



# अखिल भारतीय विद्युत सांख्यिकी All India Electricity Statistics

## सामान्य पुनर्विलोकन 2023

(2021-22 के आंकड़े समाविष्ट)

### General Review 2023

(Containing Data for the Year 2021-22)

भारत सरकार  
विद्युत मंत्रालय  
केंद्रीय विद्युत प्राधिकरण  
नई दिल्ली  
जून 2023

Government of India  
Ministry of Power  
Central Electricity Authority  
New Delhi  
June 2023

(अधिनियम 2003 की धारा 73 (आई) एवं (जे) के तहत के. वि. प्रा. के दायित्व के पालन हेतु प्रकाशित)  
(Published in fulfilment of CEA's obligation under Section 73(i) & (j) of the Electricity Act 2003)



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



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## FOREWORD

In fulfilment of its statutory obligations under the Electricity Act, 2003, Central Electricity Authority makes public 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 2023” is a step in this direction, which is based on data for the year 2021-22. 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.

The data for this publication has been collected from various organizations of the Indian Electricity Sector. 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.

As per the available data, the installed capacity including captive plants during the year 2021-22 has increased by 3.38 % over the previous year and the total electricity generated in the country including that from captive plants during the year 2021-22 has registered a growth of 5.99 % over the previous year. The share of renewable energy resources (Utilities and non-utilities) (excluding Hydro above 25MW) in total installed capacity has increased from 21.74% to 24.54 % and the share of generation from these sources in total generation has increased from 9.66% to 10.49 % in the country during the year 2021-22.

The cooperation of all utilities/organizations who have timely furnished the requisite information, making this publication possible, is highly appreciated. I hope that “All India Electricity Statistics - General Review 2023” will fulfill the expectations of all stakeholders who are involved in the development of electricity sector in India.

(Ghanshyam Prasad)



**A. BALAN**  
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## PREFACE

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. The General Review incorporates important statistics/ data on installed capacity, electric energy generation and utilization of electric energy along with the transmission and distribution losses, per capita consumption. This publication also contain energy utilization by various categories of electricity consumers like domestic, commercial, irrigation, industries (LV /MV, HV /EHV), public lighting, public water works, etc. The various Chapters/Tables of the publication indicate the above Information State wise/ Sector wise/ Category wise/ Mode wise etc.

Data pertaining to utility sources and Captive Power Plants in Industries having demand of 0.5 MW and above have also been included in the Report. The non-availability of complete data/information in respect of certain utilities for the year 2021-22 is a major constraint and so I request 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 2023" containing data for 2021-22 has been compiled based on the data/information received till March, 2023. 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.

June, 2023

  
(A. BALAN)

स्वहित एवं राष्ट्रहित में ऊर्जा बचाएं  
Save Energy for Benefit of Self and Nation





**Irfan Ahmad**  
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New Delhi-110066, Dated:

### ACKNOWLEDGEMENT

This publication “All India Electricity Statistics- General Review 2023” contains countrywide statistics relating to generation, transmission, distribution and consumption of electricity by different sectors/categories for the FY 2021-22. The annual electricity statistics of Indian Power sector has been important task being accomplished by CEA in fulfillment of its obligation under the Electricity Act, 2003. The data for this publication was collected from Power Utilities in public and private sectors, Electricity Departments and Non-Utilities of India and specific category consumers. With large number of organizations, the work of data collection has indeed become very complex.

The officers of PDM Division have put their sincere efforts in compilation of this publication through constant follow-up with power utilities for data collection. The contribution made by Smt. Kiran Meena, Deputy Director, Shri Akshay Singh, Deputy Director and Shri Lokendra Meena, Assistant Director is gratefully acknowledged. Other officers and staff of PDM Division have provided their valuable support in bringing out this publication. The vital inputs regarding Captive Power Plants (CPPs) provided by Regional Power Survey Offices (RPSOs) of CEA for preparation of this Review are duly acknowledged.

This compilation has been possible due to active co-operation of all central, state and private sector power utilities/organizations, who have furnished the requisite information. 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 and taken care of in the next issue of Electricity Statistics-General Review.

June, 2023

  
(IRFAN AHMAD)

## GLOSSARY

(Containing Definitions, Expansion of Abbreviations)

A & W	As & When
APPGCL	Andhra Pradesh Power Generation Corporation Limited
APTRANSCO	Transmission Corporation of Andhra Pradesh Limited
BBMB	Bhakra Beas Management Board
CCGT	Combine Cycle Gas Turbine
Ckt.Kms.	Circuit kilometers
CSP	Central Sector Project
Deptt.	Department
DVC	Damodar Valley Corporation
E	Estimated
ER	Eastern Region
GRIDCO	Grid Corporation of Orissa Limited
GWh	Giga Watt Hour (equivalent to 1 Million Unit (MU) of Electrical Energy)
HPGCL	Haryana Power Generation Corporation Limited
HV	High Voltage
HVPNL	Haryana Vidyut Prasaran Nigam Limited
IPGCL	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

In the pre-independence era, the power supply was mainly in the hands of Private Sector that too restricted to the urban areas. Power development in India commenced with the Commissioning of first hydro unit of 130 kW 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.

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

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

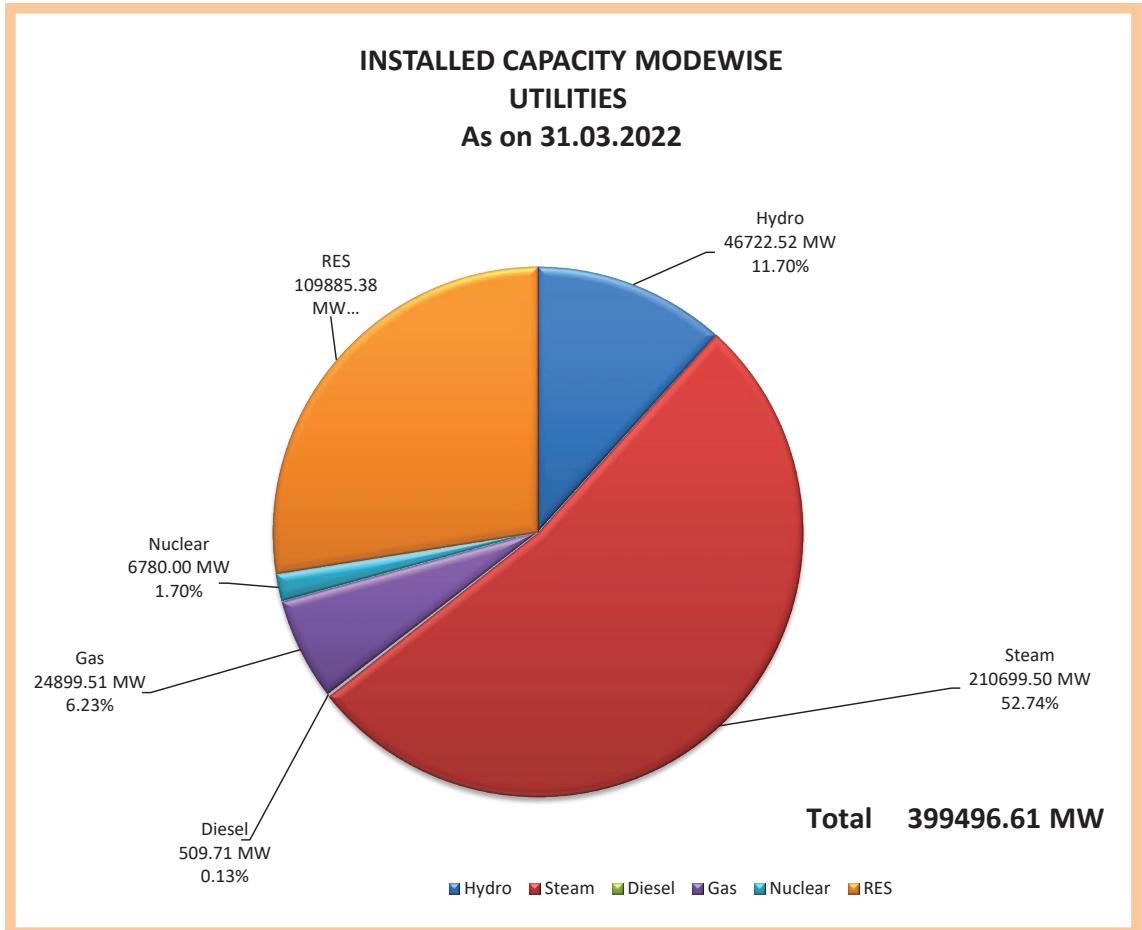
To liberalize the development of power sector, the Government brought Electricity Act-2003 into force in June, 2003. It replaced the three existing legislations namely, Indian Electricity Act 1910, the Electricity (Supply) Act 1948 and Electricity Regulatory Commission Act, 1998.

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

Major growth analyses of the power sector in the country from 1950 up to 31st March, 2022 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 2022, the All India installed capacity (excluding captive capacity) has increased to 399496.61 MW consisting of 46722.52 MW hydro, 236108.72 MW thermal, 6780 MW nuclear and 109885.38 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 2021-22.

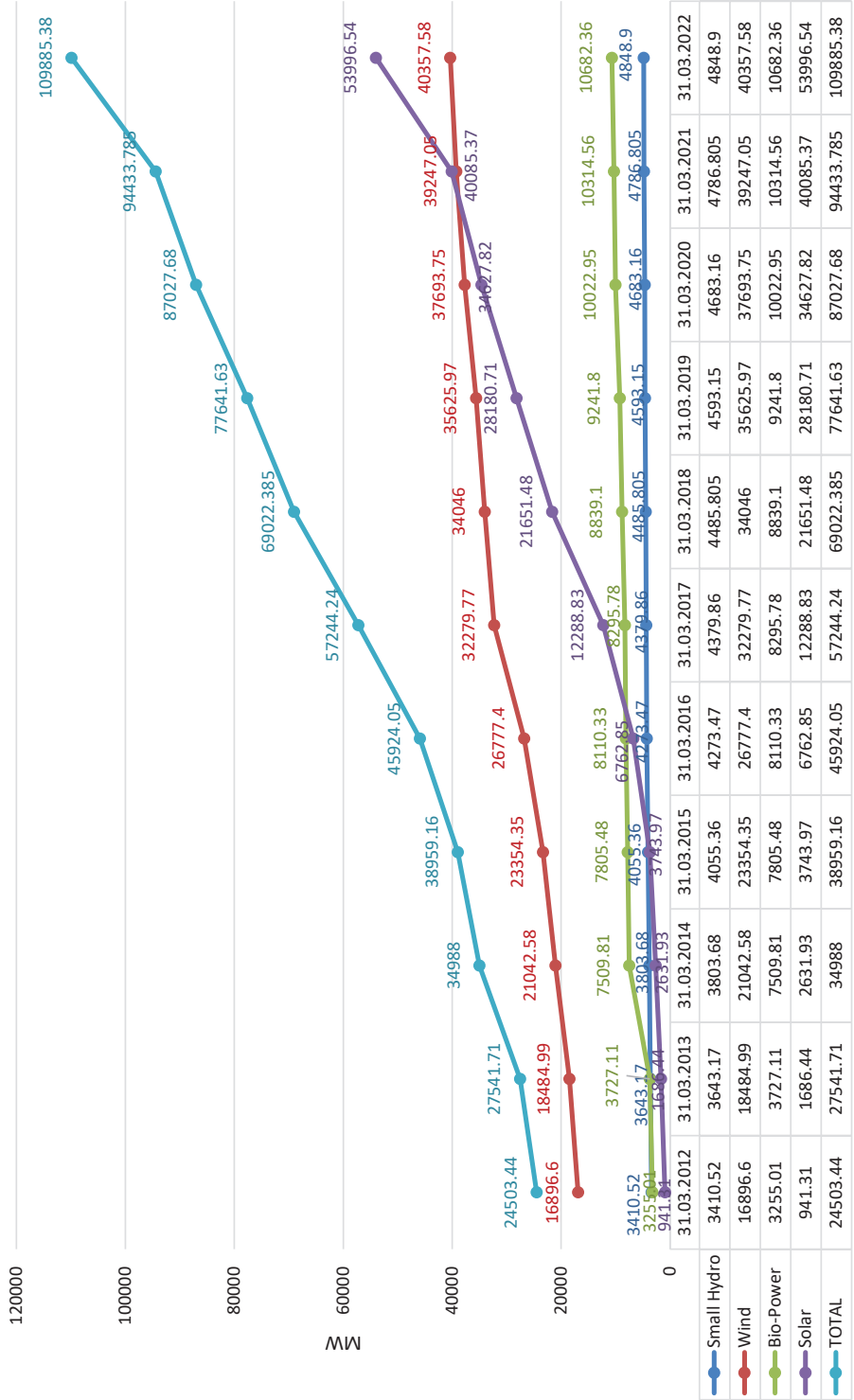


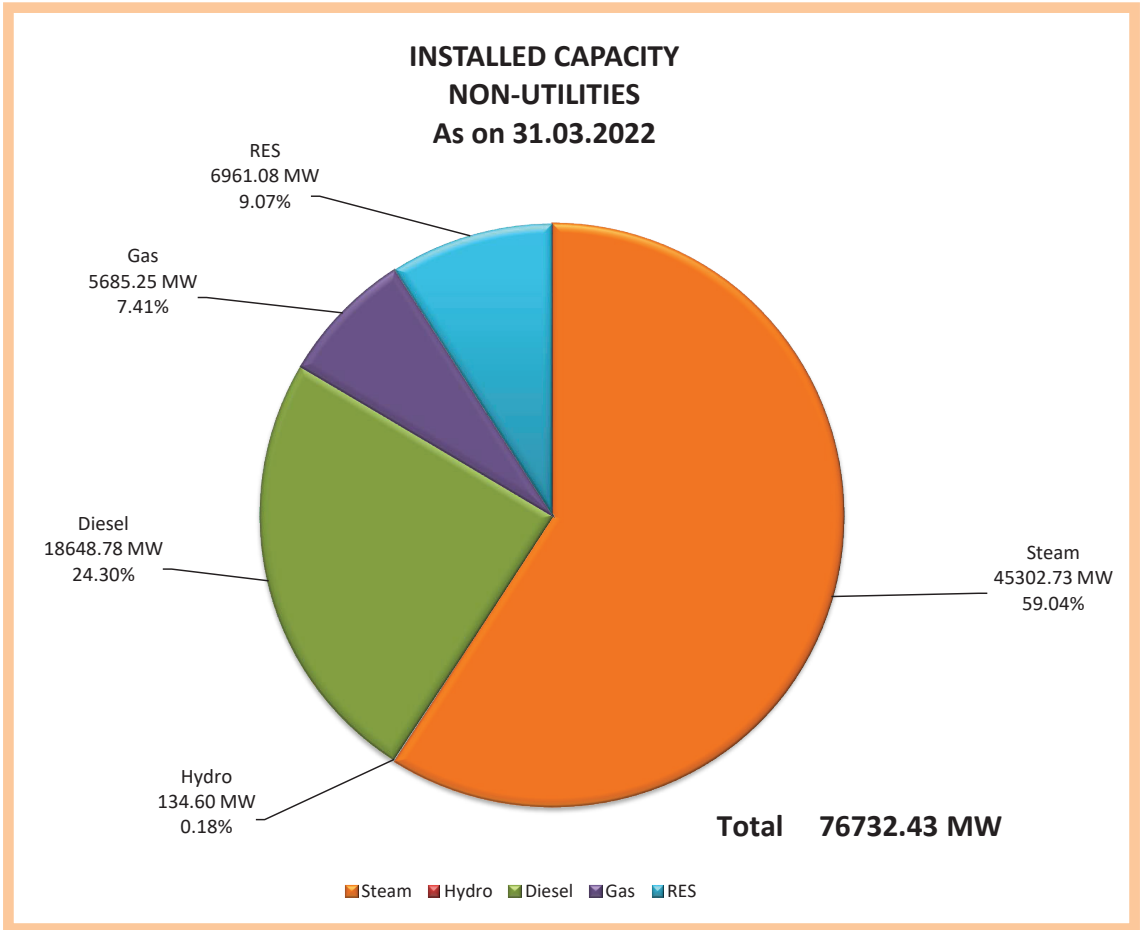
The details of growth of installed capacity (conventional & RES) is given at **Table 1.2**.

- During the period 2012-22 the Installed Capacity of RES (excluding large Hydro) has grown from 24503.45 MW as on 31.03.2012 to 109885.38 MW as on 31.03.2022 registering a CAGR of 16.19%.
- The total installed capacity of captive power plants in industries having demand of 0.5 MW & above, at the end of the fiscal year 2021-22 has grown to 76732.43 MW out of which the contribution of hydro was 134.60 MW, steam 45302.73 MW, diesel 18648.78 MW, gas 5685.25 MW, and RES 6961.08 MW.



Growth of Installed Capacity of RES over 10 Years





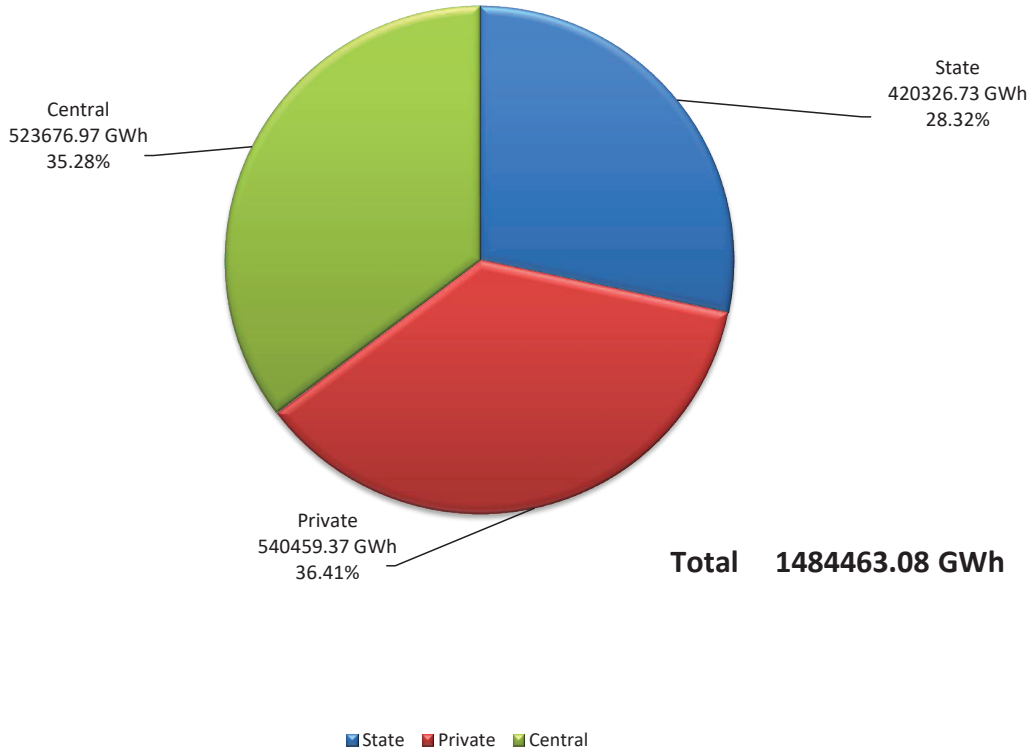
Growth of captive power plant details are given at **Table 1.5**.

## 2. Gross Electricity Generation

- All India gross electricity generation which was 5106 GWh during the year ending 31.12.1950 grew up to 1484463.08 GWh (excluding generation from captive plants) during the year 2021-22 constituting 151627.33 GWh hydro, 1114811.39 GWh thermal, 47112.06 GWh nuclear and 170912.30 GWh RES (Renewable Energy Sources).



### ALL INDIA GROSS ELECTRICITY GENERATION SECTORWISE UTILITIES 2021-22

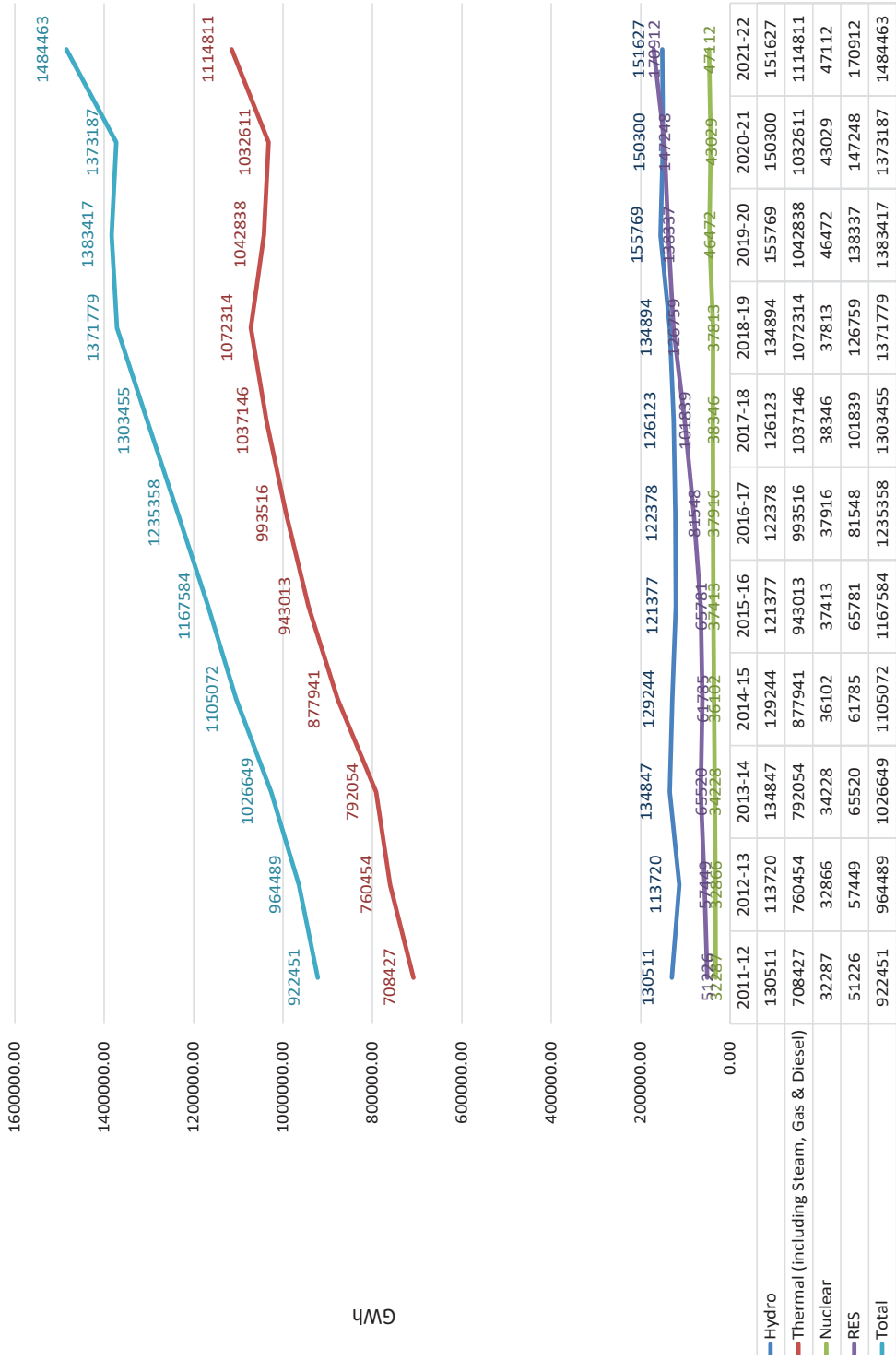


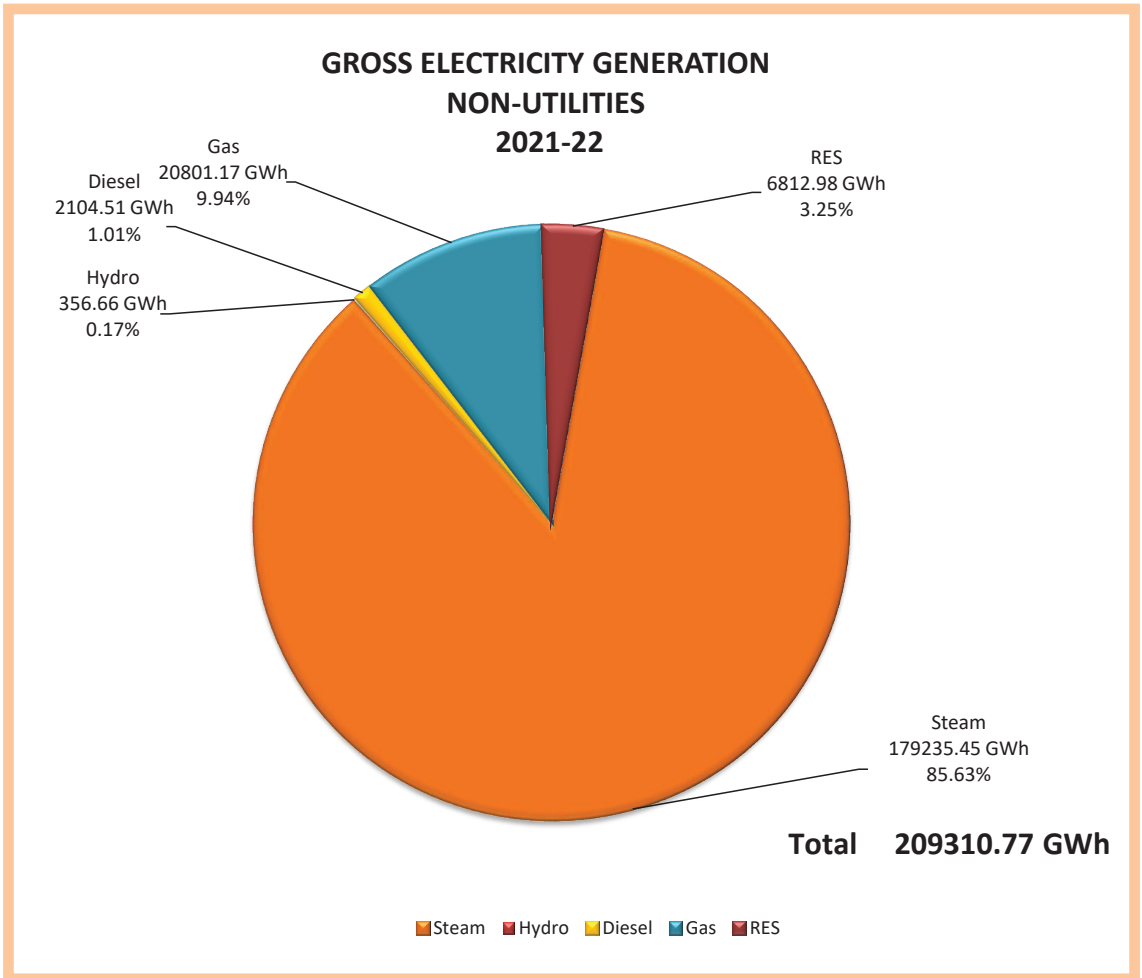
Yearly details of generation growth are given at **Table 1.3**.

- During the period 2012-22 the Generation from RES (excluding large Hydro) has grown from 51226.05 GWh during FY2011-12 to 170912.30 GWh during FY2021-22 registering a CAGR of **12.80%**.
- Electricity generated from the captive electricity generation plants during the year 2021-22 was 209310.77 GWh, constituting 356.66 GWh from hydro, 179235.45 GWh from steam, 2104.51 GWh from diesel, 20801.17 GWh from gas and 6812.98 GWh from RES.



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





Details are given at **Table 1.6**.

### 3. Electric Power System Losses

- The electricity lost in transformation, transmission and distribution system and electricity unaccounted worked out to 272418.57 GWh representing 19.27% of the total available electricity.
- Amongst all the regions percentage system losses were maximum in North-Eastern Region i.e. 27.23%.
- This was followed by Northern Region with 21.92%, Eastern Region 21.58%, Western Region with 19.41% and Southern Region with 14.61% losses.
- The percentage losses in transmission & distribution network correspond to ultimate consumption within various States/Union Territories.

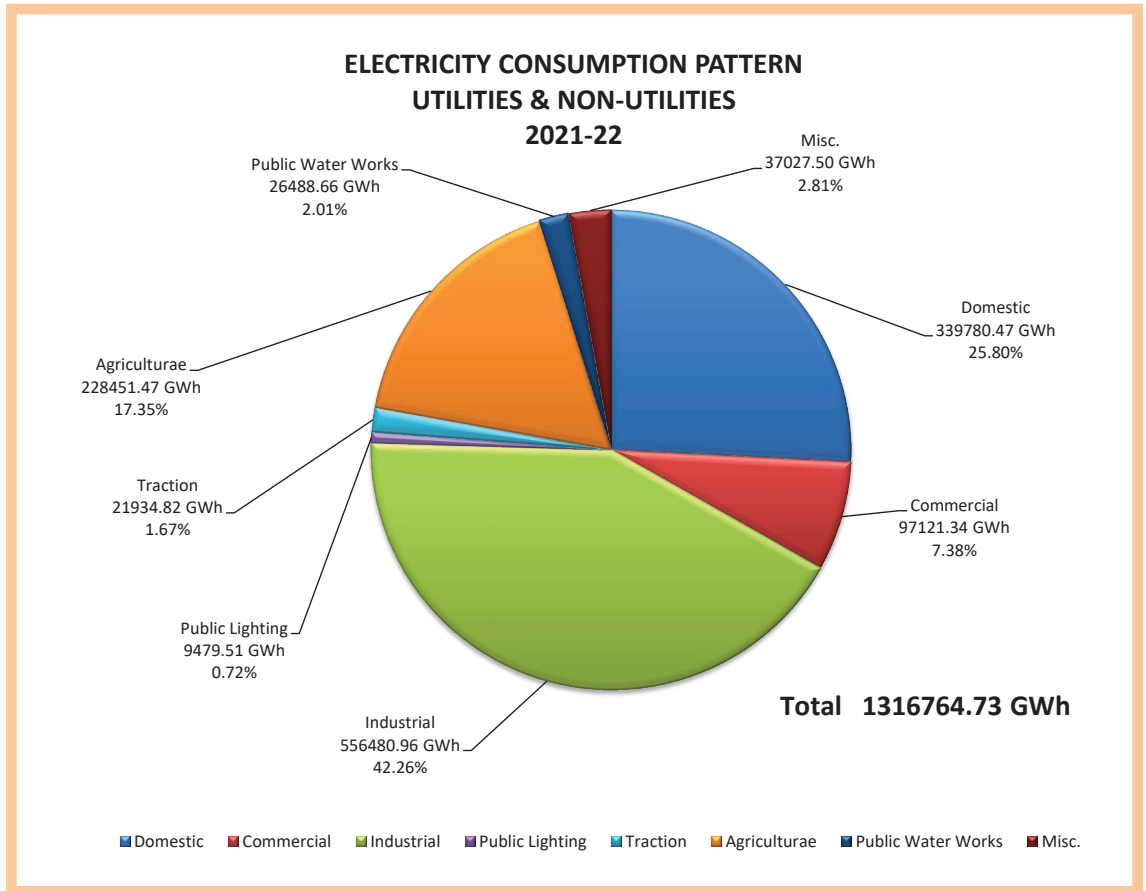


### 4. Electricity Consumption

- The consumption of electricity was 5610 GWh as on 31.12.1950. The consumption has been increased to 1316764.73 GWh during the year 2021-22.

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

- The industrial, domestic and agricultural categories constitute the major categories of consumers of electricity with a total of more than 85%, comprising of about 42.26%, 25.80% and 17.35% respectively of the total consumption including non-utilities.



### 5. Rural Electrification

- The total number of villages electrified as on 31.12.1950 was 3061.
- The total number of villages electrified as on 31.03.2022 rose to 597464 representing 100% of the total number of villages so far as per new definition of villages electrification reported in February 2004.



Details are given at **Table 1.1**.

## 6. Transmission & Distribution Lines

- The length of transmission and distribution lines which was 29271 ckt. kms as on 31.12.1950 rose to 13979990 ckt. kms as on 31st March 2022.

Details are given at **Table 1.1**.

## 7. Per Capita Electricity Consumption

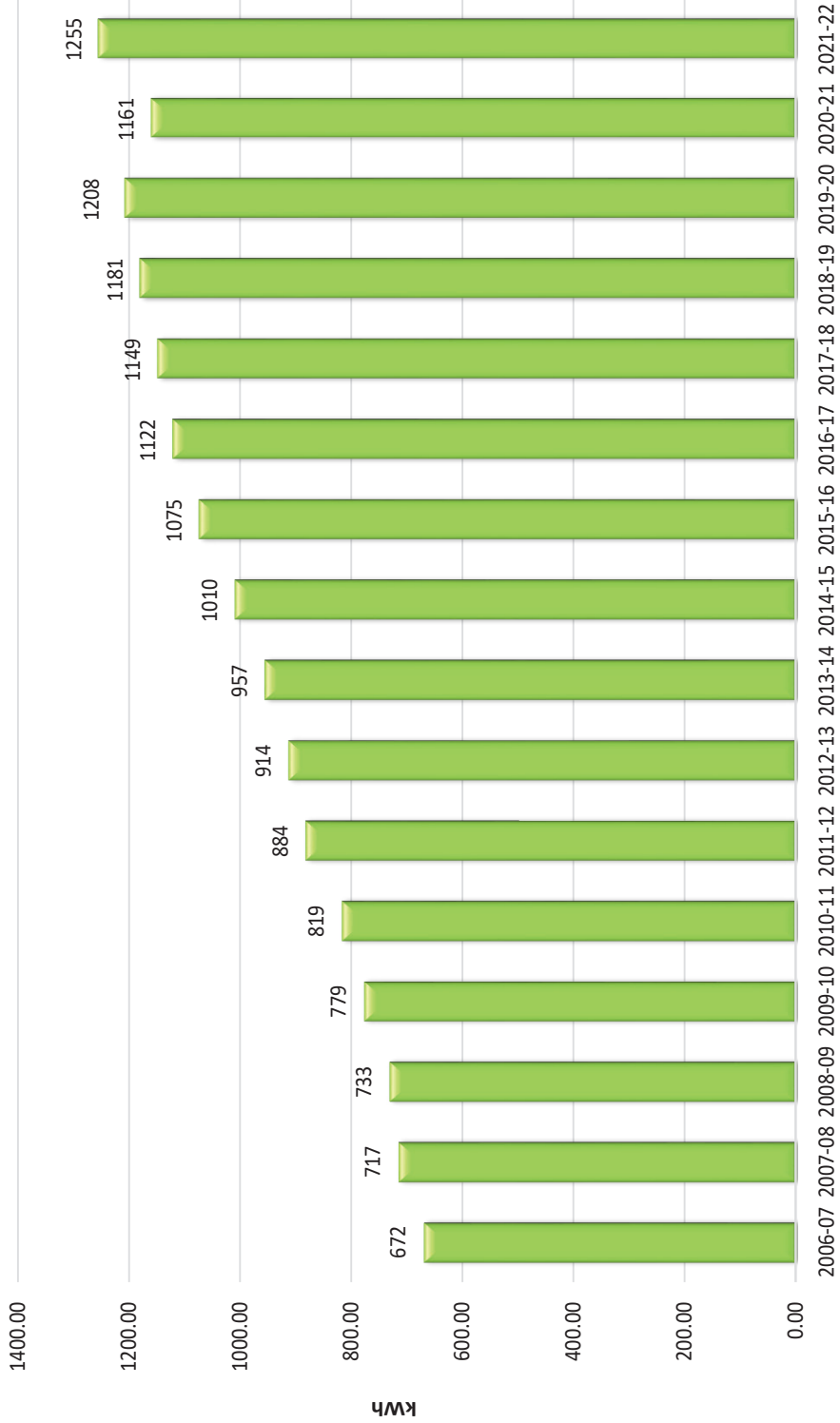
- The per capita electricity consumption which was 18.17 kWh during 1950, has increased to 1255 kWh during the year 2021-22.

