.16	175.65	825.81
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	0.00	851.12	1682.65	2533.77
Rajasthan	23.04	771.83	502.09	1296.96
Uttar Pradesh	135.61	517.61	1464.75	2117.97
Uttarakhand	0.00	0.00	0.00	0.00
<b>Northern Region</b>	<b>184.47</b>	<b>3694.75</b>	<b>4834.39</b>	<b>8713.61</b>
Chhattisgarh	0.00	0.00	1.67	1.67
Gujarat	0.00	510.11	69.80	579.91
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	0.00	638.67	64.02	702.69
Daman & Diu	0.00	0.00	0.00	0.00
Dadar & Nagar Haveli	0.00	0.00	0.00	0.00
Goa	0.00	238.48	0.00	238.48
<b>Western Region</b>	<b>0.00</b>	<b>1387.27</b>	<b>135.49</b>	<b>1522.76</b>
Andhra Pradesh	0.00	290.90	0.00	290.90
Telangana	0.00	0.00	0.00	0.00
Karnataka	0.00	17.10	0.00	17.10
Kerala	5.03	151.85	0.00	156.88
Tamil Nadu	0.00	1565.12	0.00	1565.12
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
<b>Southern Region</b>	<b>5.03</b>	<b>2024.96</b>	<b>0.00</b>	<b>2029.99</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
West Bengal	0.00	21.85	32.22	54.07
Odisha	0.00	88.41	9.66	98.07
Sikkim	0.00	0.00	1.87	1.87
A. & N. Islands	0.00	0.00	0.00	0.00
<b>Eastern Region</b>	<b>0.00</b>	<b>110.26</b>	<b>43.75</b>	<b>154.01</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	24.83	0.00	24.83
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.72	0.00	0.72
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.00	15.75	10.42	26.17
<b>North-Eastern Region</b>	<b>0.00</b>	<b>41.30</b>	<b>10.42</b>	<b>51.72</b>
Central Sector	0.00	0.00	0.00	0.00
Other Country	0.00	5.06	0.00	5.06
Inter Trader	0.00	0.00	0.00	0.00
<b>All India</b>	<b>189.50</b>	<b>7263.59</b>	<b>5024.05</b>	<b>12477.14</b>

**TABLE 12.4**  
**STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWh DURING**  
**2020-21**

(GWh)

State/UTs	Import	Export	Trader
Delhi	183.61	0.00	EEPDCL
	365.45	0.00	KEIPL
	0.00	38.55	NVVN
	1045.48	0.00	PTC
	108.38	147.27	TPTCL
<b>Total</b>	<b>1702.92</b>	<b>185.81</b>	
Haryana	19.00	0.00	EEPDCL
	3.16	0.00	GMR
	1.88	0.00	MPL
	212.14	0.00	PTC
<b>Total</b>	<b>236.18</b>	<b>0.00</b>	
Himachal Pradesh	318.59	0.00	AEL
	0.00	364.75	KEIPL
	36.71	211.48	MPL
	192.44	0.00	NVVN
	137.01	1077.04	PTC
	141.06	185.73	TPTCL
<b>Total</b>	<b>825.81</b>	<b>1839.00</b>	
Jammu & Kashmir	0.00	26.48	PTC
	0.00	16.18	TPTCL
<b>Total</b>	<b>0.00</b>	<b>42.66</b>	
Punjab	128.55	0.00	AEL
	471.31	0.00	MPL
	78.12	0.00	NHPC
	256.73	0.00	NVVN
	816.23	0.00	PTC
	782.82	0.00	TPTCL
<b>Total</b>	<b>2533.77</b>	<b>0.00</b>	
Rajasthan	0.00	0.13	AEL
	597.81	0.00	NVVN
	671.17	0.00	PTC
	27.97	0.00	TPTCL
<b>Total</b>	<b>1296.96</b>	<b>0.13</b>	
Uttar Pradesh	18.99	0.00	AEL
	68.82	0.00	APPCPL
	143.87	0.00	EEPDCCL
	17.26	0.00	IIPL
	165.84	0.00	MPL
	145.48	0.00	NHPC
	408.18	0.00	NVVN
	925.53	0.00	PTC
	86.68	0.00	REL
	137.33	0.00	TPTCL
<b>Total</b>	<b>2117.97</b>	<b>0.00</b>	

**TABLE 12.4 (CONTD.)**  
**STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWh DURING**  
**2020-21**

(GWh)

State/UTs	Import	Export	Trader
<b>Northern Region</b>	<b>8713.61</b>	<b>2067.60</b>	
Chhattisgarh	0.00	1008.99	AEL
	0.00	69.54	APPCPL
	0.00	13.44	APPL
	1.67	23.16	GMR
	0.00	17.26	IIPL
	0.00	3.66	KEIPL
	0.00	439.30	MPL
	0.00	732.59	NVVN
	0.00	856.61	PTC
	0.00	71.98	REL
	0.00	702.31	TPTCL
<b>Total</b>	<b>1.67</b>	<b>3938.84</b>	
Gujarat	282.90	281.91	AEL
	18.33	0.00	GMR
	0.00	417.25	MPL
	0.00	181.36	NHPC
	0.00	756.29	NVVN
	98.43	451.19	PTC
	180.24	47.48	TPTCL
<b>Total</b>	<b>579.91</b>	<b>2135.47</b>	
Madhya Pradesh	0.00	12.42	APPCPL
	0.00	393.52	EEDCL
	0.00	33.13	MPL
	0.00	330.79	NHPC
	0.00	831.37	NVVN
	0.00	932.09	PTC
	0.00	480.11	TPTCL
<b>Total</b>	<b>0.00</b>	<b>3013.41</b>	
Maharashtra	385.12	0.00	AEL
	317.57	0.00	TPTCL
<b>Total</b>	<b>702.69</b>	<b>0.00</b>	
Goa	12.42	0.00	APPCPL
	209.89	0.00	MPL
	16.18	0.00	TPTCL
<b>Total</b>	<b>238.48</b>	<b>0.00</b>	
<b>Western Region</b>	<b>1522.76</b>	<b>9087.73</b>	
Andhra Pradesh	2.35	20.40	MPL
	288.55	0.00	NHPC
	0.00	565.15	PTC
	0.00	19.19	REL
<b>Total</b>	<b>290.90</b>	<b>604.75</b>	

**TABLE 12.4 (CONTD.)**  
**STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWh DURING**  
**2020-21**

(GWh)

State/UTs	Import	Export	Trader
Kerala	156.88	0.00	AEL
<b>Total</b>	<b>156.88</b>	<b>0.00</b>	
Karnataka	13.44	0.00	APPL
	0.00	5.54	APPCPL
	3.66	0.00	KEIPL
	0.00	484.13	PTC
	0.00	20.81	TPTCL
<b>Total</b>	<b>17.10</b>	<b>510.48</b>	
Tamil Nadu	210.36	2.35	MPL
	903.62	0.00	NVVN
	446.18	0.00	PTC
	4.95	0.00	REL
<b>Total</b>	<b>1565.12</b>	<b>2.35</b>	
<b>Southern Region</b>	<b>2029.99</b>	<b>1117.57</b>	
Odisha	1.59	0.00	MPL
	35.44	0.00	PTC
	0.00	0.45	REL
	61.04	200.33	TPTCL
<b>Total</b>	<b>98.07</b>	<b>200.79</b>	
West Bengal	5.54	0.00	APPCPL
	47.03	0.00	EEDCL
	1.50	0.87	TPTCL
<b>Total</b>	<b>54.07</b>	<b>0.87</b>	
Sikkim	1.87	1.87	KEIPL
<b>Total</b>	<b>1.87</b>	<b>1.87</b>	
<b>Eastern Region</b>	<b>154.01</b>	<b>203.53</b>	
Assam	23.99	0.00	MPL
	0.84	0.00	TPTCL
<b>Total</b>	<b>24.83</b>	<b>0.00</b>	
Meghalaya	0.72	0.00	APPCPL
<b>Total</b>	<b>0.72</b>	<b>0.00</b>	
Mizoram	0.00	0.70	KEIPL
	0.00	0.70	
Tripura	26.17	0.00	TPTCL
<b>Total</b>	<b>26.17</b>	<b>0.00</b>	
<b>North Eastern Region</b>	<b>51.72</b>	<b>0.70</b>	
Central Sector	<b>0.00</b>	<b>0.00</b>	
All India	<b>12472.08</b>	<b>12477.14</b>	
Export/Import from other country	<b>5.06</b>	<b>0.00</b>	PTC
<b>Total Other Country</b>	<b>5.06</b>	<b>0.00</b>	
<b>Grand Total</b>	<b>12477.14</b>	<b>12477.14</b>	

**TABLE 12.5**  
**TRADER-WISE STATE-WISE ENERGY SALES DURING**  
**2020-21**

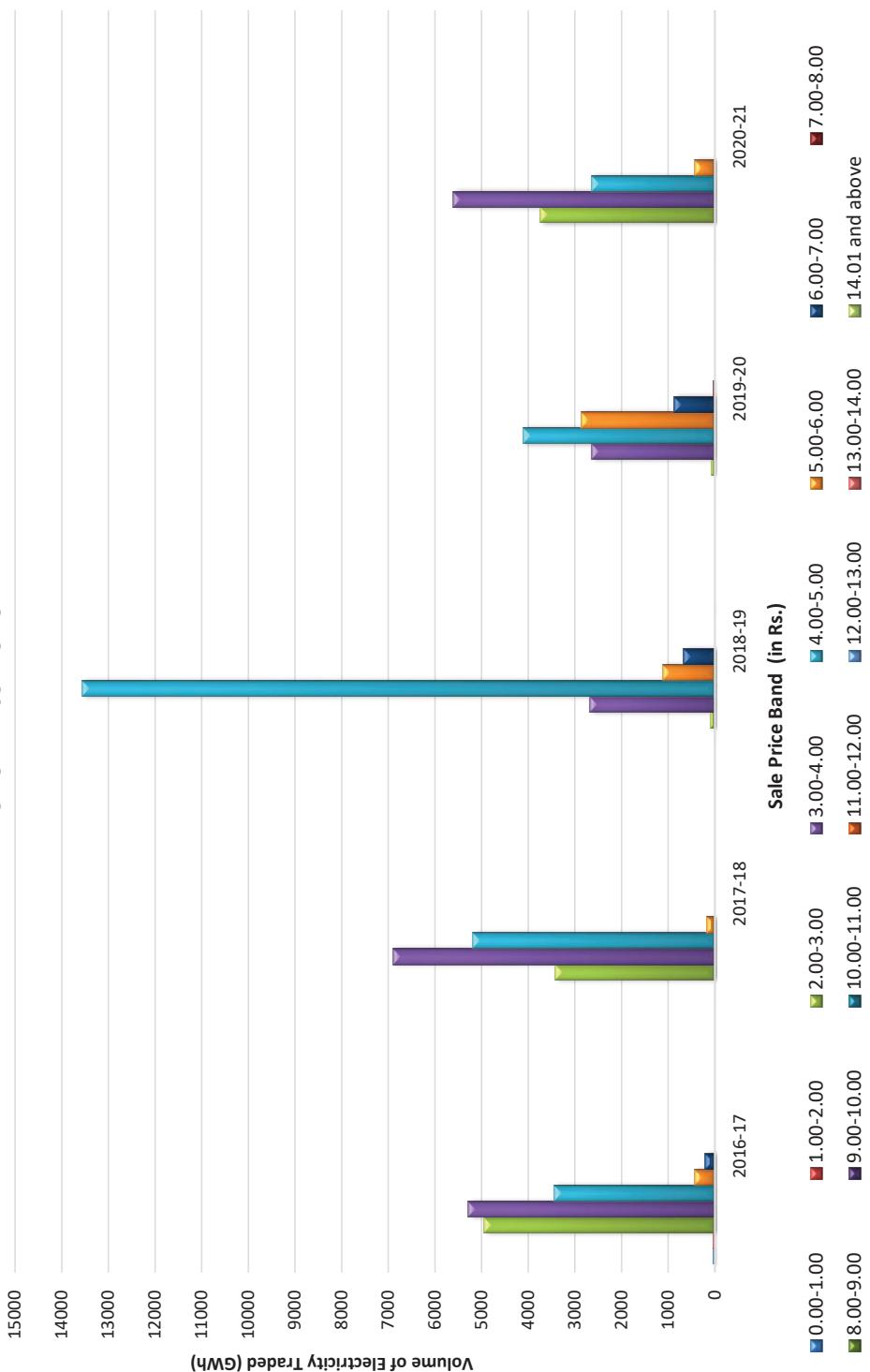
(GWh)