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 2006-07 to 2021-22



**TABLE 1.0**  
**OVERVIEW OF ALL INDIA INSTALLED CAPACITY, GENERATION AND PER CAPITA CONSUMPTION OF**  
**ELECTRICITY 2021-22**

<b>A Installed Capacity as on 31.03.2022</b>								
(i) Utilities								(MW)
Sector	Hydro	Thermal				Nuclear	RES	Grand Total
		Steam	Gas	Diesel	Total Thermal			
1	2	3	4	5	6 (3+4+5)	7	8	9 (2+6+7+8)
State Sector	27126.80	67981.50	7087.36	236.01	75304.86	0.00	2423.31	104854.98
Central Sector	15664.72	67690.00	7237.91	0.00	74927.91	6780.00	1632.30	99004.93
Private Sector	3931.00	75028.00	10574.24	273.70	85875.95	0.00	105829.76	195636.71
<b>All India Total</b>	<b>46722.52</b>	<b>210699.50</b>	<b>24899.51</b>	<b>509.71</b>	<b>236108.72</b>	<b>6780.00</b>	<b>109885.38</b>	<b>399496.61</b>
(ii) Non-Utilities								76732.43
<b>(iii) Total All India Installed Capacity (Utilities + Non-Utilities)</b>								<b>476229.05</b>
<b>B Generation for 2021-22</b>								
(i) Utilities								(GWh)
Sector	Hydro	Thermal				Nuclear	RES	Grand Total
		Steam	Gas	Diesel	Total Thermal			
1	2	3	4	5	6 (3+4+5)	7	8	9 (2+6+7+8)
State Sector	78792.42	322795.97	13602.24	176.15	336574.36	0.00	4959.95	420326.73
Central Sector	58421.61	401900.12	12724.10	0.00	414624.22	47112.06	3519.08	523676.97
Private Sector	14413.30	353885.38	9689.43	38.00	363612.81	0.00	162433.26	540459.37
<b>All India Total</b>	<b>151627.33</b>	<b>1078581.47</b>	<b>36015.77</b>	<b>214.15</b>	<b>1114811.39</b>	<b>47112.06</b>	<b>170912.30</b>	<b>1484463.08</b>
(ii) Non-Utilities								209310.77
<b>(iii) All India Total Generation (Utilities + Non-Utilities)</b>								<b>1693773.84</b>
<b>(iv) Net Import (+)/Export (-) outside the Country</b>								<b>-1275.39</b>
<b>(v) Total Energy available in the Country</b>								<b>1692498.46</b>
<b>C Per Capita Consumption for 2021-22 (KWh)</b>								<b>1255</b>
<b>D Growth</b>								
	2019-20		2020-21		2021-22			
	Value	% Growth	Value	% Growth	Value	% Growth		
1. Installed Capacity (MW)	370106.46	3.93	382151.22	3.25	399496.61	4.54		
2. Generation (GWh)	1383416.75	0.85	1373186.88	-0.74	1484463.08	8.10		
3. Per Capita Consumption (KWh)	1208	2.29	1161	-3.92	1255	8.15		

Note:

(i) RES-Renewable Energy Sources

(ii) % Growth is calculated over previous year



**TABLE 1.1  
PLAN-WISE GROWTH OF ELECTRICITY SECTOR**

Sl. No.	As on	Installed Capacity (MW)	Installed Capacity (MW)	No. of villages electrified	Length of T & D Lines (CKt. Kms.)	Per capita Electricity Consumption (kWh)
		Utilities	Non-Utilities			
1	31.12.1950	1713	588	3061	29271	18
2	31.03.1956 (End of 1st Plan)	2886	760	7294	85427	31
3	31.03.1961 (End of 2nd Plan)	4653	1001	21754	157887	46
4	31.03.1966 (End of 3rd Plan)	9027	1146	45148	541704	74
5	31.03.1969 (End of 3 Annual Plans)	12957	1339	73739	886301	98
6	31.03.1974 (End of 4th Plan)	16664	1793	156729	1546097	126
7	31.03.1979 (End of 5th Plan)	26680	2618	232770	2145919	172
8	31.03.1980 (End of Annual Plan)	28448	2860	249799	2351609	172
9	31.03.1985 (End of 6th Plan)	42585	5120	370332	3211956	229
10	31.03.1990 (End of 7th Plan)	63636	8116	470838	4407501	329
11	31.03.1992 (End of 2 Annual Plans)	69065	9301	487170	4574200	348
12	31.03.1997 (End of 8th Plan)	85795	12079	498836	5140993	465
13	31.03.2002 (End of 9th Plan)	105046	17145	512153	6030148	559
14	31.03.2007 (End of 10th Plan)	132329	22335	482864	6939894	672
15	31.03.2008 (1st year of 11th Plan)	143061	24986	487347	7287413	717
16	31.03.2009 (2nd year of 11th Plan)	147965	26674	497236	7487977	734
17	31.03.2010 (3rd year of 11th Plan)	159398	31517	500920	7801098	779
18	31.03.2011 (4th year of 11th Plan)	173626	34444	547034	8365301	819
19	31.03.2012 (End of 11th Plan)	199877	39375	556633	8726092	884
20	31.03.2013 (1st year of 12th Plan)	223344	40726	560266@	9080556	914
21	31.03.2014 (2nd year of 12th Plan)	248554	42258	571782	9312634	957
22	31.03.2015 (3rd year of 12th Plan)	274904	44657	578957	9972918	1010
23	31.03.2016 (4th year of 12th Plan)	305162	48279	586065	10316547	1075
24	31.03.2017 (End of 12th Plan)	326833	51529	592972	10686448	1122
25	31.03.2018 (End of Annual Plan)	344002	54933	597121	11958511	1149
26	31.03.2019 (End of Annual Plan)	356100	75207	597464	12682649	1181
27	31.03.2020 (End of Annual Plan)	370106	76239	597464	13279315	1208
28	31.03.2021 (End of Annual Plan)	382151	78508	597464	13679477	1161
28	31.03.2022 (End of Annual Plan)	399497	76732	597464	13979990	1255

\*: Estimated

@ : As per revised definition of village electrification and 2011 Census.

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

(MW)

Sl. No.	As on	Hydro	Thermal (including Steam, Gas & Diesel)	Nuclear	RES	Total
1	31.12.1950	560	1153	0	0	1713
2	31.03.1956 (End of 1st Plan)	1061	1825	0	0	2886
3	31.03.1961 (End of 2nd Plan)	1917	2736	0	0	4653
4	31.03.1966 (End of 3rd Plan)	4124	4903	0	0	9027
5	31.03.1969 (End of 3 Annual Plans)	5907	7050	0	0	12957
6	31.03.1974 (End of 4th Plan)	6966	9058	640	0	16664
7	31.03.1979 (End of 5th Plan)	10833	15207	640	0	26680
8	31.03.1980 (End of Annual Plan)	11384	16424	640	0	28448
9	31.03.1985 (End of 6th Plan)	14460	27030	1095	0	42585
10	31.03.1990 (End of 7th Plan)	18307	43746	1565	18	63636
11	31.03.1992 (End of 2 Annual Plans)	19194	48054	1785	32	69065
12	31.03.1997 (End of 8th Plan)	21658	61010	2225	902	85795
13	31.03.2002 (End of 9th Plan)	26269	74429	2720	1628	105046
14	31.03.2007 (End of 10th Plan)	34654	86014	3900	7761	132329
15	31.03.2008 (1st year of 11th Plan)	35909	91907	4120	11125	143061
16	31.03.2009 (2nd year of 11th Plan)	36878	93725	4120	13242	147965
17	31.03.2010 (3rd year of 11th Plan)	36863	102454	4560	15521	159398
18	31.03.2011 (4th year of 11th Plan)	37567	112824	4780	18455	173626
19	31.03.2012 (End of 11th Plan)	38990	131603	4780	24504	199877
20	31.03.2013 (1st year of 12th Plan)	39491	151531	4780	27542	223344
21	31.03.2014 (2nd year of 12th Plan)	40531	168255	4780	34988	248554
22	31.03.2015 (3rd year of 12th Plan)	41267	188898	5780	38959	274904
23	31.03.2016 (4th year of 12th Plan)	42783	210675	5780	45924	305162
24	31.03.2017 (End of 12th Plan)	44478	218330	6780	57244	326833
25	31.03.2018 (End of Annual Plan)	45293	222907	6780	69022	344002
26	31.03.2019 (End of Annual Plan)	45399	226279	6780	77642	356100
27	31.03.2020 (End of Annual Plan)	45699	230600	6780	87028	370106
28	31.03.2021 (End of Annual Plan)	46209	234728	6780	94434	382151
29	31.03.2022 (End of Annual Plan)	46723	236109	6780	109885	399497

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

**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
28	2021-22 (End of Annual Plan)	151627	1114811	47112	170912	1484463

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

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

(GWh)

Sl. No.	During financial year	Domestic	Commercial	Industrial	Traction	Agriculture	Others	Total
1	1950	525	309	4057	308	162	249	5610
2	1955-56 (End of 1st Plan)	934	546	7514	405	316	435	10150
3	1960-61 (End of 2nd Plan)	1492	848	12547	454	833	630	16804
4	1965-66 (End of 3rd Plan)	2355	1650	22596	1057	1892	905	30455
5	1968-69 (End of 3 Annual Plans)	3184	2126	29931	1247	3465	1439	41392
6	1973-74 (End of 4th Plan)	4645	2988	37791	1531	6310	2292	55557
7	1978-79 (End of 5th Plan)	7576	4330	54440	2186	12028	3445	84005
8	1979-80 (End of Annual Plan)	8402	4657	53206	2301	13452	3316	85334
9	1984-85 (End of 6th Plan)	15506	6937	73520	2880	20961	4765	124569
10	1989-90 (End of 7th Plan)	29577	9548	100373	4070	44056	7474	195098
11	1991-92 (End of 2 Annual Plans)	35854	12032	110844	4520	58557	9394	231201
12	1996-97 (End of 8th Plan)	55267	17519	139253	6594	84019	12642	315294
13	2001-02 (End of 9th Plan)	79694	24139	159507	8106	81673	21551	374670
14	2002-03 (1st year of 10th Plan)	83355	25437	168821	8797	84486	22564	393460
15	2003-04 (2nd year of 10th Plan)	89736	28201	181970	9210	87089	22128	418334
16	2004-05 (3rd year of 10th Plan)	95659	31381	199448	9495	88555	23455	447993
17	2005-06 (4th year of 10th Plan)	100090	35965	214121	9943	90292	24040	474451
18	2006-07 (End of 10th Plan)	111002	40220	241216	10800	99023	23411	525672
19	2007-08 (1st year of 11th Plan)	120918	46685	265407	11108	104182	29660	577960
20	2008-09 (2nd year of 11th Plan)	130495	54199	281663	11813	107767	28590	614527
21	2009-10 (3rd year of 11th Plan)	141845	58971	297621	12390	119492	27712	658031
22	2010-11 (4th year of 11th Plan)	155301	63912	225019	13323	126377	33037	616969
23	2011-12 (End of 11th Plan)	171104	65381	352291	14206	140960	41252	785195
24	2012-13 (1st year of 12th Plan)	183700	72794	365989	14100	147462	40256	824301
25	2013-14 (2nd year of 12th Plan)	199842	74247	384418	15540	152744	47418	874209
26	2014-15 (3rd year of 12th Plan)	217405	78391	418346	16177	168913	49290	948522
27	2015-16 (4th year of 12th Plan)	238876	86037	423523	16594	173185	62976	1001191
28	2016-17 (5th year of 12th Plan)	255826	89825	440206	15683	191151	68493	1061183
29	2017-18 (Annual Plan)	273545	93755	468613	17433	199247	70834	1123427
30	2018-19 (Annual Plan)	288243	98228	519196	18837	213409	72058	1209972
31	2019-20 (Annual Plan)	308745	106047	532820	19148	211295	70031	1248086
32	2020-21 (Annual Plan)	330809	86950	508776	14668	221303	67701	1230208
33	2021-22 (Annual Plan)	339780	97121	556481	21935	228451	72996	1316765
34	Percentage Share (2021-22)	25.80	7.38	42.26	1.67	17.35	5.54	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
	2	3	4	5	6	7	8	9	10
1	31.12.1950*						587.85		587.85
2	31.03.1956* (End of 1st Plan)						759.65		759.65
3	31.03.1961* (End of 2nd Plan)						1001.37		1001.37
4	31.03.1966* (End of 3rd Plan)						1082.36		1082.36
5	31.03.1969* (End of 3 Annual Plan)						1277.47		1277.47
6	31.03.1974* (End of 4th Plan)						1732.70		1732.70
7	31.03.1979 (End of 5th Plan)	2.61	1949.23	559.17	44.27	0.00	2555.28	62.31	2617.59
8	31.03.1980 (End of Annual Plan)	2.61	2021.61	720.58	54.27	0.00	2799.07	60.44	2859.51
9	31.03.1985 (End of 6th Plan)	2.91	2803.18	2077.06	155.31	0.00	5038.46	81.80	5120.26
10	31.03.1990 (End of 7th Plan)	3.60	4822.85	2754.48	425.51	0.00	8006.44	109.29	8115.73
11	31.03.1992 (End of 2 Annual Plans)	4.30	5377.10	3291.06	495.72	0.00	9168.18	133.23	9301.41
12	31.03.1997 (End of 8th Plan)	3.50	6151.69	4529.91	1166.38	64.83	11916.31	162.62	12078.93
13	31.03.2002 (End of 9th Plan)	51.10	8354.03	6521.95	2125.91	92.21	17145.20	NA	17145.20
14	31.03.2007 (End of 10th Plan)	60.50	11397.52	7723.35	2976.00	177.67	22335.04	NA	22335.04
15	31.03.2008 (End of 1st year of 11th Plan)	60.50	11763.99	8647.92	4209.23	304.75	24986.39	NA	24986.39
16	31.03.2009 (End of 2nd year of 11th Plan)	110.79	13817.53	8749.67	3621.05	374.63	26673.68	NA	26673.68
17	31.03.2010 (End of 3rd year of 11th Plan)	55.01	17183.34	9456.61	4368.02	453.89	31516.87	NA	31516.87
18	31.03.2011 (End of 4th year of 11th Plan)	56.88	19111.54	9655.25	5053.76	566.69	34444.12	NA	34444.12
19	31.03.2012 (End of 11th Plan)	47.59	22615.39	9955.23	5884.95	872.21	39375.37	NA	39375.37
20	31.03.2013 (End of 1st year of 12th Plan)	66.90	23889.61	11148.14	4497.69	1124.05	40726.39	NA	40726.39
21	31.03.2014 (End of 2nd year of 12th Plan)	63.59	24751.58	11432.35	4751.35	1259.00	42257.87	NA	42257.87
22	31.03.2015 (End of 3rd year of 12th Plan)	65.09	26088.59	12008.89	5193.44	1300.84	44656.85	NA	44656.85
23	31.03.2016 (End of 4th year of 12th Plan)	59.09	28687.59	12346.61	5818.62	1367.58	48279.48	NA	48279.48
24	31.03.2017 (End of 12th Plan)	65.29	30571.95	13349.69	6109.21	1433.06	51529.19	NA	51529.19
25	31.03.2018 (End of Annual Plan)	50.96	32854.41	13144.60	7156.37	1726.17	54932.51	NA	54932.51
26	31.03.2019 (End of Annual Plan)	103.39	47679.04	15570.97	8787.13	3066.59	75207.13	NA	75207.13
27	31.03.2020 (End of Annual Plan)	130.77	51542.77	12774.66	7315.87	4475.29	76239.36	NA	76239.36
28	31.03.2021 (End of Annual Plan)	130.70	47759.52	17562.86	7361.11	5693.78	78507.97	NA	78507.97
29	31.03.2022 (End of Annual Plan)	134.60	45302.73	18648.78	5685.25	6961.08	76732.43	NA	76732.43

Note:

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

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

(GWh)

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

Note: 1. \*Break-up not available

2. NA - Not Available

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

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

State/UTs	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Chandigarh	1365	1419	1472	1497	1589	1574	1535	1604	1349	1409
Delhi	23144	23981	24775	25658	26604	28488	29169	29812	26319	27625
Haryana	26258	29083	32197	35092	34501	38215	41017	43382	41944	46231
Himachal Pradesh	7358	7649	7842	7958	7974	8405	9041	9124	8635	10198
Jammu & Kashmir	5163	5754	6372	7144	7902	8395	9633	10623	9984	10231
Punjab	35825	37557	39384	40843	44050	47027	50120	49168	50286	53489
Rajasthan	42160	43151	49920	50359	51027	53618	60151	61942	64888	69831
Uttar Pradesh	55550	59177	64707	70967	81068	90395	91355	94932	93600	98730
Uttarakhand	8574	9597	9980	10298	11162	11210	11543	12021	11225	12519
<b>Sub-Total (NR)</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>	<b>330264</b>
Chhattisgarh	14115	14791	17102	18887	19159	20363	22210	22793	23361	25161
Gujarat	63427	66878	73890	77028	85556	90719	95970	92245	92276	106469
Madhy Pradesh	32936	36770	41757	46384	45681	52523	56972	58628	60954	65502
Maharashtra	100285	100842	108496	115356	121051	124921	132619	125645	126423	142088
Daman & Diu	1814	1819	1595	1692	1737	2377	2431	2496	2137	2482
D & N Haveli	4595	5190	5164	5548	5737	5672	6066	6288	5286	6380
Goa	2998	3085	3151	3391	3475	3618	3787	4104	3700	4014
<b>Sub-Total (WR)</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>	<b>352096</b>
Andhra Pradesh	68439	72919	41914	44353	47761	51001	55407	57119	51756	63269
Telangana			39639	41289	44446	51198	58366	59365	57896	62102
Karnataka	51439	53716	55166	57223	58152	59236	62405	61131	62783	61064
Kerala	16833	18025	18786	19829	20218	21354	21414	23149	22599	23931
Tamil Nadu	62077	71772	77618	80083	83936	86654	91788	95919	94592	101908
Puducherry	2492	2532	2441	2468	2556	2540	2654	2714	2603	2774
Lakshadweep	38	41	45	46	48	49	49	48	53	50
<b>Sub-Total (SR)</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>	<b>315098</b>
Bihar	6721	7980	9807	13250	17251	18713	20856	22709	24108	26064
Jharkhand	17124	18175	16533	17542	19549	19950	21184	21997	21375	23139
Orissa	13552	14411	15440	16053	16988	17714	19373	20716	20610	29541
West Bengal	36320	36592	39059	42497	43946	45478	48290	50482	48394	50881
Sikkim	385	405	405	354	437	344	381	411	415	441
A & N Islands	206	216	229	242	266	266	255	269	245	267
<b>Sub-Total (ER)</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>	<b>130333</b>
Arunachal Pradesh	471	481	543	375	371	437	447	419	405	518
Assam	4205	4763	5484	6199	6525	7064	7268	7109	7356	8521
Manipur	379	398	465	475	512	564	613	631	651	732
Meghalaya	1259	1322	1233	1283	972	1064	1105	1259	1326	1507
Mizoram	287	303	327	339	354	396	408	486	454	661
Nagaland	328	395	529	549	635	664	679	693	683	704
Tripura	721	722	786	813	895	928	956	914	982	1051
<b>Sub-Total (NER)</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>13694</b>
<b>Total (All India)</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>1141485</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
Annual Plan (2021-2022)	11478	4878	42.5





## CHAPTER 2

### ORGANIZATIONAL STRUCTURE OF ELECTRICITY SUPPLY INDUSTRY IN INDIA

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

- As on 31st March 2022, 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 31.03.2022, there were forty-three (43) Power Trading Companies, one hundred forty-five (148) 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**  
**31.03.2022**

Sl. No.	Name	Head Quarter	Ownership by Govt.
<b>(A) Generation Undertakings</b>			
1	A.P. Gas Power Corporation Ltd.	Hyderabad	J.V. of AP & Pvt. Industries*
2	Andhra Pradesh Power Development Company Ltd.	Hyderabad	Andhra Pradesh
3	Andhra Pradesh Power Generation Corporation 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 Corporation Ltd.	Ahmedabad	Gujarat
12	Gujarat State Electricity Corporation Ltd.	Vadodara	Gujarat
13	Gujarat State Energy Generation Ltd.	Gandhinagar	Gujarat
14	Haryana Power Generation Corporation 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 Corporation 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 Corporation Ltd.	Bhopal	Central
28	National Hydroelectric Power Corporation Ltd.	Faridabad	Central
29	National Thermal Power Corporation 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 Corporation 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 Corporation Ltd.	Bhubaneswar	Odisha
37	Odisha Power Generation Corporation Ltd.	Bhubaneswar	Odisha
38	ONGC Tripura Power Company Ltd.	New Delhi	Central Sector (JV)
39	Pench Hydel Power Station	Totladoh	M.P. & Maharashtra
40	Pragati Power Corporation Ltd.	Delhi	Delhi

**TABLE 2.1 (CONTD.)**  
**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER**  
**CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY**  
**FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION**  
**31.03.2022**

Sl. No.	Name	Head Quarter	Ownership by Govt.
41	Puducherry Power Corporation Ltd.	Puducherry	Puducherry
42	Raichur power Corporation Limited	Bengaluru	State(JV)
43	Rajasthan Rajya Vidyut Utpadan Nigam Ltd.	Jaipur	Rajasthan
44	Ratnagiri Gas & Power Pvt. Limited	New Delhi	Central Sector (JV)
45	Sardar Sarovar Narmada Nigam Ltd.	Gandhinagar	Gujarat
46	Satluj Jal Vidyut Nigam Ltd.	Shimla	Central Sector (JV)
47	Sikkim Power Development Corporation Ltd.	Gangtok	Sikkim
48	Singareni Collieries Company Ltd	Kothagudem	Telanagana
49	TB Dam Tungabhadra Board	Bellary	A.P., Karnataka
50	Teesta Urja limited	New Delhi	State Sector (JV)
51	Tehri Hydro Development Corpn. Ltd.	Rishikesh	Uttarakhand
52	Telangana State Power Generation Corpn. Ltd.	Hyderabad	Telangana
53	Tenughat Vidyut Nigam Ltd.	Ranchi	Jharkhand
54	The Durgapur Projects Ltd.	Durgapur	West Bengal
55	Uttar Pradesh Jal Vidyut Nigam Ltd.	Lucknow	Uttar Pradesh
56	Uttar Pradesh Rajya Vidyut Utpadan Nigam Ltd.	Lucknow	Uttar Pradesh
57	Uttarakhand Jal Vidyut Nigam Ltd.	Dehradun	Uttarakhand
58	West Bengal Power Development Corpn. Ltd.	Kolkata	West Bengal. Govt.
<b>(B) Distribution Undertakings</b>			
1	Ajmer Vidyut Vitran Nigam Ltd.	Ajmer	Rajasthan
2	Andhra Pradesh Central Power Distribution Corporation Ltd.	Vijaywada	Andhra Pradesh
3	Assam Power Distribution Company Ltd.	Guwahati	Assam
4	Bangalore Electricity Supply Co. Ltd.	Bengaluru	Karnataka
5	Brihan Mumbai Electric supply & Transport undertaking	Mumbai	Maharashtra
6	Chamundeshwari Electricity Corpn. Ltd.	Mysore	Karnataka
7	Chhattisgarh State Power Distribution Co. Ltd.	Raipur	Chhattisgarh
8	Cochin Port Trust, Kochi	Kochi	Kerala
9	Cochinn Special Economic Zone Authority (CSEZA), Kochi	Kochi	Kerala
10	Dakshin Gujarat Viji 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**  
**31.03.2022**

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

**TABLE 2.1 (CONTD.)**  
**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER**  
**CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY**  
**FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION**  
**31.03.2022**

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.
<b>(D) Holding Undertakings</b>			
1	Bihar State Power Holding Co. Ltd.	Patna	Bihar
2	Chhattisgarh State Power Holding Co. Ltd.	Raipur	Chhattisgarh
3	Gujarat Urja Vikas Nigam Ltd.	Vadodara	Gujarat
4	Jammu & Kashmir Power Corporation Ltd	Srinagar	Jammu & Kashmir
5	Jharkhand Urja Vikas Nigam Ltd.	Ranchi	Jharkhand
6	Maharashtra SEB Holding Co. Ltd.	Mumbai	Maharashtra
7	Meghalaya Energy Corporation Ltd.	Shillong	Meghalaya
<b>(E) Generation + Distribution Undertakings</b>			
1	Ladakh Power Company Limited	Leh	Ladakh
2	Punjab State Power Corporation Ltd	Patiala	Punjab
3	Tamil Nadu Generation & Distribution Corpn. Ltd.	Chennai	Tamil Nadu
<b>(F) Generation + Transmission Undertakings</b>			
1	Bhakra Beas Management Board	Chandigarh	Punjab, Haryana & Rajasthan
2	Damodar Valley Corporation.	Kolkata	Central
<b>(G) Generating + Distribution + Transmission Undertakings</b>			
1	Himachal Pradesh State Electricity Board Limited	Shimla	Himachal Pradesh
2	Kerala State Electricity Board Ltd.	Thiruvananthapuram	Kerala
3	Tripura State Electricity Corporation Limited	Agartala	Tripura
<b>(H) Generating + Distribution + Holding Undertakings</b>			
1	Manipur State Power Company Ltd.	Imphal	Manipur



**TABLE 2.1 (CONTD.)**  
**COMPANIES, POWER CORPORATIONS, MANAGEMENT BOARDS UNDER**  
**CENTRAL, STATE OR JOINT PARTNERSHIP EXISTING IN THE COUNTRY**  
**FOR ELECTRICITY GENERATION/TRANSMISSION/DISTRIBUTION**  
**31.03.2022**

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

**TABLE 2.2**  
**CLASSIFICATION OF COMPANIES IN PRIVATE SECTOR EXISTING IN THE COUNTRY**  
**AS ON 31.03.2022**

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	8	0	0	8
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	11	0	0	11
<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	4	0	0	4
<b>(E) NORTH EASTERN REGION</b>					
1	Assam	0	0	0	0
	<b>ALL INDIA</b>	<b>113</b>	<b>8</b>	<b>27</b>	<b>148</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 31.03.2022**  
**(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	GMR Bajoli Holi Hydro Power Private Limited	Himachal Pradesh
9	Himachal Sorang Power Private Limited	Himachal Pradesh
10	GVK Power (Goindwal Sahib) Ltd.	Punjab
11	Nabha Power Ltd.	Punjab
12	Talwandi Sabo Power Ltd.	Punjab
13	Adani Power Rajasthan Ltd.	Rajasthan
14	Rajwest Power Ltd.	Rajasthan
15	Bajaj Energy Pvt. Ltd.	Uttar Pradesh
16	Lalitpur Power Generation Co. Ltd.	Uttar Pradesh
17	Lanco Anpara Power Ltd.	Uttar Pradesh
18	Prayagraj Power Generation Co. Ltd.	Uttar Pradesh
19	Rosa Power Supply Co. Ltd.	Uttar Pradesh
20	Alaknanda Hydro Power Co. Ltd.	Uttarakhand
21	Gama Infraprop Pvt. Ltd.	Uttarakhand
22	Jai Prakash Power Venture Ltd.	Uttarakhand
23	L&T Uttaranchal Hydropower Limited	Uttarakhand
24	Sravanthi Energy Pvt. Ltd.	Uttarakhand
25	ACB(India) Ltd.	Chhattisgarh
26	Bharat Aluminium Co. Ltd.	Chhattisgarh
27	DB Power Ltd.	Chhattisgarh
28	GMR Chhattisgarh Energy Ltd.	Chhattisgarh
29	Jindal Power Ltd.	Chhattisgarh
30	Korba West Power Co. Ltd.	Chhattisgarh
31	KSK Mahanadi Power Co. Ltd.	Chhattisgarh
32	Lanco Amarkantak Power Ltd.	Chhattisgarh
33	Maruti Clean Coal & Power Ltd.	Chhattisgarh
34	RKM Powergen Pvt. Ltd.	Chhattisgarh
35	Spectrum Coal & Power Ltd.	Chhattisgarh
36	SV Power Pvt. Ltd.	Chhattisgarh
37	TRN Energy Pvt. Ltd.	Chhattisgarh
38	Vandana Energy & Steel Pvt. Ltd.	Chhattisgarh
39	Vandana Vidyut Ltd.	Chhattisgarh
40	Adani Power Ltd.	Gujarat





**TABLE 2.3 (CONTD.)  
DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2022  
(UTILITIES)**

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



**TABLE 2.3 (CONTD.)**  
**DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2022**  
**(UTILITIES)**

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

**TABLE 2.3 (CONTD.)  
DETAILS OF COMPANIES IN PRIVATE SECTOR AND CO-OPERATIVES AS ON 31.03.2022  
(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 Utilites and Infrastructure Servicea Ltd (TSUISL)	Jharkhand
23	Tata Steel Limited	Jharkhand
24	Central Electricity Supply Utility of Odisha	Odisha
25	North Eastern Electricity Supply company of Odisha Limited	Odisha
26	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**  
**31.03.2022**

Sl.	Name of the State	Number of Municipalities			
		Generation & Distribution	Generation Purchase & Distribution	Purchase & Distribution	Total
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 31.03.2022**

Sl. No.	Name of the Trading Licensee	Date of Issue	Present Category of License
1	Tata Power Trading Company Ltd	09.06.2004	I
2	Adani Enterprises 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 Ltd	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	SJVN Limited	10.01.2022	I
15	Refex Industries Ltd.	21.03.2022	I
16	Essar Electric Power Development Corporation Ltd.*	14.12.2005	II
17	RPG Power Trading Company Ltd	23.09.2008	II
18	Kreate Energy (I) Pvt. Ltd.	12.02.2009	II
19	Arunachal Pradesh Power Corporation (P) Ltd	11.09.2012	II
20	National Energy Trading & Services Ltd	23.07.2004	III
21	Instinct Infra & Power Ltd	07.09.2005	III
22	Greenko Energies (P) Ltd	22.01.2008	III
23	Shyam Indus Power Solutions (P) Ltd.*	11.11.2008	III
24	ABJA Power Pvt. Ltd.	26.04.2011	III
25	Gita Power & Infrastructure (P) Ltd	20.10.2015	III
26	AEI New Energy Trading Pvt. Ltd.	25.03.2022	III
27	JSW Power Trading Company Ltd.	25.04.2006	IV
28	Ambitious Power Trading Company Ltd	16.09.2008	IV
29	Knowledge Infrastructure Systems (P) Ltd	18.12.2008	IV
30	Shree Cement Ltd	16.03.2010	IV
31	Vedprakash Power (P) Ltd.*	19.08.2013	IV
32	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
33	ReNew Energy markets Pvt. Ltd.	28.11.2021	IV
34	Customised Energy Solutions India (P) Ltd	08.06.2011	V
35	Saranyu Power Trading Private Limited	10.02.2015	V
36	Atria Energy Services Private Limited	20.06.2017	V
37	Amp Energy Markets India Pvt. Ltd.	15.04.2021	V
38	Altium Energies Pvt. Ltd.	23.05.2021	V
39	Shubheksha Advisors Pvt. Ltd.	31.07.2021	V
40	Renurja Power LLP	31.07.2021	V
41	Shell Energy Marketing and Trading India Pvt. Ltd.	22.12.2021	V
42	Instant Ventures Pvt. Ltd.	09.02.2022	V
43	Ideal Energy Solutions Pvt. Ltd.	22.03.2022	V

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

\*\* Corporate Insolvency Resolution Process has been initiated as per the directions of the Hon'ble Supreme Court dated 31-03-2022.

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

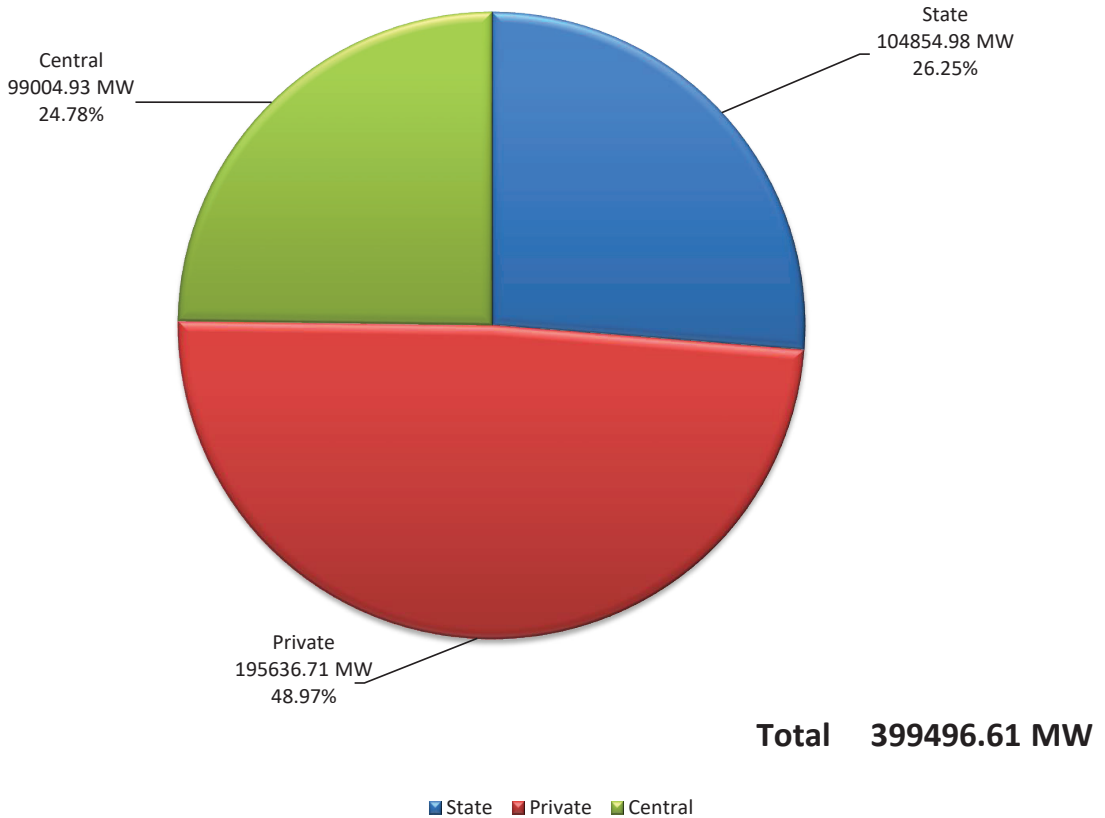
- The total installed capacity in the country including captive power plant (Industries having demand of .05 MW and above) increased to 476229 MW as on 31.03.2022 as compared to 460659 MW as on 31.03.2021.
- The net addition in generating capacity amounted to 15570 MW (Hydro-517 MW, Thermal-1666 MW & Renewable Energy Sources-16719 MW).
- The increase in All India Installed Capacity including captive power plant capacity over the last year was 3.38%.
- The total installed capacity comprises 289611 MW from conventional sources (Utilities), 109885 MW from Renewable Energy Sources and 76732 MW from Industrial and Non-Industrial Captive power plants.

### UTILITIES

- Installed capacity (Utilities) in the country increased to 399497 MW as on 31.03.2022 as compared to 382151 MW as on 31.03.2021 thereby registering an **increase of 4.54%** over the previous year.
- The total net addition in generating capacity amounted to 17345 MW with a majority share from Renewable Energy Sources (RES).
- The total net addition in generating capacity from conventional sources viz Hydro, Thermal & Nuclear amounts 1894 MW.
- The total net addition in generating capacity from Renewable Energy Sources amounts to 15452 MW. Addition of installed generating capacity from renewable energy sources has been taken into account as per the data received from Ministry of New and Renewable Energy.
- The installed capacity of thermal generating units continued to form the largest share of the installed generating capacity followed by RES.
- The relative percentage of capacity of hydro, thermal, nuclear and renewable energy sources has been 11.70%, 59.10%, 1.70% and 27.51% respectively as on 31.03.2022.

### INSTALLED CAPACITY MODE-WISE UTILITIES

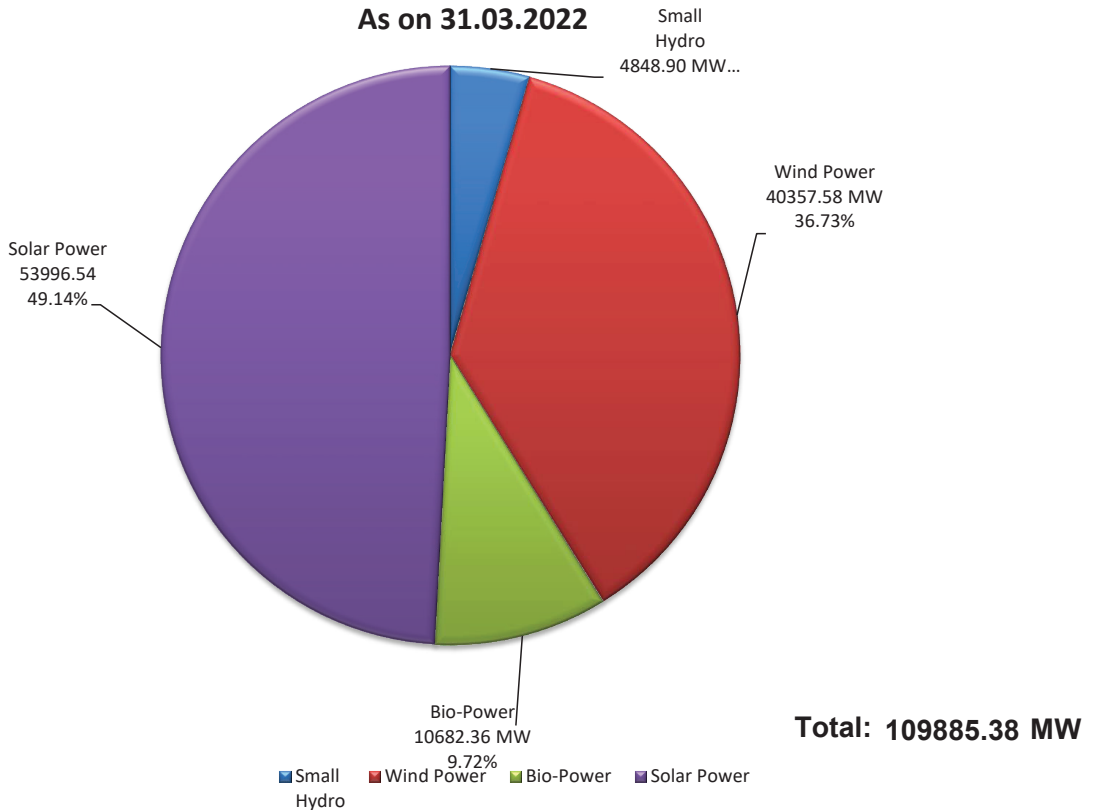
As on 31.03.2022



- Further, the total capacity of RES (including large hydro) 156607.90 MW comprises of 46722.52 MW of Large Hydro, 4848.90 MW of Small Hydro, 40357.88 MW of Wind Power, 10682.36 MW of Bio-Power and 53996.54 MW of Solar Power.

## INSTALLED CAPACITY SECTORWISE RES

As on 31.03.2022



- During the period 2012-22 the Installed Capacity of RES (excluding large Hydro) has grown from 24503.45 MW as on 31.03.2012 to 109885.38 MW as on 31.03.2022 registering a CAGR of 16.19%.