Trader	Sales to	Sales Vol.	% Vol.
AEL	Gujarat	282.90	
	Himachal Pradesh	318.59	
	Kerala	156.88	
	Uttar Pradesh	18.99	
	Maharashtra	385.12	
	Punjab	128.55	
<b>Total AEL</b>		<b>1291.03</b>	<b>10.35</b>
APPCL	Goa	12.42	
	Meghalaya	0.72	
	Uttar Pradesh	68.82	
	West Bengal	5.54	
<b>Total APPCL</b>		<b>87.50</b>	<b>0.70</b>
EEPCL	Delhi	183.61	
	Haryana	19.00	
	Uttar Pradesh	143.87	
	West Bengal	47.03	
<b>Total EEPCL</b>		<b>393.52</b>	<b>3.15</b>
GMR	Chhattisgarh	1.67	
	Gujarat	18.33	
	Haryana	3.16	
<b>Total GMR</b>		<b>23.16</b>	<b>0.19</b>
KEPL	Delhi	365.45	
	Karnataka	3.66	
	Sikkim	1.87	
<b>Total KEPL</b>		<b>370.98</b>	<b>2.97</b>
MPL	Andhra Pradesh	2.35	
	Assam	23.99	
	Goa	209.89	
	Haryana	1.88	
	Himachal Pradesh	36.71	
	Odisha	1.59	
	Punjab	471.31	
	Tamil Nadu	210.36	
<b>Total MPL</b>	Uttar Pradesh	165.84	
		<b>1123.91</b>	<b>9.01</b>
NHPC	Andhra Pradesh	288.55	
	Punjab	78.12	
	Uttar Pradesh	145.48	
<b>Total NHPC</b>		<b>512.15</b>	<b>4.10</b>

**TABLE 12.5 (CONTD.)**  
**TRADER-WISE STATE-WISE ENERGY SALES DURING**  
**2020-21**

Trader	Sales to	Sales Vol.	% Vol.
NVVNL	Himachal Pradesh	192.44	
	Punjab	256.73	
	Rajasthan	597.81	
	Tamil Nadu	903.62	
	Uttar Pradesh	408.18	
<b>Total NVVNL</b>		<b>2358.79</b>	<b>18.90</b>
PTC	Delhi	1045.48	
	Gujarat	98.43	
	Haryana	212.14	
	Himachal Pradesh	137.01	
	Nepal	5.06	
	Odisha	35.44	
	Punjab	816.23	
	Rajasthan	671.17	
	Tamil Nadu	446.18	
	Uttar Pradesh	925.53	
<b>Total PTC</b>		<b>4392.68</b>	<b>35.21</b>
REL	Tamil Nadu	4.95	
	Uttar Pradesh	86.68	
<b>Total REL</b>		<b>91.63</b>	<b>0.73</b>
I IPL	Uttar Pradesh	17.26	
<b>Total REL</b>		<b>17.26</b>	<b>0.14</b>
APPL	Karnataka	13.44	
<b>Total REL</b>		<b>13.44</b>	<b>0.11</b>
TPTCL	Assam	0.84	
	Delhi	108.38	
	Goa	16.18	
	Gujarat	180.24	
	Himachal Pradesh	141.06	
	Maharashtra	317.57	
	Odisha	61.04	
	Punjab	782.82	
	Rajasthan	27.97	
	Tripura	26.17	
<b>Total TPTCL</b>	Uttar Pradesh	137.33	
	West Bengal	1.50	
		<b>1801.09</b>	<b>14.44</b>
<b>Total All India</b>		<b>12477.14</b>	<b>100.00</b>

## Volume of Electricity Traded Sale Price wise 2016-17 to 2020-21



**TABLE 12.6  
AVERAGE SALE AND PURCHASE PRICE OF ELECTRICITY TRADED AND TRADING MARGIN-TRADER-WISE  
2020-21**

Sl. No.	Name of Trading Licensee	Average Purchase Price (Rs.)	Average Sale Price (Rs.)	Average Trading Margin (Rs.)
1	Adani Enterprises Ltd.	3.554	3.563	0.009
2	Arunachal Pradesh Power Corporation Private Limited	3.549	3.585	0.038
3	Essar Electric Power Development Corporation Ltd.	3.022	3.027	0.005
4	GMR Energy Trading Ltd	3.023	3.064	0.041
5	Kreate Energy (I) Pvt. Ltd.	4.704	4.729	0.022
6	Manikaran Power Limited	3.013	3.061	0.049
7	NHPC Limited	3.688	3.721	0.033
8	NTPC Vidyut Vyapar Nigam Ltd.	3.195	3.218	0.023
9	PTC India Ltd.	3.751	3.786	0.035
10	Refex Energy Ltd.	2.662	2.676	0.014
11	Tata Power Trading Company Ltd.	3.239	3.270	0.031
12	Instinct Infra & Power Ltd.	2.730	2.774	0.044
13	ABJA Power Pvt. Ltd.	2.700	2.730	0.030
<b>Grand Total</b>		<b>3.359</b>	<b>3.390</b>	<b>0.031</b>

**TABLE 12.7  
VOLUME OF ELECTRICITY TRADED SALE PRICE-WISE  
2020-21**

Sale Price (Rs)	Volume (GWh)	% of Total Volume
0.00-1.000	7.41	0.06
1.001-2.000	0.00	0.00
2.001-3.000	3767.50	30.20
3.001-4.000	5615.34	45.01
4.001-5.000	2648.69	21.23
5.001-6.000	438.20	3.51
<b>Total</b>	<b>12477.14</b>	<b>100.00</b>

## APPENDICES







## LIST OF THERMAL POWER STATIONS AS ON 31.03.2021

### APPENDIX-A

Sl. No.	Region/State/JUT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW	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

**LIST OF THERMAL POWER STATIONS AS ON 31.03.2021****APPENDIX-A**

<b>Sl. No.</b>	<b>Region/State/UT</b>	<b>Sector</b>	<b>Owner</b>	<b>Name of Project</b>	<b>Prime Mover</b>	<b>Unit No.</b>	<b>Installed Capacity MW</b>	<b>Year of Comm.</b>
8	Haryana	Private Sector	JHA-UJAR POWER LTD.	MAHATMA GANDHI TPP	Steam	1	660,000	2012
	Haryana	Private Sector	JHA-UJAR POWER LTD.	MAHATMA GANDHI TPP	Steam	2	660,000	2012
<b>Total (Haryana)</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>								
10	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	1	210,000	1997
	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	2	210,000	1998
	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	3	250,000	2008
	Punjab	State Sector	PSPCL	GH TPS (LEH.MOH.)	Steam	4	250,000	2008
11	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	3	210,000	1988
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	4	210,000	1989
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	5	210,000	1992
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	6	210,000	1993
12	Punjab	Private Sector	Nabha Power Ltd	RAJPURA TPP	Steam	1	700,000	2014
	Punjab	Private Sector	Nabha Power Ltd	RAJPURA TPP	Steam	2	700,000	2014
13	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	1	660,000	2014
	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	2	660,000	2015
	Punjab	Private Sector	Talwandi Sabo Power Ltd	TALWANDI SABO TPP	Steam	3	660,000	2016
14	Punjab	Private Sector	GPGSL (GVK)	GOINDWAL SAHIB TPP	Steam	1	270,000	2016
	Punjab	Private Sector	GPGSL (GVK)	GOINDWAL SAHIB TPP	Steam	2	270,000	2016
<b>Total (Punjab)</b>								
15	Rajasthan	State Sector	RRVUNL	KOTA TPP	Steam	1	110,000	1983
	Rajasthan	State Sector	RRVUNL	KOTA TPP	Steam	2	110,000	1983
	Rajasthan	State Sector	RRVUNL	KOTA TPP	Steam	3	210,000	1988

**LIST OF THERMAL POWER STATIONS AS ON 31.03.2021****APPENDIX-A**

<b>Sl. No.</b>	<b>Region/State/UT</b>	<b>Sector</b>	<b>Owner</b>	<b>Name of Project</b>	<b>Prime Mover</b>	<b>Unit No.</b>	<b>Installed Capacity MW</b>	<b>Year of Comm.</b>
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	RRVVNL	SURATGARH TPS	Steam	5	250,000	2003	
Rajasthan	State Sector	RRVVNL	SURATGARH TPS	Steam	6	250,000	2009	
Rajasthan	State Sector	RRVVNL	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 CCP	GT-Gas	1	110,000	2007
Rajasthan	State Sector	RRVUNL	DHOLPUR CCP	GT-Gas	2	110,000	2007	
Rajasthan	State Sector	RRVUNL	DHOLPUR CCP	GT-Gas	3	110,000	2007	
21	Rajasthan	State Sector	RRVUNL	RAMGARH CCP	GT-Gas	1	3,000	1994
Rajasthan	State Sector	RRVUNL	RAMGARH CCP	GT-Gas	2	35,500	1996	
Rajasthan	State Sector	RRVUNL	RAMGARH CCP	GT-Gas	3	37,500	2002	
Rajasthan	State Sector	RRVUNL	RAMGARH CCP	GT-Gas	4	37,800	2003	
Rajasthan	State Sector	RRVUNL	RAMGARH CCP	GT-Gas	5	110,000	2013	
Rajasthan	State Sector	RRVUNL	RAMGARH CCP	GT-Gas	6	50,000	2013	

**LIST OF THERMAL POWER STATIONS AS ON 31.03.2021****APPENDIX-A**

S.I. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity MW	Year of Comm.
22	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	1	66,000	2013
	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	2	66,000	2013
23	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	1	135,000
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	2	135,000
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	3	135,000
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	4	135,000
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	5	135,000
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	6	135,000
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	7	135,000
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	8	135,000
<b>Total (Rajasthan)</b>							
24	Uttar Pardesh	State Sector	UPRVUNL	ANPARA TPS	Steam	1	210,000
	Uttar Pardesh	State Sector	UPRVUNL	ANPARA TPS	Steam	2	210,000
	Uttar Pardesh	State Sector	UPRVUNL	ANPARA TPS	Steam	3	210,000
	Uttar Pardesh	State Sector	UPRVUNL	ANPARA TPS	Steam	4	50,000
	Uttar Pardesh	State Sector	UPRVUNL	ANPARA TPS	Steam	5	50,000
	Uttar Pardesh	State Sector	UPRVUNL	ANPARA TPS	Steam	6	50,000
	Uttar Pardesh	State Sector	UPRVUNL	ANPARA TPS	Steam	7	50,000
	25	Uttar Pardesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	7
	Uttar Pardesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	8	105,000
	Uttar Pardesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	9	25,000
	26	Uttar Pardesh	State Sector	UPRVUNL	OBRA TPS	Steam	7
	Uttar Pardesh	State Sector	UPRVUNL	OBRA TPS	Steam	9	20,000
	Uttar Pardesh	State Sector	UPRVUNL	OBRA TPS	Steam	10	200,000
	Uttar Pardesh	State Sector	UPRVUNL	OBRA TPS	Steam	11	200,000
	Uttar Pardesh	State Sector	UPRVUNL	OBRA TPS	Steam	12	200,000
	Uttar Pardesh	State Sector	UPRVUNL	OBRA TPS	Steam	13	200,000
27	Uttar Pardesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	1	110,000
	Uttar Pardesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	2	110,000
	Uttar Pardesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	3	210,000

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2021

## APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.
	Uttar Pardesh	State Sector	UPRVNUL	PARICHAHA TPS	Steam	4	210.000	2006
	Uttar Pardesh	State Sector	UPRVNUL	PARICHAHA TPS	Steam	5	250.000	2012
	Uttar Pardesh	State Sector	UPRVNUL	PARICHAHA TPS	Steam	6	250.000	2013
28	Uttar Pardesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	1	45.000	2011
29	Uttar Pardesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	2	45.000	2011
	Uttar Pardesh	Private Sector	BEPL	MAQSODPUR TPS	Steam	1	45.000	2011
	Uttar Pardesh	Private Sector	BEPL	MAQSODPUR TPS	Steam	2	45.000	2012
30	Uttar Pardesh	Private Sector	BEPL	BARKHERA TPS	Steam	1	45.000	2011
	Uttar Pardesh	Private Sector	BEPL	BARKHERA TPS	Steam	2	45.000	2012
31	Uttar Pardesh	Private Sector	BEPL	UTRAULA TPS	Steam	1	45.000	2012
	Uttar Pardesh	Private Sector	BEPL	UTRAULA TPS	Steam	2	45.000	2012
32	Uttar Pardesh	Private Sector	BEPL	KUNDARKI TPS	Steam	1	45.000	2012
	Uttar Pardesh	Private Sector	BEPL	KUNDARKI TPS	Steam	2	45.000	2012
33	Uttar Pardesh	Private Sector	LAPPL	ANPARA C TPS	Steam	1	600.000	2011
	Uttar Pardesh	Private Sector	LAPPL	ANPARA C TPS	Steam	2	600.000	2011
34	Uttar Pardesh	Private Sector	RPSCIL	ROSA TPP Ph-I	Steam	1	300.000	2010
	Uttar Pardesh	Private Sector	RPSCIL	ROSA TPP Ph-I	Steam	2	300.000	2010
	Uttar Pardesh	Private Sector	RPSCIL	ROSA TPP Ph-I	Steam	3	300.000	2011
	Uttar Pardesh	Private Sector	RPSCIL	ROSA TPP Ph-I	Steam	4	300.000	2012
35	Uttar Pardesh	Private Sector	LPGCL	LALITPUR TPS	Steam	1	660.000	2016
	Uttar Pardesh	Private Sector	LPGCL	LALITPUR TPS	Steam	2	660.000	2016
	Uttar Pardesh	Private Sector	LPGCL	LALITPUR TPS	Steam	3	660.000	2016
36	Uttar Pardesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	1	660.000	2015
	Uttar Pardesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	2	660.000	2016
	Uttar Pardesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	3	660.000	2017
<b>Total (Uttar Pardesh)</b>							<b>12279.000</b>	
37	Uttarakhand	Private Sector	Gama Infraproj Pvt. Ltd.	GAMA CCP	Steam	1	225.000	2016
38	Uttarakhand	Private Sector	Stravanti Energy Pvt. Ltd.	KASHIPUR CCP	Steam	1	225.000	2016
<b>Total (Uttarakhand)</b>							<b>450.000</b>	
39	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	1	500.000	2010



## LIST OF THERMAL POWER STATIONS AS ON 31.03.2021

## APPENDIX-A

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



## LIST OF THERMAL POWER STATIONS AS ON 31.03.2021

### APPENDIX-A

S.I. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.	
46	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	1	110.000	1988	
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	2	110.000	1989	
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	3	110.000	1990	
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	4	110.000	1998	
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	5	660.000	2019	
	Uttar Pardesh	Central Sector	NTPC	TANDA TPS	Steam	6	660.000	2021	
47	Uttar Pardesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	1	210.000	1988	
	Uttar Pardesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	2	210.000	1989	
	Uttar Pardesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	3	210.000	1999	
	Uttar Pardesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	4	210.000	1999	
	Uttar Pardesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	5	210.000	2006	
	Uttar Pardesh	Central Sector	NTPC	UNCHAHAR TPS	Steam	6	500.000	2017	
48	Uttar Pardesh	Central Sector	MUNPL	MEJA STPP	Steam	1	660.000	2018	
	Uttar Pardesh	Central Sector	MUNPL	MEJA STPP	Steam	2	660.000	2021	
	49	Uttar Pardesh	Central Sector	DADRI CCP	GT-Gas	1	130.190	1992	
		Uttar Pardesh	Central Sector	DADRI CCP	GT-Gas	2	130.190	1992	
		Uttar Pardesh	Central Sector	DADRI CCP	GT-Gas	3	130.190	1992	
		Uttar Pardesh	Central Sector	DADRI CCP	GT-Gas	4	130.190	1992	
		Uttar Pardesh	Central Sector	DADRI CCP	ST-Gas	5	154.510	1994	
		Uttar Pardesh	Central Sector	DADRI CCP	ST-Gas	6	154.510	1994	
50	Uttar Pardesh	Central Sector	NTPC	AURAIYA CCP	GT-Gas	1	111.190	1989	
		Uttar Pardesh	Central Sector	NTPC	AURAIYA CCP	GT-Gas	2	111.190	1989
		Uttar Pardesh	Central Sector	NTPC	AURAIYA CCP	GT-Gas	3	111.190	1989
		Uttar Pardesh	Central Sector	NTPC	AURAIYA CCP	GT-Gas	4	111.190	1989
		Uttar Pardesh	Central Sector	NTPC	AURAIYA CCP	ST-Gas	5	109.300	1989
		Uttar Pardesh	Central Sector	NTPC	AURAIYA CCP	ST-Gas	6	109.300	1990
<b>Total Central Sector (Northern Region)</b>									
<b>Northern Region Total</b>									
<b>2. Western Region</b>									
51	Chhattisgarh	State Sector	CSPGCL	DSPM TPS	Steam	1	250.000	2007	
	Chhattisgarh	State Sector	CSPGCL	DSPM TPS	Steam	2	250.000	2007	
52	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	1	210.000	1984	



## LIST OF THERMAL POWER STATIONS AS ON 31.03.2021

## APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW	MW	
54	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	2	210,000	1983	
55	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	3	210,000	1985	
56	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	4	210,000	1986	
57	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	5	500,000	2013	
58	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	1	500,000	2014	
59	Chhattisgarh	Private Sector	Vardana Energy & Steel Pvt Ltd	KATIGHORA TPP	Steam	2	500,000	2016	
60	Chhattisgarh	Private Sector	Lanco Amarkantak Power Ltd	PATHADI TPP	Steam	1	35,000	2012	
61	Chhattisgarh	Private Sector	Lanco Amarkantak Power Ltd	PATHADI TPP	Steam	2	300,000	2009	
62	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPALLI TPP	Steam	1	300,000	2010	
63	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPALLI TPP	Steam	2	300,000	2011	
64	Chhattisgarh	Private Sector	ACB (India) Ltd	CHAKABURA TPP	Steam	2	135,000	2012	
65	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	1	135,000	2014	
66	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	2	600,000	2014	
67	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	3	600,000	2015	
68	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	4	600,000	2015	
69	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	1	250,000	2007	
70	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	2	250,000	2008	
71	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	3	250,000	2008	
72	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	4	250,000	2008	
73	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIUA TPS	Steam	1	50,000	2013	
74	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIUA TPS	Steam	2	50,000	2016	
75	Chhattisgarh	Private Sector	S V Power Private Limited	SVPL TPP	Steam	1	63,000	2011	
76	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	2	600,000	2018	
77	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	3	600,000	2013	
78	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	4	600,000	2014	
79	Chhattisgarh	Private Sector	Korba West Power Co Ltd	AVANTHA BHANDAR	Steam	1	600,000	2014	
80	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	1	600,000	2014	
81	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	2	600,000	2015	
82	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAIKHEDA TPP	Steam	1	685,000	2015	



## LIST OF THERMAL POWER STATIONS AS ON 31.03.2021

### APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW	MW	
65	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAIKHEDA TPP	Steam	2	685,000	2016	
66	Chhattisgarh	Private Sector	Vandanav Vidyut Ltd	SALORA TPP	Steam	1	135,000	2015	
67	Chhattisgarh	Private Sector	ACB (India) Ltd	SWASTIK KORBA TPP	Steam	1	25,000	2015	
68	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	1	360,000	2015	
69	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	2	360,000	2016	
70	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	3	360,000	2017	
71	Chhattisgarh	Private Sector	Maruti Clean Coal & Power Ltd	BANDAKHAR TPP	Steam	4	360,000	2019	
72	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	1	300,000	2015	
73	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	2	300,000	2016	
74	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	1	300,000	2016	
75	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	2	300,000	2017	
76	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>Total (Chhattisgarh)</b>							<b>16008.000</b>		
77	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	
78	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	3	75,000	1997	
	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	4	75,000	2009	
79	Gujarat	State Sector	GSECL	SIKKA REP.TPS	Steam	3	250,000	2015	
	Gujarat	State Sector	GSECL	SIKKA REP.TPS	Steam	4	250,000	2015	
80	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	
81	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	1	210,000	1982	
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	2	210,000	1983	
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	3	210,000	1984	
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	4	210,000	1986	

**LIST OF THERMAL POWER STATIONS AS ON 31.03.2021****APPENDIX-A**

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

## LIST OF THERMAL POWER STATIONS AS ON 31.03.2021

## APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.
88	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	1	110,000	1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	2	110,000	1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	3	110,000	1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CCPP	GT-Gas	4	185,000	1997
89	Gujarat	Private Sector	Essar Power Gujarat Ltd	SALAYA TPP	Steam	1	600,000	2012
	Gujarat	Private Sector	Essar Power Gujarat Ltd	SALAYA TPP	Steam	2	600,000	2012
90	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	1	330,000	2009
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	2	330,000	2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	3	330,000	2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	4	330,000	2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	5	660,000	2010
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	6	660,000	2011
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	7	660,000	2011
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	8	660,000	2012
	Gujarat	Private Sector	Adani Power Ltd	MUNDRA TPS	Steam	9	660,000	2012
91	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	1	800,000	2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	2	800,000	2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	3	800,000	2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	4	800,000	2013
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTPP	Steam	5	800,000	2013
92	Gujarat	Private Sector	GIPCL	BARODA CCP	GT-Gas	5	106,000	1997
	Gujarat	Private Sector	GIPCL	BARODA CCP	GT-Gas	6	54,000	1997
93	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	1	125,000	2000
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	2	125,000	1999
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	3	125,000	2010
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	4	125,000	2010
94	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCP	GT-Gas	1	135,000	1997
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCP	GT-Gas	2	135,000	1997
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCP	GT-Gas	3	135,000	1998
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CCP	ST-Gas	4	250,000	1998
95	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CCP	GT-Gas	1	400,000	2014
	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CCP	GT-Gas	2	400,000	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	GT-Gas	
<b>Total (Gujarat)</b>									
96	Madhya Pradesh	State Sector	MPPGCL	AMARKANTAK EXT TPS	Steam	3	210,000	2008	
97	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	1	210,000	1993	
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	2	210,000	1994	
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	3	210,000	1999	
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	4	210,000	1999	
	Madhya Pradesh	State Sector	MPPGCL	SANJAY GANDHI TPS	Steam	5	500,000	2007	
98	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	6	200,000	1979	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	7	210,000	1980	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	8	210,000	1983	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	9	210,000	1984	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	10	250,000	2013	
	Madhya Pradesh	State Sector	MPPGCL	SATPURA TPS	Steam	11	250,000	2013	
99	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	1	600,000	2013	
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	2	600,000	2014	
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	3	660,000	2018	
	Madhya Pradesh	State Sector	MPPGCL	SHRI SINGHAJI TPP	Steam	4	660,000	2019	
100	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	1	600,000	2013	
	Madhya Pradesh	Private Sector	Essar Power MP Ltd	MAHAN TPP	Steam	2	600,000	2018	
101	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	BINA TPS	Steam	1	250,000	2012	
	Madhya Pradesh	Private Sector	Jaiprakash Power Venture Ltd	BINA TPS	Steam	2	250,000	2013	
102	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	
103	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTPP	Steam	1	660,000	2013	
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTPP	Steam	2	660,000	2013	
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTPP	Steam	3	660,000	2014	
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTPP	Steam	4	660,000	2014	
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTPP	Steam	5	660,000	2014	
	Madhya Pradesh	Private Sector	Sasan Power Ltd	SASAN UMTPP	Steam	6	660,000	2015	
104	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	

**LIST OF THERMAL POWER STATIONS AS ON 31.03.2021****APPENDIX-A**

<b>Sl. No.</b>	<b>Region/State/UT</b>	<b>Sector</b>	<b>Owner</b>	<b>Name of Project</b>	<b>Prime Mover</b>	<b>Unit No.</b>	<b>Installed Capacity MW</b>	<b>Year of Comm.</b>
105	Madhya Pradesh	Private Sector	MB Power Madhya Pradesh Ltd	ANUPPUR TPP	Steam	1	600,000	2015
	Madhya Pradesh	Private Sector	MB Power Madhya Pradesh Ltd	ANUPPUR TPP	Steam	2	600,000	2016
106	Madhya Pradesh	Private Sector	Jhabua Power Ltd	SEIONI TPP	Steam	1	600,000	2016
<b>Total (Madhya Pradesh)</b>							<b>14270.000</b>	
107	Maharashtra	State Sector	MSPGCL	BHUSAVAL TPS	Steam	3	210,000	1982
	Maharashtra	State Sector	MSPGCL	BHUSAVAL TPS	Steam	4	500,000	2012
	Maharashtra	State Sector	MSPGCL	BHUSAVAL TPS	Steam	5	500,000	2012
108	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	3	210,000	1985
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	4	210,000	1986
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	5	500,000	1991
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	6	500,000	1992
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	7	500,000	1997
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	8	500,000	2015
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	9	500,000	2016
109	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	1	210,000	1989
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	2	210,000	1990
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	3	210,000	2000
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	4	210,000	2001
	Maharashtra	State Sector	MSPGCL	KHAPARKHEDA TPS	Steam	5	500,000	2011
	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
111	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	3	210,000	1979
	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	4	210,000	1980
	Maharashtra	State Sector	MSPGCL	NASIK TPS	Steam	5	210,000	1981
112	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	1	250,000	2007
	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	2	250,000	2010
113	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	6	250,000	2007
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	7	250,000	2010