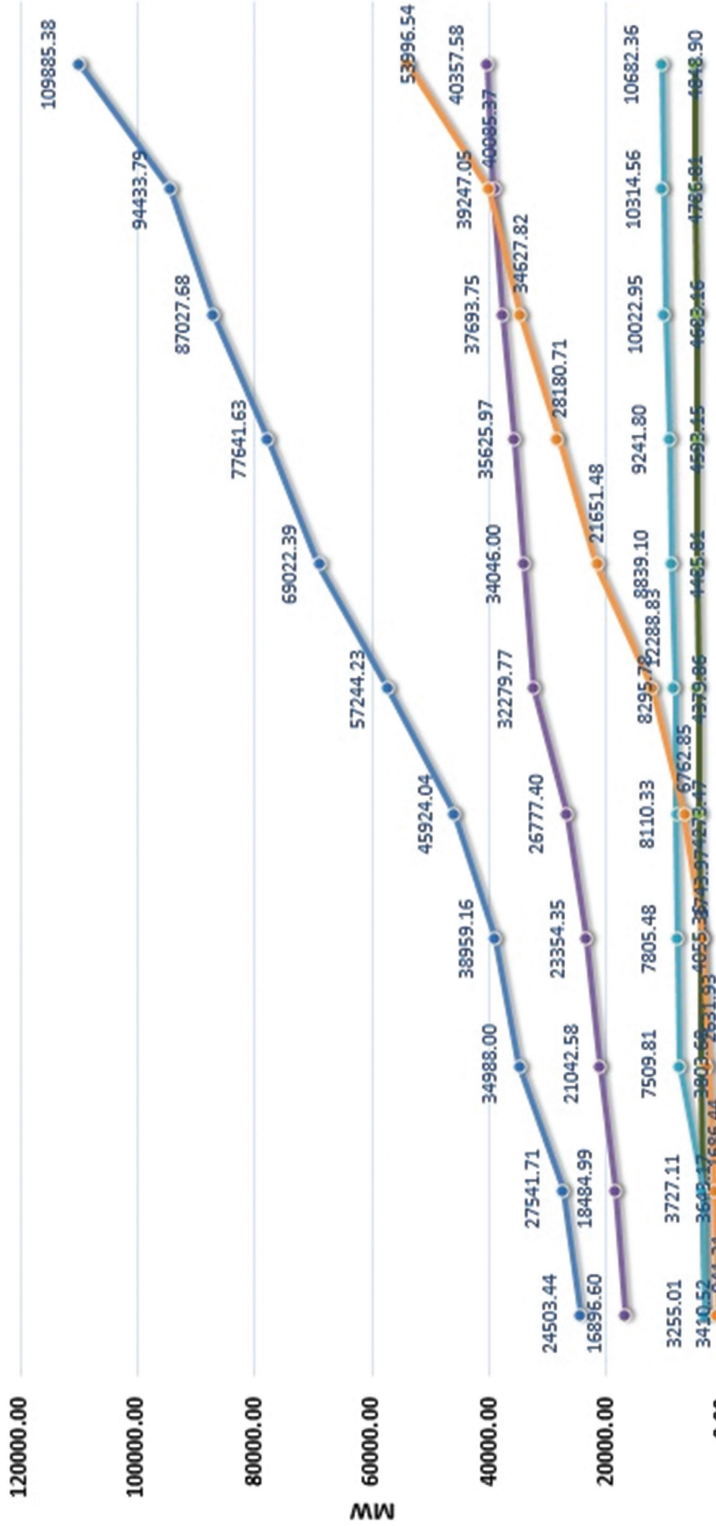
## NON-UTILITIES (CAPTIVE POWER PLANTS)

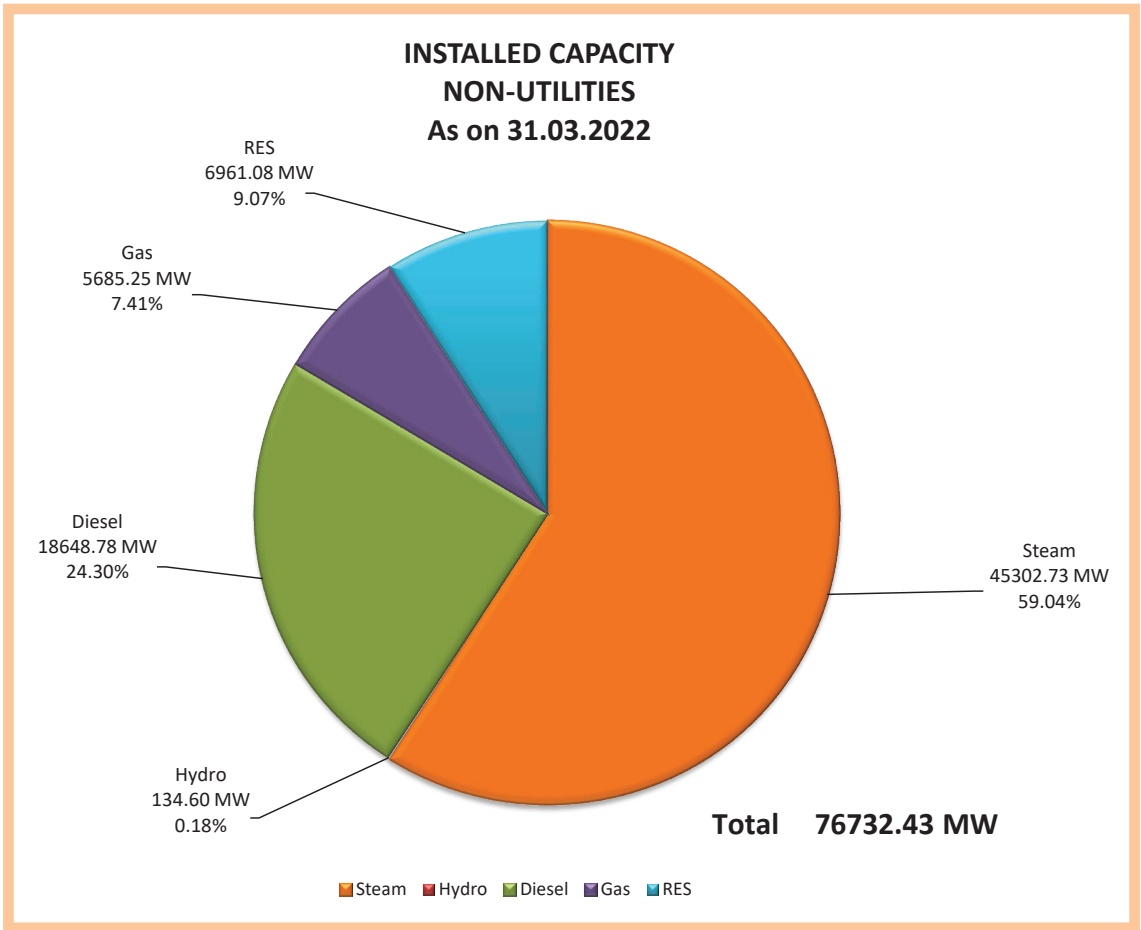
- The installed capacity (Non-Utilities) in respect of Industries having demand of 0.5 MW and above in the country decreased to 76732 MW as on 31.03.2022 as compared to 78508 MW as on 31.03.2021 thereby registering an decrease of -2.26% over the previous year mainly due to conversion of some Non-Utility plants to Utility Plants.
- In the total capacity of non-utilities, the contribution of hydro, steam, diesel, gas and RES capacity had been recorded as 0.18%, 59.04%, 24.30%, 7.41% & 9.07% respectively.





### Growth of Installed Capacity of RES over 10 Years





The various tables in the chapter from 3.1 to 3.11 gives the salient features of the Installed Capacity in the country as on 31st March, 2022.



## GROWTH OF INSTALLED CAPACITY UTILITIES 2019-20 to 2021-22

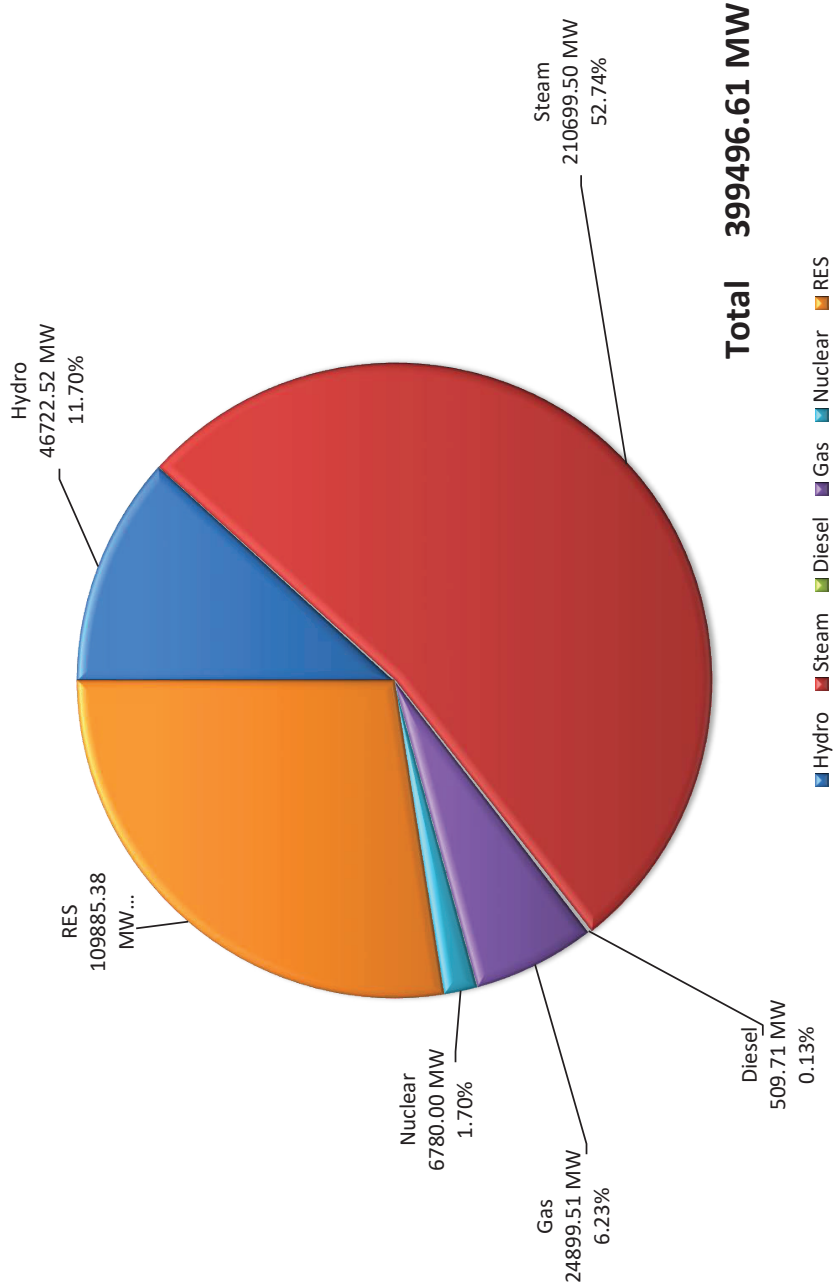


**TABLE 3.1**  
**ALL INDIA INSTALLED CAPACITY MODE-WISE**  
**UTILITIES AND NON-UTILITIES**  
**AS ON 31.03.2022**

Sl. No.	Year	Installed Capacity								
		Hydro	Thermal				Nuclear	R E S	Total (3+7+8+9)	
			Steam	Diesel	Gas	Total(Thermal) (4+5+6)				
1	2	3	4	5	6	7	8	9	10	
(i)	<b>Installed Capacity: Utilities</b>									
	31.03.2021	46209.22	209294.50	509.71	24924.01	234728.22	6780.00	94433.79	382151.22	
	31.03.2022	46722.52	210699.50	509.71	24899.51	236108.72	6780.00	109885.38	399496.61	
	% Increase	1.11	0.67	0.00	-0.10	0.59	0.00	16.36	4.54	
(ii)	<b>Installed Capacity : Non-Utilities (Industries having demand of 0.5 MW &amp; above)</b>									
	31.03.2021	130.70	47759.52	17562.86	7361.11	72683.49	0.00	5693.78	78507.97	
	31.03.2022	134.60	45302.73	18648.78	5685.25	69636.76	0.00	6961.08	76732.43	
	% Increase	2.98	-5.14	6.18	-22.77	-4.19	0.00	22.26	-2.26	
(iii)	<b>Installed Capacity : Total ( i+ii)</b>									
	31.03.2021	46339.92	257054.02	18072.57	32285.12	307411.71	6780.00	100127.57	460659.19	
	31.03.2022	46857.12	256002.23	19158.49	30584.75	305745.48	6780.00	116846.46	476229.05	
	% Increase	1.12	-0.41	6.01	-5.27	-0.54	0.00	16.70	3.38	



**INSTALLED CAPACITY MODEWISE UTILITIES**  
As on 31.03.2022



**TABLE 3.2**  
**ALL INDIA INSTALLED CAPACITY MODE-WISE**  
**UTILITIES AND NON-UTILITIES**  
**AS ON 31.03.2022**

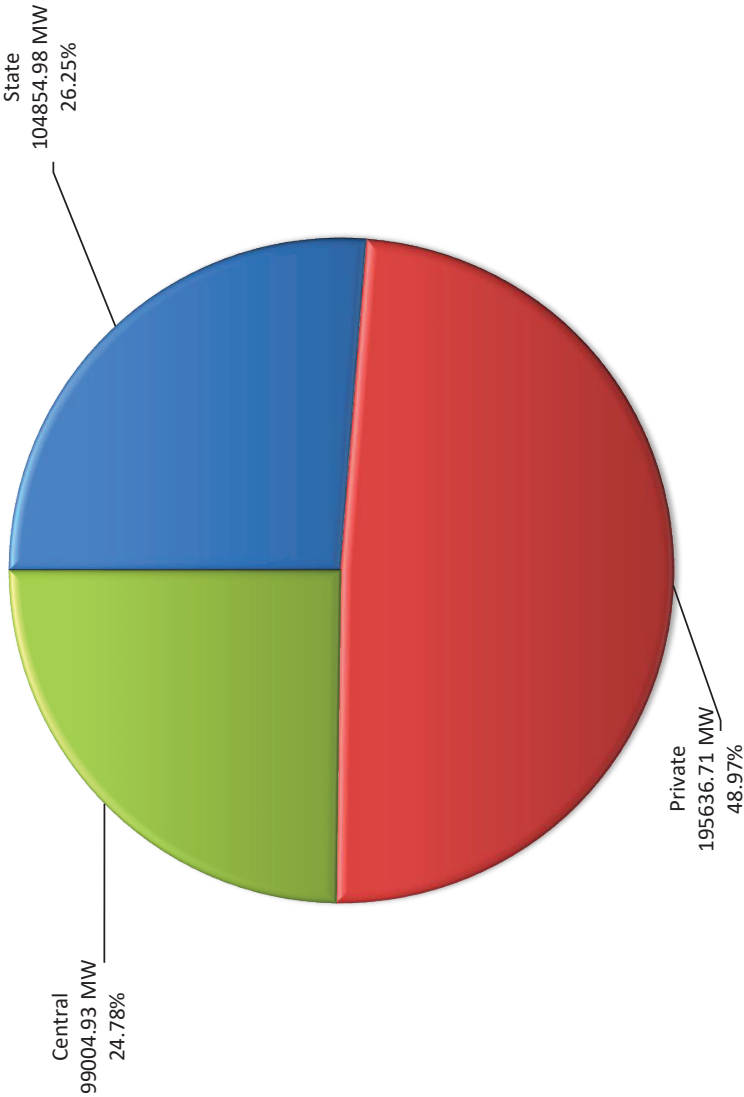
Sl.	Sector	Installed Capacity								Total (2+6+7+8)
		Hydro	Thermal				Nuclear	R E S		
			Steam	Diesel	Gas	Total(Thermal) (3+4+5)				
	1	2	3	4	5	6	7	8	9	
<b>1</b>	<b>Public Sector</b>									
1.1	Elect. Deptt./Govt./ Corpns./Joint Ventures	27126.80	67981.50	236.01	7087.36	75304.86	0.00	2423.31	104854.98	
1.2	Central Sector	15664.72	67690.00	0.00	7237.91	74927.91		1632.30	99004.93	
	<b>Sub-total Public Sector</b>			<b>236.01</b>	<b>14325.27</b>	<b>150232.77</b>		<b>4055.61</b>	<b>203859.91</b>	
<b>2</b>	<b>Private Sector</b>									
2.1	Private Companies	3931.00	75028.00	273.70	10574.24	85875.95	0.00	105829.76	195636.71	
	<b>Sub total Private Sector</b>	<b>3931.00</b>	<b>75028.00</b>	<b>273.70</b>	<b>10574.24</b>	<b>85875.95</b>	<b>0.00</b>	<b>105829.76</b>	<b>195636.71</b>	
	<b>Total All India</b>			<b>509.71</b>	<b>24899.51</b>	<b>236108.72</b>		<b>109885.38</b>	<b>399496.61</b>	

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



### INSTALLED CAPACITY MODE-WISE UTILITIES

As on 31.03.2022



**Total 399496.61 MW**

■ State ■ Private ■ Central

**TABLE 3.3**  
**ALL INDIA INSTALLED CAPACITY STATE-WISE**  
**UTILITIES**  
**31.03.2022**

(MW)

State/UT	31.03.2021	31.03.2022	% INCREASE
Chandigarh	45.16	55.17	22.17
Delhi	2600.37	2625.52	0.97
Haryana	5712.19	6261.13	9.61
Himachal Pradesh	3577.64	3955.07	10.55
UT of J&K and Ladakh	1611.71	1644.05	2.01
Punjab	9784.65	9935.22	1.54
Rajasthan	21263.30	28759.42	35.25
Uttar Pradesh	17346.96	18611.62	7.29
Uttarakhand	3343.10	3561.95	6.55
Central Sector (NR)	29059.58	29077.58	0.06
Sub-Total (NR)	94344.66	104486.73	10.75
Chhattisgarh	16701.38	16997.08	1.77
Gujarat	33911.15	37346.42	10.13
Madhya Pradesh	18404.23	18667.54	1.43
Maharashtra	36841.71	36121.92	-1.95
Daman & Diu	40.55	40.72	0.42
D. & N. Haveli	5.46	5.46	0.00
Goa	55.83	68.34	22.41
Central Sector (WR)	26306.97	26306.97	0.00
<b>Sub-Total (WR)</b>	<b>132267.28</b>	<b>135554.45</b>	<b>2.49</b>
Andhra Pradesh	22696.26	22939.23	1.07
Telangana	14041.69	14892.89	6.06
Karnataka	26154.60	26641.39	1.86
Kerala	2692.25	2811.16	4.42
Tamil Nadu	25684.83	27128.79	5.62
Puducherry	41.83	46.19	10.42
Lakshadweep	0.75	3.27	336.00
Central Sector (SR)	17111.48	17111.48	0.00
Sub-Total (SR)	108423.70	111574.41	2.91
Bihar	354.91	387.35	9.14
Jharkhand	2440.41	2477.14	1.51
Odisha	8141.49	7621.31	-6.39
West Bengal	8981.26	8519.95	-5.14
Sikkim	811.18	928.79	14.50
A. & N. Islands	69.42	69.69	0.39
Central Sector (ER)	21390.30	22870.30	6.92
<b>Sub-Total (ER)</b>	<b>42188.97</b>	<b>42874.53</b>	<b>1.62</b>
Arunachal Pradesh	136.72	142.34	4.11
Assam	507.96	558.41	9.93
Manipur	47.81	53.70	12.32
Meghalaya	368.45	372.48	1.09
Mizoram	38.00	44.37	16.76
Nagaland	31.67	33.71	6.44
Tripura	157.42	162.90	3.48
Central Sector (NER)	3638.60	3638.60	0.00
<b>Sub-Total (NER)</b>	<b>4926.62</b>	<b>5006.50</b>	<b>1.62</b>
<b>Central Sector All India</b>	<b>97506.93</b>	<b>99004.93</b>	<b>1.54</b>
<b>Total All India</b>	<b>382151.22</b>	<b>399496.61</b>	<b>4.54</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 31.03.2022**

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	55.17	55.17
Delhi	0.00	447.00	0.00	1908.40	2355.40	0.00	270.12	2625.52
Haryana	200.00	4674.00	0.00	150.00	4824.00	0.00	1237.13	6261.13
Himachal Pradesh	2914.60	0.00	0.00	0.00	0.00	0.00	1040.47	3955.07
UT of J&K and Ladakh	1230.00	0.00	0.00	175.00	175.00	0.00	239.05	1644.05
Punjab	1243.40	6774.00	0.00	150.00	6924.00	0.00	1767.82	9935.22
Rajasthan	433.00	11026.00	0.00	603.80	11629.80	0.00	16696.62	28759.42
Uttar Pradesh	724.10	13434.00	0.00	0.00	13434.00	0.00	4453.52	18611.62
Uttarakhand	2081.15	99.00	0.00	450.00	549.00	0.00	931.80	3561.95
Central Sector (NR)	11534.52	13200.00	0.00	2344.06	15544.06	1620.00	379.00	29077.58
<b>Sub-Total (NR)</b>	<b>20360.77</b>	<b>49654.00</b>	<b>0.00</b>	<b>5781.26</b>	<b>55435.26</b>	<b>1620.00</b>	<b>27070.70</b>	<b>104486.73</b>
Chhattisgarh	120.00	16008.00	0.00	0.00	16008.00	0.00	869.08	16997.08
Gujarat	772.00	13992.00	0.00	6237.82	20229.82	0.00	16344.60	37346.42
Madhya Pradesh	1703.66	11795.00	0.00	0.00	11795.00	0.00	5168.88	18667.54
Maharashtra	3331.84	21016.00	0.00	1240.00	22256.00	0.00	10534.08	36121.92
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	40.72	40.72
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	20.34	68.34
Central Sector (WR)	1520.00	19000.00	0.00	3280.67	22280.67	1840.00	666.30	26306.97
<b>Sub-Total (WR)</b>	<b>7447.50</b>	<b>81811.00</b>	<b>0.00</b>	<b>10806.49</b>	<b>92617.49</b>	<b>1840.00</b>	<b>33649.46</b>	<b>135554.45</b>
Andhra Pradesh	1673.60	8200.55	36.80	4066.72	12304.07	0.00	8961.56	22939.23
Telangana	2479.93	6631.95	0.00	831.82	7463.77	0.00	4949.19	14892.89
Karnataka	3631.60	7080.00	25.20	0.00	7105.20	0.00	15904.59	26641.39
Kerala	1856.50	0.00	159.96	174.00	333.96	0.00	620.70	2811.16
Tamil Nadu	2178.20	7795.00	211.70	1027.18	9033.88	0.00	15916.71	27128.79
Puducherry	0.00	0.00	0.00	32.50	32.50	0.00	13.69	46.19
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	3.27	3.27
Central Sector (SR)	0.00	12890.00	0.00	359.58	13249.58	3320.00	541.90	17111.48
<b>Sub-Total (SR)</b>	<b>11819.83</b>	<b>42597.50</b>	<b>433.66</b>	<b>6491.80</b>	<b>49522.97</b>	<b>3320.00</b>	<b>46911.61</b>	<b>111574.41</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	387.35	387.35
Jharkhand	130.00	2250.00	0.00	0.00	2250.00	0.00	97.14	2477.14
Odisha	2074.22	4940.00	0.00	0.00	4940.00	0.00	607.09	7621.31
West Bengal	986.00	6847.00	0.00	100.00	6947.00	0.00	586.95	8519.95
Sikkim	872.00	0.00	0.00	0.00	0.00	0.00	56.79	928.79
A. & N. Islands	0.00	0.00	40.05	0.00	40.05	0.00	29.64	69.69
Central Sector (ER)	1005.20	21850.00	0.00	0.00	21850.00	0.00	15.10	22870.30
<b>Sub-Total (ER)</b>	<b>5067.42</b>	<b>35887.00</b>	<b>40.05</b>	<b>100.00</b>	<b>36027.048</b>	<b>0.00</b>	<b>1780.06</b>	<b>42874.53</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	142.34	142.34
Assam	100.00	0.00	0.00	329.36	329.36	0.00	129.05	558.41
Manipur	0.00	0.00	36.00	0.00	36.00	0.00	17.70	53.70
Meghalaya	322.00	0.00	0.00	0.00	0.00	0.00	50.48	372.48
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	44.37	44.37
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	33.71	33.71
Tripura	0.00	0.00	0.00	137.00	137.00	0.00	25.90	162.90
Central Sector (NER)	1605.00	750.00	0.00	1253.60	2003.60	0.00	30.00	3638.60
<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>473.55</b>	<b>5006.50</b>
<b>Central Sector All India</b>	<b>15664.72</b>	<b>67690.00</b>	<b>0.00</b>	<b>7237.91</b>	<b>74927.91</b>	<b>6780.00</b>	<b>1632.30</b>	<b>99004.93</b>
<b>Total All India</b>	<b>46722.52</b>	<b>210699.50</b>	<b>509.71</b>	<b>24899.51</b>	<b>236108.72</b>	<b>6780.00</b>	<b>109885.38</b>	<b>399496.61</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 31.03.2022**

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
<b>ELECTRICITY DEPARTMENTS/GOVERNMENT UNDERTAKINGS/CORPORATIONS/CENTRAL SECTOR</b>								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	1800.40	1800.40	0.00	0.00	1800.40
Haryana	200.00	2510.00	0.00	150.00	2660.00	0.00	69.30	2929.30
Himachal Pradesh	805.60	0.00	0.00	0.00	0.00	0.00	256.61	1062.21
UT of J&K and Ladakh	1230.00	0.00	0.00	175.00	175.00	0.00	136.82	1541.82
Punjab	1243.40	1760.00	0.00	150.00	1910.00	0.00	127.80	3281.20
Rajasthan	433.00	7830.00	0.00	603.80	8433.80	0.00	23.85	8890.65
Uttar Pradesh	724.1	6129.00	0.00	0.00	6129.00	0.00	49.10	6902.20
Uttarakhand	1252.15	0.00	0.00	0.00	0.00	0.00	72.37	1324.52
Central Sector (NR)	11534.52	13200.00	0.00	2344.06	15544.06	1620.00	379.00	29077.58
<b>Sub Total (NR)</b>	<b>17422.77</b>	<b>31429.00</b>	<b>0.00</b>	<b>5223.26</b>	<b>36652.26</b>	<b>1620.00</b>	<b>1114.85</b>	<b>56809.88</b>
Chhattisgarh	120.00	2840.00	0.00	0.00	2840.00	0.00	11.05	2971.05
Gujarat	772.00	5410.00	0.00	2177.82	7587.82	0.00	92.79	8452.61
Madhya Pradesh	1703.66	5400.00	0.00	0.00	5400.00	0.00	83.96	7187.62
Maharashtra	2850.84	9540.00	0.00	672.00	10212.00	0.00	388.13	13450.97
Goa	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
Central Sector (WR)	1520.00	19000.00	0.00	3280.67	22280.67	1840.00	666.30	26306.97
<b>Sub Total (WR)</b>	<b>6966.50</b>	<b>42190.00</b>	<b>0.00</b>	<b>6130.49</b>	<b>48320.49</b>	<b>1840.00</b>	<b>1242.28</b>	<b>58369.27</b>
Andhra Pradesh	1673.60	5010.00	0.00	235.40	5245.40	0.00	56.18	6975.18
Telangana	2479.93	5242.50	0.00	0.00	5242.50	0.00	41.22	7763.65
Karnataka	3631.60	5020.00	0.00	0.00	5020.00	0.00	193.89	8845.49
Kerala	1856.50	0.00	159.96	0.00	159.96	0.00	183.90	2200.36
Tamil Nadu	2178.20	4320.00	0.00	524.08	4844.08	0.00	122.70	7144.98
Puducherry	0.00	0.00	0.00	32.50	32.50	0.00	0.00	32.50
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Central Sector (SR)	0.00	12890.00	0.00	359.58	13249.58	3320.00	541.90	17111.48
<b>Sub Total (SR)</b>	<b>11819.83</b>	<b>32482.50</b>	<b>159.96</b>	<b>1151.56</b>	<b>33794.02</b>	<b>3320.00</b>	<b>1139.78</b>	<b>50073.63</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	70.70	70.70
Jharkhand	130.00	420.00	0.00	0.00	420.00	0.00	4.05	554.05
Odisha	2074.22	1740.00	0.00	0.00	1740.00	0.00	26.30	3840.52
West Bengal	986.00	4810.00	0.00	100.00	4910.00	0.00	121.95	6017.95
Sikkim	360.00	0.00	0.00	0.00	0.00	0.00	52.11	412.11
A. & N. Islands	0.00	0.00	40.05	0.00	40.05	0.00	5.25	45.30
Central Sector (ER)	1005.20	21850.00	0.00	0.00	21850.00	0.00	15.10	22870.30
<b>Sub Total (ER)</b>	<b>4555.42</b>	<b>28820.00</b>	<b>40.05</b>	<b>100.00</b>	<b>28960.05</b>	<b>0.00</b>	<b>295.46</b>	<b>33810.93</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	107.11	107.11
Assam	100.00	0.00	0.00	329.36	329.36	0.00	5.01	434.37
Manipur	0.00	0.00	36.00	0.00	36.00	0.00	5.45	41.45
Meghalaya	322.00	0.00	0.00	0.00	0.00	0.00	32.53	354.53
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	36.47	36.47
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	30.67	30.67
Tripura	0.00	0.00	0.00	137.00	137.00	0.00	16.01	153.01
<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>3638.60</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>4796.20</b>
<b>Total-I, (All India)</b>	<b>42791.52</b>	<b>135671.50</b>	<b>236.01</b>	<b>14325.27</b>	<b>150232.77</b>	<b>6780.00</b>	<b>4055.61</b>	<b>203859.91</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 31.03.2022**

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Thermal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
<b>PRIVATE SECTOR</b>								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	55.17	55.17
Delhi	0.00	447.00	0.00	108.00	555.00	0.00	270.12	825.12
Haryana	0.00	2164.00	0.00	0.00	2164.00	0.00	1167.83	3331.83
Himachal Pradesh	2109.00	0.00	0.00	0.00	0.00	0.00	783.86	2892.86
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	102.23	102.23
Punjab	0.00	5014.00	0.00	0.00	5014.00	0.00	1640.02	6654.02
Rajasthan	0.00	3196.00	0.00	0.00	3196.00	0.00	16672.77	19868.77
Uttar Pradesh	0.00	7305.00	0.00	0.00	7305.00	0.00	4404.42	11709.42
Uttarakhand	829.00	99.00	0.00	450.00	549.00	0.00	859.43	2237.43
Chhattisgarh	0.00	13168.00	0.00	0.00	13168.00	0.00	858.03	14026.03
Gujarat	0.00	8582.00	0.00	4060.00	12642.00	0.00	16251.81	28893.81
Madhya Pradesh	0.00	6395.00	0.00	0.00	6395.00	0.00	5084.92	11479.92
Maharashtra	481.00	11476.00	0.00	568.00	12044.00	0.00	10145.95	22670.95
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	40.72	40.72
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	20.29	68.29
Andhra Pradesh	0.00	3190.55	36.80	3831.32	7058.67	0.00	8905.38	15964.06
Telangana	0.00	1389.45	0.00	831.82	2221.27	0.00	4907.97	7129.24
Karnataka	0.00	2060.00	25.20	0.00	2085.20	0.00	15710.705	17795.91
Kerala	0.00	0.00	0.00	174.00	174.00	0.00	436.80	610.80
TamilNadu	0.00	3475.00	211.70	503.10	4189.80	0.00	15794.01	19983.81
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	13.69	13.69
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	3.27	3.27
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	316.65	316.65
Jharkhand	0.00	1830.00	0.00	0.00	1830.00	0.00	93.09	1923.09
Odisha	0.00	3200.00	0.00	0.00	3200.00	0.00	580.79	3780.79
West Bengal	0.00	2037.00	0.00	0.00	2037.00	0.00	465	2502.00
Sikkim	512.00	0.00	0.00	0.00	0.00	0.00	4.68	516.68
A. & N. Islands	0.00	0.00	0.00	0.00	0.00	0.00	24.39	24.39
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	35.23	35.23
Assam	0.00	0.00	0.00	0.00	0.00	0.00	124.04	124.04
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	12.25	12.25
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	17.95	17.95
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	7.90	7.90
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	3.04	3.04
<b>Tripura</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>9.89</b>	<b>9.89</b>
<b>Total-II, (All India)</b>	<b>3931.00</b>	<b>75028.00</b>	<b>273.70</b>	<b>10574.24</b>	<b>85875.95</b>	<b>0.00</b>	<b>105829.76</b>	<b>195636.71</b>
<b>All India Total (I+II)</b>	<b>46722.52</b>	<b>210699.50</b>	<b>509.71</b>	<b>24899.51</b>	<b>236108.72</b>	<b>6780.00</b>	<b>109885.38</b>	<b>399496.61</b>

**TABLE 3.6**  
**ALL INDIA INSTALLED CAPACITY ADDITION**  
**UTILITIES**  
**DURING 2021-22**

Sl. No.	State/UT	Owner	Name of project	Dt. of Commissioning	No. of units	Unit Size (MW)	Total Capacity (MW)
<b>A</b>	<b>Hydro</b>						
	Sikkim	MBPCL	RONGNICHU HPS	6/25/2021	2	56.5	113
	Himachal Pradesh	HSPCL	SORANG HPS	9/23/2021	2	50	100
		GBHHPPL	BAJOLI HOLI HPS	9/21/2021	3	60	180
				3/25/2022		60	
				3/27/2022		60	
				3/28/2022		60	
	<b>Hydro Total</b>						<b>393.00</b>
<b>B</b>	<b>Steam</b>						
	Rajasthan	RRVUNL	SURATGARH STPS	10/6/2021	1	660.00	660.00
	Uttar Pradesh	UPRVUNL	HARDUAGANJ TPS	1/29/2022	1	660.00	660.00
	Telangana	TSGENCO	BHADRADRI TPP	1/9/2022	1	270.00	270.00
	Tamil Nadu	SPPL	TUTICORIN TPP ST-IV	11/30/2021	1	525.00	525.00
	Bihar	NTPC LIMITED	BARH I	10/30/2021	1	660.00	660.00
	Bihar	BRBCL	NABINAGAR TPP	11/10/2021	1	250.00	250.00
	Bihar	NPGL	NABINAGAR STPP	3/6/2022	1	660.00	660.00
	Odisha	NTPC LIMITED	DARLIPALI STPS	7/21/2021	1	800.00	800.00
	<b>Steam Total</b>						<b>4485.00</b>
	<b>Grand Total (A+B)</b>						<b>4878.00</b>

(MW)

**TABLE 3.7**  
**ALL INDIA INSTALLED CAPACITY ADDITION**  
**MODE-WISE/STATE-WISE/ REGION-WISE**  
**2021-22**

(MW)

State/UT	Hydro	Thermal				Nuclear	R E S	Total (2+6+7+8)
		Steam	Diesel	Gas	Total (Thermal (3+4+5))			
1	2	3	4	5	6	7	8	9
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	10.01	10.01
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	25.15	25.15
Haryana	0.00	0.00	0.00	0.00	0.00	0.00	548.94	548.94
Himachal Pradesh	280.00	0.00	0.00	0.00	0.00	0.00	52.43	332.43
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	32.34	32.34
Punjab	0.00	0.00	0.00	0.00	0.00	0.00	150.57	150.57
Rajasthan	0.00	660.00	0.00	0.00	660.00	0.00	6836.12	7496.12
Uttar Pradesh	0.00	660.00	0.00	0.00	660.00	0.00	604.66	1264.66
Uttarakhand	0.00	0.00	0.00	0.00	0.00	0.00	218.85	218.85
Central Sector (NR)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub Total (NR)</b>	<b>280.00</b>	<b>1320.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1320.00</b>	<b>0.00</b>	<b>8479.07</b>	<b>10079.07</b>
Chhattisgarh	0.00	0.00	0.00	0.00	0.00	0.00	295.70	295.70
Gujarat	0.00	0.00	0.00	0.00	0.00	0.00	3435.27	3435.27
Madhya Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	263.31	263.31
Maharashtra	0.00	0.00	0.00	0.00	0.00	0.00	390.21	390.21
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17
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	12.51	12.51
Central Sector (WR)	0.00	0.00	0.00	0.00	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>	<b>0.00</b>	<b>0.00</b>	<b>4397.17</b>	<b>4397.17</b>
Andhra Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	242.97	242.97
Telangana	0.00	270.00	0.00	0.00	270.00	0.00	581.20	851.20
Karnataka	0.00	0.00	0.00	0.00	0.00	0.00	441.79	441.79
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	118.91	118.91
Tamil Nadu	0.00	525.00	0.00	0.00	525.00	0.00	918.96	1443.96
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	4.36	4.36
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	2.52	2.52
Central Sector (SR)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub Total (SR)</b>	<b>0.00</b>	<b>795.00</b>	<b>0.00</b>	<b>0.00</b>	<b>795.00</b>	<b>0.00</b>	<b>2310.71</b>	<b>3105.71</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	32.44	32.44
Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	36.73	36.73
Odisha	0.00	0.00	0.00	0.00	0.00	0.00	67.52	67.52
West Bengal	0.00	0.00	0.00	0.00	0.00	0.00	18.69	18.69
Sikkim	113.00	0.00	0.00	0.00	0.00	0.00	4.61	117.61
A & N. Islands	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.27
Central Sector (ER)	0.00	2370.00	0.00	0.00	2370.00	0.00	0.00	2370.00
<b>Sub Total (ER)</b>	<b>113.00</b>	<b>2370.00</b>	<b>0.00</b>	<b>0.00</b>	<b>2370.00</b>	<b>0.00</b>	<b>160.26</b>	<b>2643.26</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	5.62	5.62
Assam	0.00	0.00	0.00	0.00	0.00	0.00	74.95	74.95
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	5.89	5.89
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	4.03	4.03
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	6.37	6.37
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	2.04	2.04
Tripura	0.00	0.00	0.00	0.00	0.00	0.00	5.48	5.48
<b>Central Sector (NER)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Sub Total (NER)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>104.38</b>	<b>104.38</b>
<b>Total (All India)</b>	<b>393.00</b>	<b>4485.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4485.00</b>	<b>0.00</b>	<b>15451.59</b>	<b>20329.59</b>