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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	MM	
114	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	8	250,000	2016	
	Maharashtra	State Sector	MSPGCL	URAN CCP	GT-Gas	5	108,000	1985	
	Maharashtra	State Sector	MSPGCL	URAN CCP	GT-Gas	6	108,000	1985	
	Maharashtra	State Sector	MSPGCL	URAN CCP	GT-Gas	7	108,000	1985	
	Maharashtra	State Sector	MSPGCL	URAN CCP	GT-Gas	8	108,000	1985	
	Maharashtra	State Sector	MSPGCL	URAN CCP	ST-Gas	9	120,000	1994	
	Maharashtra	State Sector	MSPGCL	URAN CCP	ST-Gas	10	120,000	1994	
115	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	1	270,000	2014	
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	2	270,000	2017	
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	3	270,000	2017	
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	4	270,000	2017	
	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	5	270,000	2017	
116	Maharashtra	Private Sector	GMR Energy Ltd	GMR WARORA TPS	Steam	1	300,000	2013	
	Maharashtra	Private Sector	GMR Energy Ltd	GMR WARORA TPS	Steam	2	300,000	2013	
117	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	1	660,000	2012	
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	2	660,000	2013	
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	3	660,000	2013	
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	4	660,000	2014	
	Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	5	660,000	2014	
118	Maharashtra	Private Sector	Gupta Energy Pvt Ltd	GEPL TPP Ph-I	Steam	1	60,000	2012	
	Maharashtra	Private Sector	Gupta Energy Pvt Ltd	GEPL TPP Ph-I	Steam	2	60,000	2012	
119	Maharashtra	Private Sector	Vidarbha Industries Power Ltd	BUTIBORI TPP	Steam	1	300,000	2012	
	Maharashtra	Private Sector	Vidarbha Industries Power Ltd	BUTIBORI TPP	Steam	2	300,000	2014	
120	Maharashtra	Private Sector	Ideal Energy Projects Ltd	BELA TPS	Steam	1	270,000	2013	
121	Maharashtra	Private Sector	Rattan India Power Ltd	AMARAVATI TPS	Steam	1	270,000	2013	
	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	



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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	MW	
122	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	
123	Maharashtra	Private Sector	Abhijeet MADC Nagpur EPL	MIHAN TPS	Steam	1	246,000	2012	
124	Maharashtra	Private Sector	Adani Electricity Mumbai Ltd	DAHANU TPS	Steam	1	250,000	1995	
	Maharashtra	Private Sector	Adani Electricity Mumbai Ltd	DAHANU TPS	Steam	2	250,000	1995	
125	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	1	135,000	2010	
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	2	135,000	2010	
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	3	135,000	2011	
	Maharashtra	Private Sector	Wardha Power Co. Ltd	WARDHA WARORA TPP	Steam	4	135,000	2011	
126	Maharashtra	Private Sector	Dhariwal Infrastructure Pvt Ltd	DHARIWAL TPP	Steam	1	300,000	2013	
	Maharashtra	Private Sector	Dhariwal Infrastructure Pvt Ltd	DHARIWAL TPP	Steam	2	300,000	2014	
127	Maharashtra	Private Sector	Shirpur Power Pvt Ltd	SHIRPUR TPP	Steam	1	150,000	2017	
128	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY TPS	Steam	5	500,000	1984	
	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY TPS	Steam	8	250,000	2009	
129	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY CCPP	GT-Gas	1	120,000	1993	
	Maharashtra	Private Sector	Tata Power Co. Ltd	TROMBAY CCPP	GT-Gas	2	60,000	1994	
130	Maharashtra	Private Sector	Pioneer Gas Power Ltd	MANGAON CCPP	GT-Gas	1	388,000	2016	
<b>Total (Maharashtra)</b>							<b>22566.000</b>		
131	Goa	Private Sector	Reliance Energy Trading (P) Ltd	GOA CCP (Liq)	GT-Gas		48,000	1999	
<b>Total (Goa)</b>							<b>48.000</b>		
132	Chhattisgarh	Central Sector	NTPC	KORBA STPS	Steam	1	200,000	1983	
	Chhattisgarh	Central Sector	NTPC	KORBA STPS	Steam	2	200,000	1983	
	Chhattisgarh	Central Sector	NTPC	KORBA STPS	Steam	3	200,000	1984	
	Chhattisgarh	Central Sector	NTPC	KORBA STPS	Steam	4	500,000	1987	
	Chhattisgarh	Central Sector	NTPC	KORBA STPS	Steam	5	500,000	1988	
	Chhattisgarh	Central Sector	NTPC	KORBA STPS	Steam	6	500,000	1989	
	Chhattisgarh	Central Sector	NTPC	KORBA STPS	Steam	7	500,000	2010	



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### APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW	MW	
133	Chhattisgarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPP	Steam	1	250.000	2008	
	Chhattisgarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPP	Steam	2	250.000	2009	
134	Chhattisgarh	Central Sector	NTPC	SIPAT STPS	Steam	1	660.000	2011	
	Chhattisgarh	Central Sector	NTPC	SIPAT STPS	Steam	2	660.000	2011	
	Chhattisgarh	Central Sector	NTPC	SIPAT STPS	Steam	3	660.000	2012	
	Chhattisgarh	Central Sector	NTPC	SIPAT STPS	Steam	4	500.000	2007	
	Chhattisgarh	Central Sector	NTPC	SIPAT STPS	Steam	5	500.000	2008	
135	Chhattisgarh	Central Sector	NTPC	LARA TPP	Steam	1	800.000	2018	
	Chhattisgarh	Central Sector	NTPC	LARA TPP	Steam	2	800.000	2020	
136	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	1	144.300	1994	
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	2	144.300	1994	
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	3	144.300	1994	
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	4	224.490	1995	
137	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	1	106.000	1992	
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	2	106.000	1992	
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	3	106.000	1992	
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	4	106.000	1992	
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	5	116.100	1993	
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	6	116.100	1993	
138	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	1	210.000	1987	
	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	2	210.000	1988	
	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	3	210.000	1989	
	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	4	210.000	1989	
	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	5	210.000	1990	
	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	6	210.000	1991	
	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	7	500.000	1999	
	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	8	500.000	2000	
	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	9	500.000	2006	
	Madhya Pradesh	Central Sector	NTPC	VINDHYA CHAL STPS	Steam	10	500.000	2007	



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### APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW	MW	
139	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	
	Madhya Pradesh	Central Sector	NTPC	GADARWARA TPP	Steam	1	800,000	2019	
	Madhya Pradesh	Central Sector	NTPC	GADARWARA TPP	Steam	2	800,000	2021	
141	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	1	500,000	2012	
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	2	500,000	2013	
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	3	660,000	2016	
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	4	660,000	2017	
142	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	1	660,000	2017	
	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	2	660,000	2019	
143	Maharashtra	Central Sector	RGPPL	RATNAGIRIICPP	GT-Gas	1	205,000	1998	
	Maharashtra	Central Sector	RGPPL	RATNAGIRIICPP	GT-Gas	2	205,000	1998	
	Maharashtra	Central Sector	RGPPL	RATNAGIRIICPP	ST-Gas	3	230,000	1998	
	Maharashtra	Central Sector	RGPPL	RATNAGIRIICPP	GT-Gas	4	213,000	2006	
	Maharashtra	Central Sector	RGPPL	RATNAGIRIICPP	GT-Gas	5	213,000	2006	
	Maharashtra	Central Sector	RGPPL	RATNAGIRIICPP	ST-Gas	6	237,540	2006	
	Maharashtra	Central Sector	RGPPL	RATNAGIRIICPP	GT-Gas	7	213,000	2007	
	Maharashtra	Central Sector	RGPPL	RATNAGIRIICPP	GT-Gas	8	213,000	2007	
	Maharashtra	Central Sector	RGPPL	RATNAGIRIICPP	ST-Gas	9	237,540	2007	
<b>Total Central Sector (Western Region)</b>							<b>22280.670</b>		
<b>Western Region Total</b>							<b>97502.490</b>		
<b>3. Southern Region</b>									
144	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	1	210,000	1994	
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	2	210,000	1995	
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	3	210,000	2007	
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	4	210,000	2007	



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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	MW	
145	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	5	210,000	2010	
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	6	600,000	2018	
	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	
146	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAAIAH TPS	Steam	1	800,000	2014	
	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAAIAH TPS	Steam	2	800,000	2015	
147	Andhra Pradesh	Private Sector	LVS Power Ltd	L.V.S. Diesel Power Station	Diesel	1	18,400	2001	
	Andhra Pradesh	Private Sector	LVS Power Ltd	L.V.S. Diesel Power Station	Diesel	2	18,400	2001	
	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	
148	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	2012	
	Andhra Pradesh	Private Sector	Minakshi Energy Ltd	THAMMINAPATNAM TPS	Steam	3	150,000	2013	
149	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	
150	Andhra Pradesh	Private Sector	HNPC	VIZAG TPP	Steam	1	520,000	2015	
	Andhra Pradesh	Private Sector	HNPC	VIZAG TPP	Steam	2	520,000	2016	
151	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	KONDAPALLI CCP	GT-Gas	1	118,654	2000	
	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	KONDAPALLI CCP	GT-Gas	1	660,000	2016	
	Andhra Pradesh	Private Sector	Sembcorp Energy India Ltd	KONDAPALLI CCP	GT-Gas	2	121,285	2000	
152	Andhra Pradesh	Private Sector	Lanco Konapalli Power Pvt Ltd	KONDAPALLI CCP	ST-Gas	3	128,205	2000	
	Andhra Pradesh	Private Sector	Lanco Konapalli Power Pvt Ltd	KONDAPALLI CCP	GT-Gas	1	233,000	2009	
153	Andhra Pradesh	Private Sector	Lanco Konapalli Power Pvt Ltd	KONDAPALLI EXTN CCP	GT-Gas	1	233,000	2009	



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### APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW	MW	
155	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	
	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	
158	Andhra Pradesh	Private Sector	Konaseema Gas Power Ltd	KONASEEMA CCPP	GT-Gas	5	60,000	2012	
	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	
159	Andhra Pradesh	Private Sector	Reliance Infrastructure Ltd - A.P	PEDDAPURAM CCPP	GT-Gas	1	142,000	2002	
	Andhra Pradesh	Private Sector	Reliance Infrastructure Ltd - A.P.	PEDDAPURAM CCPP	GT-Gas	2	78,000	2002	
160	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	GT-Gas	1	52,800	1996	
	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	GT-Gas	2	52,800	1996	
	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	GT-Gas	3	52,800	1996	
	Andhra Pradesh	State Sector	APEPDCL	JEGURUPADU PHASE I CCPP	ST-Gas	4	77,000	1997	
161	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	1	140,000	2005	
	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	2	80,000	2005	
162	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	VEMAGIRI CCPP	GT-Gas	1	233,000	2006	
	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	VEMAGIRI CCPP	GT-Gas	2	137,000	2006	
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	GT-Gas	1	47,000	1997	
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	GT-Gas	2	47,000	1997	
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	GT-Gas	3	47,000	1997	
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	ST-Gas	4	67,000	1998	
164	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	1	42,500	2001	



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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	MW	
166	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	
166	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	ST-Gas	5	50,000	2001	
	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GRREL CCPG (Rajahmundry)	GT-Gas	1	384,000	2015	
	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GRREL CCPG (Rajahmundry)	GT-Gas	2	384,000	2015	
<b>Total (Andhra Pradesh)</b>									<b>1452.344</b>
166	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPP (NEW)	Steam	9	250,000	1997	
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPP (NEW)	Steam	10	250,000	1998	
167	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPP (STAGE-I)	Steam	11	500,000	2011	
168	Telangana	State Sector	TSGENCO	KAKATIYA TPP	Steam	12	800,000	2018	
	Telangana	State Sector	TSGENCO	KAKATIYA TPP	Steam	1	500,000	2010	
169	Telangana	State Sector	TSGENCO	RAMAGUNDLEM - B TPP	Steam	2	600,000	2015	
170	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	1	62,500	1971	
	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	1	600,000	2016	
171	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	1	270,000	2020	
	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	2	270,000	2020	
	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	3	270,000	2021	
<b>Total (Telangana)</b>									<b>4972.500</b>
172	Karnataka	State Sector	KPCL	RAICHUR TPP	Steam	1	210,000	1985	
	Karnataka	State Sector	KPCL	RAICHUR TPP	Steam	2	210,000	1986	
	Karnataka	State Sector	KPCL	RAICHUR TPP	Steam	3	210,000	1991	
	Karnataka	State Sector	KPCL	RAICHUR TPP	Steam	4	210,000	1994	
	Karnataka	State Sector	KPCL	RAICHUR TPP	Steam	5	210,000	1999	
	Karnataka	State Sector	KPCL	RAICHUR TPP	Steam	6	210,000	1999	
	Karnataka	State Sector	KPCL	RAICHUR TPP	Steam	7	210,000	2002	
	Karnataka	State Sector	KPCL	RAICHUR TPP	Steam	8	250,000	2010	
173	Karnataka	State Sector	KPCL	BELLARY TPP	Steam	1	500,000	2007	



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## APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW	MM	
174	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	2	500,000	2012	
175	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	3	700,000	2016	
176	Karnataka	State Sector	Raichur Power Corp. Ltd	YERMARUS TPP	Steam	1	800,000	2016	
177	Karnataka	Private Sector	Raichur Power Corp. Ltd	YERMARUS TPP	Steam	2	800,000	2017	
178	Karnataka	Private Sector	Shri Rayalseema pvt Ltd	BELLARY DG	Diesel	1	25,200	2000	
	<b>Total (Karnataka)</b>		<b>TJSW Energy Ltd</b>		<b>TORANGALLU TPS(SBU-I)</b>		<b>130,000</b>		1999
179	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	1	130,000	1999	
180	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	4	21,320	1997	
181	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	5	21,320	1997	
	<b>Total (Kerala)</b>		<b>KOZHIKODE DG</b>		<b>Diesel</b>		<b>16,000</b>		1999
182	Puducherry	State Sector	PPCL	KARAikal CCP	GT-Gas	1	45,000	1999	
183	Tamil Nadu	State Sector	TANGEDCO	MEITTUR TPS	Steam	1	32,500	1999	
	<b>Total (Puducherry)</b>		<b>32.500</b>		<b>32.500</b>		<b>333.960</b>		1987



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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	MW	
184	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	2	210,000	1987	
185	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	3	210,000	1989	
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	4	210,000	1990	
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS-II	Steam	1	60,000	2012	
	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	60,000	2013	
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	5	60,000	2013	
	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 CCP	GT-Gas	1	63,000	2003	
	Tamil Nadu	State Sector	TANGEDCO	KUTTALAM CCP	GT-Gas	2	37,000	2004	
	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	
	Tamil Nadu	State Sector	TANGEDCO	KOVIKALPAL CCP	GT-Gas	1	69,650	2001	
	Tamil Nadu	State Sector	TANGEDCO	KOVIKALPAL CCP	GT-Gas	2	38,230	2001	
	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	
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCP	GT-Gas	1	60,000	2002	
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCP	GT-Gas	2	59,800	2008	
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCP	GT-Gas	3	34,000	2003	
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCP	GT-Gas	4	32,400	2009	
192	Tamil Nadu	Private Sector	Madurai Power Corp. Pvt Ltd	SAMAYANALLUR DG	Diesel	1	106,001	2001	



## LIST OF THERMAL POWER STATIONS AS ON 31.03.2021

### APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW	MW	
193	Tamil Nadu	Private Sector	Samalpatti Power Co. Pvt Ltd	SAMALPATTI DG	Diesel	1	105,700	2000	
194	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	1	150,000	2013	
	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	2	150,000	2013	
195	Tamil Nadu	Private Sector	ST-CMS Electric Co. Pvt Ltd	NEYVELI TPS(Z)	Steam	1	250,000	2002	
196	Tamil Nadu	Private Sector	Coastal Energen Pvt Ltd	MUTHIARA TPP	Steam	1	600,000	2015	
	Tamil Nadu	Private Sector	Coastal Energen Pvt Ltd	MUTHIARA TPP	Steam	2	600,000	2016	
197	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPCL TPP	Steam	1	600,000	2015	
	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPOL 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	ST-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	



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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	MW	
204	Kerala	Central Sector	NTPC	R. GANDHI CCP (Liq.)	GT-Gas	1	115,200	1998	
	Kerala	Central Sector	NTPC	R. GANDHI CCP (Liq.)	GT-Gas	2	115,200	1999	
	Kerala	Central Sector	NTPC	R. GANDHI CCP (Liq.)	ST-Gas	3	129,180	1999	
205	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	1	210,000	1988	
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	2	210,000	1987	
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	3	210,000	1986	
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	4	210,000	1991	
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	5	210,000	1991	
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	6	210,000	1992	
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS- II	Steam	7	210,000	1993	
206	Tamil Nadu	Central Sector	NLC	NEYVELI TPS-II EXP	Steam	1	25,00,000	2012	
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS-II EXP	Steam	2	25,00,000	2015	
207	Tamil Nadu	Central Sector	NLC	NEYVELI (EXT) TPP	Steam	1	210,000	2002	
	Tamil Nadu	Central Sector	NLC	NEYVELI (EXT) TPP	Steam	2	210,000	2003	
208	Tamil Nadu	Central Sector	NLC	NEYVELI NEW TPP	Steam	1	50,00,000	2019	
	Tamil Nadu	Central Sector	NLC	NEYVELI NEW TPP	Steam	2	50,00,000	2021	
209	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	1	50,00,000	2012	
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	2	50,00,000	2013	
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	3	50,00,000	2014	
210	Tamil Nadu	Central Sector	NTPL	TUTICORIN (JV) TPP	Steam	1	50,00,000	2015	
	Tamil Nadu	Central Sector	NTPL	TUTICORIN (JV) TPP	Steam	2	50,00,000	2015	
<b>Total Central Sector (Southern Region)</b>							<b>13249.580</b>	<b>48727.965</b>	
<b>Southern Region Total</b>									
<b>4. Eastern Region</b>		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>	
211	A & N Islands	State Sector	A&D Island Electricity Deptt.	AND. NICOBAR DG	Diesel	1		40,048	2000
212	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	
213	Jharkhand	Private Sector	Tata Power Co. Ltd	JOBOBERA TPS	Steam	2	120,000	2001	



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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.
214	Jharkhand	Private Sector	Tata Power Co. Ltd	JOJOBERA TPS	Steam	3	120,000	2002
	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
215	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>Total (Jharkhand)</b>						<b>2250.000</b>	
216	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
217	Odisha	Private Sector	Sterlite Energy Ltd	STERLITE TPP	Steam	1	600,000	2010
	Odisha	Private Sector	Sterlite Energy Ltd	STERLITE TPP	Steam	2	600,000	2010
218	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
219	Odisha	Private Sector	JITPL	DERANG TPP	Steam	1	600,000	2014
	Odisha	Private Sector	JITPL	DERANG TPP	Steam	2	600,000	2015
220	Odisha	Private Sector	IBPIL	UTKAL TPP (IND BARATH)	Steam	1	350,000	2016
	<b>Total (Odisha)</b>						<b>5540.000</b>	
221	West Bengal	State Sector	DPL	DPL TPS	Steam	7	300,000	2007
	West Bengal	State Sector	DPL	DPL TPS	Steam	8	250,000	2014
222	West Bengal	State Sector	WBPDC	BAKRESWAR TFS	Steam	1	210,000	1999
	West Bengal	State Sector	WBPDC	BAKRESWAR TFS	Steam	2	210,000	2000
	West Bengal	State Sector	WBPDC	BAKRESWAR TFS	Steam	3	210,000	2001
	West Bengal	State Sector	WBPDC	BAKRESWAR TFS	Steam	4	210,000	2007
	West Bengal	State Sector	WBPDC	BAKRESWAR TFS	Steam	5	210,000	2009
223	West Bengal	State Sector	WBPDC	BANDEL TPS	Steam	1	60,000	1965



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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.
							MW	MW	
West Bengal	State Sector	WBPDC	BANDEL	BANDEL TPS	Steam	2	60,000	1965	
West Bengal	State Sector	WBPDC	BANDEL	BANDEL TPS	Steam	5	210,000	1982	
224	West Bengal	State Sector	WBPDC	KOLAGHAT TPS	Steam	1	210,000	1990	
West Bengal	State Sector	WBPDC		KOLAGHAT TPS	Steam	2	210,000	1985	
West Bengal	State Sector	WBPDC		KOLAGHAT TPS	Steam	3	210,000	1984	
West Bengal	State Sector	WBPDC		KOLAGHAT TPS	Steam	4	210,000	1993	
West Bengal	State Sector	WBPDC		KOLAGHAT TPS	Steam	5	210,000	1991	
West Bengal	State Sector	WBPDC		KOLAGHAT TPS	Steam	6	210,000	1993	
225	West Bengal	State Sector	WBPDC	SANTALDIH TPS	Steam	5	250,000	2007	
West Bengal	State Sector	WBPDC		SANTALDIH TPS	Steam	6	250,000	2011	
226	West Bengal	State Sector	WBPDC	SAGARDIGHI TFS	Steam	1	300,000	2007	
West Bengal	State Sector	WBPDC		SAGARDIGHI TFS	Steam	2	300,000	2008	
West Bengal	State Sector	WBPDC		SAGARDIGHI TFS	Steam	3	500,000	2015	
West Bengal	State Sector	WBPDC		SAGARDIGHI TFS	Steam	4	500,000	2016	
227	West Bengal	State Sector	WBPDC	HALDIA GT (Liq.)	GT-Gas	1	20,000	1979	
West Bengal	State Sector	WBPDC		HALDIA GT (Liq.)	GT-Gas	2	20,000	1979	
228	West Bengal	State Sector	WBPDC	KASBA GT (Liq.)	GT-Gas	1	20,000	1979	
West Bengal	State Sector	WBPDC		KASBA GT (Liq.)	GT-Gas	2	20,000	1979	
229	West Bengal	State Sector	WBPDC	SILIGURI GPS	GT-Gas	1	20,000	1980	
230	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	
231	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	
232	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	
233	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	1	300,000	2015	



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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.
236	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	2	300,000	2015
234	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	1	150,000	2017
235	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	2	150,000	2017
			DPSCLTD	DISHERGARH TPP	Steam	1	12,000	2019
<b>Total (West Bengal)</b>							<b>7427.000</b>	
236	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
237	Bihar	Central Sector	NTPC	KAHALGAON TFS	Steam	1	210,000	1992
	Bihar	Central Sector	NTPC	KAHALGAON TFS	Steam	2	210,000	1994
	Bihar	Central Sector	NTPC	KAHALGAON TFS	Steam	3	210,000	1995
	Bihar	Central Sector	NTPC	KAHALGAON TFS	Steam	4	210,000	1996
	Bihar	Central Sector	NTPC	KAHALGAON TFS	Steam	5	50,000	2007
	Bihar	Central Sector	NTPC	KAHALGAON TFS	Steam	6	50,000	2008
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	7	50,000	2009
238	Bihar	Central Sector	NTPC	BARI II STPP	Steam	4	66,000	2013
	Bihar	Central Sector	NTPC	BARI II STPP	Steam	5	66,000	2015
239	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
240	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
241	Bihar	Central Sector	NPGCL	NABINAGAR STPP	Steam	1	66,000	2019
	Bihar	Central Sector	NPGCL	NABINAGAR STPP	Steam	2	66,000	2021
242	Jharkhand	Central Sector	DVC	BOKARO 'B' TPS	Steam	3	210,000	1993
243	Jharkhand	Central Sector	DVC	KODARMA TPP	Steam	1	500,000	2011

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<b>Sl. No.</b>	<b>Region/State/UT</b>	<b>Sector</b>	<b>Owner</b>	<b>Name of Project</b>	<b>Prime Mover</b>	<b>Unit No.</b>	<b>Installed Capacity MW</b>	<b>Year of Comm.</b>
244	Jharkhand	Central Sector	DVC	KODARMA TPP CHANDRAPURA(DVC)	Steam Steam	2 7	500,000 250,000	2013 2009
	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	8	250,000	2010
245	Jharkhand	Central Sector	DVC	BOKARO 'A' TPS	Steam	1	500,000	2016
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	1	500,000	1995
246	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	2	500,000	1996
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	3	500,000	2003
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	4	500,000	2003
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	5	500,000	2004
	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	6	500,000	2005
247	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
248	Odisha	Central Sector	NTPC	DARLIPALI STPS	Steam	1	800,000	2019
249	West Bengal	Central Sector	DVC	DURGAPUR TPS	Steam	4	210,000	1982
250	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	1	50,000	2011
	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	2	500,000	2012
251	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