**TABLE 3.8**  
**DETAILS OF ALL INDIA INSTALLED CAPACITY RETIRED**  
**STATE-WISE/MODE-WISE**  
**2021-22**

(MW)

Sl. No.	State/UT	Ownership	Name of the Station	Unit No.	Hydro	Steam	Diesel	Gas	Total (Thermal) (7+8+9)	Nuclear	R E S	Total (6+10+11+12)				
1	2	3	4	5	6	7	8	9	10	11	12	13				
1	Jharkhand	DVC	BOKARO 'B' TPS	3	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00				
2	Odisha	NTPC	TALCHER (OLD) TPS	1	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00				
3	Odisha	NTPC	TALCHER (OLD) TPS	2	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00				
4	Odisha	NTPC	TALCHER (OLD) TPS	3	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00				
5	Odisha	NTPC	TALCHER (OLD) TPS	4	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00				
6	Odisha	NTPC	TALCHER (OLD) TPS	5	0.00	110.00	0.00	0.00	110.00	0.00	0.00	110.00				
7	Odisha	NTPC	TALCHER (OLD) TPS	6	0.00	110.00	0.00	0.00	110.00	0.00	0.00	110.00				
8	Maharashtra	MAHAGENCO	KORADI TPS	7	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00				
9	Assam	DLPSC	ADAMTILLA CCPP	1	0.00	0.00	0.00	3.00	3.00	0.00	0.00	3.00				
10	Assam	DLPSC	ADAMTILLA CCPP	2	0.00	0.00	0.00	3.00	3.00	0.00	0.00	3.00				
11	Assam	DLPSC	ADAMTILLA CCPP	3	0.00	0.00	0.00	3.00	3.00	0.00	0.00	3.00				
12	Assam	DLPSC	BASKHANDI CCPP	1	0.00	0.00	0.00	3.50	3.50	0.00	0.00	3.50				
13	Assam	DLPSC	BASKHANDI CCPP	2	0.00	0.00	0.00	3.50	3.50	0.00	0.00	3.50				
14	Assam	DLPSC	BASKHANDI CCPP	3	0.00	0.00	0.00	3.50	3.50	0.00	0.00	3.50				
15	Assam	DLPSC	BASKHANDI CCPP	4	0.00	0.00	0.00	5.00	5.00	0.00	0.00	5.00				
16	Bihar	KBUNL	MUZAFFARPUR TPS	1	0.00	110.00	0.00	0.00	110.00	0.00	0.00	110.00				
17	Bihar	KBUNL	MUZAFFARPUR TPS	2	0.00	110.00	0.00	0.00	110.00	0.00	0.00	110.00				
18	West Bengal	WBPDC	BANDEL TPS	1	0.00	60.00	0.00	0.00	60.00	0.00	0.00	60.00				
19	West Bengal	WBPDC	KOLAGHAT TPS	1	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00				
20	West Bengal	WBPDC	KOLAGHAT TPS	2	0.00	210.00	0.00	0.00	210.00	0.00	0.00	210.00				
<b>Net Deletion/Retirement</b>										<b>0.00</b>	<b>1580.00</b>	<b>0.00</b>	<b>24.50</b>	<b>1604.50</b>	<b>0.00</b>	<b>1604.50</b>

**TABLE 3.8 (CONTD.)**  
**DETAILS OF ALL INDIA INSTALLED CAPACITY REMOVED DUE TO CHANGE FROM IPP TO CPP**  
**STATE-WISE/MODE-WISE**  
**2021-22**

Sl. No.	State/UT	Ownership	Name of the Station	Unit No.	Hydro	Steam	Diesel	Gas	Total (Thermal) (7+8+9)	Nuclear	RES	Total (6+10+11+12)
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Maharashtra	JSWEL	JSW RATNAGIRI TPP	2	0.00	300	0.00	0.00	300	0.00	0.00	300
2	Maharashtra	JSWEL	JSW RATNAGIRI TPP	3	0.00	300	0.00	0.00	300	0.00	0.00	300
3	Maharashtra	JSWEL	JSW RATNAGIRI TPP	4	0.00	300	0.00	0.00	300	0.00	0.00	300
4	Odisha	VEDANTA	VEDANTA TPP	1	0.00	600	0.00	0.00	600	0.00	0.00	600
<b>Net Capacity removed</b>						<b>1500.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1500.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1500.00</b>

**TABLE 3.8 (CONTD.)**  
**DETAILS OF ALL INDIA INSTALLED CAPACITY UPDATED**  
**STATE-WISE/MODE-WISE**  
**2021-22**

Sl. No.	State/UT	Ownership	Name of the Station	Unit No.	Hydro	Steam	Diesel	Gas	Total (Thermal) (7+8+9)	Nuclear	RES	Total (6+10+11+12)
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Himachal Pradesh	HPCL	KARCHAM WANGTOO HPS	1,2,3,4	45.00	0.00	0.00	0.00	0	0.00	0.00	45.00
	Karnataka	KPCL	KALINADI HPS	1,2,3	45.00	0.00	0.00	0.00	0	0.00	0.00	45.00
	Odisha	OHPC	HIRAKUD HPS	5,6	12.30	0.00	0.00	0.00	0	0.00	0.00	12.30
	Himachal Pradesh	BBMB	BHAKRA LEFT HPS	3	18.00	0.00	0.00	0.00	0	0.00	0.00	18.00
<b>Net Upration</b>						<b>120.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>120.30</b>

**TABLE 3.9**  
**ALL INDIA INSTALLED CAPACITY**  
**NET ADDITION/DELETION MODEWISE**  
**2021-22**

(MW)

Activity	Hydro	Thermal				Nuclear	RES	Total (2+6+7+8)
		Steam	Diesel	Gas	Total(Thermal) (3+4+5)			
1	2	3	4	5	6	7	8	9
Gross Addition	393.00	4485.00	0.00	0.00	4485.00	0.00	15451.59	20329.59
Deletion/Retirement	0.00	-1580.00	0.00	-24.50	-1604.50	0.00	0.00	-1604.50
Capacity removed due to change from IPP to CPP	0.00	-1500.00	0.00	0.00	-1500.00	0.00	0.00	-1500.00
Up-rating	120.30	0.00	0.00	0.00	0.00	0.00	0.00	120.30
De-rating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Net Addition</b>	<b>513.30</b>	<b>1405.00</b>	<b>0.00</b>	<b>-24.50</b>	<b>1380.50</b>	<b>0.00</b>	<b>15451.59</b>	<b>17345.39</b>



**TABLE 3.10**  
**SHARE OF PARTICIPATING STATES IN JOINTLY OWNED**  
**POWER STATIONS**  
**AS ON 31.03.2022**

( MW)

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

**TABLE 3.11**  
**STATE-WISE INSTALLED CAPACITY OF RENEWABLE POWER AS ON 31.03.2022**

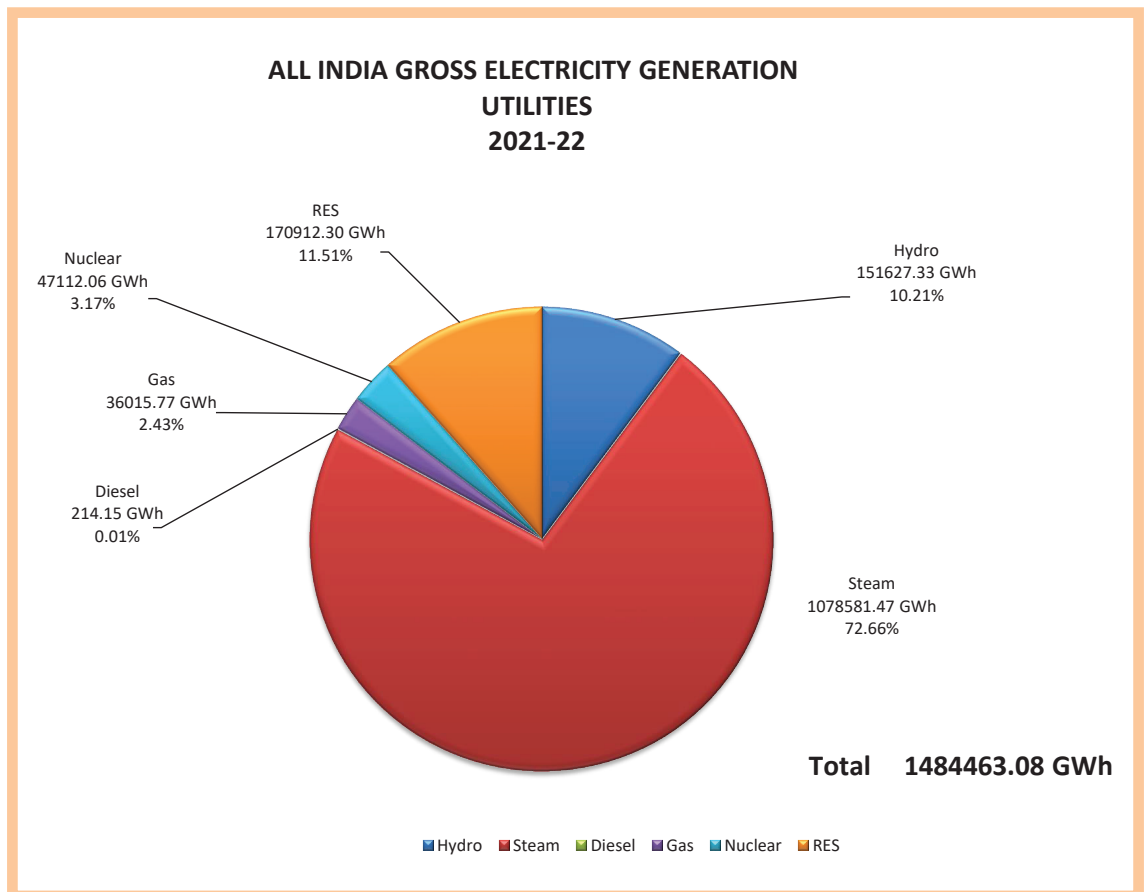
S. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio-Power					Solar Power	Total Capacity
				BM Power/ Bagasse Cogen.	BM Cogen. (Non-Ba-gasse)	Waste to Energy	Waste to Energy (Off-grid)	Bio Power Total		
		(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
1	Andhra Pradesh	162.11	4096.65	378.10	105.57	53.16	29.21	566.04	4386.76	9211.56
2	Arunachal Pradesh	131.11						0.00	11.23	142.34
3	Assam	34.11			2.00			2.00	117.94	154.05
4	Bihar	70.70		112.50	12.20		1.32	126.02	190.63	387.35
5	Chhatisgarh	76.00		272.09	2.50		0.41	275.00	518.08	869.08
6	Goa	0.05				0.34		0.34	19.95	20.34
7	Gujarat	89.39	9209.22	65.30	12.00	7.50	24.46	109.26	7180.03	16587.90
8	Haryana	73.50		151.40	89.26	11.20	6.14	258.00	910.63	1242.13
9	Himachal Pradesh	954.11			9.20		1.00	10.20	76.16	1040.47
10	Jammu & Kashmir	144.68						0.00	46.93	191.61
11	Jharkhand	4.05			4.30			4.30	88.79	97.14
12	Karnataka	1280.73	5130.90	1867.10	20.20	1.00	13.85	1902.15	7590.81	15904.59
13	Kerala	242.52	62.50		2.27		0.23	2.50	363.18	670.70
14	Ladakh	39.64						0.00	7.80	47.44
15	Madhya Pradesh	99.71	2519.89	92.50	14.85	15.40	8.58	131.33	2717.95	5468.88
16	Maharashtra	381.08	5012.83	2568.00	16.40	12.59	35.16	2632.15	2631.02	10657.08
17	Manipur	5.45						0.00	12.25	17.70
18	Meghalaya	32.53			13.80			13.80	4.15	50.48
19	Mizoram	36.47						0.00	7.90	44.37
20	Nagaland	30.67						0.00	3.04	33.71
21	Odisha	106.63		50.40	8.82			59.22	451.24	617.09
22	Punjab	176.10		299.50	173.95	10.75	7.45	491.65	1100.07	1767.82
23	Rajasthan	23.85	4326.82	119.25	2.00		3.83	125.08	12564.87	17040.62
24	Sikkim	52.11						0.00	4.68	56.79
25	Tamil Nadu	123.05	9866.37	969.10	43.55	6.40	23.65	1042.70	5067.18	16099.30
26	Telangana	90.87	128.10	158.10	2.00	45.80	13.84	219.74	4520.48	4959.19
27	Tripura	16.01						0.00	14.89	30.90
28	Uttar Pradesh	49.10		1957.50	159.76		72.73	2189.99	2244.43	4483.52
29	Uttarakhand	218.82		72.72	57.50		9.22	139.44	573.54	931.80
30	West Bengal	98.50		300.00	19.92		2.53	322.45	166.00	586.95
31	Andaman & Nicobar	5.25						0.00	29.49	34.74
32	Chandigarh							0.00	55.17	55.17
33	Dadar & Nagar Haveli							0.00	5.46	5.46
34	Daman & Diu							0.00	40.72	40.72
35	Delhi					59.00		59.00	211.12	270.12
36	Lakshwadeep							0.00	3.27	3.27
37	Pondicherry							0.00	13.69	13.69
38	Others		4.30					0.00	45.01	49.31
	<b>Total (MW)</b>	<b>4848.90</b>	<b>40357.58</b>	<b>9433.56</b>	<b>772.05</b>	<b>223.14</b>	<b>253.61</b>	<b>10682.36</b>	<b>53996.54</b>	<b>109885.38</b>

## CHAPTER 4

## ELECTRICITY GENERATION

## Generation - Utilities

- The All India gross electricity generation by the Utilities during the year 2021-22 was 1484463.08 GWh as compared to 1373186.88 GWh during 2020-21.
- During the year 2021-22, the All India generation from utilities has shown an increase of 8.10%.
- During the year 2021-22, the generation from Hydro, Thermal, Nuclear and Renewable Energy Sources (excluding large hydro) has been 151627.33 GWh, 1114811.39 GWh, 47112.06 GWh and 170912.30 GWh respectively.
- The respective percentage of this generation with respect to gross generation from from Hydro, Thermal, Nuclear and Renewable Energy Sources (excluding large hydro) has been 10.21%, 75.10%, 3.17% & 11.51%.

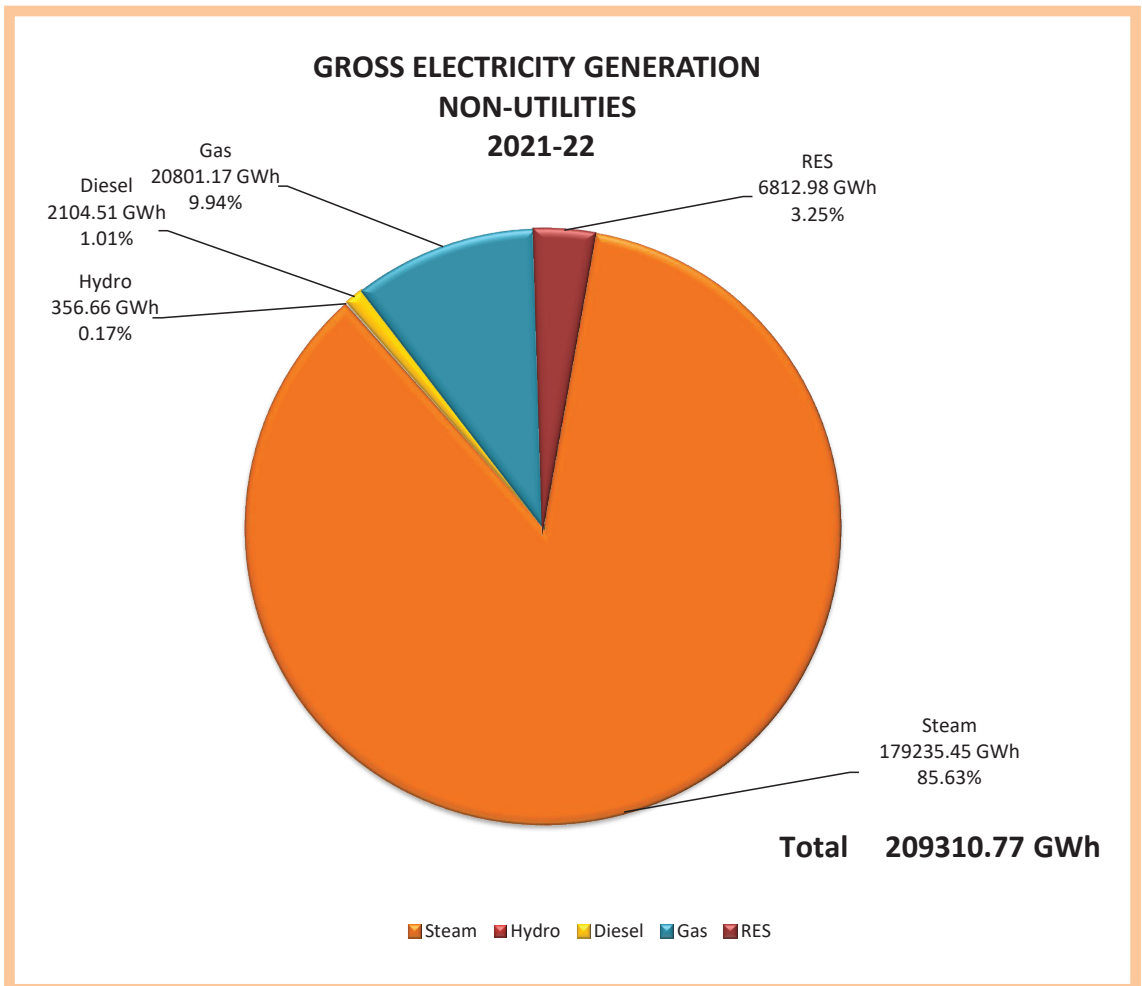




- Total generation from thermal sources (Coal, Lignite and Gas) is highest and about 75% of the total generation.
- The total generation from Renewable Energy Sources (RES) is about 12% in the FY 2021-22.
- The Gross Generation during 2021-22 in Central, State and Private Sector was 523676.97 GWh, 420326.73 GWh and 540459.37 GWh constituting 35.28%, 28.32% and 36.41% respectively.
- Private Sector has the largest share of more than 36% in total generation followed by Central Sector.
- During the period 2012-22 the Generation from RES (excluding large Hydro) has grown from 51226.05 GWh during FY2011-12 to 170912.30 GWh during FY2021-22 registering a CAGR of **12.80%**.

### Generation - Non Utilities (Only Captive)

- Besides electricity generation by the Public Utilities, during the year under review captive electricity generating plants of industries in the Industrial Sector having demand of 0.5 MW & above have produced 209310.77 GWh comprising 356.66 GWh from hydro, 179235.45 GWh from steam, 2104.51 GWh from diesel, 20801.17 GWh from gas and 6812.98 GWh from RES respectively.



- The captive power plant energy generation has registered a **decline of -6.90%** over previous year's generation mainly due to conversion of some Non-Utility plants to Utility Plants.

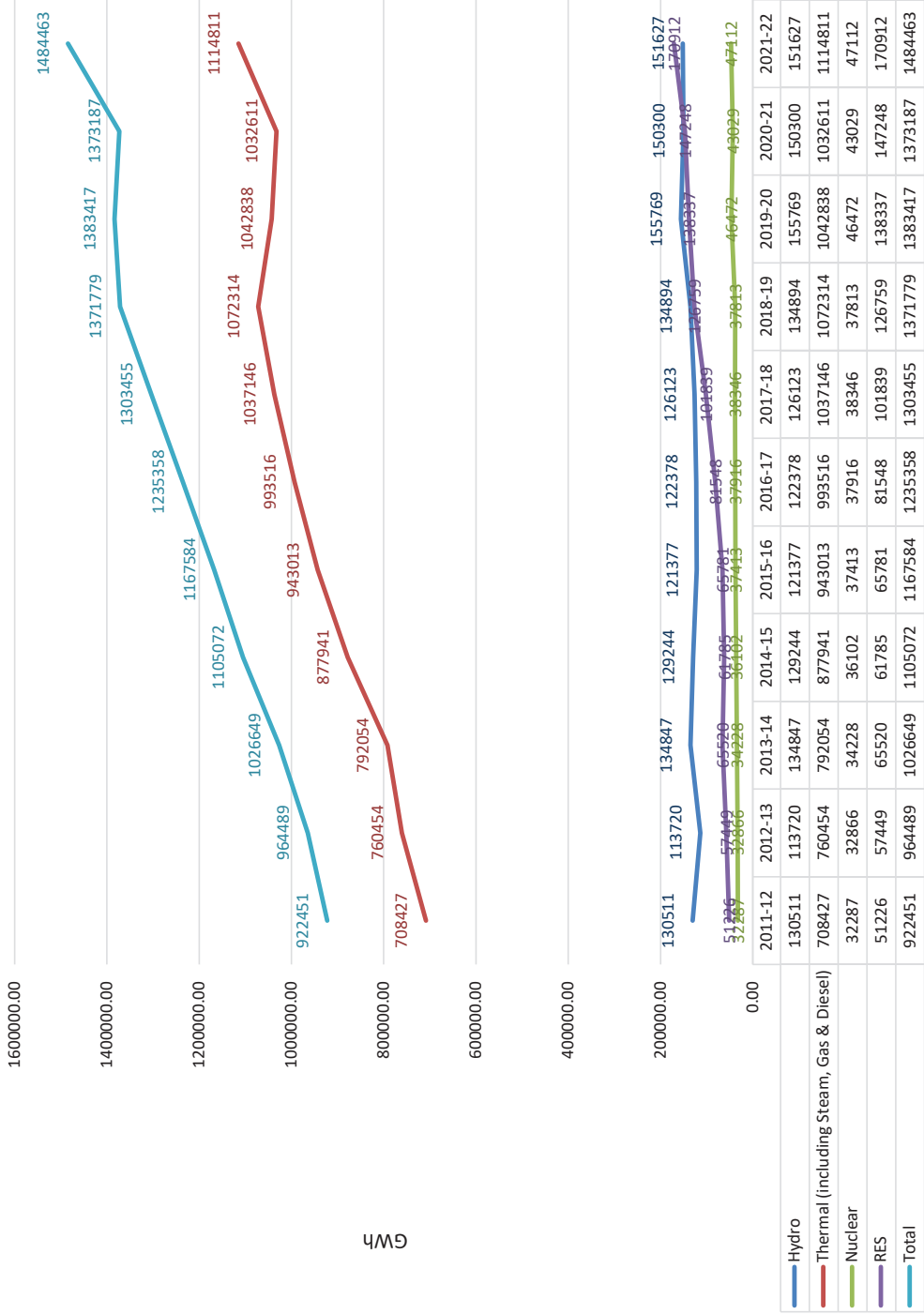
### Total Generation (Utilities + Non-Utilities)

- The total electricity produced in the country including non-utilities during the year 2021-22 was 1693773.84 GWh as compared to 1598014.28 GWh during the year 2020-21.
- Thus the electricity generation has registered an **increase of 5.99%** over previous year's generation.

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

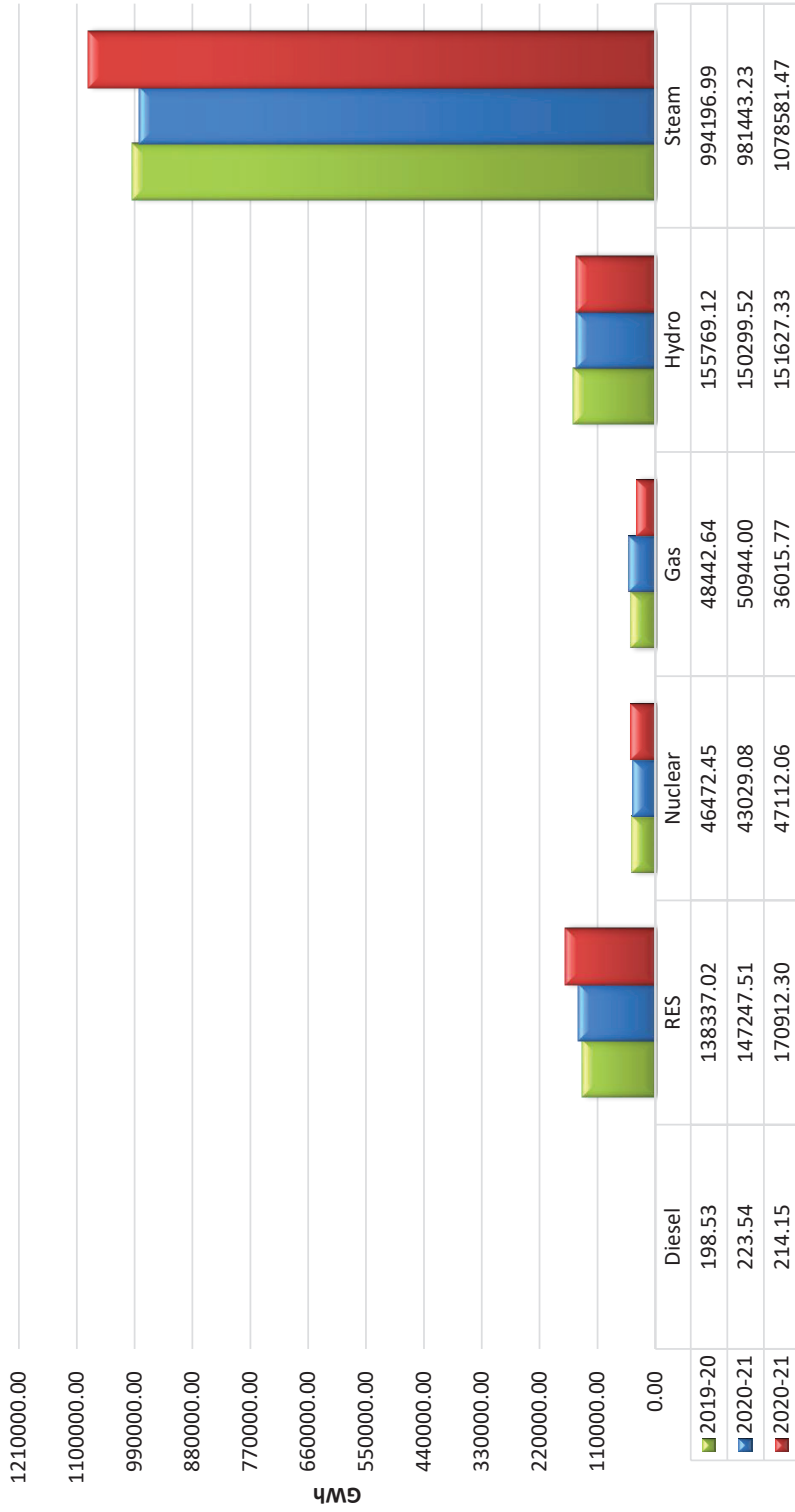


### Growth of Gross Electricity Generation-Mode-wise (Utilities)





### ALL INDIA GROSS ELECTRICITY GENERATION UTILITIES 2019-20 to 2021-22



**TABLE 4.1**  
**ALL INDIA GROSS ELECTRICITY GENERATION MODE-WISE**  
**UTILITIES & NON-UTILITIES**  
**2021-22**

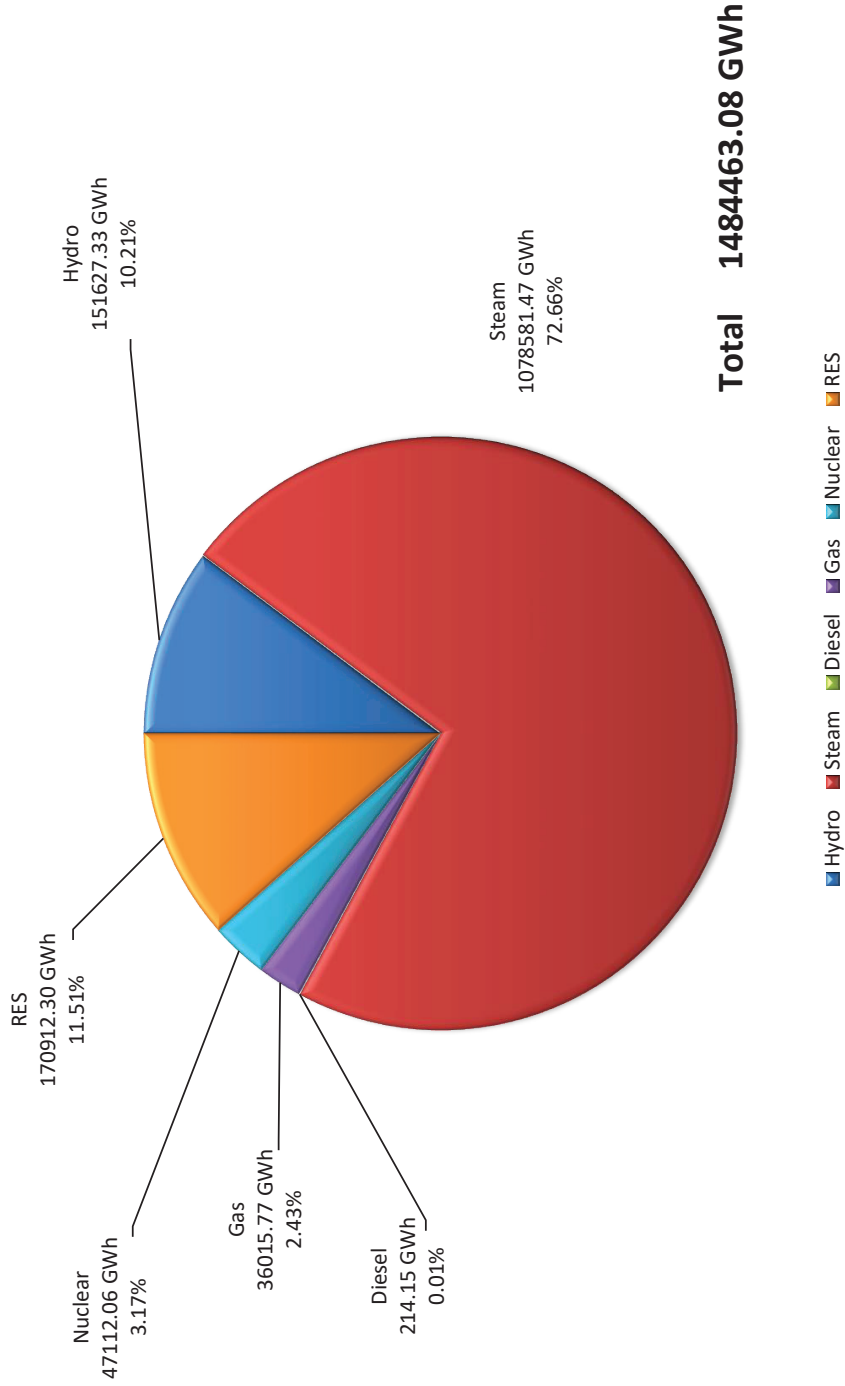
(GWh)

Sl. No.	Year	Gross Electricity Generation (GWh)									
		Hydro	Thermal				Total(Thermal) (4+5+6)	Nuclear	RES	Total (3+7+8+9)	
			Steam	Diesel	Gas	7					8
1	2	3	4	5	6	7	8	9	10		
( i )	<b>Utilities Gross Electrical Energy Generation</b>										
	2020-21	150299.52	981443.23	223.54	50944.00	1032610.77	43029.08	147247.51	1373186.88		
	2021-22	151627.33	1078581.47	214.15	36015.77	1114811.39	47112.06	170912.30	1484463.08		
	% Increase	0.88	9.90	-4.20	-29.30	7.96	9.49	16.07	8.10		
( ii )	<b>Non-utilities Gross Electrical Energy Generation (Industries Having Capacity 0.5 MW &amp; Above)</b>										
	2020-21	339.12	193142.60	2504.19	21683.55	217330.34	0.00	7157.94	224827.40		
	2021-22	356.66	179236.45	2104.51	20801.17	202141.13	0.00	6812.98	209310.77		
	% Increase	5.17	-7.20	-15.96	-4.07	-6.99	0.00	-4.82	-6.90		
( iii )	<b>Total Gross Electrical Energy Generation (i+ii)</b>										
	2020-21	150638.64	1174585.83	2727.73	72627.55	1249941.11	43029.08	154405.44	1598014.28		
	2021-22	151983.99	1257816.92	2318.66	56816.94	1316952.52	47112.06	177725.28	1693773.84		
	% Increase	0.89	7.09	-15.00	-21.77	5.36	9.49	15.10	5.99		





# ALL INDIA GROSS ELECTRICITY GENERATION UTILITIES 2021-22



**TABLE 4.2**  
**ALL INDIA GROSS ELECTRICITY GENERATION OWNERSHIP-WISE AND MODE-WISE**  
**UTILITIES**  
**2021-22**

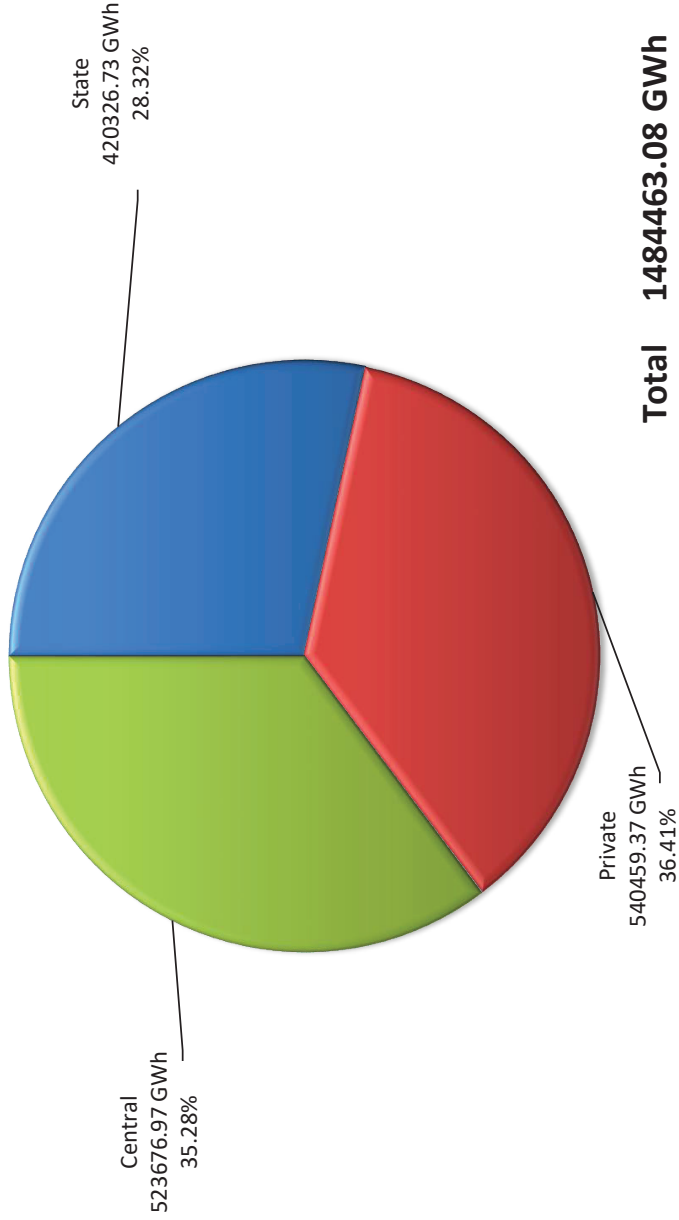
(GWh)

Sl. No.	State/UTs	Gross Electricity Generation (GWh)							
		Hydro	Thermal				Nuclear	RES	Total (2+6+7+8)
			Steam	Diesel	Gas	Total (Thermal) (3+4+5)			
1	1	2	4	5	6	7	8	9	
<b>1</b>	<b>Public Sector</b>								
1.1	Elect Deptt./Govt. Undertakings / Corpsns./Joint Ventures	78792.42	176.15	13602.24	336574.36	0.00	4959.95	420326.73	
1.2	Central Sector	58421.61	0.00	12724.10	414624.22	47112.06	3519.08	523676.97	
	<b>Sub-total Public Sector</b>	<b>137214.03</b>	<b>176.15</b>	<b>26326.34</b>	<b>751198.58</b>	<b>47112.06</b>	<b>8479.03</b>	<b>944003.70</b>	
<b>2</b>	<b>Private Sector</b>								
2.1	Private Companies	14413.30	38.00	9689.43	363612.81	0.00	162433.26	540459.37	
	<b>Sub total Private Sector</b>	<b>14413.30</b>	<b>38.00</b>	<b>9689.43</b>	<b>363612.81</b>	<b>0.00</b>	<b>162433.26</b>	<b>540459.37</b>	
	<b>Total All India</b>	<b>151627.33</b>	<b>214.15</b>	<b>36015.77</b>	<b>1114811.39</b>	<b>47112.06</b>	<b>170912.30</b>	<b>1484463.08</b>	

Note: BBMB & DVC Generation is considered under central sector



**ALL INDIA GROSS ELECTRICITY GENERATION SECTORWISE UTILITIES 2021-22**



■ State ■ Private ■ Central

**TABLE 4.3**  
**ALL INDIA GROSS ELECTRICITY GENERATION STATE-WISE**  
**UTILITIES**  
**2021-22**

(GWh)