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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	MW	
252	West Bengal	Central Sector	DVC	RAGHUNATHPUR TPP	Steam	1	600,000	2014	
	West Bengal	Central Sector	DVC	RAGHUNATHPUR TPP	Steam	2	600,000	2016	
253	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	1	200,000	1986	
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	2	200,000	1986	
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	3	200,000	1987	
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	4	500,000	1992	
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	5	500,000	1994	
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	6	500,000	2011	
	Total (DVC)						6960,000		
	<b>Total (NTPC &amp; NTPCs Joint Ventures)</b>						<b>13410.000</b>		
	<b>Total Central Sector (Eastern Region)</b>						<b>20370.000</b>		
	<b>Eastern Region Total</b>						<b>35627.048</b>		
	<b>5. North Eastern Region</b>								
254	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	5	20,000	1994	
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	6	20,000	1994	
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	7	20,000	1995	
	Assam	State Sector	APGCL	LAKWA GT	GT-Gas	8	37,200	2012	
255	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	2	21,000	1965	
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	3	21,000	1965	
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	6	22,000	1985	
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	7	62,250	2017	
	Assam	State Sector	APGCL	NAMRUP CCPP	GT-Gas	8	36,150	2020	
256	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	1	9,965	2018	
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	2	9,965	2018	
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	3	9,965	2018	
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	4	9,965	2018	



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### APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Commn.
							MW	MW	
Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	5		9,965	9,965	2018
Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	6		9,965	9,965	2018
Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	7		9,965	9,965	2018
257	Assam	Private Sector	DLF Power Supply Co. Ltd	Adamtila CCP	GT-Gas	1		3,000	1997
Assam	Private Sector	DLF Power Supply Co. Ltd	Adamtila CCP	GT-Gas	2		3,000	3,000	1997
Assam	Private Sector	DLF Power Supply Co. Ltd	Adamtila CCP	GT-Gas	3		3,000	3,000	1998
258	Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCP	GT-Gas	1		3,500	1997
Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCP	GT-Gas	2		3,500	3,500	1997
Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCP	GT-Gas	3		3,500	3,500	1997
Assam	Private Sector	DLF Power Supply Co. Ltd	Baskhandi CCP	GT-Gas	4		5,000	5,000	1998
<b>Total (Assam)</b>							<b>353.855</b>		
259	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	6,000	2002
Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	3		6,000	6,000	2002
Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	4		6,000	6,000	2002
Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	5		6,000	6,000	2002
Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	6		6,000	6,000	2002
<b>Total (Manipur)</b>							<b>36.000</b>		
260	Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	4		21,000	2002
Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	5		21,000	21,000	2010
261	Tripura	State Sector	TSECL	ROKHA GT	GT-Gas	3		8,000	1995
Tripura	State Sector	TSECL	ROKHA GT	GT-Gas	4		8,000	8,000	1995
Tripura	State Sector	TSECL	ROKHA GT	GT-Gas	5		8,000	8,000	1997
Tripura	State Sector	TSECL	ROKHA GT	GT-Gas	6		8,000	8,000	1997
Tripura	State Sector	TSECL	ROKHA GT	GT-Gas	7		21,000	21,000	2002

**LIST OF THERMAL POWER STATIONS AS ON 31.03.2021****APPENDIX-A**

<b>Sl. No.</b>	<b>Region/State/UT</b>	<b>Sector</b>	<b>Owner</b>	<b>Name of Project</b>	<b>Prime Mover</b>	<b>Unit No.</b>	<b>Installed Capacity MW</b>	<b>Year of Comm.</b>
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>137.000</b>	
262	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
263	Assam	Central Sector	NEEPCO	KATHALGURI CCP	GT-Gas	1	33,500	1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCP	GT-Gas	2	33,500	1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCP	GT-Gas	3	33,500	1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCP	GT-Gas	4	33,500	1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCP	GT-Gas	5	33,500	1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCP	GT-Gas	6	33,500	1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCP	GT-Gas	7	30,000	1998
	Assam	Central Sector	NEEPCO	KATHALGURI CCP	GT-Gas	8	30,000	1998
	Assam	Central Sector	NEEPCO	KATHALGURI CCP	GT-Gas	9	30,000	1998
264	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
265	Tripura	Central Sector	NEEPCO	MONARCHAK CCP	GT-Gas	1	65,400	2015
	Tripura	Central Sector	NEEPCO	MONARCHAK CCP	GT-Gas	3	35,600	2016
266	Tripura	Central Sector	ONGC	TRIPURA CCP	GT-Gas	1	363,300	2013
	Tripura	Central Sector	ONGC	TRIPURA CCP	GT-Gas	2	363,300	2014
							<b>2003.600</b>	
							<b>2530.455</b>	
							<b>234728.218</b>	

## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

## 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	GIRIBATA HPS	1	30.00	1978
	Himachal Pradesh	State Sector	HPSEB	GIRIBATA HPS	2	30.00	1978
3	Himachal Pradesh	State Sector	HPSEB	LARJI HPS	1	42.00	2006
	Himachal Pradesh	State Sector	HPSEB	LARJI HPS	2	42.00	2006
	Himachal Pradesh	State Sector	HPSEB	LARJI HPS	3	42.00	2006
4	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	1	40.00	1989
	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	2	40.00	1989
	Himachal Pradesh	State Sector	HPSEB	SANJAY HPS	3	40.00	1989
5	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	1	65.00	2016
	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	2	65.00	2016
	Himachal Pradesh	State Sector	HPPCL	KASHANG INTEGRATED HEP	3	65.00	2017
6	Himachal Pradesh	State Sector	HPPCL	SAINU HPS	1	50.00	2017
	Himachal Pradesh	State Sector	HPPCL	SAINU HPS	2	50.00	2017
7	Himachal Pradesh	State Sector	HPPCL	SAWRA KUDDU HPS	1	37.00	2020
	Himachal Pradesh	State Sector	HPPCL	SAWRA KUDDU HPS	2	37.00	2020
	Himachal Pradesh	State Sector	HPPCL	SAWRA KUDDU HPS	3	37.00	2020
8	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	1	15.00	1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	2	15.00	1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	3	15.00	1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	4	15.00	1932
	Himachal Pradesh	State Sector	PSPCL	SHANAN HPS	5	50.00	1982
9	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	1	250.00	2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	2	250.00	2011



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	3		250.00	2011
	Himachal Pradesh	Private Sector	JKHCL	KARCHAM WANGTOO HPS	4		250.00	2011
10	Himachal Pradesh	Private Sector	EPPL	MALANA-II HPS	1		50.00	2011
	Himachal Pradesh	Private Sector	EPPL	MALANA-I HPS	2		50.00	2011
11	Himachal Pradesh	Private Sector	ADHPL	ALLAIN DUHANGAN HPS	1		96.00	2010
	Himachal Pradesh	Private Sector	ADHPL	ALLAIN DUHANGAN HPS	2		96.00	2010
12	Himachal Pradesh	Private Sector	HBPCCL	BASPA HPS	1		100.00	2003
	Himachal Pradesh	Private Sector	HBPCCL	BASPA HPS	2		100.00	2003
	Himachal Pradesh	Private Sector	HBPCCL	BASPA HPS	3		100.00	2003
13	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	1		43.00	2001
	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	2		43.00	2001
14	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	1		35.00	2012
	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	2		35.00	2012
15	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	1		12.00	2017
	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	2		12.00	2017
	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	3		12.00	2017
<b>Total (Himachal Pradesh)</b>							<b>2672.00</b>	
16	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
17	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
18	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
19	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

**LIST OF HYDRO POWER STATIONS AS ON 31.03.2021****APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	1110.00	
<b>Total (Jammu &amp; Kashmir)</b>								
20	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	1		33.50	1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	2		33.50	1985
21	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	3		33.50	1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	4		33.50	1985
22	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	1		15.00	1983
	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	2		15.00	1983
	Punjab	State Sector	PSPCL	MUKERIAN-I HPS	3		15.00	1983
23	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
24	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
25	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
26	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>	
27	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
28	Rajasthan	State Sector	RRVUNL	RP SAGAR HPS	1		43.00	1968
	Rajasthan	State Sector	RRVUNL	RP SAGAR HPS	2		43.00	1968
	Rajasthan	State Sector	RRVUNL	RP SAGAR HPS	3		43.00	1968
	Rajasthan	State Sector	RRVUNL	RP SAGAR HPS	4		43.00	1968



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Commn.
						MW	MW	
29	Rajasthan	State Sector	RRVUNL	MAHI BAJA-I HPS	1		25.00	1986
	Rajasthan	State Sector	RRVUNL	MAHI BAJA-I HPS	2		25.00	1986
30	Rajasthan	State Sector	RRVUNL	MAHI BAJA-II HPS	3		45.00	1989
	Rajasthan	State Sector	RRVUNL	MAHI BAJA-II HPS	4		45.00	1989
<b>Total (Rajasthan)</b>						<b>411.00</b>		
31	Uttar Pardesh	State Sector	UPJVNL	KHARA HPS	1		24.00	1992
	Uttar Pardesh	State Sector	UPJVNL	KHARA HPS	2		24.00	1992
	Uttar Pardesh	State Sector	UPJVNL	KHARA HPS	3		24.00	1992
32	Uttar Pardesh	State Sector	UPJVNL	MATATILA HPS	1		10.20	1965
	Uttar Pardesh	State Sector	UPJVNL	MATATILA HPS	2		10.20	1965
	Uttar Pardesh	State Sector	UPJVNL	MATATILA HPS	3		10.20	1965
33	Uttar Pardesh	State Sector	UPJVNL	OBRA HPS	1		33.00	1970
	Uttar Pardesh	State Sector	UPJVNL	OBRA HPS	2		33.00	1970
	Uttar Pardesh	State Sector	UPJVNL	OBRA HPS	3		33.00	1971
34	Uttar Pardesh	State Sector	UPJVNL	RIHAND HPS	1		50.00	1961
	Uttar Pardesh	State Sector	UPJVNL	RIHAND HPS	2		50.00	1961
	Uttar Pardesh	State Sector	UPJVNL	RIHAND HPS	3		50.00	1961
	Uttar Pardesh	State Sector	UPJVNL	RIHAND HPS	4		50.00	1961
	Uttar Pardesh	State Sector	UPJVNL	RIHAND HPS	5		50.00	1961
	Uttar Pardesh	State Sector	UPJVNL	RIHAND HPS	6		50.00	1965
<b>Total (Uttar Pardesh)</b>						<b>501.60</b>		
35	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
36	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
37	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	1		17.00	1965
	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	2		17.00	1966

## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

## APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity MW	Year of Comm.
29	Rajasthan	State Sector	RRVNL	MAHI BAJAJ-I HPS	1	25.00	1986
	Rajasthan	State Sector	RRVNL	MAHI BAJAJ-II HPS	2	25.00	1986
30	Rajasthan	State Sector	RRVNL	MAHI BAJAJ-II HPS	3	45.00	1989
	Rajasthan	State Sector	RRVNL	MAHI BAJAJ-II HPS	4	45.00	1989
<b>Total (Rajasthan)</b>						<b>411.00</b>	
31	Uttar Pradesh	State Sector	UPJVNL	KHARA HPS	1	24.00	1992
	Uttar Pradesh	State Sector	UPJVNL	KHARA HPS	2	24.00	1992
	Uttar Pradesh	State Sector	UPJVNL	KHARA HPS	3	24.00	1992
32	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	1	10.20	1965
	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	2	10.20	1965
	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	3	10.20	1965
33	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	1	33.00	1970
	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	2	33.00	1970
	Uttar Pradesh	State Sector	UPJVNL	OBRA HPS	3	33.00	1971
34	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>	
35	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
36	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
37	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	1	17.00	1965

## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

## APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity MW	Year of Comm.	
	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	2	17.00	1966	
	Uttarakhand	State Sector	UJVNL	DHALIPUR HPS	3	17.00	1970	
38	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	
39	Uttarakhand	State Sector	UJVNL	KHODRI HPS	1	30.00	1984	
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	2	30.00	1984	
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	3	30.00	1984	
	Uttarakhand	State Sector	UJVNL	KHODRI HPS	4	30.00	1984	
40	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	
41	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	
	42	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	
43	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	
44	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	JPPVL	CHILLA HPS	4	36.00	1981	
45	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	



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

## APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	4		100.00	2006
46	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
47	Uttarakhand	Private Sector	L&T UHL	SINGOLI BHATWARI HPS	1		33.00	2020
	Uttarakhand	Private Sector	L&T UHL	SINGOLI BHATWARI HPS	2		33.00	2020
	Uttarakhand	Private Sector	L&T UHL	SINGOLI BHATWARI HPS	3		33.00	2020
	<b>Total (Uttarakhand)</b>						<b>2081.15</b>	
48	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
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	4		126.00	1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	5		126.00	1961
49	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
50	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
51	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

**LIST OF HYDRO POWER STATIONS AS ON 31.03.2021****APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
	Himachal Pradesh	State Sector	BBMB	PONG HPS	5		66.00	1982
	Himachal Pradesh	State Sector	BBMB	PONG HPS	6		66.00	1983
52	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	1		60.00	1980
	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	2		60.00	1980
	Himachal Pradesh	Central Sector	NHPC	BAIRA SIUL HPS	3		60.00	1981
53	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
54	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
55	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	1		77.00	2012
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	2		77.00	2012
	Himachal Pradesh	Central Sector	NHPC	CHAMERA-III HPS	3		77.00	2012
56	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	1		250.00	2004
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	2		250.00	2003
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	3		250.00	2003
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	4		250.00	2004
	Himachal Pradesh	Central Sector	SJVNL	NATHPA JHAKRI HPS	5		250.00	2004
	Himachal Pradesh	Central Sector	NHPC	NATHPA JHAKRI HPS	6		250.00	2004
57	Himachal Pradesh	Central Sector	NHPC	PARBATI-II HPS	1		130.00	2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-II HPS	2		130.00	2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-II HPS	3		130.00	2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-II HPS	4		130.00	2014
58	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	1		68.67	2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	2		68.67	2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	3		68.67	2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	4		68.67	2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	5		68.67	2014



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	6	68.67	2014	
59	Himachal Pradesh	Central Sector	NTPC	KOLDAM	1	200.00	2015	
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	2	200.00	2015	
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	3	200.00	2015	
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	4	200.00	2015	
60	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	
61	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	
62	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	1	115.00	1987	
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	2	115.00	1987	
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	3	115.00	1987	
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	4	115.00	1993	
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	5	115.00	1994	
	Jammu & Kashmir	Central Sector	NHPC	SALAL HPS	6	115.00	1995	
63	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	
64	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	
65	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	
66	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	1	60.00	2013	



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity MW	Year of Comm.
	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
67	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
68	Punjab	State Sector	BBMB	GANGUWAL HPS	1	24.20	1962
	Punjab	State Sector	BBMB	GANGUWAL HPS	2	24.20	1965
	Punjab	State Sector	BBMB	GANGUWAL HPS	3	29.25	1955
69	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
70	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	1	70.00	2005
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	2	70.00	2005
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	3	70.00	2005
	Uttarakhand	Central Sector	NHPC	DHAULI GANGA HPS	4	70.00	2005
71	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
72	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
73	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>19233.27</b>	



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
<b>2. Western Region</b>								
74	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>		
75	Gujarat	State Sector	SSNNL	S SAROVAR CPHH HPS	1	50.00	2004	
	Gujarat	State Sector	SSNNL	S SAROVAR CPHH HPS	2	50.00	2004	
	Gujarat	State Sector	SSNNL	S SAROVAR CPHH HPS	3	50.00	2004	
	Gujarat	State Sector	SSNNL	S SAROVAR CPHH HPS	4	50.00	2004	
	Gujarat	State Sector	SSNNL	S SAROVAR CPHH HPS	5	50.00	2004	
76	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	
77	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	
78	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>		
79	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	

**LIST OF HYDRO POWER STATIONS AS ON 31.03.2021****APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
80	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	
81	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	1	15.00	2002	
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	2	15.00	2002	
82	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	
83	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	1	45.00	1988	
	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	2	45.00	1988	
84	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	
85	Madhya Pradesh	State Sector	MPPGCL	RAJGHAT HPS	1	15.00	1999	
	Madhya Pradesh	State Sector	MPPGCL	RAJGHAT HPS	2	15.00	1999	
	Madhya Pradesh	State Sector	MPPGCL	RAJGHAT HPS	3	15.00	1999	
<b>Total (Madhya Pradesh)</b>						<b>715.00</b>		
86	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	1	80.00	1986	
	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	2	80.00	1987	
87	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	1	40.00	1988	
	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	2	40.00	1987	
88	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	1	18.00	1980	
	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	2	18.00	1981	
89	Maharashtra	State Sector	MAHAGENCO	KOYNA -& II HPS	1	70.00	1962	
	Maharashtra	State Sector	MAHAGENCO	KOYNA -& 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	



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity MW	Year of Comm.
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	8	80.00	1966
90	Maharashtra	State Sector	MAHAGENCO	KOYNA-II HPS	1	80.00	1975
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	2	80.00	1976
	Maharashtra	State Sector	MAHAGENCO	KOYNA-II HPS	3	80.00	1977
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	4	80.00	1978
91	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
92	Maharashtra	State Sector	MAHAGENCO	TILLARI HPS	1	60.00	1986
93	Maharashtra	State Sector	MAHAGENCO	VATIARNA HPS	1	60.00	1976
94	Maharashtra	State Sector	MAHAGENCO	GHAIGHAR PSS HPS	1	125.00	2008
	Maharashtra	State Sector	MAHAGENCO	GHAIGHAR PSS HPS	2	125.00	2008
95	Maharashtra	State Sector	DLHP	BHANDARDHARA HPS ST-II	1	34.00	1996
96	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA PSS HPS	1	150.00	1995
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	1	25.00	1927
97	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	2	25.00	1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	3	25.00	1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	4	25.00	1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	5	25.00	1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	6	25.00	1949
98	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
99	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



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
	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>	
100	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
101	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	1		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	2		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	3		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	4		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	5		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	6		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	7		125.00	2004
	Madhya Pradesh	Central Sector	NHDC	INDIRA SAGAR HPS	8		125.00	2005
<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>								
102	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR RBC HPS	1		30.00	1983
	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR RBC HPS	2		30.00	1990
	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR RBC HPS	3		30.00	1983
103	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	1		110.00	1982
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	2		110.00	1982
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	3		110.00	1983



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW		
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	4	110.00	1984	
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	5	110.00	1986	
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	6	110.00	1986	
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	7	110.00	1987	
104	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	
105	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR TPD	1	25.00	2017	
	Andhra Pradesh	State Sector	APGENCO	NAGARJUN SGR TPD	2	25.00	2017	
<b>Total (Andhra Pradesh)</b>						<b>1150.00</b>		
106	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	
107	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	1	110.00	1978	
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	2	100.80	1980	
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	3	100.80	1981	
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	4	100.80	1982	
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	5	100.80	1983	
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	6	100.80	1984	
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	7	100.80	1985	
	Telangana	State Sector	TSGENCO	NAGARJUN SGR HPS	8	100.80	1985	
108	Telangana	State Sector	TSGENCO	NAGARJUN SGR LBC HPS	1	30.00	1983	
	Telangana	State Sector	TSGENCO	NAGARJUN SGR LBC HPS	2	30.00	1983	
109	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	
110	Telangana	State Sector	TSGENCO	PRIVADARSHNI JURALA HPS	1	39.00	2008	

**LIST OF HYDRO POWER STATIONS AS ON 31.03.2021****APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
	Telangana	State Sector	TSGENCO	PRIYadarshni Jurala HPS	2		39.00	2008
	Telangana	State Sector	TSGENCO	PRIYadarshni Jurala HPS	3		39.00	2009
	Telangana	State Sector	TSGENCO	PRIYadarshni Jurala HPS	4		39.00	2010
	Telangana	State Sector	TSGENCO	PRIYadarshni Jurala HPS	5		39.00	2010
	Telangana	State Sector	TSGENCO	PRIYadarshni Jurala HPS	6		39.00	2011
111	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
112	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
113	Telangana	State Sector	TSGENCO	Pulichintala HPS	1		30.00	2016
	Telangana	State Sector	TSGENCO	Pulichintala HPS	2		30.00	2017
	Telangana	State Sector	TSGENCO	Pulichintala HPS	3		30.00	2017
	Telangana	State Sector	TSGENCO	Pulichintala HPS	4		30.00	2018
<b>Total (Telangana)</b>							<b>2865.60</b>	
114	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



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
116	Karnataka	State Sector	KPCL	MUNIRABAD HPS	2		9.00	1962
	Karnataka	State Sector	KPCL	MUNIRABAD HPS	3		10.00	1965
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	1		3.00	1922
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	2		3.00	1924
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	3		3.00	1924
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	4		3.00	1925
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	5		3.00	1923
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	6		3.00	1924
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	7		6.00	1928
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	8		6.00	1934
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	9		6.00	1928
	Karnataka	State Sector	KPCL	SIVASAMUNDRAU HPS	10		6.00	1928
117	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
118	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	1		16.00	1992
	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	2		16.00	1992
119	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
120	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



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
121	Karnataka	State Sector	KPCL	KODASALI HPS	1	40.00	40.00	1998
	Karnataka	State Sector	KPCL	KODASALI HPS	2	40.00	40.00	1999
	Karnataka	State Sector	KPCL	KODASALI HPS	3	40.00	40.00	1999
122	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	1	27.50	27.50	1979
	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	2	27.50	27.50	1980
123	Karnataka	State Sector	KPCL	SHARAVATHI HPS	1	103.50	103.50	1965
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	2	103.50	103.50	1965
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	3	103.50	103.50	1967
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	4	103.50	103.50	1967
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	5	103.50	103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	6	103.50	103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	7	103.50	103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	8	103.50	103.50	1971
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	9	103.50	103.50	1976
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	10	103.50	103.50	1977
124	Karnataka	State Sector	KPCL	GERUSUPPA HPS	1	60.00	60.00	2001
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	2	60.00	60.00	2001
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	3	60.00	60.00	2001
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	4	60.00	60.00	2002
125	Karnataka	State Sector	KPCL	BHADRA HPS	1	2.00	2.00	1962
	Karnataka	State Sector	KPCL	BHADRA HPS	2	12.00	12.00	1963
	Karnataka	State Sector	KPCL	BHADRA HPS	3	12.00	12.00	1963
	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	1	50.00	50.00	1985
	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	2	50.00	50.00	1985
	Karnataka	State Sector	KPCL	VARAHI HPS	1	115.00	115.00	1989
	Karnataka	State Sector	KPCL	VARAHI HPS	2	115.00	115.00	1990
	Karnataka	State Sector	KPCL	VARAHI HPS	3	115.00	115.00	2009
	Karnataka	State Sector	KPCL	VARAHI HPS	4	115.00	115.00	2009
128	Karnataka	State Sector	APGENCO	T B DAM HPS	1	9.00	9.00	1957



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

### APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MM	
	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
129	Karnataka	State Sector	APGENCO	HAMP I HPS	1		9.00	1958
	Karnataka	State Sector	APGENCO	HAMP II HPS	2		9.00	1958
	Karnataka	State Sector	APGENCO	HAMP II HPS	3		9.00	1964
	Karnataka	State Sector	APGENCO	HAMP II HPS	4		9.00	1964
<b>Total (Karnataka)</b>							<b>3644.20</b>	
130	Kerala	State Sector	KSEB	IDAMALAYAR HPS	1		37.50	1987
	Kerala	State Sector	KSEB	IDAMALAYAR HPS	2		37.50	1987
131	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
132	Kerala	State Sector	KSEB	KAKKAD HPS	1		25.00	1999
	Kerala	State Sector	KSEB	KAKKAD HPS	2		25.00	1999
133	Kerala	State Sector	KSEB	KUTTIYADI HPS	1		25.00	1972
	Kerala	State Sector	KSEB	KUTTIYADI HPS	2		25.00	1972
	Kerala	State Sector	KSEB	KUTTIYADI HPS	3		25.00	1972
134	Kerala	State Sector	KSEB	KUTTIYADI EXTN. HPS,	4		50.00	2001
	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	1		50.00	2010
	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	2		50.00	2010
136	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
137	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	1		15.00	1961
	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	2		15.00	1961