State/UTs	2020-21	2021-22	% INCREASE
Chandigarh	10.16	14.19	39.72
Delhi	8838.24	8455.20	-4.33
Haryana	18795.96	22869.59	21.67
Himachal Pradesh	11685.15	11877.25	1.64
UT of J&K and Ladakh	5679.90	5764.50	1.49
Punjab	34768.99	38241.56	9.99
Rajasthan	67103.40	77808.33	15.95
Uttar Pradesh	72752.14	76053.22	4.54
Uttarakhand	10497.90	10992.22	4.71
Central Sector NR	126762.60	136225.46	7.47
<b>Sub Total (NR)</b>	<b>356894.44</b>	<b>388301.53</b>	<b>8.80</b>
Chhattisgarh	82503.60	85863.55	4.07
Gujarat	99244.17	76832.91	-22.58
Madhya Pradesh	68797.87	70592.33	2.61
Maharashtra	116856.68	126071.81	7.89
Daman & Diu	40.04	47.67	19.04
D. & N. Haveli	11.96	49.16	311.18
Goa	1.46	16.82	0.00
Central Sector WR	131634.82	144386.97	9.69
<b>Sub Total (WR)</b>	<b>499090.60</b>	<b>503861.22</b>	<b>0.96</b>
Andhra Pradesh	58101.84	62523.64	7.61
Telangana	38944.29	47398.19	21.71
Karnataka	55440.58	66202.94	19.41
Kerala	7710.99	10842.90	40.62
Tamil Nadu	52372.48	56917.47	8.68
Puducherry	238.54	263.37	10.41
Lakshadweep	60.43	59.21	-2.01
Central Sector SR	77077.59	92919.41	20.55
<b>Sub Total (SR)</b>	<b>289946.74</b>	<b>337127.13</b>	<b>16.27</b>
Bihar	226.61	239.83	5.84
Jharkhand	13228.84	14926.85	12.84
Odisha	32385.61	34703.99	7.16
West Bengal	40125.51	47235.88	17.72
Sikkim	3586.15	4075.86	13.66
A.& N. Islands	189.97	184.60	-2.83
Central Sector ER	118675.52	133225.75	12.26
<b>Sub Total (ER)</b>	<b>208418.20</b>	<b>234592.77</b>	<b>12.56</b>
Arunachal Pradesh	2.10	2.13	1.62
Assam	1377.20	2106.56	52.96
Manipur	7.71	6.72	-12.83
Meghalaya	1208.78	886.50	-26.66
Mizoram	33.52	28.09	-16.19
Nagaland	69.77	63.47	-9.02
Tripura	550.27	567.57	3.14
Central Sector NER	15587.55	16919.38	8.54
<b>Sub Total (NER)</b>	<b>18836.90</b>	<b>20580.43</b>	<b>9.26</b>
<b>Central Sector All India</b>	<b>469738.08</b>	<b>523676.97</b>	<b>11.48</b>
<b>Total All India</b>	<b>1373186.88</b>	<b>1484463.08</b>	<b>8.10</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**  
**2021-22**

(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	14.19	14.19
Delhi	0.00	3688.80	0.00	4307.67	7996.47	0.00	458.73	8455.20
Haryana	1052.80	20367.71	0.00	320.45	20688.16	0.00	1128.63	22869.59
Himachal Pradesh	9833.49	0.00	0.00	0.00	0.00	0.00	2043.76	11877.25
UT of J&K and Ladakh	5348.69	0.00	0.00	0.00	0.00	0.00	415.81	5764.50
Punjab	4466.12	30212.84	0.00	320.45	30533.29	0.00	3242.15	38241.56
Rajasthan	1052.11	52156.70	0.00	1392.87	53549.57	0.00	23206.65	77808.33
Uttar Pradesh	2492.50	67767.25	0.00	0.00	67767.25	0.00	5793.47	76053.22
Uttarakhand	8290.75	816.83	0.00	1012.32	1829.15	0.00	872.32	10992.22
Central Sector NR	45831.64	75694.87	0.00	1374.93	77069.80	11889.10	1434.92	136225.46
<b>Sub Total (NR)</b>	<b>78368.10</b>	<b>250705.00</b>	<b>0.00</b>	<b>8728.69</b>	<b>259433.69</b>	<b>11889.10</b>	<b>38610.64</b>	<b>388301.53</b>
Chhattisgarh	404.13	83521.21	0.00	0.00	83521.21	0.00	1938.21	85863.55
Gujarat	1153.18	44797.05	0.00	6702.39	51499.44	0.00	24180.29	76832.91
Madhya Pradesh	3159.47	59173.81	0.00	0.00	59173.81	0.00	8259.05	70592.33
Maharashtra	6276.34	101016.79	0.00	2980.27	103997.06	0.00	15798.41	126071.81
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	47.67	47.67
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	49.16	49.16
Goa	0.00	0.00	0.00	0.00	0.00	0.00	16.82	16.82
Central Sector WR	2645.41	124676.38	0.00	3795.38	128471.76	12105.65	1164.15	144386.97
<b>Sub Total (WR)</b>	<b>13638.53</b>	<b>413185.24</b>	<b>0.00</b>	<b>13478.04</b>	<b>426663.28</b>	<b>12105.65</b>	<b>51453.76</b>	<b>503861.22</b>
Andhra Pradesh	3421.39	41756.53	0.00	2094.34	43850.87	0.00	15251.38	62523.64
Telangana	5986.02	34100.06	0.00	0.00	34100.06	0.00	7312.11	47398.19
Karnataka	13772.48	23796.18	0.00	0.00	23796.18	0.00	28634.28	66202.94
Kerala	9317.44	0.00	0.00	0.00	0.00	0.00	1525.46	10842.90
Tamil Nadu	5212.07	26244.87	0.00	1732.22	27977.09	0.00	23728.31	56917.47
Puducherry	0.00	0.00	0.00	251.13	251.13	0.00	12.24	263.37
Lakshadweep	0.00	0.00	58.91	0.00	58.91	0.00	0.30	59.21
Central Sector SR	0.00	68934.96	0.00	0.00	68934.96	23117.31	867.14	92919.41
<b>Sub Total (SR)</b>	<b>37709.40</b>	<b>194832.60</b>	<b>58.91</b>	<b>4077.69</b>	<b>198969.20</b>	<b>23117.31</b>	<b>77331.22</b>	<b>337127.13</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	239.83	239.83
Jharkhand	302.49	14595.65	0.00	0.00	14595.65	0.00	28.71	14926.85
Odisha	4727.66	28908.42	0.00	0.00	28908.42	0.00	1067.91	34703.99
West Bengal	1630.14	43760.65	0.00	0.00	43760.65	0.00	1845.09	47235.88
Sikkim	4063.51	0.00	0.00	0.00	0.00	0.00	12.35	4075.86
A.& N. Islands	0.00	0.00	155.24	0.00	155.24	0.00	29.36	184.60
Central Sector ER	4814.69	128392.46	0.00	0.00	128392.46	0.00	18.60	133225.75
<b>Sub Total (ER)</b>	<b>15538.49</b>	<b>215657.18</b>	<b>155.24</b>	<b>0.00</b>	<b>215812.42</b>	<b>0.00</b>	<b>3241.86</b>	<b>234592.77</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	2.13	2.13
Assam	401.12	0.00	0.00	1611.96	1611.96	0.00	93.48	2106.56
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	6.72	6.72
Meghalaya	841.82	0.00	0.00	0.00	0.00	0.00	44.68	886.50
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	28.09	28.09
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	63.47	63.47
Tripura	0.00	0.00	0.00	565.60	565.60	0.00	1.97	567.57
Central Sector NER	5129.87	4201.45	0.00	7553.79	11755.24	0.00	34.27	16919.38
<b>Sub Total (NER)</b>	<b>6372.81</b>	<b>4201.45</b>	<b>0.00</b>	<b>9731.35</b>	<b>13932.80</b>	<b>0.00</b>	<b>274.82</b>	<b>20580.43</b>
<b>Central Sector All India</b>	<b>58421.61</b>	<b>401900.12</b>	<b>0.00</b>	<b>12724.10</b>	<b>414624.22</b>	<b>47112.06</b>	<b>3519.08</b>	<b>523676.97</b>
<b>Total All India</b>	<b>151627.33</b>	<b>1078581.47</b>	<b>214.15</b>	<b>36015.77</b>	<b>1114811.39</b>	<b>47112.06</b>	<b>170912.30</b>	<b>1484463.08</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**  
**2021-22**

(GWh)

State/UTs	Hydro	Thermal				Nuclear	R E S	Total
		Steam	Diesel	Gas	Total Ther- mal			
1	2	3	4	5	6(3+4+5)	7	8	9(2+6+7+8)
Electricity Departments/government Undertakings/corporations/central Sector								
Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	4307.67	4307.67	0.00	0.00	4307.67
Haryana	1052.80	8039.39	0.00	320.45	8359.84	0.00	224.19	9636.83
Himachal Pradesh	2516.54	0.00	0.00	0.00	0.00	0.00	537.76	3054.30
UT of J&K and Ladakh	5348.69	0.00	0.00	0.00	0.00	0.00	278.15	5626.84
Punjab	4466.12	3742.00	0.00	320.45	4062.45	0.00	713.66	9242.23
Rajasthan	1052.11	32500.56	0.00	1392.87	33893.43	0.00	7.85	34953.39
Uttar Pradesh	2492.50	27310.19	0.00	0.00	27310.19	0.00	162.54	29965.23
Uttarakhand	4987.18	0.00	0.00	0.00	0.00	0.00	108.05	5095.23
Central Sector (NR)	45831.64	75694.87	0.00	1374.93	77069.80	11889.10	1434.92	136225.46
<b>Sub Total (NR)</b>	<b>67747.58</b>	<b>147287.01</b>	<b>0.00</b>	<b>7716.37</b>	<b>155003.38</b>		<b>3467.12</b>	<b>238107.18</b>
Chhattisgarh	404.13	17513.91	0.00	0.00	17513.91	0.00	27.00	17945.04
Gujarat	1153.18	23151.22	0.00	785.20	23936.42	0.00	180.10	25269.70
Madhya Pradesh	3159.47	21007.73	0.00	0.00	21007.73	0.00	186.46	24353.66
Maharashtra	4652.41	47635.89	0.00	2069.90	49705.79	0.00	647.96	55006.16
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)	2645.41	124676.38	0.00	3795.38	128471.76	12105.65	1164.15	144386.97
<b>Sub Total (WR)</b>	<b>12014.60</b>	<b>233985.13</b>	<b>0.00</b>	<b>6650.48</b>	<b>240635.61</b>		<b>2205.66</b>	<b>266961.52</b>
Andhra Pradesh	3421.39	24092.11	0.00	516.74	24608.85	0.00	128.72	28158.96
Telangana	5986.02	34100.06	0.00	0.00	34100.06	0.00	41.72	40127.80
Karnataka	13772.48	18697.96	0.00	0.00	18697.96	0.00	365.88	32836.32
Kerala	9317.44	0.00	0.00	0.00	0.00	0.00	660.78	9978.22
Tamil Nadu	5212.07	20391.19	0.00	1460.27	21851.46	0.00	292.34	27355.87
Puducherry	0.00	0.00	0.00	251.13	251.13	0.00	0.00	251.13
Lakshadweep	0.00	0.00	58.91	0.00	58.91	0.00	0.00	58.91
Central Sector (SR)	0.00	68934.96	0.00	0.00	68934.96	23117.31	867.14	92919.41
<b>Sub Total (SR)</b>	<b>37709.40</b>	<b>166216.28</b>	<b>58.91</b>	<b>2228.14</b>	<b>168503.33</b>		<b>2356.58</b>	<b>231686.62</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	8.77	8.77
Jharkhand	302.49	1767.12	0.00	0.00	1767.12	0.00	10.49	2080.10
Odisha	4727.66	10199.41	0.00	0.00	10199.41	0.00	49.06	14976.13
West Bengal	1630.14	32647.23	0.00	0.00	32647.23	0.00	160.48	34437.85
Sikkim	1894.66	0.00	0.00	0.00	0.00	0.00	12.35	1907.01
A. & N. Islands	0.00	0.00	117.24	0.00	117.24	0.00	13.26	130.50
Central Sector (ER)	4814.69	128392.46	0.00	0.00	128392.46	0.00	18.60	133225.75
<b>Sub Total (ER)</b>	<b>13369.64</b>	<b>173006.22</b>	<b>117.24</b>	<b>0.00</b>	<b>173123.46</b>	<b>0.00</b>	<b>273.02</b>	<b>186766.12</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.33
Assam	401.12	0.00	0.00	1611.96	1611.96	0.00	6.51	2019.59
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	841.82	0.00	0.00	0.00	0.00	0.00	44.21	886.03
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	26.41	26.41
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	63.47	63.47
Tripura	0.00	0.00	0.00	565.60	565.60	0.00	1.44	567.04
<b>Central Sector (NER)</b>	<b>5129.87</b>	<b>4201.45</b>	<b>0.00</b>	<b>7553.79</b>	<b>11755.24</b>	<b>0.00</b>	<b>34.27</b>	<b>16919.38</b>
<b>Sub Total (NER)</b>	<b>6372.81</b>	<b>4201.45</b>	<b>0.00</b>	<b>9731.35</b>	<b>13932.80</b>	<b>0.00</b>	<b>176.65</b>	<b>20482.26</b>
<b>Total-I, (All India)</b>	<b>137214.03</b>	<b>724696.09</b>	<b>176.15</b>	<b>26326.34</b>	<b>751198.58</b>		<b>8479.03</b>	<b>944003.70</b>

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

**TABLE 4.6**  
**ALL INDIA GROSS ELECTRICITY GENERATION BY PRIVATE SECTOR**  
**MODEWISE**  
**2021-22**

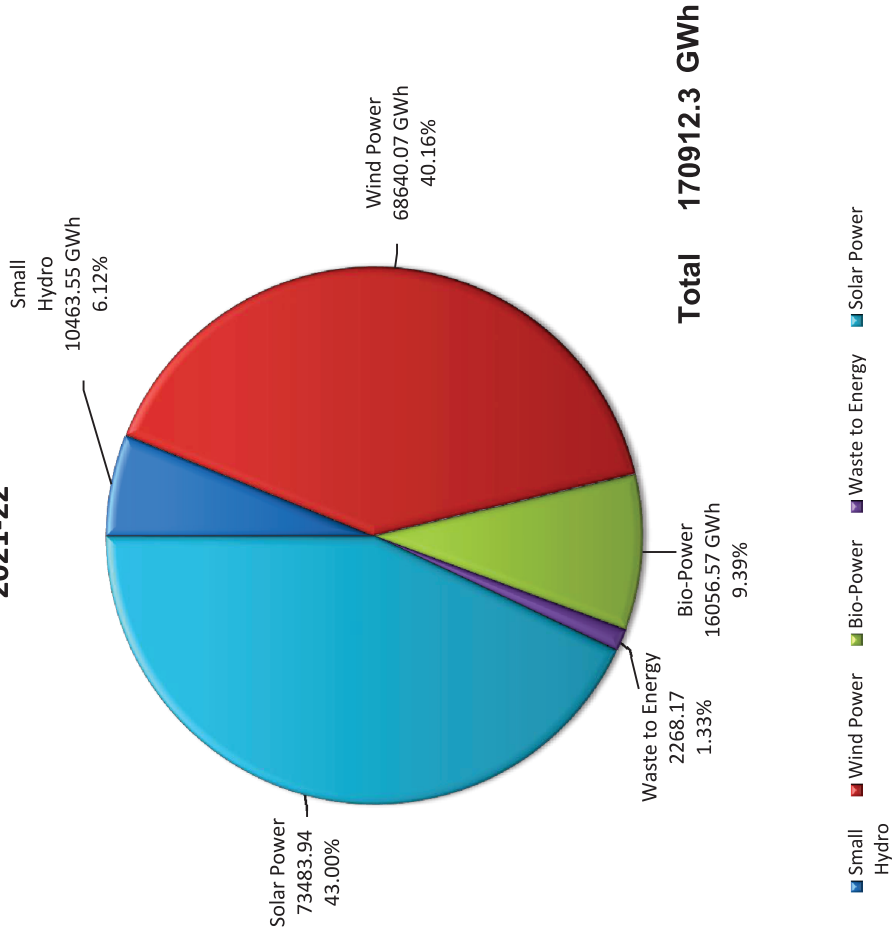
(GWh)

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	0.00	14.19	14.19
Delhi	0.00	3688.80	0.00	0.00	3688.80	0.00	458.73	4147.53
Haryana	0.00	12328.32	0.00	0.00	12328.32	0.00	904.44	13232.76
Himachal Pradesh	7316.95	0.00	0.00	0.00	0.00	0.00	1506.00	8822.95
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	137.66	137.66
Punjab	0.00	26470.84	0.00	0.00	26470.84	0.00	2528.50	28999.34
Rajasthan	0.00	19656.14	0.00	0.00	19656.14	0.00	23198.81	42854.95
Uttar Pradesh	0.00	40457.06	0.00	0.00	40457.06	0.00	5630.92	46087.98
Uttarakhand	3303.57	816.83	0.00	1012.32	1829.15	0.00	764.27	5896.99
Chhattisgarh	0.00	66007.30	0.00	0.00	66007.30	0.00	1911.21	67918.51
Gujarat	0.00	21645.83	0.00	5917.19	27563.02	0.00	24000.19	51563.21
Madhya Pradesh	0.00	38166.08	0.00	0.00	38166.08	0.00	8072.60	46238.68
Maharashtra	1623.93	53380.90	0.00	910.37	54291.27	0.00	15150.44	71065.64
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.00	47.67	47.67
D. & N. Haveli	0.00	0.00	0.00	0.00	0.00	0.00	49.16	49.16
Goa	0.00	0.00	0.00	0.00	0.00	0.00	16.82	16.82
Andhra Pradesh	0.00	17664.42	0.00	1577.60	19242.02	0.00	15122.66	34364.68
Telangana	0.00	0.00	0.00	0.00	0.00	0.00	7270.39	7270.39
Karnataka	0.00	5098.22	0.00	0.00	5098.22	0.00	28268.40	33366.62
Kerala	0.00	0.00	0.00	0.00	0.00	0.00	864.68	864.68
TamilNadu	0.00	5853.68	0.00	271.95	6125.63	0.00	23435.97	29561.60
Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	12.24	12.24
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.30
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	231.06	231.06
Jharkhand	0.00	12828.53	0.00	0.00	12828.53	0.00	18.21	12846.74
Odisha	0.00	18709.01	0.00	0.00	18709.01	0.00	1018.85	19727.86
West Bengal	0.00	11113.42	0.00	0.00	11113.42	0.00	1684.61	12798.03
Sikkim	2168.85	0.00	0.00	0.00	0.00	0.00	0.00	2168.85
A. & N. Islands	0.00	0.00	38.00	0.00	38.00	0.00	16.10	54.10
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	1.80	1.80
Assam	0.00	0.00	0.00	0.00	0.00	0.00	86.97	86.97
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	6.72	6.72
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.47
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	1.68	1.68
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	0.53	0.53
<b>Total-II, (All India)</b>	<b>14413.30</b>	<b>353885.38</b>	<b>38.00</b>	<b>9689.43</b>	<b>363612.81</b>	<b>0.00</b>	<b>162433.26</b>	<b>540459.37</b>
<b>All India Total (I+II)</b>	<b>151627.33</b>	<b>1078581.47</b>	<b>214.15</b>	<b>36015.77</b>	<b>1114811.39</b>	<b>47112.06</b>	<b>170912.30</b>	<b>1484463.08</b>



# ALL INDIA GROSS ELECTRICITY GENERATION

RES  
2021-22





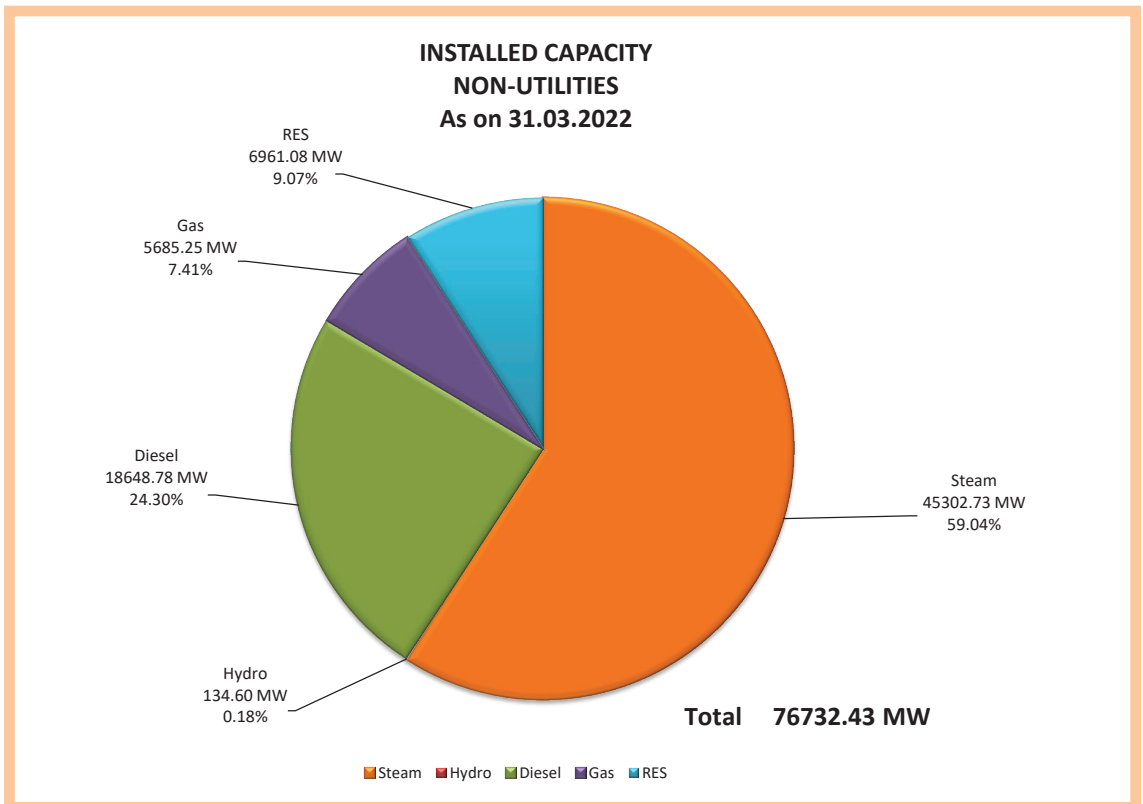
## CHAPTER 5

## CAPTIVE POWER PLANTS

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

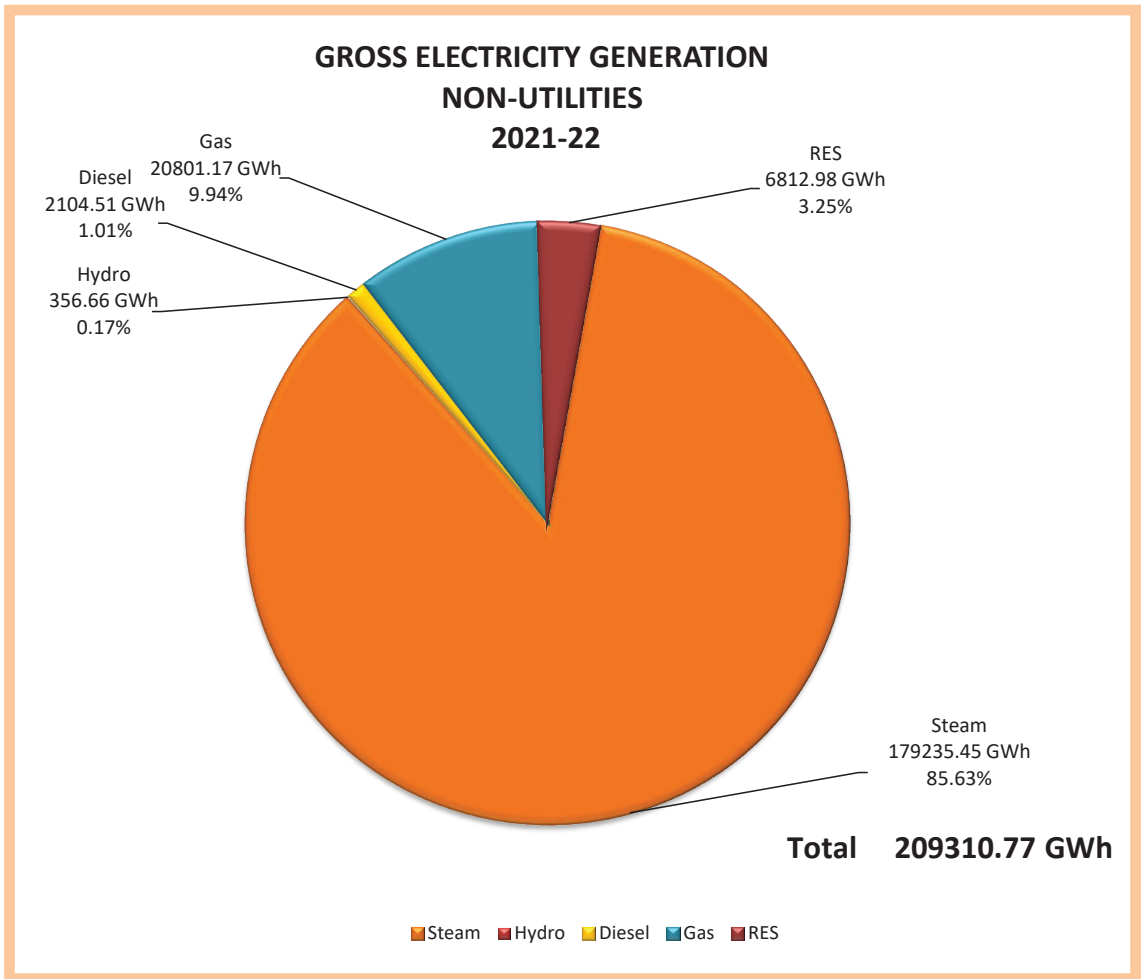
The information has been collected from the industries with demand of 0.5 MW and above having their own captive power plants. The same has been compiled in this section of the book. Details were received from 9711 industrial units with demand of 0.5 MW and above having Captive generation plants

- The total installed capacity of such captive generating power plants was 76732.43 MW as on 31.03.2022.
- The installed capacity has registered a decline of -2.26% over the total installed captive power plant capacity of 78507.97 MW as on 31.03.2021 mainly due to conversion of some Non-Utility plants to Utility Plants.
- The contribution of Hydro, Steam, Diesel, Gas and Wind & Solar capacity had been 0.18%, 59.04%, 24.30%, 7.41% and 9.07% respectively in the total capacity.





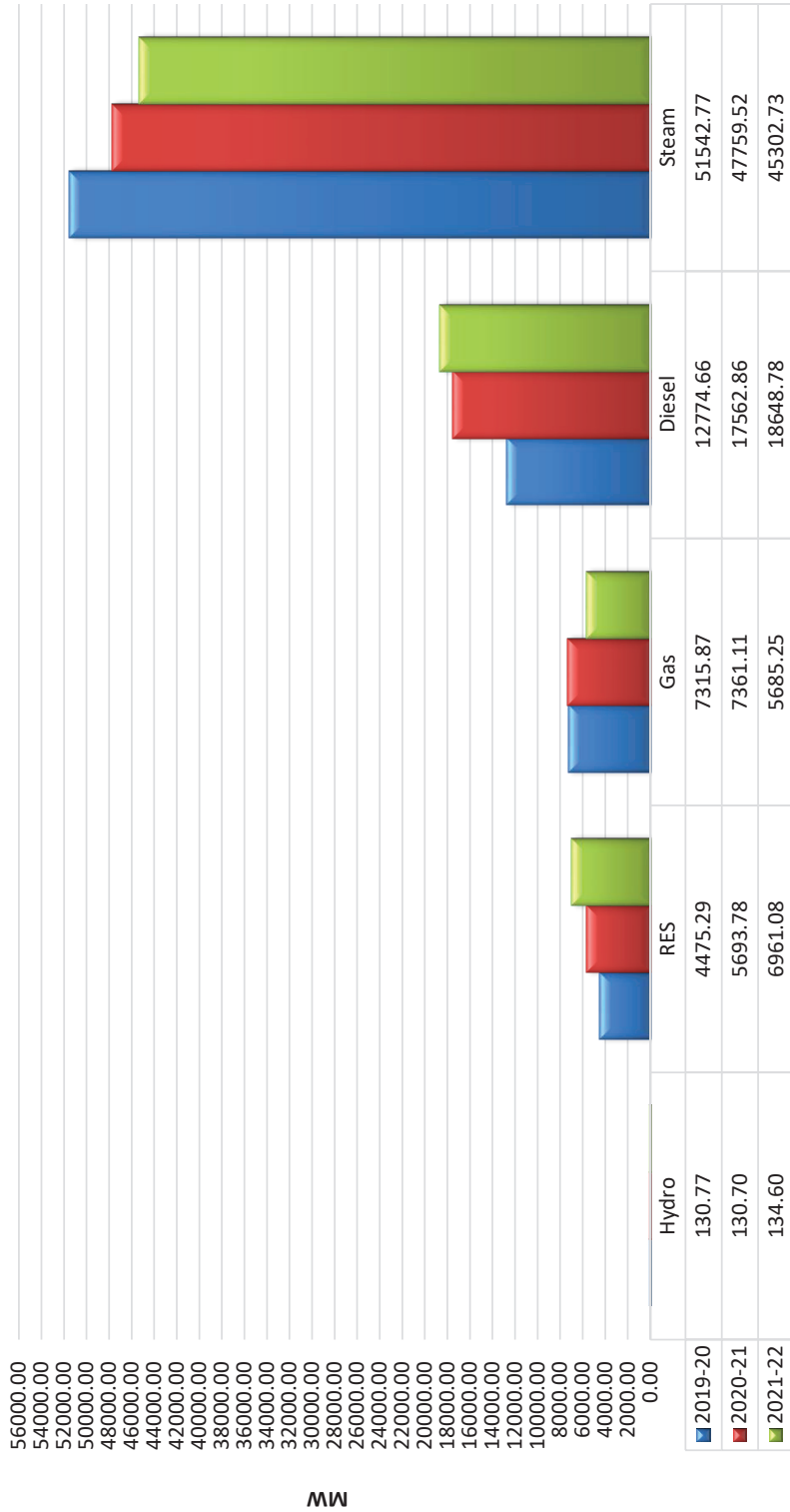
- The Captive Power Plant generated 209310.77 GWh during 2021-22 and registered a decline of -6.90% over the generation of 224827.40 GWh during 2020-21.
- The contribution of Hydro, Steam, Diesel, Gas and Wind & Solar generation had been 0.17%, 85.63%, 1.01%, 9.94% and 3.25% respectively in the total captive generation.
- In the year 2021-22, Industrial Sector is the largest consumer of energy which has consumed about 42.05% of total electricity consumption in the country.



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



### INSTALLED CAPACITY NON-UTILITIES 2019-20 to 2021-22





**TABLE 5.1**  
**INDUSTRY-WISE BREAK-UP OF INSTALLED CAPACITY,**  
**ELECTRICITY GENERATION AND CONSUMPTION**  
**2021-22**

Name of Industry	No. of Industries covered	Installed Generating Capacity (MW)	Energy Generation (GWh)	Energy Consumption (GWh)
Aluminium	73	9097.52	53073.98	55111.05
Automobiles	657	2777.29	1216.75	6083.58
Cement	391	6013.70	18039.83	23398.95
Chemical	708	4454.35	10363.95	19053.71
Collieries	22	302.81	235.76	3653.32
Electrical Engineering	228	1769.26	1621.30	3045.17
Fertiliser	90	1412.35	4020.49	5453.97
Food Products	561	1306.44	1006.23	2888.98
Heavy Engineering	164	632.45	579.43	1368.76
Iron & Steel	775	16025.40	58128.32	70030.45
Jute	49	135.72	5.53	443.40
Light Engineering	295	814.93	506.90	2490.52
Mineral Oil & Petroleum	257	6250.56	25070.00	27124.85
Mining & Quarrying	69	608.12	2398.19	3010.23
Miscellaneous	1853	6685.35	5106.02	11984.61
Non Ferrous	56	1058.26	4572.99	5596.10
Paper	183	1830.68	6536.99	7216.00
Plastic	114	289.97	755.00	1272.99
Rubber	153	634.31	353.98	2064.43
Sugar	417	5966.45	10338.52	4942.87
Textile	997	3972.45	4759.74	15275.77
Non Industry	1599	4694.10	620.87	4610.30
<b>All India(Non-Utilities)</b>	<b>9711</b>	<b>76732.43</b>	<b>209310.77</b>	<b>276119.99</b>

**TABLE 5.2**  
**ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2021-22**

(kW)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Collieries	Electrical Engineering	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0	6054	0	0	0	5070	0	0
Delhi	0	0	0	0	0	1020	0	2460
Haryana	11819	1633391	47552	199123	0	167553	7584	159099
Himachal Pradesh	0	10470	81378	40007	0	13660	0	21336
UT of J&K and Ladakh	0	0	0	1800	0	0	0	3834
Punjab	2328	106699	32000	59490	0	7590	66118	159835
Rajasthan	3249	128385	1207655	119690	0	46162	0	54326
Uttar Pradesh	931027	43580	125909	63290	0	12140	225622	134803
Uttarakhand	750	63224	4599	51538	0	1880	0	72317
<b>Sub-Total ( NR )</b>	<b>949173</b>	<b>1991803</b>	<b>1499094</b>	<b>534937</b>	<b>0</b>	<b>255075</b>	<b>299324</b>	<b>608009</b>
Chhattisgarh	1140000	0	464116	16000	0	547710	0	5500
Gujarat	8750	24576	113899	1624116	0	69245	320140	81982
Madhya Pradesh	900000	25272	1133724	248711	0	106068	66731	77761
Maharashtra	6500	246384	261790	490534	0	108372	121803	17127
Daman & Diu	1000	0	0	66243	0	0	0	0
D & N Haveli	2400	0	0	0	0	16655	0	0
Goa	0	0	3550	75000	0	0	14000	15000
<b>Sub-Total ( WR )</b>	<b>2058650</b>	<b>296232</b>	<b>1977079</b>	<b>2520604</b>	<b>0</b>	<b>848050</b>	<b>522674</b>	<b>197370</b>
Andhra Pradesh	6418	7238	546256	172541	0	38875	36040	98878
Telangana	7317	17279	503545	455551	219000	73400	0	66858
Karnataka	39730	112203	720675	145101	0	59934	53707	90420
Kerala	3000	0	4241	60502	1000	41000	25000	4576
Tamil Nadu	10103	347665	503000	278547	0	398777	91291	138377
Puducherry	0	4870	0	52184	0	0	0	4900
Lakshadweep	0	0	0	0	0	0	0	0
<b>Sub-Total ( SR )</b>	<b>66568</b>	<b>489254</b>	<b>2277717</b>	<b>1164426</b>	<b>220000</b>	<b>611986</b>	<b>206038</b>	<b>404008</b>
Bihar	0	0	800	0	0	0	109800	9375
Jharkhand	34520	0	23899	60800	42498	0	0	0
Odisha	5987280	0	129328	2885	5000	0	173000	46729
West Bengal	1330	0	63611	91774	35309	54148	71512	27749
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>6023130</b>	<b>0</b>	<b>217638</b>	<b>155459</b>	<b>82807</b>	<b>54148</b>	<b>354312</b>	<b>83853</b>
Arunachal Pradesh	0	0	0	0	0	0	0	836
Assam	0	0	2050	78919	0	0	30000	10667
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>78919</b>	<b>0</b>	<b>0</b>	<b>30000</b>	<b>13200</b>
<b>Total ( All India )</b>	<b>9097521</b>	<b>2777289</b>	<b>6013698</b>	<b>4454345</b>	<b>302807</b>	<b>1769258</b>	<b>1412348</b>	<b>1306440</b>

**TABLE 5.2 (CONTD.)**  
**ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2021-22**

(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	44973
Delhi	0	0	0	930	2086	0	216818
Haryana	94496	252128	0	49995	492155	2303	1329571
Himachal Pradesh	0	1260	0	500	1110	0	127894
UT of J&K and Ladakh	0	3010	0	0	0	0	0
Punjab	14212	59093	0	26216	183518	0	213318
Rajasthan	13938	24659	0	16365	57129	226585	305497
Uttar Pradesh	29355	113989	5888	45087	211558	0	355791
Uttarakhand	7200	3836	0	4000	7382	0	108522
<b>Sub-Total ( N R )</b>	<b>159201</b>	<b>466975</b>	<b>5888</b>	<b>147146</b>	<b>954938</b>	<b>228888</b>	<b>2702383</b>
Chhattisgarh	0	3375525	0	0	12000	114329	85075
Gujarat	34321	702790	0	118398	2548772	5000	635743
Madhya Pradesh	37087	41342	0	1675	145879	3815	111821
Maharashtra	0	1383915	0	73426	419865	0	1307667
Daman & Diu	0	0	0	1250	0	50000	37505
D & N Haveli	0	0	0	0	2625	0	14965
Goa	15000	123250	0	25000	0	475	109420
<b>Sub-Total ( W R )</b>	<b>86408</b>	<b>5626822</b>	<b>0</b>	<b>219749</b>	<b>3129141</b>	<b>173619</b>	<b>2302196</b>
Andhra Pradesh	171000	825026	5291	12758	232403	4024	78418
Telangana	6147	153043	0	42222	0	8030	169862
Karnataka	75649	1473897	0	165792	358705	5273	540510
Kerala	3085	826	0	1700	193780	0	61887
Tamil Nadu	89804	596446	0	194056	213185	2619	457434
Puducherry	0	7500	0	6893	3600	0	25806
Lakshadweep	0	0	0	0	0	0	0
<b>Sub-Total ( S R )</b>	<b>345685</b>	<b>3056738</b>	<b>5291</b>	<b>423420</b>	<b>1001673</b>	<b>19946</b>	<b>1333918</b>
Bihar	0	0	2240	5250	136900	0	19429
Jharkhand	0	1371358	0	12154	0	147974	7874
Odisha	0	4816181	1610	4316	388970	31695	119232
West Bengal	41152	666273	120687	2892	268436	0	188923
Sikkim	0	0	0	0	0	0	0
Andaman & Nicobar	0	0	0	0	0	0	0
<b>Sub-Total ( E R )</b>	<b>41152</b>	<b>6853812</b>	<b>124537</b>	<b>24612</b>	<b>794306</b>	<b>179669</b>	<b>335459</b>
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	0	5810	0	0	370500	6000	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>370500</b>	<b>6000</b>	<b>11390</b>
<b>Total ( All India )</b>	<b>632446</b>	<b>16025398</b>	<b>135715</b>	<b>814927</b>	<b>6250557</b>	<b>608121</b>	<b>6685345</b>

**TABLE 5.2 (CONTD.)  
ALL INDIA INSTALLED CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES  
HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/INDUSTRY-WISE  
2021-22**

(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	23772	94552
Delhi	0	0	0	0	0	0	17926	241239
Haryana	23868	48492	40683	85829	95537	138255	2213297	7092729
Himachal Pradesh	1680	11890	8882	2435	0	114574	0	437075
UT of J&K and Ladakh	0	0	0	0	0	18712	0	27356
Punjab	1793	172434	3684	15646	138858	346205	110348	1719385
Rajasthan	492871	1350	43687	28304	14950	311670	64593	3161064
Uttar Pradesh	0	69309	6181	7840	2282711	97729	18120	4779928
Uttarakhand	0	138724	28324	57812	107000	20973	6936	685018
<b>Sub-Total ( N R )</b>	<b>520842</b>	<b>442199</b>	<b>131441</b>	<b>197866</b>	<b>2639056</b>	<b>1049119</b>	<b>2454992</b>	<b>18238346</b>
Chhattisgarh	0	7300	0	0	18000	1148	0	5786703
Gujarat	13212	187641	2	81851	63200	427410	0	7061048
Madhya Pradesh	6800	123870	400	25890	48940	173965	0	3279751
Maharashtra	0	156185	48192	14295	729953	79161	0	5465168
Daman & Diu	0	0	0	0	0	1508	0	157506
D & N Haveli	5520	2400	0	0	0	32982	0	77547
Goa	0	0	0	1500	0	0	0	382195
<b>Sub-Total ( W R )</b>	<b>25532</b>	<b>477396</b>	<b>48594</b>	<b>123536</b>	<b>860093</b>	<b>716173</b>	<b>0</b>	<b>22209917</b>
Andhra Pradesh	11358	90717	14500	0	188460	61263	61514	2662976
Telangana	9846	205282	2740	40218	87962	42165	163105	2273571
Karnataka	19865	133490	5166	18756	1545060	77676	972159	6613766
Kerala	21000	27476	0	17370	0	3745	122039	592227
Tamil Nadu	235635	276193	86362	198182	507381	2000885	584257	7210199
Puducherry	0	0	1168	17864	7366	4300	20760	157210
Lakshadweep	0	0	0	0	0	0	0	0
<b>Sub-Total ( S R )</b>	<b>297704</b>	<b>733157</b>	<b>109936</b>	<b>292390</b>	<b>2336228</b>	<b>2190034</b>	<b>1923833</b>	<b>19509950</b>
Bihar	0	0	0	0	112101	0	11494	407389
Jharkhand	7095	0	0	0	0	0	4270	1712441
Odisha	206662	109220	0	16100	16974	0	116126	12171307
West Bengal	425	38704	0	4421	2000	17124	178042	1874512
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>214182</b>	<b>147924</b>	<b>0</b>	<b>20521</b>	<b>131075</b>	<b>17124</b>	<b>309931</b>	<b>16165649</b>
Arunachal Pradesh	0	0	0	0	0	0	0	836
Assam	0	30000	0	0	0	0	3837	549173
Manipur	0	0	0	0	0	0	1506	1506
Meghalaya	0	0	0	0	0	0	0	57057
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>0</b>	<b>30000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5343</b>	<b>608572</b>
<b>Total ( All India )</b>	<b>1058260</b>	<b>1830676</b>	<b>289971</b>	<b>634313</b>	<b>5966452</b>	<b>3972450</b>	<b>4694098</b>	<b>76732434</b>

**TABLE 5.3**  
**ALL INDIA GROSS ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2021-22**

(GWh)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Collieries	Electrical Engineering	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0.00	0.22	0.00	0.00	0.00	0.10	0.00	0.00
Delhi	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.12
Haryana	1.57	409.06	5.55	184.51	0.00	7.71	0.21	55.61
Himachal Pradesh	0.00	1.63	50.32	5.93	0.00	0.75	0.00	7.95
UT of J&K and Ladakh	0.00	0.00	0.00	0.13	0.00	0.00	0.00	1.33
Punjab	0.27	7.65	112.01	45.47	0.00	2.30	82.36	224.50
Rajasthan	1.02	32.52	4578.19	367.69	0.00	32.67	0.00	17.49
Uttar Pradesh	6601.00	147.49	290.80	291.90	0.00	1.14	966.90	83.53
Uttarakhand	0.14	11.65	1.58	122.46	0.00	0.00	0.00	12.37
<b>Sub-Total ( N R )</b>	<b>6604.00</b>	<b>610.22</b>	<b>5038.46</b>	<b>1018.09</b>	<b>0.00</b>	<b>44.70</b>	<b>1049.47</b>	<b>402.89</b>
Chhattisgarh	9600.00	0.00	1841.40	5.00	0.00	149.47	0.00	11.97
Gujarat	22.00	22.81	591.58	4668.73	0.00	38.55	827.38	103.84
Madhya Pradesh	0.00	4.93	2607.82	896.30	0.00	178.55	241.70	47.14
Maharashtra	5.71	142.60	660.55	480.05	0.00	164.02	461.50	1.60
Daman & Diu	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
D & N Haveli	0.03	0.00	0.00	0.00	0.00	5.61	0.00	0.00
Goa	0.00	0.00	4.32	0.14	0.00	0.00	0.00	0.20
<b>Sub-Total ( W R )</b>	<b>9627.74</b>	<b>170.34</b>	<b>5705.67</b>	<b>6050.43</b>	<b>0.00</b>	<b>536.19</b>	<b>1530.58</b>	<b>164.75</b>
Andhra Pradesh	0.91	0.84	1662.99	468.75	0.00	63.12	173.96	128.26
Telangana	0.50	3.73	1491.98	937.56	233.43	361.11	0.00	59.36
Karnataka	20.64	26.29	2247.88	76.46	0.00	70.69	307.77	121.19
Kerala	4.68	0.00	0.03	86.95	0.12	84.28	51.65	0.37
Tamil Nadu	4.77	403.03	1215.42	733.23	0.00	459.79	118.91	117.95
Puducherry	0.00	2.30	0.00	78.71	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>31.51</b>	<b>436.19</b>	<b>6618.31</b>	<b>2381.66</b>	<b>233.55</b>	<b>1039.00</b>	<b>652.29</b>	<b>427.14</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	0.82	1.55
Jharkhand	130.94	0.00	67.01	360.32	1.31	0.00	0.00	0.00
Odisha	36679.74	0.00	531.08	0.13	0.75	0.00	596.20	3.56
West Bengal	0.04	0.00	41.93	230.24	0.15	1.41	92.16	3.87
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>36810.72</b>	<b>0.00</b>	<b>640.02</b>	<b>590.69</b>	<b>2.21</b>	<b>1.41</b>	<b>689.18</b>	<b>8.98</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.02	323.09	0.00	0.00	98.97	1.07
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	37.36	0.00	0.00	0.00	0.00	1.41
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( N E R )</b>	<b>0.00</b>	<b>0.00</b>	<b>37.37</b>	<b>323.09</b>	<b>0.00</b>	<b>0.00</b>	<b>98.97</b>	<b>2.48</b>
<b>Total ( All India )</b>	<b>53073.98</b>	<b>1216.75</b>	<b>18039.83</b>	<b>10363.95</b>	<b>235.76</b>	<b>1621.30</b>	<b>4020.49</b>	<b>1006.23</b>



**TABLE 5.3**  
**ALL INDIA GROSS ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2021-22**

(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	0.65	0.00	0.00	0.68
Delhi	0.00	0.00	0.00	0.00	0.17	0.00	3.04
Haryana	5.10	13.94	0.00	2.56	2536.26	0.00	150.56
Himachal Pradesh	0.00	0.04	0.00	0.02	0.17	0.00	12.29
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Punjab	6.16	8.29	0.00	2.47	1176.60	0.00	181.27
Rajasthan	1.48	2.89	0.00	1.52	125.87	1231.27	1228.78
Uttar Pradesh	10.45	172.59	0.15	88.71	825.80	0.00	152.76
Uttarakhand	7.63	0.39	0.00	0.22	0.85	0.00	56.39
<b>Sub-Total ( N R )</b>	<b>30.82</b>	<b>198.14</b>	<b>0.15</b>	<b>96.16</b>	<b>4665.71</b>	<b>1231.27</b>	<b>1785.76</b>
Chhattishgarh	0.00	9306.49	0.00	0.00	22.98	501.14	11.30
Gujarat	65.02	902.08	0.00	81.41	10039.45	6.90	829.66
Madhya Pradesh	3.03	77.42	0.00	0.00	557.23	0.00	61.02
Maharashtra	0.00	1466.62	0.00	91.88	2103.67	0.00	1069.79
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	0.52
Goa	0.00	4.54	0.00	1.23	0.00	0.00	3.08
<b>Sub-Total ( W R )</b>	<b>68.05</b>	<b>11757.15</b>	<b>0.00</b>	<b>174.52</b>	<b>12723.41</b>	<b>508.04</b>	<b>1975.66</b>
Andhra Pradesh	380.00	4262.91	0.90	0.18	923.88	0.01	132.90
Telangana	1.47	722.98	0.00	20.99	0.00	2.15	87.60
Karnataka	19.19	7527.92	0.00	88.47	806.74	0.02	351.25
Kerala	1.22	0.00	0.00	0.13	1034.17	0.00	45.20
Tamil Nadu	72.39	1621.83	0.00	122.89	778.82	0.10	423.65
Puducherry	0.00	0.00	0.00	1.01	0.00	0.00	1.56
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>474.27</b>	<b>14135.64</b>	<b>0.90</b>	<b>233.68</b>	<b>3543.60</b>	<b>2.28</b>	<b>1042.16</b>
Bihar	0.00	0.00	0.81	0.25	469.88	0.00	2.22
Jharkhand	0.00	7521.13	0.00	1.80	0.00	630.52	1.44
Orissa	0.00	21367.58	0.12	0.41	1667.85	26.09	73.60
West Bengal	6.29	3148.66	3.55	0.09	1084.94	0.00	221.30
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>6.29</b>	<b>32037.37</b>	<b>4.48</b>	<b>2.54</b>	<b>3222.67</b>	<b>656.61</b>	<b>298.55</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	914.61	0.00	3.88
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( N E R )</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>914.61</b>	<b>0.00</b>	<b>3.88</b>
<b>Total ( All India )</b>	<b>579.43</b>	<b>58128.32</b>	<b>5.53</b>	<b>506.90</b>	<b>25070.00</b>	<b>2398.19</b>	<b>5106.02</b>

**TABLE 5.3**  
**ALL INDIA GROSS ELECTRICITY GENERATION BY CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2021-22**

(GWh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Non Industry	Total
	16	17	18	19	20	21	22	23
Chandigarh	0.04	0.00	0.00	0.00	0.00	0.00	5.42	7.12
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	0.49	3.84
Haryana	1.09	46.99	0.48	7.96	214.62	67.13	71.59	3782.52
Himachal Pradesh	0.14	61.73	1.37	0.10	0.00	15.48	0.00	157.92
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	0.85	0.00	2.30
Punjab	0.03	755.34	0.20	2.84	270.12	500.15	2.18	3380.20
Rajasthan	3381.08	0.74	13.21	9.03	0.23	559.66	0.10	11585.42
Uttar Pradesh	0.00	286.54	0.63	2.50	3886.20	148.58	0.16	13957.85
Uttarakhand	0.00	636.24	3.00	165.39	63.05	3.17	0.16	1084.69
<b>Sub-Total ( N R )</b>	<b>3382.39</b>	<b>1787.59</b>	<b>18.89</b>	<b>187.82</b>	<b>4434.21</b>	<b>1295.02</b>	<b>80.10</b>	<b>33961.86</b>
Chhattishgarh	0.00	12.30	0.00	0.00	25.71	0.00	0.00	21487.76
Gujarat	0.00	370.53	0.01	58.29	113.20	671.54	0.00	19412.96
Madhya Pradesh	0.12	272.00	0.00	1.22	144.95	493.27	0.00	5586.70
Maharashtra	0.00	676.60	162.00	1.85	1590.01	87.10	0.00	9165.57
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	22.21
Goa	0.00	0.00	0.00	1.00	0.00	0.00	0.00	14.52
<b>Sub-Total ( W R )</b>	<b>0.58</b>	<b>1331.70</b>	<b>162.01</b>	<b>62.37</b>	<b>1873.86</b>	<b>1267.14</b>	<b>0.00</b>	<b>55690.21</b>
Andhra Pradesh	0.54	330.86	111.21	0.00	221.99	49.50	141.86	9055.58
Telangana	0.23	967.47	0.03	0.43	112.11	8.17	37.09	5048.40
Karnataka	54.48	429.14	0.33	0.59	2748.94	154.15	117.74	15169.88
Kerala	34.25	33.01	0.00	0.22	0.00	0.26	44.74	1421.28
Tamil Nadu	15.54	894.03	462.51	100.18	718.59	1979.74	187.68	10431.04
Puducherry	0.00	0.00	0.01	0.73	0.00	0.00	1.56	85.88
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>105.04</b>	<b>2654.50</b>	<b>574.10</b>	<b>102.14</b>	<b>3801.63</b>	<b>2191.82</b>	<b>530.67</b>	<b>41212.07</b>
Bihar	0.00	0.00	0.00	0.00	215.58	0.00	0.61	691.72
Jharkhand	0.26	0.00	0.00	0.00	0.00	0.00	0.81	8715.53
Orissa	1084.72	536.11	0.00	0.11	13.24	0.00	6.54	62587.82
West Bengal	0.00	92.21	0.00	1.53	0.01	5.76	0.78	4934.90
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( E R )</b>	<b>1084.98</b>	<b>628.32</b>	<b>0.00</b>	<b>1.64</b>	<b>228.82</b>	<b>5.76</b>	<b>8.74</b>	<b>76929.98</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	134.89	0.00	0.00	0.00	0.00	1.19	1477.71
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.17
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.78
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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.36</b>	<b>1516.66</b>
<b>Total ( All India )</b>	<b>4572.99</b>	<b>6536.99</b>	<b>755.00</b>	<b>353.98</b>	<b>10338.52</b>	<b>4759.74</b>	<b>620.87</b>	<b>209310.77</b>

**TABLE 5.4**  
**INDUSTRY-WISE/MODE-WISE ALL INDIA INSTALLED CAPACITY**  
**OF CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 0.5 MW & ABOVE**  
**31.03.2022**

(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	8851400	154688	0	56249	35184	9097521
Automobiles	657	0	229737	2089450	202160	172315	83627	2777289
Cement	391	22272	4681038	865068	57896	277649	109775	6013698
Chemical	708	0	2010523	1515076	512596	109454	306696	4454345
Collieries	22	0	50000	30012	0	222795	0	302807
Electrical Engineering	228	33000	1155865	468577	10965	59119	41733	1769258
Fertiliser	90	0	515313	107656	657110	62797	69472	1412348
Food Products	561	0	297578	834250	22434	82019	70160	1306440
Heavy Engineering	164	0	146475	275046	26585	90669	93671	632446
Iron & Steel	775	2550	14061420	1315569	436316	65363	144180	16025398
Jute	49	0	0	131975	0	3740	0	135715
Light Engineering	295	0	21060	606695	27660	43227	116285	814927
Mineral Oil & Petroleum	257	0	2778201	304249	3000944	76404	90758	6250557
Mining & Quarrying	69	0	376300	185273	13000	33548	0	608121
Miscellaneous	1853	4000	855864	3223523	427730	1710071	464157	6685345
Non Ferrous	56	37575	808125	170526	0	27209	14825	1058260
Paper	183	0	1649805	138432	6918	15071	20450	1830676
Plastic	114	0	123592	142813	0	13064	10502	289971
Rubber	153	0	72630	352912	94463	24126	90182	634313
Sugar	417	0	5771725	158856	8744	27127	0	5966452
Textile	997	35200	697211	1543316	114884	294729	1287111	3972450
Non Industry	1599	0	148871	4034817	64840	302285	143285	4694098
<b>Total</b>	<b>9711</b>	<b>134597</b>	<b>45302732</b>	<b>18648780</b>	<b>5685245</b>	<b>3769028</b>	<b>3192052</b>	<b>76732434</b>

**TABLE 5.5**  
**INDUSTRY-WISE/MODE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION BY**  
**CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF**  
**0.5MW & ABOVE**  
**2021-22**

(GWh)

Name of Industry	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8
Aluminium	0	52962	3	0	62	47	53073.98
Automobiles	0	427	295	206	181	107	1216.75
Cement	70	17247	74	164	311	175	18039.83
Chemical	0	7845	308	1454	94	663	10363.95
Collieries	0	0	1	0	235	0	235.76
Electrical Engineering	84	1406	22	2	72	36	1621.30
Fertiliser	0	1199	9	2632	94	86	4020.49
Food Products	0	683	139	29	68	87	1006.23
Heavy Engineering	0	328	14	62	85	91	579.43
Iron & Steel	4	56405	160	1338	48	174	58128.32
Jute	0	0	3	0	2	0	5.53
Light Engineering	0	73	183	45	41	164	506.90
Mineral Oil & Petroleum	0	10738	65	14044	67	156	25070.00
Mining & Quarrying	0	2294	31	12	62	0	2398.19
Miscellaneous	5	2876	298	604	791	532	5106.02
Non Ferrous	89	4431	3	0	38	12	4572.99
Paper	0	6441	50	6	14	27	6536.99
Plastic	0	721	9	0	13	11	755.00
Rubber	0	184	23	53	25	69	353.98
Sugar	0	10314	4	20	0	0	10338.52
Textile	106	2532	220	130	277	1495	4759.74
Non Industry	0	128	191	0	216	86	620.87
<b>Total</b>	<b>356.66</b>	<b>179235.45</b>	<b>2104.51</b>	<b>20801.17</b>	<b>2797.27</b>	<b>4015.71</b>	<b>209310.77</b>

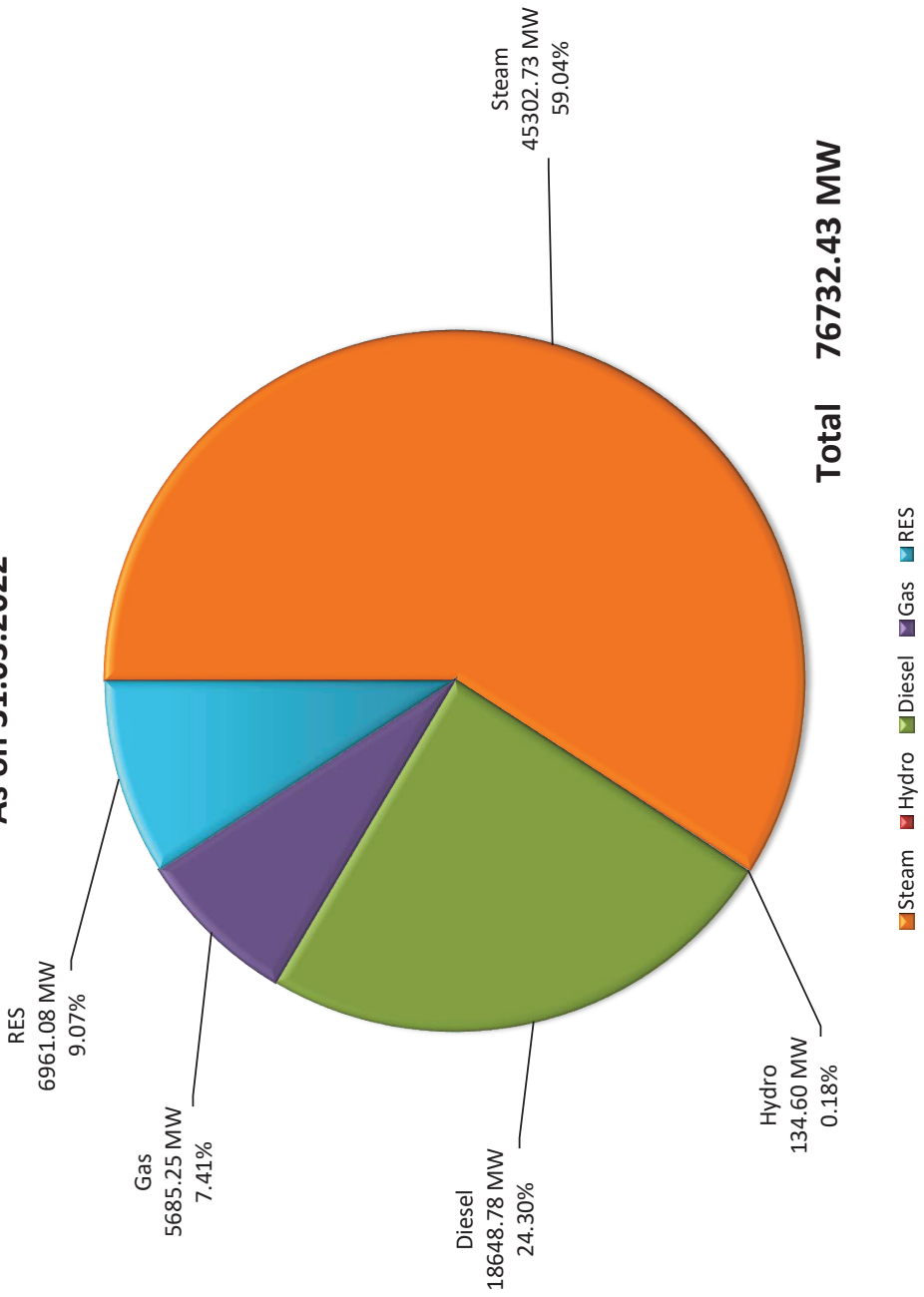
**TABLE 5.5 (CONTD.)  
INDUSTRY-WISE/MODE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION BY  
CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF  
0.5MW & ABOVE  
2021-22**

(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	4835.82	48238.16	1667.14	46571.02	8540.03	55111.05
Automobile	41.25	1175.50	144.84	1030.66	5052.92	6083.58
Cement	1326.13	16713.70	935.91	15777.79	7621.16	23398.95
Chemical	586.32	9777.63	591.78	9185.84	9867.87	19053.71
Collieries	1.22	234.53	0.00	234.53	3418.79	3653.32
Electrical Engineering	97.33	1523.97	759.58	764.39	2280.78	3045.17
Fertiliser	151.99	3868.51	41.07	3827.43	1626.53	5453.97
Food Products	79.01	927.23	264.61	662.62	2226.36	2888.98
Heavy Engineering	30.90	548.53	97.40	451.13	917.63	1368.76
Iron & Steel	5776.79	52351.53	4820.54	47530.99	22499.46	70030.45
Jute	0.12	5.41	0.19	5.22	438.18	443.40
Light Engineering	13.00	493.90	72.31	421.59	2068.93	2490.52
Mineral Oil & Petroleum	959.28	24110.72	515.91	23594.81	3530.04	27124.85
Mining & Quarrying	221.46	2176.73	518.29	1658.45	1351.79	3010.23
Miscellaneous	276.12	4829.90	995.38	3834.52	8150.09	11984.61
Non Ferrous	282.66	4290.34	56.47	4233.87	1362.23	5596.10
Paper	549.35	5987.65	91.54	5896.11	1319.89	7216.00
Plastic	47.94	707.06	95.53	611.53	661.46	1272.99
Rubber	19.08	334.89	1.10	333.80	1730.63	2064.43
Sugar	992.82	9345.70	4969.01	4376.69	566.18	4942.87
Textile	251.22	4508.52	766.43	3742.09	11533.67	15275.77
Non Industry	19.12	601.75	67.06	534.70	4075.61	4610.30
<b>Total</b>	<b>16558.92</b>	<b>192751.85</b>	<b>17472.09</b>	<b>175279.76</b>	<b>100840.23</b>	<b>276119.99</b>

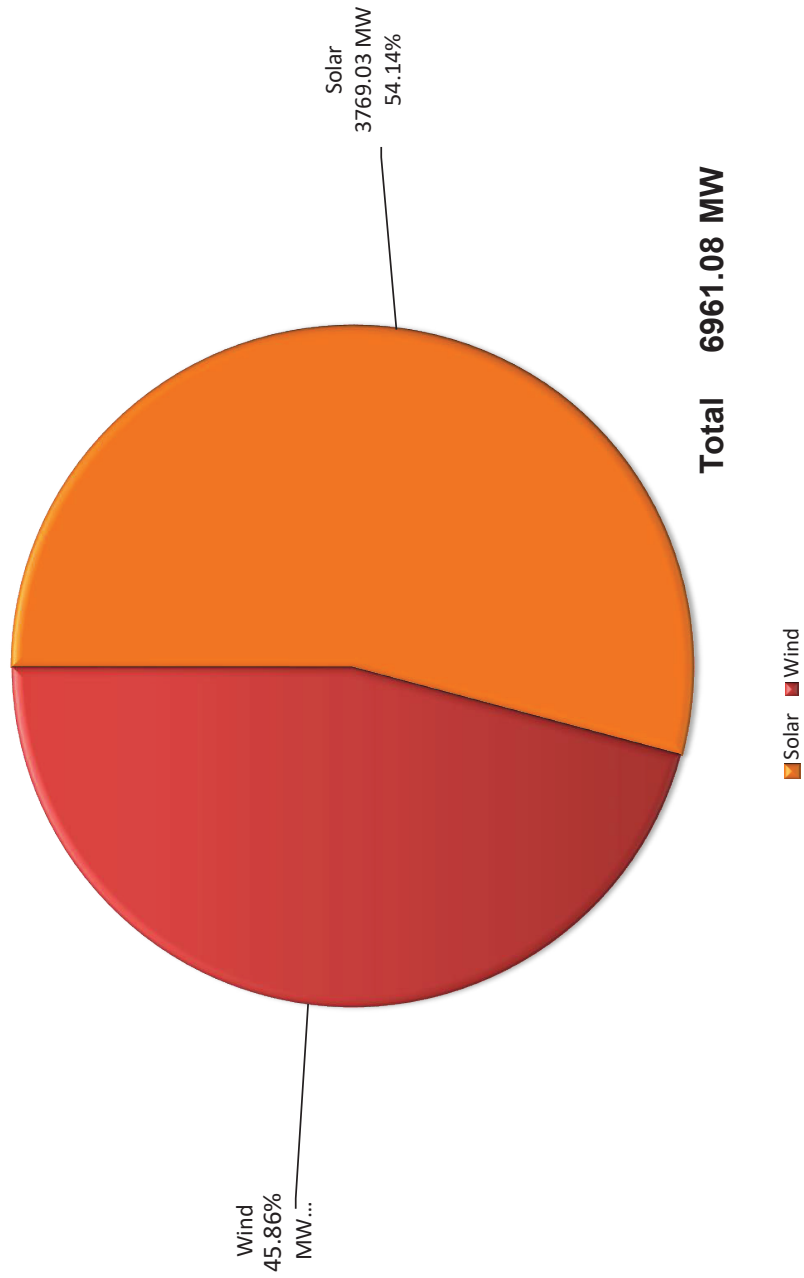


**INSTALLED CAPACITY  
NON-UTILITIES  
As on 31.03.2022**





**INSTALLED CAPACITY  
NON-UTILITIES (RES)  
As on 31.03.2022**



**TABLE 5.6**  
**STATE-WISE INSTALLED CAPACITY OF CAPTIVE POWER PLANTS**  
**IN INDUSTRIES HAVING DEMAND OF**  
**0.5 MW & ABOVE**  
**31.03.2022**

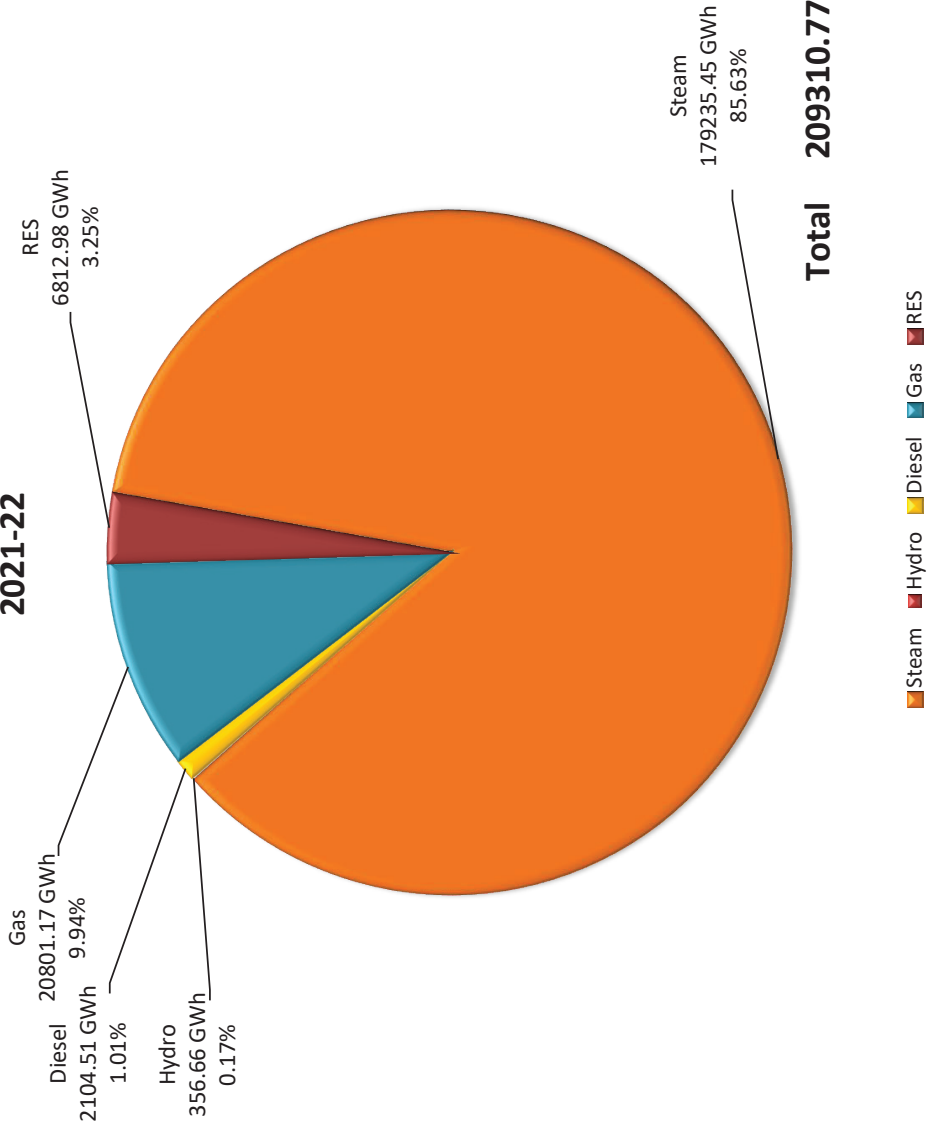
(kW)

State/UTs	No. of Industries Covered	Hydro	Steam	Diesel	Gas	Solar	Wind	Total
1	2	3	4	5	6	7	8	9
Chandigarh	35	0	14400	75173	0	4979	0	94552
Delhi	68	0	5380	35131	0	200728	0	241239
Haryana	2332	0	584208	5502611	823542	182368	0	7092729
Himachal Pradesh	203	3500	17800	408839	0	6936	0	437075
UT of J&K and Ladakh	5	0	0	27356	0	0	0	27356
Punjab	458	3900	718395	818877	108742	69471	0	1719385
Rajasthan	458	0	1979855	604871	133649	355564	87125	3161064
Uttar Pradesh	357	0	3662973	559353	264405	293197	0	4779928
Uttarakhand	156	0	293120	359436	10149	22313	0	685018
<b>Sub-Total (NR)</b>	<b>4072</b>	<b>7400</b>	<b>7276131</b>	<b>8391647</b>	<b>1340487</b>	<b>1135556</b>	<b>87125</b>	<b>18238346</b>
Chhattisgarh	131	22272	5387747	170812	100472	105400	0	5786703
Gujarat	798	2550	3294417	881737	1746391	326585	809368	7061048
Madhya Pradesh	217	0	2547974	492838	127178	99011	12750	3279751
Maharashtra	431	21000	3331814	704053	324980	901160	182161	5465168
Daman & Diu	16	0	0	156721	0	785	0	157506
D & N Haveli	20	0	8400	69147	0	0	0	77547
Goa	27	0	24950	351275	2000	3970	0	382195
<b>Sub-Total (WR)</b>	<b>1640</b>	<b>45822</b>	<b>14595301</b>	<b>2826582</b>	<b>2301021</b>	<b>1436911</b>	<b>1004279</b>	<b>22209917</b>
Andhra Pradesh	315	0	1789813	418439	276180	85154	93389	2662976
Telangana	336	0	1237478	688896	3720	342568	909	2273571
Karnataka	767	27375	3912654	1941944	243724	235904	252165	6613766
Kerala	108	54000	86800	203131	201880	46417	0	592227
Tamil Nadu	1416	0	2526570	2390458	237906	301080	1754185	7210199
Puducherry	69	0	25348	91486	36080	4297	0	157210
Lakshadweep	0	0	0	0	0	0	0	0
<b>Sub-Total (SR)</b>	<b>3011</b>	<b>81375</b>	<b>9578663</b>	<b>5734354</b>	<b>999490</b>	<b>1015420</b>	<b>2100648</b>	<b>19509950</b>
Bihar	64	0	211500	54710	136344	4835	0	407389
Jharkhand	66	0	1524000	138474	40000	9967	0	1712441
Odisha	430	0	11005754	727143	358500	79911	0	12171307
West Bengal	346	0	953473	685867	167628	67545	0	1874512
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>906</b>	<b>0</b>	<b>13694727</b>	<b>1606193</b>	<b>702472</b>	<b>162257</b>	<b>0</b>	<b>16165649</b>
Arunachal Pradesh	1	0	0	836	0	0	0	836
Assam	69	0	134110	54535	341775	18753	0	549173
Manipur	3	0	0	1376	0	130	0	1506
Meghalaya	9	0	23800	33257	0	0	0	57057
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>82</b>	<b>0</b>	<b>157910</b>	<b>90004</b>	<b>341775</b>	<b>18883</b>	<b>0</b>	<b>608572</b>
<b>Total (All India)</b>	<b>9711</b>	<b>134597</b>	<b>45302732</b>	<b>18648780</b>	<b>5685245</b>	<b>3769028</b>	<b>3192052</b>	<b>76732434</b>



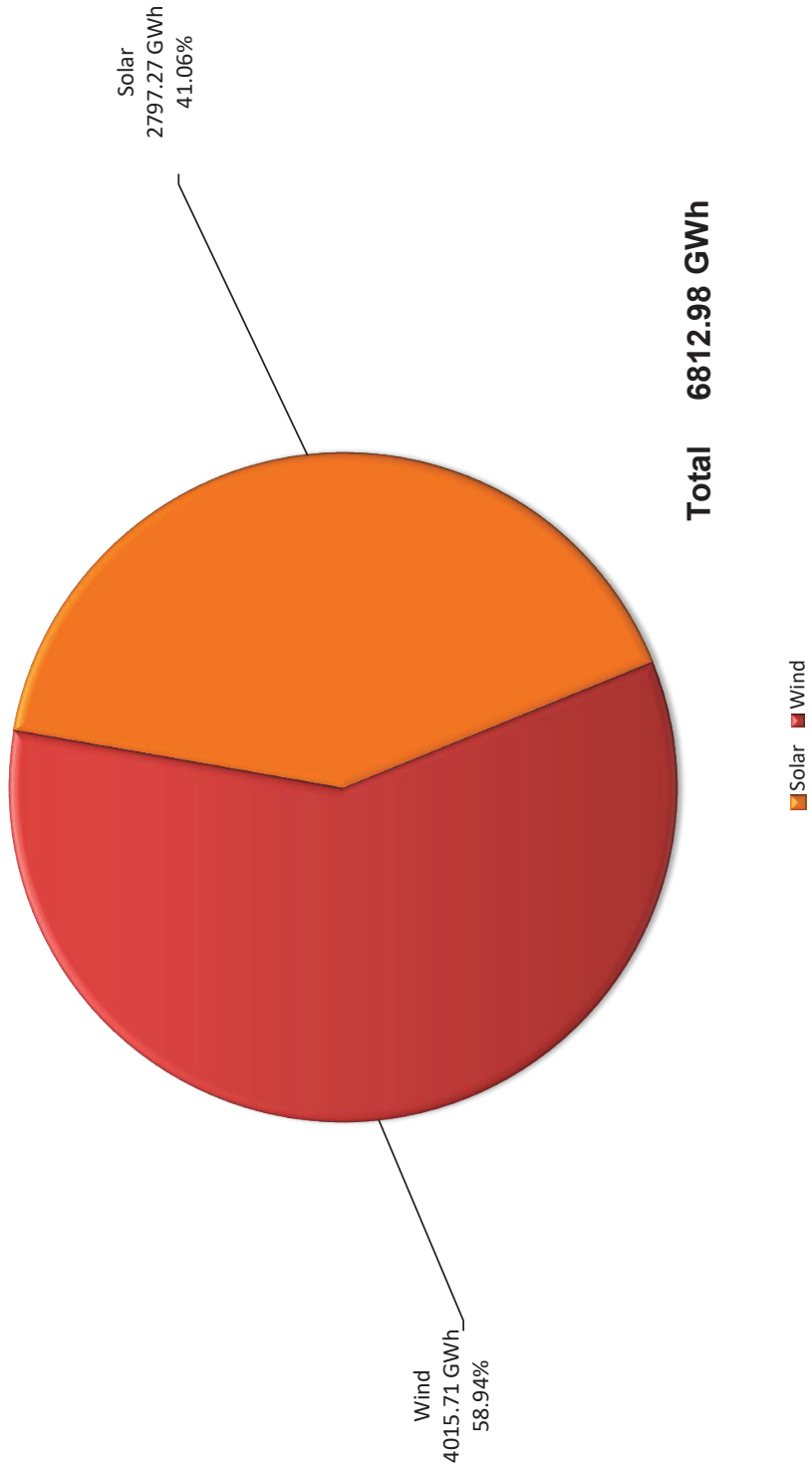


### GROSS ELECTRICITY GENERATION NON-UTILITIES 2021-22





**GROSS ELECTRICITY GENERATION  
NON-UTILITIES (RES)  
2021-22**



**TABLE 5.7**  
**STATE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION BY CAPTIVE POWER PLANTS**  
**IN INDUSTRIES HAVING DEMAND OF**  
**0.5 MW & ABOVE**  
**2021-22**