**LIST OF HYDRO POWER STATIONS AS ON 31.03.2021**

**APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
138	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	3		15.00	1963
	Kerala	State Sector	KSEB	PALLIVASAL HPS	1		5.00	1940
	Kerala	State Sector	KSEB	PALLIVASAL HPS	2		5.00	1941
	Kerala	State Sector	KSEB	PALLIVASAL HPS	3		5.00	1942
	Kerala	State Sector	KSEB	PALLIVASAL HPS	4		7.50	1948
	Kerala	State Sector	KSEB	PALLIVASAL HPS	5		7.50	1949
	Kerala	State Sector	KSEB	PALLIVASAL HPS	6		7.50	1951
139	Kerala	State Sector	KSEB	PANNAR HPS	1		15.00	1963
	Kerala	State Sector	KSEB	PANNAR HPS	2		15.00	1964
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	1		8.00	1957
140	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
	Kerala	State Sector	KSEB	SABARGIRI HPS	1		50.00	1966
	Kerala	State Sector	KSEB	SABARGIRI HPS	2		50.00	1966
	Kerala	State Sector	KSEB	SABARGIRI HPS	3		50.00	1967
	Kerala	State Sector	KSEB	SABARGIRI HPS	4		50.00	1967
	Kerala	State Sector	KSEB	SABARGIRI HPS	5		50.00	1967
	Kerala	State Sector	KSEB	SABARGIRI HPS	6		50.00	1967
142	Kerala	State Sector	KSEB	SENGULAM HPS	1		12.00	1954
	Kerala	State Sector	KSEB	SENGULAM HPS	2		12.00	1954
	Kerala	State Sector	KSEB	SENGULAM HPS	3		12.00	1954
	Kerala	State Sector	KSEB	SENGULAM HPS	4		12.00	1955
	Kerala	State Sector	KSEB	SHOLAYAR HPS	1		18.00	1966
	Kerala	State Sector	KSEB	SHOLAYAR HPS	2		18.00	1968
	Kerala	State Sector	KSEB	SHOLAYAR HPS	3		18.00	1968
<b>Total (Kerala)</b>							<b>1856.50</b>	
144	Tamil Nadu	State Sector	TENGEDCO	ALIYAR HPS	1		60.00	1970
145	Tamil Nadu	State Sector	TENGEDCO	BHAWANI KATTAL HPS	1		15.00	2006

**LIST OF HYDRO POWER STATIONS AS ON 31.03.2021****APPENDIX-B**

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

**LIST OF HYDRO POWER STATIONS AS ON 31.03.2021****APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
158	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-II HPS.	4		15.00	1988
159	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	5		15.00	1988
160	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	6		15.00	1987
	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
161	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
162	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
163	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
	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
164	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	4		8.00	1951
165	Tamil Nadu	State Sector	TENGEDCO	PARSON'S VALLEY HPS	1		30.00	2000
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	1		42.00	1958
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	2		42.00	1959
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	3		42.00	1959
	Tamil Nadu	State Sector	TENGEDCO	PERIYAR HPS	4		35.00	1965
166	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



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
Tamil Nadu	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	5	13.60	1954	
Tamil Nadu	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	6	11.00	1939	
167	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTMATE HPS	1	50.00	2005	
Tamil Nadu	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTMATE HPS	2	50.00	2005	
Tamil Nadu	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTMATE HPS	3	50.00	2005	
168	Tamil Nadu	State Sector	TENGEDCO	SARKARPATHY HPS	1	30.00	1966	
169	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	1	35.00	1971	
Tamil Nadu	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	2	35.00	1971	
170	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>								
171	Jharkhand	State Sector	JUJNL	SUBERNREKHA-I HPS,	1	65.00	1977	
172	Jharkhand	State Sector	JUJNL	SUBERNREKHA-II HPS.	2	65.00	1980	
<b>Total (Jharkhand)</b>						<b>130.00</b>		
173	Odisha	State Sector	OHPC	BALIMELA HPS	1	60.00	1973	
Odisha	Odisha	State Sector	OHPC	BALIMELA HPS	2	60.00	1974	
Odisha	Odisha	State Sector	OHPC	BALIMELA HPS	3	60.00	1974	
Odisha	Odisha	State Sector	OHPC	BALIMELA HPS	4	60.00	1975	
Odisha	Odisha	State Sector	OHPC	BALIMELA HPS	5	60.00	1976	
Odisha	Odisha	State Sector	OHPC	BALIMELA HPS	6	60.00	1970	
Odisha	Odisha	State Sector	OHPC	BALIMELA HPS	7	75.00	2008	
Odisha	Odisha	State Sector	OHPC	BALIMELA HPS	8	75.00	2008	
174	Odisha	State Sector	OHPC	HIRAKUD HPS	1	32.00	1956	
Odisha	Odisha	State Sector	OHPC	HIRAKUD HPS	2	32.00	1957	
Odisha	Odisha	State Sector	OHPC	HIRAKUD HPS	3	37.50	1956	
Odisha	Odisha	State Sector	OHPC	HIRAKUD HPS	4	37.50	1957	
Odisha	Odisha	State Sector	OHPC	HIRAKUD HPS	5	49.50	1962	
Odisha	Odisha	State Sector	OHPC	HIRAKUD HPS	6	49.50	1963	



## LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

## APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
Odisha	Odisha	State Sector	OHPG	HIRAKUD HPS	7		37.50	1990
175	Odisha	State Sector	OHPG	CHIPLIMA HPS	1		24.00	1962
Odisha	Odisha	State Sector	OHPG	HIRAKUD HPS	7		37.50	1990
175	Odisha	State Sector	OHPG	CHIPLIMA HPS	1		24.00	1962
Odisha	Odisha	State Sector	OHPG	CHIPLIMA HPS	2		24.00	1962
Odisha	Odisha	State Sector	OHPG	CHIPLIMA HPS	3		24.00	1964
176	Odisha	State Sector	OHPG	RENGALI HPS	1		50.00	1985
Odisha	Odisha	State Sector	OHPG	RENGALI HPS	2		50.00	1986
Odisha	Odisha	State Sector	OHPG	RENGALI HPS	3		50.00	1989
Odisha	Odisha	State Sector	OHPG	RENGALI HPS	4		50.00	1990
Odisha	Odisha	State Sector	OHPG	RENGALI HPS	5		50.00	1992
177	Odisha	State Sector	OHPG	UPPER INDRAVATI HPS	1		150.00	1999
Odisha	Odisha	State Sector	OHPG	UPPER INDRAVATI HPS	2		150.00	1999
Odisha	Odisha	State Sector	OHPG	UPPER INDRAVATI HPS	3		150.00	2000
Odisha	Odisha	State Sector	OHPG	UPPER INDRAVATI HPS	4		150.00	2001
178	Odisha	State Sector	OHPG	UPPER KOLAB HPS	1		80.00	1988
Odisha	Odisha	State Sector	OHPG	UPPER KOLAB HPS	2		80.00	1989
Odisha	Odisha	State Sector	OHPG	UPPER KOLAB HPS	3		80.00	1990
Odisha	Odisha	State Sector	OHPG	UPPER KOLAB HPS	4		80.00	1993
179	Odisha	State Sector	APGENCO	MACHKUND HPS	1		21.25	1959
Odisha	Odisha	State Sector	APGENCO	MACHKUND HPS	2		21.25	1959
Odisha	Odisha	State Sector	APGENCO	MACHKUND HPS	3		21.25	1959
Odisha	Odisha	State Sector	APGENCO	MACHKUND HPS	4		17.00	1959
Odisha	Odisha	State Sector	APGENCO	MACHKUND HPS	5		17.00	1959
Odisha	Odisha	State Sector	APGENCO	MACHKUND HPS	6		17.00	1959
<b>Total (Odisha)</b>							<b>2142.25</b>	
180	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	1		9.00	1967
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	2		9.00	1967
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	3		9.00	1972

**LIST OF HYDRO POWER STATIONS AS ON 31.03.2021****APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
181	West Bengal	State Sector	WBPDC	JAL DHAKA HPS ST-I	4		9.00	2012
181	West Bengal	State Sector	WBPDC	RAMMAM HPS	1		12.50	1995
181	West Bengal	State Sector	WBPDC	JAL DHAKA HPS ST-I	4		9.00	2012
182	West Bengal	State Sector	WBPDC	RAMMAM HPS	1		12.50	1995
182	West Bengal	State Sector	WBPDC	RAMMAM HPS	2		12.50	1995
182	West Bengal	State Sector	WBPDC	RAMMAM HPS	3		12.50	1996
183	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	1		200.00	2017
184	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	2		200.00	2017
184	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	3		200.00	2017
185	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	4		200.00	2017
185	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	5		200.00	2017
186	Sikkim	Private Sector	GATI INFRASTRUCTURE LTD.	CHUZACHEN HPS	1		55.00	2013
186	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETTHANG LOOP HPS	1		48.00	2015
186	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETTHANG LOOP HPS	2		48.00	2015
187	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	1		48.50	2017
187	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	2		48.50	2017
188	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
<b>Total (West Bengal)</b>						<b>986.00</b>		
<b>Total (Sikkim)</b>						<b>1599.00</b>		



LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
189	Jharkhand	Central Sector	DVC	PANCHET HPS	1	40.00	1959	
	Jharkhand	Central Sector	DVC	PANCHET HPS	2	40.00	1990	
190	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	
191	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	
192	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	
193	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>								
194	Assam	State Sector	APGCL	KARBILANGPI HPS	1	50.00	2007	
	Assam	State Sector	APGCL	KARBILANGPI HPS	2	50.00	2007	
<b>Total (Assam)</b>					<b>100.00</b>			
195	Meghalaya	State Sector	MeECL	KYRDEM KULAI HPS	1	30.00	1979	
	Meghalaya	State Sector	MeECL	KYRDEM KULAI HPS	2	30.00	1979	
196	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	



LIST OF HYDRO POWER STATIONS AS ON 31.03.2021

APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	MW	
197	Meghalaya	State Sector	MeECL	UMI AM HPS ST-1	4	9.00	1965	
198	Meghalaya	State Sector	MeECL	UMI AM HPS ST-IV	1	30.00	1992	
199	Meghalaya	State Sector	MeECL	UMI AM HPS ST-IV	2	30.00	1992	
200	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	1	42.00	2011	
201	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	2	42.00	2012	
202	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	3	42.00	2013	
203	Assam	State Sector	MeECL	NEW UMTRU HPS	1	20.00	2017	
204	Assam	State Sector	MeECL	NEW UMTRU HPS	2	20.00	2017	
<b>Total (Meghalaya)</b>						<b>322.00</b>		
205	Manipur	Central Sector	NEEPCO	RANGANADI HPS	1	135.00	2002	
206	Manipur	Central Sector	NEEPCO	RANGANADI HPS	2	135.00	2002	
207	Manipur	Central Sector	NEEPCO	RANGANADI HPS	3	135.00	2002	
208	Manipur	Central Sector	NEEPCO	PARE HPS	1	55.00	2018	
209	Manipur	Central Sector	NEEPCO	PARE HPS	2	55.00	2018	
210	Manipur	Central Sector	NEEPCO	KAMENG HPS	1	150.00	2020	
211	Manipur	Central Sector	NEEPCO	KAMENG HPS	2	150.00	2020	
212	Manipur	Central Sector	NEEPCO	KAMENG HPS	3	150.00	2021	
213	Manipur	Central Sector	NEEPCO	KAMENG HPS	4	150.00	2021	
214	Manipur	Central Sector	NEEPCO	KOPILI HPS	1	50.00	1988	
215	Manipur	Central Sector	NEEPCO	KOPILI HPS	2	50.00	1988	
216	Manipur	Central Sector	NEEPCO	KOPILI HPS	3	50.00	1997	
217	Manipur	Central Sector	NEEPCO	KOPILI HPS	4	50.00	1997	
218	Manipur	Central Sector	NEEPCO	KHONDONG HPS	1	25.00	1984	
219	Manipur	Central Sector	NEEPCO	KHONDONG HPS	2	25.00	1984	
220	Manipur	Central Sector	NHPC	LOKTAK HPS	1	35.00	1983	
221	Manipur	Central Sector	NHPC	LOKTAK HPS	2	35.00	1983	
222	Manipur	Central Sector	NHPC	LOKTAK HPS	3	35.00	1983	
223	Mizoram	Central Sector	NEEPCO	TURIAL HPS	1	30.00	2017	
224	Mizoram	Central Sector	NEEPCO	TURIAL HPS	2	30.00	2017	

**LIST OF HYDRO POWER STATIONS AS ON 31.03.2021****APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity MW	Year of Comm.
207	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>1605.00</b>	
	<b>North Eastern Region Total</b>					<b>2027.00</b>	
	<b>Total All India Hydro</b>					<b>46209.22</b>	



## LIST OF NUCLEAR POWER STATIONS AS ON 31.03.2021

### APPENDIX-C

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity		Year of Comm.
						MW	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	TARAPURA A.P.S.	1	160	1960	
	Maharashtra	Central Sector	NPCIL	TARAPURA A.P.S.	2	160	1969	
	Maharashtra	Central Sector	NPCIL	TARAPURA A.P.S.	3	540	2005	
	Maharashtra	Central Sector	NPCIL	TARAPURA 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>		



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