(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	0.54	0.00	6.47	0.00	7.12
Delhi	0.00	0.00	0.62	0.00	3.22	0.00	3.84
Haryana	0.00	1372.22	235.77	2037.52	137.01	0.00	3782.52
Himachal Pradesh	12.45	110.50	27.89	0.00	7.07	0.00	157.92
UT of J&K and Ladakh	0.00	0.00	2.30	0.00	0.00	0.00	2.30
Punjab	16.47	2595.99	110.80	623.76	33.17	0.00	3380.20
Rajasthan	0.00	10613.82	25.47	445.52	376.02	124.60	11585.42
Uttar Pradesh	0.00	12034.15	479.51	1339.65	104.54	0.00	13957.85
Uttarakhand	0.00	982.45	53.40	23.60	25.23	0.00	1084.69
<b>Sub-Total(NR)</b>	<b>28.93</b>	<b>27709.24</b>	<b>936.31</b>	<b>4470.05</b>	<b>692.73</b>	<b>124.60</b>	<b>33961.86</b>
Chhattisgarh	70.00	21098.63	21.04	234.82	63.27	0.00	21487.76
Gujarat	3.50	11572.58	220.55	6328.57	149.50	1138.27	19412.96
Madhya Pradesh	0.00	5050.77	34.76	479.99	9.03	12.15	5586.70
Maharashtra	51.04	6853.50	64.33	1355.23	551.64	289.82	9165.57
Daman & Diu	0.00	0.00	0.50	0.00	0.00	0.00	0.50
D & N Haveli	0.00	18.80	3.41	0.00	0.00	0.00	22.21
Goa	0.00	3.62	6.56	4.34	0.00	0.00	14.52
<b>Sub-Total(WR)</b>	<b>124.54</b>	<b>44597.90</b>	<b>351.14</b>	<b>8402.94</b>	<b>773.44</b>	<b>1440.23</b>	<b>55690.21</b>
Andhra Pradesh	0.00	7735.65	20.89	1102.86	103.42	92.75	9055.58
Telangana	0.00	4580.31	78.25	0.34	388.23	1.28	5048.40
Karnataka	84.94	13180.89	150.75	1077.60	300.69	375.01	15169.88
Kerala	118.25	170.93	34.15	1051.95	46.00	0.00	1421.28
Tamil Nadu	0.00	7182.66	374.94	580.08	311.53	1981.84	10431.04
Puducherry	0.00	0.55	4.24	76.85	4.24	0.00	85.88
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>32850.99</b>	<b>663.22</b>	<b>3889.68</b>	<b>1154.11</b>	<b>2450.88</b>	<b>41212.07</b>
Bihar	0.00	383.98	4.63	300.80	2.32	0.00	691.72
Jharkhand	0.00	8484.31	15.46	207.42	8.34	0.00	8715.53
Odisha	0.00	60819.41	64.52	1610.27	93.61	0.00	62587.82
West Bengal	0.00	3968.22	47.74	861.43	57.51	0.00	4934.90
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Andaman & Nicobar	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total(ER)</b>	<b>0.00</b>	<b>73655.92</b>	<b>132.36</b>	<b>2979.92</b>	<b>161.78</b>	<b>0.00</b>	<b>76929.98</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	401.38	2.70	1058.58	15.06	0.00	1477.71
Manipur	0.00	0.00	0.03	0.00	0.14	0.00	0.17
Meghalaya	0.00	20.02	18.76	0.00	0.00	0.00	38.78
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>421.40</b>	<b>21.48</b>	<b>1058.58</b>	<b>15.20</b>	<b>0.00</b>	<b>1516.66</b>
<b>Total (All India)</b>	<b>356.66</b>	<b>179235.45</b>	<b>2104.51</b>	<b>20801.17</b>	<b>2797.27</b>	<b>4015.71</b>	<b>209310.77</b>

**TABLE 5.7 (CONTD.)**  
**STATE-WISE ALL INDIA ELECTRICITY GENERATION AND CONSUMPTION BY CAPTIVE POWER PLANTS**  
**IN INDUSTRIES HAVING DEMAND OF**  
**0.5 MW & ABOVE**  
**2021-22**

(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	7.09	1.35	5.73	63.84	69.57
Delhi	0.01	3.83	0.33	3.50	161.32	164.81
Haryana	217.51	3565.01	108.48	3456.53	4792.74	8249.26
Himachal Pradesh	15.59	142.33	0.46	141.86	2421.64	2563.50
UT of J&K and Ladakh	0.05	2.25	0.00	2.25	242.55	244.80
Punjab	381.50	2998.70	270.47	2728.22	3629.96	6358.19
Rajasthan	762.57	10822.85	1126.68	9696.17	5445.87	15142.03
Uttar Pradesh	1168.71	12789.15	1941.63	10847.52	2465.52	13313.03
Uttarakhand	104.90	979.79	33.89	945.90	2023.28	2969.19
<b>Sub-Total(NR)</b>	<b>2650.87</b>	<b>31310.99</b>	<b>3483.30</b>	<b>27827.68</b>	<b>21246.71</b>	<b>49074.40</b>
Chhattisgarh	1614.19	19873.57	1070.90	18802.67	1364.32	20166.99
Gujarat	553.60	18859.37	451.66	18407.71	8891.07	27298.77
Madhya Pradesh	187.64	5399.06	38.48	5360.58	4461.69	9822.27
Maharashtra	370.60	8794.97	1737.98	7056.99	8638.83	15695.82
Daman & Diu	0.00	0.50	0.00	0.50	39.01	39.51
D & N Haveli	0.00	22.21	0.00	22.21	1447.10	1469.31
Goa	0.30	14.21	1.30	12.91	427.34	440.25
<b>Sub-Total(WR)</b>	<b>2726.33</b>	<b>52963.88</b>	<b>3300.32</b>	<b>49663.56</b>	<b>25269.36</b>	<b>74932.91</b>
Andhra Pradesh	704.85	8350.73	572.45	7778.28	4730.77	12509.05
Telangana	395.13	4653.28	1068.83	3584.45	4670.98	8255.43
Karnataka	1179.84	13990.05	1869.41	12120.64	7186.44	19307.08
Kerala	58.79	1362.48	168.62	1193.86	1516.74	2710.60
Tamil nadu	689.67	9741.38	2408.13	7333.25	10272.34	17605.59
Puducherry	3.31	82.57	7.92	74.65	410.23	484.88
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total(SR)</b>	<b>3031.59</b>	<b>38180.48</b>	<b>6095.36</b>	<b>32085.12</b>	<b>28787.50</b>	<b>60872.62</b>
Bihar	65.84	625.89	135.13	490.76	152.72	643.48
Jharkhand	974.36	7741.17	606.13	7135.05	4541.19	11676.24
Odisha	6400.27	56187.55	3672.00	52515.55	12822.27	65337.82
West Bengal	554.30	4380.60	151.12	4229.48	7524.25	11753.73
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>7994.77</b>	<b>68935.21</b>	<b>4564.38</b>	<b>64370.83</b>	<b>25040.44</b>	<b>89411.27</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00
Assam	152.00	1325.71	28.73	1296.98	249.19	1546.18
Manipur	0.00	0.17	0.00	0.17	2.17	2.34
Meghalaya	3.36	35.41	0.00	35.41	244.87	280.28
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>155.36</b>	<b>1361.29</b>	<b>28.73</b>	<b>1332.57</b>	<b>496.23</b>	<b>1828.79</b>
<b>Total (All India)</b>	<b>16558.92</b>	<b>192751.85</b>	<b>17472.09</b>	<b>175279.76</b>	<b>100840.23</b>	<b>276119.99</b>

**TABLE 5.8**  
**ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2021-22**

(GWh)

State/UTs	Aluminium	Automobiles	Cement	Chemical	Colleries	Electrical Engineering	Fertiliser	Food Products
	1	2	3	4	5	6	7	8
Chandigarh	0.00	2.10	0.00	0.00	0.00	1.12	0.00	0.00
Delhi	0.00	0.00	0.00	0.00	0.00	0.05	0.00	32.25
Haryana	34.68	1426.71	214.67	254.70	0.00	79.56	4.95	224.57
Himachal Pradesh	0.00	27.78	855.53	148.88	0.00	53.76	0.00	116.10
UT of J&K and Ladakh	0.00	0.00	0.00	7.98	0.00	0.00	0.00	13.05
Punjab	12.48	354.70	132.02	183.59	0.00	13.03	135.65	360.58
Rajasthan	8.73	359.51	4782.51	661.87	0.00	171.92	0.00	134.53
Uttar Pradesh	6101.36	124.66	578.47	280.52	0.00	7.83	956.65	230.30
Uttarakhand	3.75	140.80	113.71	290.12	0.00	0.00	0.00	188.79
<b>Sub-Total ( N R )</b>	<b>6161.00</b>	<b>2436.27</b>	<b>6676.90</b>	<b>1827.67</b>	<b>0.00</b>	<b>327.29</b>	<b>1097.25</b>	<b>1300.16</b>
Chhattisgarh	8498.00	0.00	2220.34	3.16	0.00	204.62	0.00	11.97
Gujarat	272.10	58.13	890.89	7211.52	0.00	238.78	1795.40	394.54
Madhya Pradesh	0.00	822.95	3403.94	1585.11	0.00	528.63	254.76	151.33
Maharashtra	50.06	642.33	544.56	2080.57	0.00	164.71	459.20	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	0.00	0.00	97.88	0.00	0.00
Goa	0.00	0.00	23.92	12.50	0.00	0.00	5.26	31.20
<b>Sub-Total ( W R )</b>	<b>8833.75</b>	<b>1523.42</b>	<b>7083.64</b>	<b>10915.47</b>	<b>0.00</b>	<b>1234.62</b>	<b>2514.62</b>	<b>662.88</b>
Andhra Pradesh	34.20	96.58	2648.55	1195.32	0.00	5.17	169.90	214.51
Telangana	42.61	70.74	1741.77	1235.75	871.55	787.55	0.00	109.08
Karnataka	89.11	266.00	2126.03	873.69	0.00	54.80	313.62	189.06
Kerala	14.06	0.00	45.12	608.10	1.95	135.80	135.69	13.07
Tamil Nadu	33.64	1673.92	1552.30	1092.60	0.00	307.70	399.73	270.76
Puducherry	0.00	16.66	0.00	280.74	0.00	0.00	0.00	2.59
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>213.61</b>	<b>2123.90</b>	<b>8113.77</b>	<b>5286.19</b>	<b>873.50</b>	<b>1291.02</b>	<b>1018.94</b>	<b>799.07</b>
Bihar	0.00	0.00	80.28	0.00	0.00	0.00	29.89	8.81
Jharkhand	96.56	0.00	146.33	300.38	1565.56	0.00	0.00	0.00
Odisha	39800.71	0.00	713.20	166.04	368.24	0.00	595.33	15.87
West Bengal	5.41	0.00	355.41	229.58	846.02	192.24	102.51	88.68
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>39902.68</b>	<b>0.00</b>	<b>1295.22</b>	<b>696.00</b>	<b>2779.82</b>	<b>192.24</b>	<b>727.73</b>	<b>113.36</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	0.00	71.72	328.39	0.00	0.00	95.42	10.61
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	157.70	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>229.42</b>	<b>328.39</b>	<b>0.00</b>	<b>0.00</b>	<b>95.42</b>	<b>13.50</b>
<b>Total ( All India )</b>	<b>55111.05</b>	<b>6083.58</b>		<b>19053.71</b>	<b>3653.32</b>	<b>3045.17</b>	<b>5453.97</b>	<b>2888.98</b>

**TABLE 5.8 (CONTD.)**  
**ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2021-22**

(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	14.91	0.00	0.00	28.59
Delhi	0.00	0.00	0.00	2.20	2.88	0.00	85.55
Haryana	71.17	1015.47	0.00	32.14	2456.54	0.00	874.00
Himachal Pradesh	0.00	5.25	0.00	1.90	0.88	0.00	431.98
UT of J&K and Ladakh	0.00	5.02	0.00	0.00	0.00	0.00	0.00
Punjab	53.00	831.00	0.00	59.26	1224.74	0.00	312.84
Rajasthan	2.94	245.22	0.00	17.49	159.88	1139.86	1530.80
Uttar Pradesh	55.04	554.34	2.33	131.88	1210.41	0.00	491.69
Uttarakhand	36.63	360.85	0.00	7.36	9.37	0.00	506.31
<b>Sub-Total ( N R )</b>	<b>218.77</b>	<b>3017.16</b>	<b>2.33</b>	<b>267.14</b>	<b>5064.69</b>	<b>1139.86</b>	<b>4261.77</b>
Chhattisgarh	0.00	8650.07	0.00	0.00	22.09	506.24	14.02
Gujarat	158.30	1641.75	0.00	304.41	10202.46	0.00	1808.19
Madhya Pradesh	133.46	127.93	0.00	0.95	659.86	16.35	191.07
Maharashtra	0.00	4581.03	0.00	403.98	3049.40	0.00	1658.74
Daman & Diu	0.00	0.00	0.00	1.80	0.00	0.00	14.60
D & N Haveli	0.00	0.00	0.00	0.00	517.08	0.00	102.94
Goa	4.18	234.64	0.00	15.21	0.00	0.04	20.29
<b>Sub-Total ( W R )</b>	<b>295.94</b>	<b>15235.42</b>	<b>0.00</b>	<b>726.35</b>	<b>14450.89</b>	<b>522.63</b>	<b>3809.86</b>
Andhra Pradesh	306.31	4791.01	16.83	49.44	770.29	70.96	439.50
Telangana	43.48	695.98	0.00	127.98	0.00	79.73	372.82
Karnataka	81.66	9790.67	0.00	339.83	932.53	51.95	632.59
Kerala	30.26	11.18	0.00	2.08	1012.50	0.00	139.47
Tamil Nadu	173.89	1708.13	0.00	622.90	780.80	9.25	1016.12
Puducherry	0.00	0.00	0.00	8.43	0.00	0.00	32.28
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>635.59</b>	<b>16996.97</b>	<b>16.83</b>	<b>1150.66</b>	<b>3496.11</b>	<b>211.89</b>	<b>2632.78</b>
Bihar	0.00	0.00	8.11	0.25	407.33	0.00	11.78
Jharkhand	0.00	8200.68	0.00	303.77	0.00	945.83	92.93
Odisha	0.00	19989.80	1.50	20.47	1561.45	190.02	176.71
West Bengal	218.46	6470.73	414.63	21.87	1228.20	0.00	965.97
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>218.46</b>	<b>34661.22</b>	<b>424.23</b>	<b>346.37</b>	<b>3196.98</b>	<b>1135.85</b>	<b>1247.38</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	916.17	0.00	32.81
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	0.00	119.68	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>119.68</b>	<b>0.00</b>	<b>0.00</b>	<b>916.17</b>	<b>0.00</b>	<b>32.81</b>
<b>Total ( All India )</b>	<b>1368.76</b>	<b>70030.45</b>	<b>443.40</b>	<b>2490.52</b>	<b>27124.85</b>	<b>3010.23</b>	<b>11984.61</b>

**TABLE 5.8 (CONTD.)**  
**ALL INDIA ELECTRICITY CONSUMPTION BY CAPTIVE POWER PLANTS IN INDUSTRIES**  
**HAVING DEMAND OF 0.5 MW & ABOVE STATE-WISE/INDUSTRY-WISE**  
**2021-22**

(GWh)

State/UTs	Non Ferrous	Paper	Plastic	Rubber	Sugar	Textile	Non Industry	Total
	16	17	18	19	20	21	22	23
Chandigarh	0.06	0.00	0.00	0.00	0.00	0.00	22.79	69.57
Delhi	0.00	0.00	0.00	0.00	0.00	0.00	41.87	164.81
Haryana	65.01	71.82	15.66	135.93	98.42	282.66	890.59	8249.26
Himachal Pradesh	11.90	74.47	52.11	6.95	0.00	776.02	0.00	2563.50
UT of J&K and Ladakh	0.00	0.00	0.00	0.00	0.00	218.75	0.00	244.80
Punjab	3.96	757.80	93.58	42.18	114.84	1618.73	54.21	6358.19
Rajasthan	3661.26	1.85	161.48	117.74	0.10	1969.66	14.69	15142.03
Uttar Pradesh	0.00	316.14	28.70	32.92	1808.56	388.31	12.90	13313.03
Uttarakhand	0.00	746.86	128.02	318.67	22.71	86.11	9.14	2969.19
<b>Sub-Total ( N R )</b>	<b>3742.18</b>	<b>1968.94</b>	<b>479.55</b>	<b>654.39</b>	<b>2044.65</b>	<b>5340.24</b>	<b>1046.19</b>	<b>49074.40</b>
Chhattisgarh	0.00	11.56	0.00	0.00	24.82	0.10	0.00	20166.99
Gujarat	0.00	519.74	0.00	68.44	68.62	1665.50	0.00	27298.77
Madhya Pradesh	6.92	499.38	0.03	40.52	148.65	1250.44	0.00	9822.27
Maharashtra	0.00	744.00	171.90	127.21	571.59	372.69	0.00	15695.82
Daman & Diu	0.00	0.00	0.00	0.00	0.00	0.50	0.00	39.51
D & N Haveli	71.66	13.33	0.00	0.00	0.00	652.83	0.00	1469.31
Goa	0.00	0.00	0.00	93.00	0.00	0.00	0.00	440.25
<b>Sub-Total ( W R )</b>	<b>78.58</b>	<b>1788.00</b>	<b>171.93</b>	<b>329.17</b>	<b>813.68</b>	<b>3942.05</b>	<b>0.00</b>	<b>74932.91</b>
Andhra Pradesh	261.06	359.15	166.94	0.00	172.38	449.40	291.54	12509.05
Telangana	71.27	948.63	14.10	233.29	53.21	363.44	392.45	8255.43
Karnataka	61.91	408.95	8.41	12.31	1435.06	253.73	1385.19	19307.08
Kerala	62.53	140.46	0.00	144.98	0.00	44.27	169.08	2710.60
Tamil Nadu	42.28	900.89	427.34	563.94	310.64	4748.60	970.15	17605.59
Puducherry	0.00	0.00	4.71	101.59	3.37	2.78	31.72	484.88
Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Sub-Total ( S R )</b>	<b>499.05</b>	<b>2758.08</b>	<b>621.51</b>	<b>1056.11</b>	<b>1974.65</b>	<b>5862.23</b>	<b>3240.13</b>	<b>60872.62</b>
Bihar	0.00	0.00	0.00	0.00	92.15	0.00	4.89	643.48
Jharkhand	16.60	0.00	0.00	0.00	0.00	0.00	7.59	11676.24
Odisha	1003.60	527.35	0.00	14.40	14.07	0.00	179.07	65337.82
West Bengal	256.09	86.33	0.00	10.35	3.67	131.24	126.34	11753.73
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>1276.29</b>	<b>613.69</b>	<b>0.00</b>	<b>24.75</b>	<b>109.89</b>	<b>131.24</b>	<b>317.88</b>	<b>89411.27</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	0.00	87.29	0.00	0.00	0.00	0.00	3.77	1546.18
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	2.34	2.34
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.28
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>87.29</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>6.11</b>	<b>1828.79</b>
<b>Total ( All India )</b>	<b>5596.10</b>	<b>7216.00</b>	<b>1272.99</b>	<b>2064.43</b>	<b>4942.87</b>	<b>15275.77</b>	<b>4610.30</b>	<b>276119.99</b>

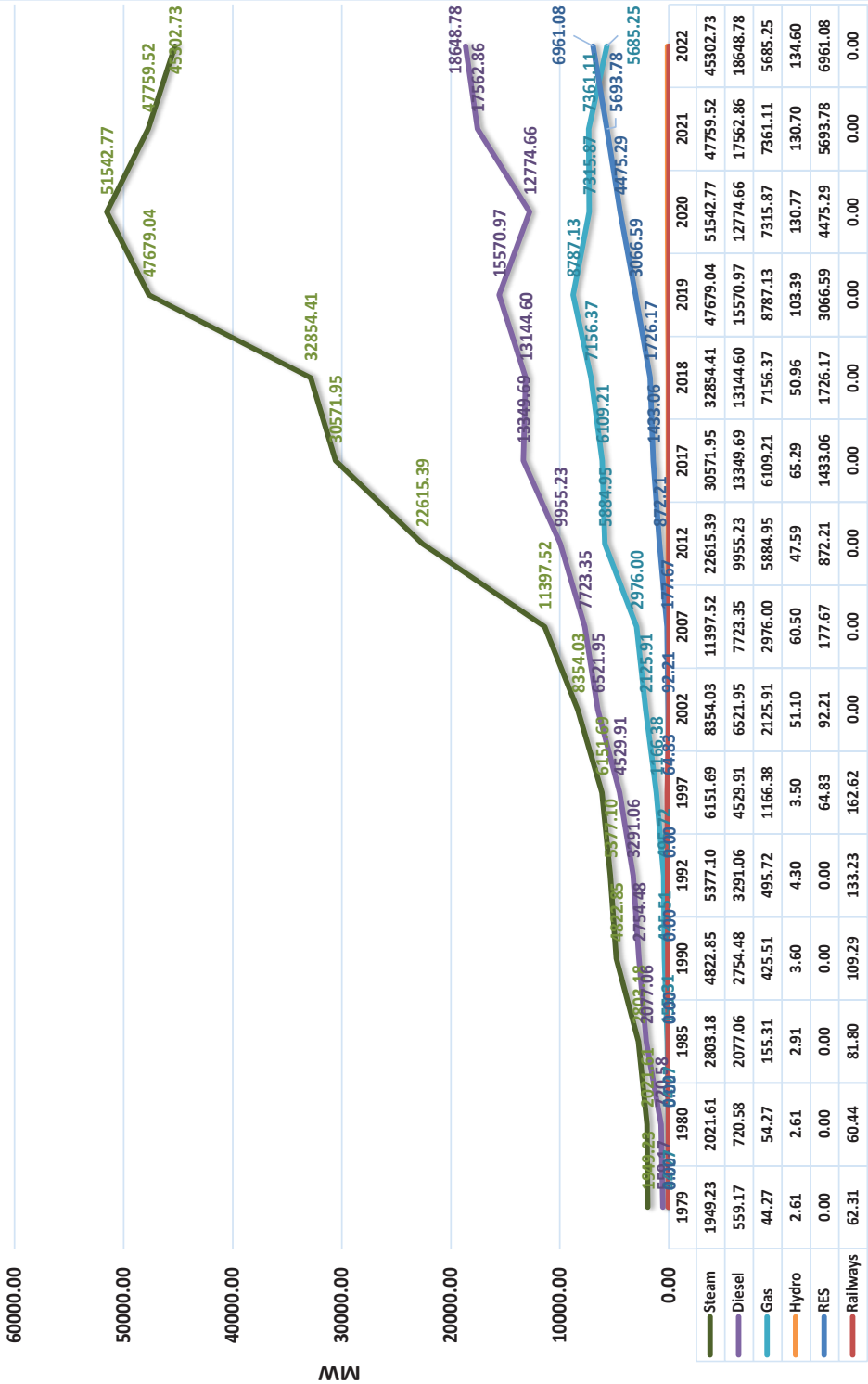
**TABLE 5.9**  
**CAPACITY WISE CLASSIFICATION OF ELECTRICITY GENERATED**  
**BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF**  
**0.5 MW & ABOVE**  
**2021-22**

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	8544	18948384	24.69	11259.46	5.38
10.00MW & Upto 20.00 MW	510	7392280	9.63	11837.97	5.66
20.00MW & Upto 30.00 MW	254	6382481	8.32	13388.43	6.40
30.00MW & Upto 40.00 MW	117	4121386	5.37	10514.58	5.02
40.00MW & Upto 50.00 MW	82	3816349	4.97	11386.11	5.44
50.00MW & Upto 100.00 MW	128	9144381	11.92	33014.03	15.77
Over 100.00MW	76	26927173	35.09	117910	56.33
<b>Total</b>	<b>9711</b>	<b>76732434</b>	<b>100.00</b>	<b>209310.77</b>	<b>100.00</b>





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



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

(MW)

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

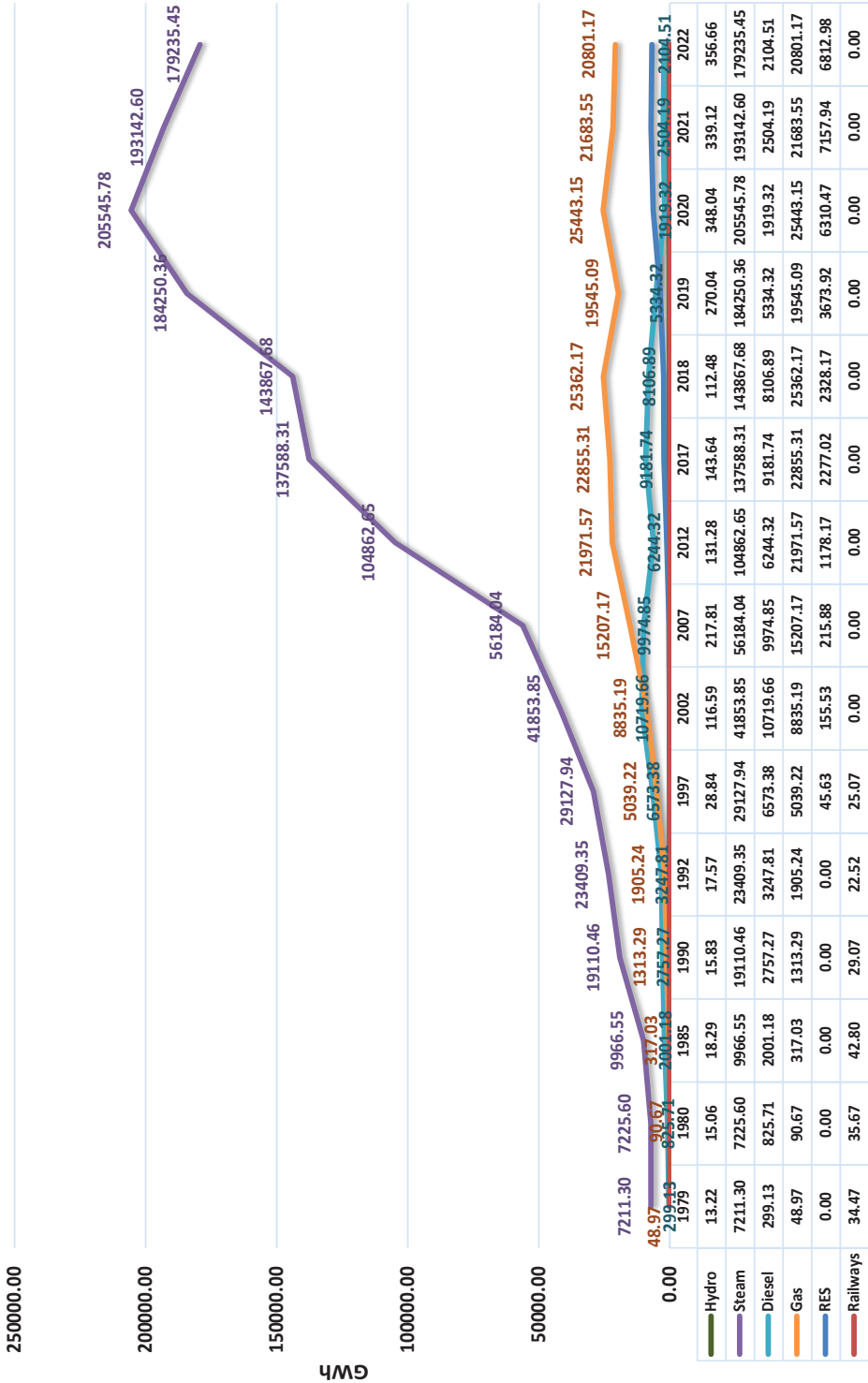
@ Includes RES

\*Breakup not available

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



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



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

(GWh)

Year Ending	Hydro	Steam	Diesel @	Gas	Railways	Total
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
2021-22	356.66	179235.45	8917.49	20801.17	0.00	209310.77

@ Includes RES

\*Breakup not available

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

## CHAPTER 6

### ELECTRIC POWER SUPPLY AND SYSTEM LOSSES

- During the year 2021-22 gross electricity generation (utilities) was 1484463.08 GWh, out of which 86756.24 GWh representing 5.84% of gross generation was consumed in power station auxiliaries. Thus net generation available at the bus-bar was 1397706.83 GWh.
- Electricity purchased by public utilities from captive power plants was 17472.09 GWh and electricity imported from Bhutan was 7974.01 GWh. Thus the total electricity available for supply during the year was 1423152.93 GWh as compared to 1323598.52 GWh during the year 2020-21.
- Electricity sold to various classes of consumers during the year 2021-22 was 1141484.97 GWh and electricity exported outside the country i.e. to Nepal, Bangladesh and Myanmar was 9249.39 GWh.
- The electricity lost in transformation, transmission and distribution system and electricity unaccounted worked out to 272418.57 GWh representing 19.27% of the total available electricity.
- The T&D Loss in country has decreased by 1.46% from 20.73% in FY 2020-21 to 19.27% in FY 2021-22.
- Amongst all the regions percentage system losses were maximum in North-Eastern Region i.e. 27.23%. This was followed by Northern Region with 21.92%, Eastern Region 21.58%, Western Region with 19.41% and Southern Region with 14.61% 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**  
**2021-22**

Sl. No.	Item	Energy (GWh)	Percentage (%) of Sl. 1
1	Gross Energy Generated (Utilities)	1484463.08	100.00
2	Energy Used in Power Station Auxiliaries	86756.24	5.84
3	Net Energy at bus bars (1-2)	1397706.83	94.16
			<b>Percentage (%) of sl. 4</b>
4	Energy at bus bars (same as 3)	1397706.83	100.00
5	Energy purchased from Non-Utilities	17472.09	1.25
6	Energy Imported from other country	7974.01	0.57
7	Total Energy Available (4+5+6)	1423152.93	101.82
8	Energy sold to other countries	9249.39	0.66
9	Net Energy Available for Supply (7-8)	1413903.54	101.16
			<b>Percentage (%) of sl. 10</b>
10	"Net Energy available for supply (same as 9)"	1413903.54	100.00
11	*Energy sold to ultimate consumers	1141484.97	80.73
12	"Energy loss in transformation, transmission and distribution and unaccounted for (10-11)"	272418.57	19.27

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





**TABLE 6.2**  
**REGIONAL TRANSMISSION LOSSES**  
**UTILITIES**  
**2021-22**

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	204182.88	1875.56	299.80	0.00	0.00	194085.66	7921.86	3.88
Western Region	274384.88	70673.26	0.00	0.00	0.00	193998.52	9713.10	3.54
Southern Region	165603.60	7210.41	0.00	0.00	0.00	152416.93	5976.26	3.61
Eastern Region	130523.81	54363.82	1609.33	6370.97	0.00	63618.99	4560.71	3.49
North Eastern Region	19577.15	3384.72	0.00	960.50	8.80	14394.63	828.50	4.23

**TABLE 6.3**  
**REGIONWISE ENERGY GENERATED, PURCHASED, SOLD AND LOSSES**  
**UTILITIES**  
**2021-22**

Sl. No.	ITEM	NORTHERN	WESTERN	SOUTH-ERN	EASTERN	NORTH-EAST	ALL INDIA
1	Own including IPP & others Ex-bus Generation (GWh)	217478.61	229901.33	204507.67	93461.19	3567.49	748916.29
2	Ex-bus import from cpp (GWh)	3483.30	3300.32	6095.36	4564.38	28.73	17472.09
3	Energy available for drawal from grid including Import from other country (GWh)	202307.32	203711.61	158393.19	76159.99	16192.43	656764.55
4	Total Energy Available (GWh) (1+2+3)	423269.23	436913.27	368996.22	174185.56	19788.65	1423152.93
5	Energy Sold/Export to other countries (GWh)	299.80	0.00	0.00	7980.29	969.30	9249.39
6	"Net Energy available for supply/Availability Ex-bus (GWh) (4-5)"	422969.43	436913.27	368996.22	166205.27	18819.35	1413903.54
7	Energy sold to ultimate consumers (GWh)	330263.67	352096.34	315097.80	130333.23	13693.94	1141484.97
8	Energy loss in transformation, transmission and distribution and unaccounted for (GWh) (6-7)	92705.77	84816.93	53898.42	35872.04	5125.41	272418.57
9	Percentage loss (%) $(= (8/6) \times 100)$	21.92	19.41	14.61	21.58	27.23	19.27

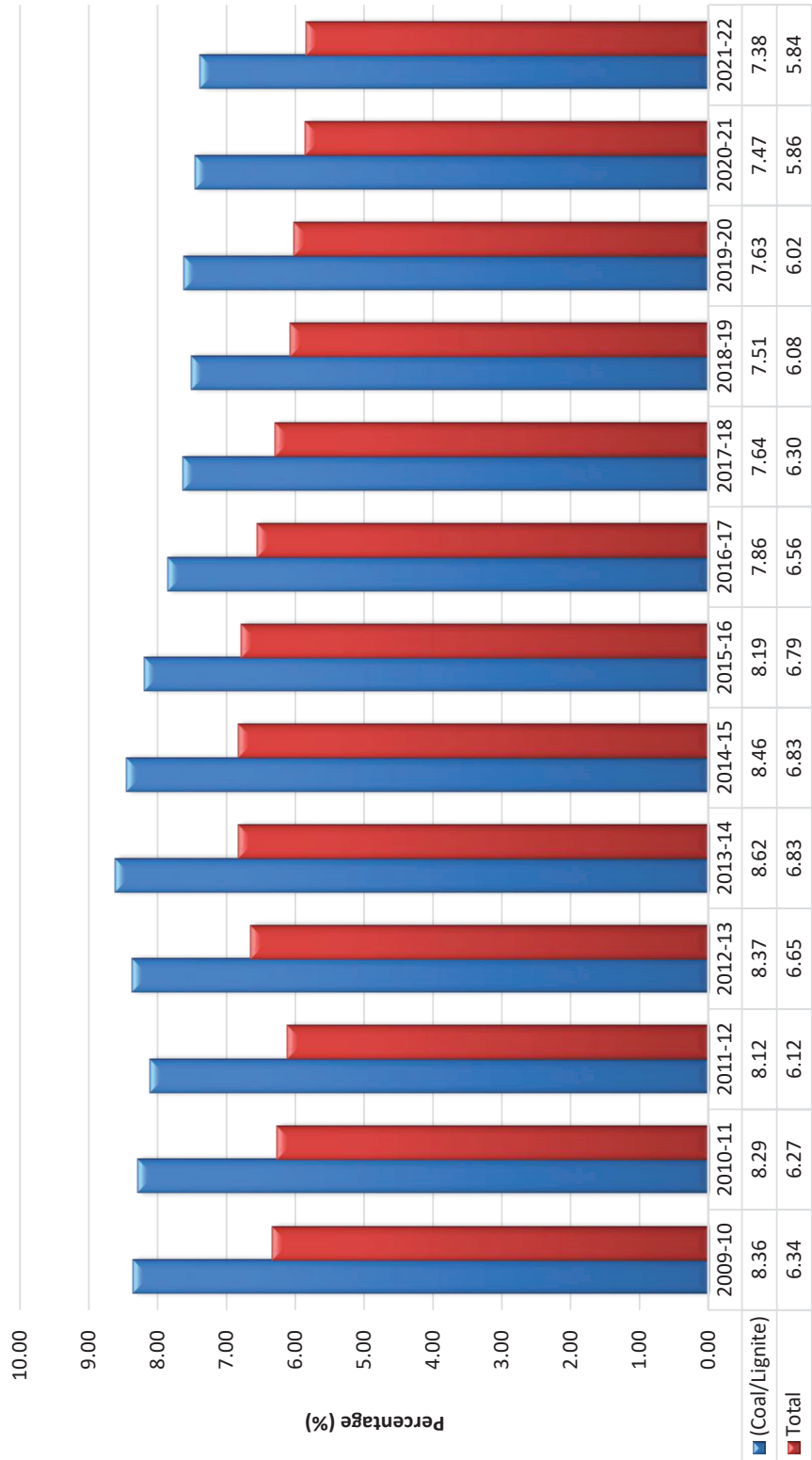
**TABLE 6.4**  
**STATE-WISE SYSTEM LOSSES IN THE YEAR**  
**2021-22**

States/UTs	Own Incl. IPP & others Ex-bus Gen.	Ex-bus im- port from grid (*)	Ex-bus import from cpp	Availability Ex-bus (2+3+4)	Total consump- tions	T & D Losses (5-6)	T&D Losses	
							2021-22 (7*100/5)	2020- 21
							GWh	%
1	2	3	4	5	6	7	8	9
Chandigarh	14.19	1625.94	1.35	1641.48	1409.33	232.15	14.14	16.88
Delhi	5711.66	25897.09	0.33	31609.08	27624.83	3984.25	12.60	13.50
Haryana	18074.92	39256.61	108.48	57440.01	46230.71	11209.31	19.51	23.83
Himachal	7731.64	4084.21	0.46	11816.31	10198.09	1618.23	13.69	14.40
J & K	5483.40	12865.15	0.00	18348.55	10230.97	8117.58	44.24	43.88
Punjab	27706.44	34605.38	270.47	62582.29	53489.47	9092.82	14.53	14.79
Rajasthan	70312.28	25868.96	1126.68	97307.93	69831.14	27476.78	28.24	27.60
Uttar Pradesh	74142.12	50230.98	1941.63	126314.73	98730.34	27584.39	21.84	25.13
Uttarakhand	8301.95	7573.22	33.89	15909.06	12518.80	3390.26	21.31	21.99
<b>NORTHERN REGION</b>	<b>217478.61</b>	<b>202007.52</b>	<b>3483.30</b>	<b>422969.43</b>	<b>330263.67</b>	<b>92705.77</b>	<b>21.92</b>	<b>23.52</b>
Chhattisgarh	16620.39	15275.09	1070.90	32966.30	25161.29	7805.01	23.68	25.56
Gujarat	65920.13	64246.46	451.66	130618.26	106469.10	24149.16	18.49	20.66
Madhya Pradesh	34021.97	52955.57	38.48	87016.03	65502.03	21514.00	24.72	27.59
Maharastra	113225.19	57112.00	1737.98	172075.17	142088.05	29987.13	17.43	19.61
Daman & Diu	47.67	2677.58	0.00	2725.25	2482.36	242.89	8.91	10.73
D & N Haveli	49.16	7097.97	0.00	7147.13	6379.94	767.20	10.73	10.09
Goa	16.82	4347.01	1.30	4365.13	4013.58	351.54	8.05	15.88
<b>WESTERN REGION</b>	<b>229901.33</b>	<b>203711.61</b>	<b>3300.32</b>	<b>436913.27</b>	<b>352096.34</b>	<b>84816.93</b>	<b>19.41</b>	<b>21.81</b>
Andhra Pradesh	45121.40	29051.92	572.45	74745.77	63268.65	11477.12	15.35	15.97
Telangana	44762.95	26678.09	1068.83	72509.87	62101.84	10408.03	14.35	14.95
Karnataka	51333.56	19829.03	1869.41	73032.00	61064.00	11968.01	16.39	16.72
Kerala	10753.32	16791.43	168.62	27713.38	23931.48	3781.90	13.65	13.51
Tamilnadu	52227.84	63036.26	2408.13	117672.23	101907.96	15764.27	13.40	13.30
Puducherry	249.75	3006.47	7.92	3264.14	2773.64	490.50	15.03	12.14
Lakshadweep	58.84	0.00	0.00	58.84	50.25	8.59	14.60	5.66
<b>SOUTHERN REGION</b>	<b>204507.67</b>	<b>158393.19</b>	<b>6095.36</b>	<b>368996.22</b>	<b>315097.80</b>	<b>53898.42</b>	<b>14.61</b>	<b>14.86</b>
Bihar	239.83	35457.06	135.13	35832.02	26064.23	9767.78	27.26	31.30
Jharkhand	20538.42	8789.85	606.13	29934.40	23138.83	6795.56	22.70	21.02
Orissa	19335.49	15288.86	3672.00	38296.36	29541.37	8754.99	22.86	24.39
West Bengal	53046.81	8009.02	151.12	61206.95	50880.90	10326.05	16.87	17.55
Sikkim	12.35	634.91	0.00	647.27	440.60	206.67	31.93	33.89
A & N. Islands	288.28	0.00	0.00	288.28	267.30	20.98	7.28	7.52
<b>EASTERN REGION</b>	<b>93461.19</b>	<b>68179.70</b>	<b>4564.38</b>	<b>166205.27</b>	<b>130333.23</b>	<b>35872.04</b>	<b>21.58</b>	<b>22.72</b>
Arunachal Pradesh	2.13	906.00	0.00	908.13	518.25	389.88	42.93	46.11
Assam	2030.02	9376.05	28.73	11434.80	8521.11	2913.69	25.48	28.76
Manipur	6.72	1068.89	0.00	1075.62	731.70	343.91	31.97	37.34
Meghalaya	882.73	1407.29	0.00	2290.01	1506.67	783.35	34.21	34.68
Mizoram	28.09	828.21	0.00	856.30	660.92	195.39	22.82	23.90
Nagaland	63.47	825.45	0.00	888.93	704.23	184.70	20.78	21.86
Tripura	554.31	811.25	0.00	1365.56	1051.06	314.50	23.03	23.67
<b>NORTH EASTERN REGION</b>	<b>3567.49</b>	<b>15223.13</b>	<b>28.73</b>	<b>18819.35</b>	<b>13693.94</b>	<b>5125.41</b>	<b>27.23</b>	<b>29.86</b>
<b>All India</b>	<b>748916.29</b>	<b>647515.16</b>	<b>17472.09</b>	<b>1413903.54</b>	<b>1141484.97</b>	<b>272418.57</b>	<b>19.27</b>	<b>20.73</b>
<b>Export to Other Countries</b>				<b>9249.39</b>				

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



### ALL INDIA AUXILIARIES POWER CONSUMPTION % AGE



**TABLE 6.5.0**  
**TOTAL AUXILIARY CONSUMPTION DURING ALL MODES**  
**UTILITIES**  
**2021-22**

(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	281.46	0.00	143.29	0.00	0.00	424.74
Haryana	10.00	1521.39	0.00	12.02	0.00	0.00	1543.41
Himachal Pradesh	53.74	0.00	0.00	0.00	0.00	8.19	61.93
Jammu & Kashmir	49.52	0.00	0.00	0.00	0.00	0.00	49.52
Punjab	45.41	2268.93	0.00	12.02	0.00	0.20	2326.56
Rajasthan	10.57	4238.26	0.00	57.63	0.00	0.07	4306.53
Uttar Pradesh	25.29	5029.64	0.00	0.00	0.00	0.00	5054.93
Uttarakhand	66.71	62.32	0.00	34.13	0.00	0.00	163.17
Central Sector	413.10	5493.90	0.00	79.18	1254.12	20.89	7261.18
<b>Sub Total (NR)</b>	<b>674.34</b>	<b>18895.90</b>	<b>0.00</b>	<b>338.27</b>	<b>1254.12</b>	<b>29.35</b>	<b>21191.98</b>
Chhattisgarh	0.78	6347.12	0.00	0.00	0.00	1.94	6349.84
Gujarat	9.46	4191.51	0.00	294.56	0.00	11.26	4506.79
Madhya Pradesh	42.71	4353.11	0.00	0.00	0.00	0.00	4395.81
Maharashtra	62.40	7396.22	0.00	89.04	0.00	0.00	7547.65
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	21.93	7789.01	0.00	105.59	1157.11	13.21	9086.85
<b>Sub Total (WR)</b>	<b>137.27</b>	<b>30076.97</b>	<b>0.00</b>	<b>489.18</b>	<b>1157.11</b>	<b>26.42</b>	<b>31886.95</b>
Andhra Pradesh	24.37	3186.02	0.00	86.47	0.00	0.45	3297.31
Telangana	86.02	2190.15	0.00	0.00	0.00	2.45	2278.62
Karnataka	182.41	1972.62	0.00	0.00	0.00	0.69	2155.72
Kerala	82.39	0.00	0.00	0.00	0.00	7.19	89.58
Tamil Nadu	22.56	2236.38	0.00	153.86	0.00	2.08	2414.88
Puducherry	0.00	0.00	0.00	13.62	0.00	0.00	13.62
Lakshadweep	0.00	0.00	0.38	0.00	0.00	0.00	0.38
Central Sector	0.00	5108.56	0.00	0.00	1811.14	14.13	6933.83
<b>Sub Total (SR)</b>	<b>397.76</b>	<b>14693.73</b>	<b>0.38</b>	<b>253.94</b>	<b>1811.14</b>	<b>26.99</b>	<b>17183.93</b>
Bihar	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jharkhand	0.18	1020.79	0.00	0.00	0.00	0.00	1020.97
Odisha	45.40	2128.35	0.00	0.00	0.00	0.00	2173.75
West Bengal	15.50	3559.15	0.00	0.00	0.00	0.00	3574.65
Sikkim	39.50	0.00	0.00	0.00	0.00	0.00	39.50
A.& N. Islands	0.00	0.00	4.69	0.00	0.00	0.63	5.32
Central Sector	46.24	8854.64	0.00	0.00	0.00	0.51	8901.39
<b>Sub Total (ER)</b>	<b>146.82</b>	<b>15562.93</b>	<b>4.69</b>	<b>0.00</b>	<b>0.00</b>	<b>1.14</b>	<b>15715.58</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Assam	2.04	0.00	0.00	74.50	0.00	0.00	76.54
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Meghalaya	3.67	0.00	0.00	0.00	0.00	0.10	3.77
Mizoram	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	13.26	0.00	0.00	13.26
Central Sector	34.17	382.00	0.00	268.06	0.00	0.00	684.23
<b>Sub Total (NER)</b>	<b>39.88</b>	<b>382.00</b>	<b>0.00</b>	<b>355.82</b>	<b>0.00</b>	<b>0.10</b>	<b>777.79</b>
<b>All India</b>	<b>1396.07</b>	<b>79611.53</b>	<b>5.07</b>	<b>1437.21</b>	<b>4222.37</b>	<b>83.99</b>	<b>86756.24</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**  
**2021-22**

State/UTs	Gross Electricity Generation (GWh)	Net Electricity Generation (GWh)	Auxiliary Consumption (GWh)	% of Gross Generation
Chandigarh	14.19	14.19	0.00	0.00
Delhi	8455.20	8030.46	424.74	5.02
Haryana	22869.59	21326.18	1543.41	6.75
Himachal Pradesh	11877.25	11815.32	61.93	0.52
Jammu & Kashmir	5764.50	5714.98	49.52	0.86
Punjab	38241.56	35915.00	2326.56	6.08
Rajasthan	77808.33	73501.80	4306.53	5.53
Uttar Pradesh	76053.22	70998.28	5054.93	6.65
Uttarakhand	10992.22	10829.05	163.17	1.48
Central Sector	136225.46	128964.28	7261.18	5.33
<b>Sub Total (NR)</b>	<b>388301.53</b>	<b>367109.55</b>	<b>21191.98</b>	<b>5.46</b>
Chhattisgarh	85863.55	79513.71	6349.84	7.40
Gujarat	76832.91	72326.12	4506.79	5.87
Madhya Pradesh	70592.33	66196.52	4395.81	6.23
Maharashtra	126071.81	118524.15	7547.65	5.99
Daman & Diu	47.67	47.67	0.00	0.00
D. & N. Haveli	49.16	49.16	0.00	0.00
Goa	16.82	16.82	0.00	0.00
Central Sector	144386.97	135300.12	9086.85	6.29
<b>Sub Total (WR)</b>	<b>503861.22</b>	<b>471974.27</b>	<b>31886.95</b>	<b>6.33</b>
Andhra Pradesh	62523.64	59226.32	3297.31	5.27
Telangana	47398.19	45119.57	2278.62	4.81
Karnataka	66202.94	64047.21	2155.72	3.26
Kerala	10842.90	10753.32	89.58	0.83
Tamil Nadu	56917.47	54502.59	2414.88	4.24
Puducherry	263.37	249.75	13.62	5.17
Lakshadweep	59.21	58.84	0.38	0.64
Central Sector	92919.41	85985.59	6933.83	7.46
<b>Sub Total (SR)</b>	<b>337127.13</b>	<b>319943.20</b>	<b>17183.93</b>	<b>5.10</b>
Bihar	239.83	239.83	0.00	0.00
Jharkhand	14926.85	13905.87	1020.97	6.84
Odisha	34703.99	32530.24	2173.75	6.26
West Bengal	47235.88	43661.23	3574.65	7.57
Sikkim	4075.86	4036.36	39.50	0.97
A. & N. Islands	184.60	179.28	5.32	2.88
Central Sector	133225.75	124324.36	8901.39	6.68
<b>Sub Total (ER)</b>	<b>234592.77</b>	<b>218877.18</b>	<b>15715.58</b>	<b>6.70</b>
Arunachal Pradesh	2.13	2.13	0.00	0.00
Assam	2106.56	2030.02	76.54	3.63
Manipur	6.72	6.72	0.00	0.00
Meghalaya	886.50	882.73	3.77	0.43
Mizoram	28.09	28.09	0.00	0.00
Nagaland	63.47	63.47	0.00	0.00
Tripura	567.57	554.31	13.26	2.34
Central Sector	16919.38	16235.15	684.23	4.04
<b>Sub Total (NER)</b>	<b>20580.43</b>	<b>19802.64</b>	<b>777.79</b>	<b>3.78</b>
<b>All India</b>	<b>1484463.08</b>	<b>1397706.83</b>	<b>86756.24</b>	<b>5.84</b>

**TABLE 6.5.2**  
**AUXILIARY CONSUMPTION FOR HYDRO PLANTS REGION-WISE/STATE-WISE**  
**UTILITIES**  
**2021-22**

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	1052.80	1042.80	10.00	0.95
Himachal Pradesh	9833.49	9779.75	53.74	0.55
Jammu & Kashmir	5348.69	5299.17	49.52	0.93
Punjab	4466.12	4420.71	45.41	1.02
Rajasthan	1052.11	1041.54	10.57	1.00
Uttar Pradesh	2492.50	2467.21	25.29	1.01
Uttarakhand	8290.75	8224.04	66.71	0.80
Central Sector	45831.64	45418.54	413.10	0.90
<b>Sub Total (NR)</b>	<b>78368.10</b>	<b>77693.76</b>	<b>674.34</b>	<b>0.86</b>
Chhattisgarh	404.13	403.35	0.78	0.19
Gujarat	1153.18	1143.72	9.46	0.82
Madhya Pradesh	3159.47	3116.76	42.71	1.35
Maharashtra	6276.34	6213.94	62.40	0.99
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	2645.41	2623.48	21.93	0.83
<b>Sub Total (WR)</b>	<b>13638.53</b>	<b>13501.26</b>	<b>137.27</b>	<b>1.01</b>
Andhra Pradesh	3421.39	3397.02	24.37	0.71
Telangana	5986.02	5900.00	86.02	1.44
Karnataka	13772.48	13590.07	182.41	1.32
Kerala	9317.44	9235.05	82.39	0.88
Tamil Nadu	5212.07	5189.51	22.56	0.43
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>37709.40</b>	<b>37311.64</b>	<b>397.76</b>	<b>1.05</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	302.49	302.31	0.18	0.06
Odisha	4727.66	4682.26	45.40	0.96
West Bengal	1630.14	1614.64	15.50	0.95
Sikkim	4063.51	4024.01	39.50	0.97
A. & N. Islands	0.00	0.00	0.00	0.00
Central Sector	4814.69	4768.45	46.24	0.96
<b>Sub Total (ER)</b>	<b>15538.49</b>	<b>15391.67</b>	<b>146.82</b>	<b>0.94</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	401.12	399.08	2.04	0.51
Manipur	0.00	0.00	0.00	0.00
Meghalaya	841.82	838.15	3.67	0.44
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	5129.87	5095.70	34.17	0.67
<b>Sub Total (NER)</b>	<b>6372.81</b>	<b>6332.93</b>	<b>39.88</b>	<b>0.63</b>
<b>All India</b>	<b>151627.33</b>	<b>150231.26</b>	<b>1396.07</b>	<b>0.92</b>

**TABLE 6.5.3**  
**AUXILIARY CONSUMPTION FOR THERMAL(COAL & LIGNITE) PLANTS**  
**REGION-WISE/STATE-WISE(UTILITIES)**  
**2021-22**

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	3688.80	3407.34	281.46	7.63
Haryana	20367.71	18846.32	1521.39	7.47
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	30212.84	27943.91	2268.93	7.51
Rajasthan	52156.70	47918.44	4238.26	8.13
Uttar Pradesh	67767.25	62737.61	5029.64	7.42
Uttarakhand	816.83	754.51	62.32	7.63
Central Sector	75694.87	70200.97	5493.90	7.26
<b>Sub Total (NR)</b>	<b>250705.00</b>	<b>231809.10</b>	<b>18895.90</b>	<b>7.54</b>
Chhattisgarh	83521.21	77174.09	6347.12	7.60
Gujarat	44797.05	40605.54	4191.51	9.36
Madhya Pradesh	59173.81	54820.70	4353.11	7.36
Maharashtra	101016.79	93620.57	7396.22	7.32
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	124676.38	116887.37	7789.01	6.25
<b>Sub Total (WR)</b>	<b>413185.24</b>	<b>383108.27</b>	<b>30076.97</b>	<b>7.28</b>
Andhra Pradesh	41756.53	38570.51	3186.02	7.63
Telangana	34100.06	31909.91	2190.15	6.42
Karnataka	23796.18	21823.56	1972.62	8.29
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	26244.87	24008.49	2236.38	8.52
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Central Sector	68934.96	63826.40	5108.56	7.41
<b>Sub Total (SR)</b>	<b>194832.60</b>	<b>180138.87</b>	<b>14693.73</b>	<b>7.54</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	14595.65	13574.86	1020.79	6.99
Odisha	28908.42	26780.07	2128.35	7.36
West Bengal	43760.65	40201.50	3559.15	8.13
Sikkim	0.00	0.00	0.00	0.00
A. & N. Islands	0.00	0.00	0.00	0.00
Central Sector	128392.46	119537.82	8854.64	6.90
<b>Sub Total (ER)</b>	<b>215657.18</b>	<b>200094.25</b>	<b>15562.93</b>	<b>7.22</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	4201.45	3819.45	382.00	9.09
<b>Sub Total (NER)</b>	<b>4201.45</b>	<b>3819.45</b>	<b>382.00</b>	<b>9.09</b>
<b>All India</b>	<b>1078581.47</b>	<b>998969.94</b>	<b>79611.53</b>	<b>7.38</b>



**TABLE 6.5.4**  
**AUXILIARY CONSUMPTION FOR DIESEL PLANTS REGIONWISE/STATEWISE**  
**UTILITIES**  
**2021-22**

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	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	58.91	58.53	0.38	0.64
Central Sector	0.00	0.00	0.00	0.00
<b>Sub-Total(SR)</b>	<b>58.91</b>	<b>58.53</b>	<b>0.38</b>	<b>0.64</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	155.24	150.55	4.69	3.02
Central Sector	0.00	0.00	0.00	0.00
<b>Sub-Total(ER)</b>	<b>155.24</b>	<b>150.55</b>	<b>4.69</b>	<b>3.02</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>214.15</b>	<b>209.08</b>	<b>5.07</b>	<b>2.37</b>

**TABLE 6.5.5**  
**AUXILIARY CONSUMPTION FOR GAS BASED PLANTS REGIONWISE/STATEWISE**  
**UTILITIES**  
**2021-22**

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	4307.67	4164.38	143.29	3.33
Haryana	320.45	308.43	12.02	3.75
Himachal Pradesh	0.00	0.00	0.00	0.00
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	320.45	308.43	12.02	3.75
Rajasthan	1392.87	1335.24	57.63	4.14
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	1012.32	978.19	34.13	3.37
Central Sector	1374.93	1295.75	79.18	5.76
<b>Sub Total (NR)</b>	<b>8728.69</b>	<b>8390.42</b>	<b>338.27</b>	<b>3.88</b>
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	6702.39	6407.83	294.56	4.39
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	2980.27	2891.23	89.04	2.99
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	3795.38	3689.79	105.59	2.78
<b>Sub Total (WR)</b>	<b>13478.04</b>	<b>12988.86</b>	<b>489.18</b>	<b>3.63</b>
Andhra Pradesh	2094.34	2007.87	86.47	4.13
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	1732.22	1578.36	153.86	8.88
Puducherry	251.13	237.51	13.62	5.42
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>4077.69</b>	<b>3823.75</b>	<b>253.94</b>	<b>6.23</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	1611.96	1537.46	74.50	4.62
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	565.60	552.34	13.26	2.34
Central Sector	7553.79	7285.73	268.06	3.55
<b>Sub Total (NER)</b>	<b>9731.35</b>	<b>9375.53</b>	<b>355.82</b>	<b>3.66</b>
<b>All India</b>	<b>36015.77</b>	<b>34578.56</b>	<b>1437.21</b>	<b>3.99</b>

**TABLE 6.5.6**  
**AUXILIARY CONSUMPTION FOR NUCLEAR BASED PLANTS REGIONWISE/STATEWISE**  
**UTILITIES**  
**2021-22**

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	11889.10	10634.98	1254.12	10.55
<b>Sub Total (NR)</b>	<b>11889.10</b>	<b>10634.98</b>	<b>1254.12</b>	<b>10.55</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	12105.65	10948.54	1157.11	9.56
<b>Sub Total (WR)</b>	<b>12105.65</b>	<b>10948.54</b>	<b>1157.11</b>	<b>9.56</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	23117.31	21306.17	1811.14	7.83
<b>Sub Total (SR)</b>	<b>23117.31</b>	<b>21306.17</b>	<b>1811.14</b>	<b>7.83</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>47112.06</b>	<b>42889.69</b>	<b>4222.37</b>	<b>8.96</b>

## CHAPTER 7

### OPERATING DATA OF UTILITIES

#### Fuel Consumption

- There are 181 Nos. of Coal fired thermal stations operating in the country as on 31.03.2022.
- CEA is monitoring fuel consumption of 178 stations having Installed Capacity 204560 MW.
- For the year 2021-22, the Coal consumption of 178 stations was 697.34 Million Tonnes.

#### Thermal Efficiency

- The total numbers of Coal/Lignite/Multi-fuel Power Stations ending March 2022 were 193 having an aggregate installed capacity of 210699.50 MW. Out of these, 181 Stations are coal fired and 12 are of Lignite fired.
- CEA has received actual data of 153 Thermal Power Stations. These Thermal Power Stations have capacity of 187190.50 MW.
- 2.61% stations are operating below 25%, 8.50% stations are operating at 25% to 30%, 28.10% stations are operating at 30% to 35% and 60.78% stations are operating at above 35% efficiency.

#### Plant Load Factor

- Under Private Sector, Jharkhand recorded the highest PLF of 80.02%.
- All India Plant Load factors of Central Sector Thermal Power Stations were 69.71% .All India Plant Load Factors of State and Private Sector of Thermal Power Stations were 54.50% and 53.59% respectively.
- All India PLF of all Nuclear Power Stations in the country was 79.32%.

#### Manpower

- Amongst State Electricity Corporations/Undertakings that have reported the engaged manpower, Tamil Nadu Generation & Distribution Corporation Ltd. had the highest manpower engaged as regular & non-regular
- Tamil Nadu was followed by Maharashtra State Electricity Distribution Co. Ltd., 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**  
**2021-22**

State/UTs	Coal/Lignite based Power Plants						
	COAL	FURNACE	LIGHT DIESEL	LSHS/HHS	GAS	LIGNITE	Generation
	000' MT	OIL (KL)	OIL/HSD(KL)	(KL)	(MMSCM)	000'(MT)	(GWh)
Delhi	0	0	0	0	0	0	0
Haryana	10369	559	4607	0	0	0	15796
Himachal Pradesh	0	0	0	0	0	0	0
Jammu & Kashmir	0	0	0	0	0	0	0
Punjab	15325	11634	4516	0	0	0	24176
Rajasthan	24518	14797	11373	9184	0	5943	47981
Uttar Pradesh	41248	28307	11512	0	0	0	63683
Uttarakhand	0	0	0	0	0	0	0
Central Sector (NR)	48033	3731	40803	2815	0	1259	75695
<b>Sub-Total (NR)</b>	<b>139493</b>	<b>59028</b>	<b>72811</b>	<b>11999</b>	<b>0</b>	<b>7202</b>	<b>227331</b>
Chhattisgarh	62911	9056	8793	0	0	0	83521
Gujarat	25278	55276	11876	634	0	6263	49568
Madhya Pradesh	48366	15676	15091	0	0	0	79595
Maharashtra	68424	2572	49813	0	418	0	99199
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)	86153	17025	50598	0	0	0	124676
<b>Sub-Total (WR)</b>	<b>291133</b>	<b>99605</b>	<b>136171</b>	<b>634</b>	<b>418</b>	<b>6263</b>	<b>436560</b>
Andhra Pradesh	28328	8522	2568	0	0	0	41757
Telangana	20416	26545	5589	0	0	0	34100
Karnataka	14459	26297	2950	0	497479	0	23796
Kerala	0	0	0	0	0	0	0
Tamil Nadu	20606	20419	2580	0	0	1513	26245
Puducherry	0	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0	0
Central Sector (SR)	32685	36787	20309	0	0	23137	68935
<b>Sub-Total (SR)</b>	<b>116495</b>	<b>118570</b>	<b>33996</b>	<b>0</b>	<b>497479</b>	<b>24650</b>	<b>194833</b>
Bihar	0	0	0	0	0	0	0
Jharkhand	9469	2957	584	0	0	0	14596
Orissa	21066	1799	2243	0	0	0	28908
West Bengal	28921	0	20300	0	0	0	43761
Sikkim	0	0	0	0	0	0	0
A.& N. Islands	0	0	0	0	0	0	0
Central Sector (ER)	88273	39943	69786	1561	0	0	128392
<b>Sub-Total (ER)</b>	<b>147729</b>	<b>44699</b>	<b>92913</b>	<b>1561</b>	<b>0</b>	<b>0</b>	<b>215657</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)	2491	0	2148	0	0	0	4201
<b>Sub-Total (NER)</b>	<b>2491</b>	<b>0</b>	<b>2148</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4201</b>
<b>Total (All India)</b>	<b>697340</b>	<b>321902</b>	<b>338040</b>	<b>14194</b>	<b>497897</b>	<b>38115</b>	<b>1078581</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**  
**2021-22**

State/UTs	Gas based Power Plants				Diesel Power Plants		
	Natural Gas	H.S.D.	Naptha	Generation	LSHS	Diesel Oil	Generation
	(MMSCM)	(Kilo Ltrs.)	(Kilo Ltrs.)	(GWh)	(KL)	(Kilo Ltrs.)	(GWh)
Delhi	1014	0	0	4949	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	462	6	0	1393	0	0	0
Uttar Pradesh	0	0	0	0	0	0	0
Uttarakhand	209	0	0	1012	0	0	0
Central Sector (NR)	314	12141	6525	1375	0	0	0
<b>Sub-Total (NR)</b>	<b>2000</b>	<b>12147</b>	<b>6525</b>	<b>8729</b>	<b>0</b>	<b>0</b>	<b>0</b>
Chhattisgarh	0	0	0	0	0	0	0
Gujarat	1290	0	0	6702	0	0	0
Madhya Pradesh	0	0	0	0	0	0	0
Maharashtra	760	0	0	2980	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)	775	340	2780	3795	0	0	0
<b>Sub-Total (WR)</b>	<b>2825</b>	<b>340</b>	<b>2780</b>	<b>13478</b>	<b>0</b>	<b>0</b>	<b>0</b>
Andhra Pradesh	494	9	661	2094	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	0
Tamil Nadu	452	0	0	1732	0	0	0
Puducherry	62	0	0	251	0	0	0
Lakshadweep	0	0	0	0	0	18081	60
Central Sector (SR)	0	0	0	0	0	0	0
<b>Sub-Total (SR)</b>	<b>1007</b>	<b>9</b>	<b>661</b>	<b>4078</b>	<b>1649</b>	<b>18103</b>	<b>60</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	435	0	0	1612	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	242	0	0	566	0	0	0
Central Sector (NER)	1747	0	0	7554	0	0	0
<b>Sub-Total (NER)</b>	<b>2424</b>	<b>0</b>	<b>0</b>	<b>9731</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total (All India)</b>	<b>8256</b>	<b>12495</b>	<b>9966</b>	<b>36016</b>	<b>1649</b>	<b>110051</b>	<b>216</b>

MMSCM:-Million Metric Standard Cubic Metre.

**TABLE 7.2**  
**CLASSIFICATION OF STEAM TYPE ELECTRICITY GENERATING STATIONS**  
**EFFICIENCY-WISE**  
**2021-22**

Thermal Efficiency	Percentage(%) of Generating Stations
Up to 25%	2.61
Above 25% & up to 30%	8.50
Above 30% & up to 35%	28.10
Above 35%	60.78
<b>Total</b>	<b>100.00</b>

\* Efficiency has been worked out on the basis of data available for 153 thermal stations.

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

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

**TABLE 7.3**  
**SALIENT OPERATING DATA FOR COAL/LIGNITE BASED ELECTRICITY**  
**GENERATING PLANTS**  
**(UTILITIES)**  
**2021-22**

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

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



**TABLE 7.4**  
**ALL INDIA PEAK ELECTRICITY DEMAND/PEAK MET STATE-WISE**  
**2021-22**

State/UTs	Peak Demand	Peak Met	Demand Not Met	
	(MW)	(MW)	(MW)	%
Chandigarh	426	426	0	0.00
Delhi	7,323	7,323	0	0.00
Haryana	12,120	12,120	0	0.00
Himachal Pradesh	2,030	2,030	0	0.00
UT of J&K and Ladakh	3,076	2,826	250	8.13
Punjab	13,556	13,431	125	0.92
Rajasthan	15,784	15,784	0	0.00
Uttar Pradesh	24,965	24,795	170	0.68
Uttarakhand	2,468	2,468	0	0.00
<b>NORTHERN REGION</b>	<b>73,305</b>	<b>72,935</b>	<b>370</b>	<b>0.50</b>
Chhattisgarh	5,019	5,014	5	0.10
Gujarat	19,451	19,431	20	0.10
Madhya Pradesh	15,917	15,917	0	0.00
Maharashtra	28,075	28,016	59	0.21
Daman & Diu	371	369	2	0.42
Dadra & Nagar Haveli	891	888	3	0.31
Goa	703	701	2	0.28
<b>WESTERN REGION</b>	<b>65,433</b>	<b>65,205</b>	<b>228</b>	<b>0.35</b>
Andhra Pradesh	12,551	12,032	519	4.14
Telangana	14,163	14,160	3	0.02
Karnataka	14,830	14,818	12	0.08
Kerala	4,374	4,364	10	0.23
Tamil Nadu	16,891	16,891	0	0.00
Puducherry	469	467	2	0.35
Lakshadweep #	11	11	0	0.00
<b>SOUTHERN REGION</b>	<b>61,138</b>	<b>59,781</b>	<b>1357</b>	<b>2.22</b>
Bihar	7,154	6,490	664	9.28
DVC	3,355	3,338	17	0.50
Jharkhand	1,887	1,611	276	14.63
Orissa	5,643	5,643	0	0.00
West Bengal	9,089	9,087	2	0.03
Sikkim	133	133	0	0.00
Andaman Nicobar #	60.1	60.1	0	0.00
<b>EASTERN REGION</b>	<b>26,019</b>	<b>25,145</b>	<b>874</b>	<b>3.36</b>
Arunachal Pradesh	197	168	29	14.64
Assam	2126	2121	5	0.24
Manipur	258	258	0	0.00
Meghalaya	408	408	0	0.00
Mizoram	169	156	13	7.63
Nagaland	173	153	20	11.73
Tripura*	328	327	1	0.27
<b>NORTH EAST REGION</b>	<b>3,427</b>	<b>3,360</b>	<b>67</b>	<b>1.94</b>
<b>ALL INDIA</b>	<b>203,014</b>	<b>200,539</b>	<b>2475</b>	<b>1.22</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 31.03.2022 (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)
1	2	3	4	5	6	7
<b>NORTHERN REGION</b>						
<b>(1)Chandigarh</b>	<b>0</b>	<b>43</b>	<b>71</b>	<b>405</b>	<b>112</b>	<b>631</b>
<b>(2)Delhi</b>						
(a)IPGCL+PPCL	10	263	117	262	231	883
(b)Delhi Transco Ltd.	NA	NA	NA	NA	NA	NA
<b>(3)Haryana</b>						
(a)HPGCL	12	624	269	651	552	2108
(b)Uttar Haryana BVNL	NA	NA	NA	NA	NA	NA
(c)Dakshin Haryana BVN	11	272	1180	5118	2057	8638
<b>(4)Himachal Pradesh SEBL</b>	<b>20</b>	<b>548</b>	<b>1962</b>	<b>4910</b>	<b>3925</b>	<b>11365</b>
<b>(5)J&amp;K PDC(R)</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>(6)Punjab</b>						
(a)Punjab State Power Corpn. Ltd	1658	5473	3855	0	21322	32308
(b)Punjab State Transmission Corpn. Ltd	8	394	390	1084	494	2370
<b>(7)Rajasthan</b>						
(a)RRVUNL	5	1371	735	1152	577	3840
(b)RRVNL	9	1415	1760	3927	1047	8158
(c)Jaipur VVN Ltd.	629		838	13135	3160	17762
(d)Ajmer VVN Ltd.	5	429	1031	11080	2761	15306
(e)Jodhpur VVN Ltd.	6	347	954	9668	2336	13311
<b>(8)Uttar Pradesh</b>						
(a)UPRVUNL	35	1397	877	2594	1247	6150
(b)MVVNL(Lucknow UP)	NA	NA	NA	NA	NA	NA
(c)DVVNL(Agra UP)	NA	NA	NA	NA	NA	NA
(d)KESCO(KANPUR)	NA	NA	NA	NA	NA	NA
(e)Pur.VVNL(Varanasi UP)	NA	NA	NA	NA	NA	NA
(f)Paschi.VVNL(Meerut UP)	NA	NA	NA	NA	NA	NA
(g)UPJVUNL	0	3	4	32	4	43
(h)UPPCL	65	3150	3249	16804	7010	30278
<b>(9)Uttaranchal</b>						
(a)UJVNL	20	420	393	899	437	2169
(b)UPCL	NA	NA	NA	NA	NA	NA
(c)PTCL	11	243	259	204	150	867

**TABLE 7.5 (CONTD.)  
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC  
AS ON 31.03.2022 (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>WESTERN REGION</b>						
<b>(10)Chhattisgarh</b>						
(a)Chhattisgarh Power Generation Co. Ltd.	17	1068	1002	208	1198	3493
(b)Chhattisgarh State Power Trans. Co. Ltd.	9	316	98	612	395	1430
(c)Chhattisgarh State Distribution Co. Ltd.	20	832	540	6633	2719	10744
<b>(11)Gujarat</b>						
(a)Guj. State Energy Gen. Ltd.	17	79	0	0	27	123
(b)Guj. Energy Trans Corporation	3	862	871	10390	1423	13549
(c)Madhya Guj.Vij.Co.Ltd.	2	272	377	4027	2597	7275
(d)Dakshin Guj.Vij.Co.Ltd.	3	767	915	3445	3123	8253
(e)Uttar Guj.Vij.Co.Ltd.	3	752	929	4551	3699	9934
(f)Pachim Guj.Vij.Co.Ltd.	5	1369	1369	7295	5434	15472
(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	398	445	1580	601	3026
(c)MPMKVVCL, Bhopal	4	479	686	3832	1704	6705
(d)MPPKVCL, Indore	7	399	618	4492	1985	7501
(e)MPPKVCL, Jabalpur	0	329	434	4009	1729	6501
<b>(13)Maharashtra</b>						
(a)Maharashtra State Power Gen. Co. Ltd.	24	0	3977	4988	1914	10903
(b)Maharashtra State Elect. Trans. Co. Ltd.	NA	NA	NA	NA	NA	NA
(c)MSEDCL	54	461	7813	60989	12355	81672
(d)BEST	5	930	236	3350	1094	5615
<b>(14)Goa</b>	<b>1</b>	<b>170</b>	<b>284</b>	<b>4099</b>	<b>1452</b>	<b>6006</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>85</b>	<b>49</b>	<b>147</b>

N.A :- Information not available.

**TABLE 7.5 (CONTD.)  
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC  
AS ON 31.03.2022 (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)
1	2	3	4	5	6	7
<b>SOUTHERN REGION</b>						
<b>(17)Andhra Pradesh</b>						
(a)APGENCO	14	1898	219	2606	720	5457
(b)APTRANSCO	9	1596	16	179	268	2068
(c)South Power Dis. Co. of AP Ltd.	6	848	461	8142	2564	12021
(d)Eastern Power Dis. Co. of AP Ltd.	12	783	376	6795	1645	9611
(e)APPDCL	1	194	74	56	39	364
<b>(18)Telangana</b>						
(a)Telangana Transco	15	1582	16	162	466	2241
(b)TSGENCO	26	2549	110	3083	963	6731
(c)TSNPDCL	7	1088	677	5829	2134	9735
(d)TSSPDCL	25	691	1665	5597	2606	10584
<b>(19)Karnataka</b>						
(a)KPTCL	22	2170	1931	4186	1197	9506
(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	361	256	3379	1179	5180
(g)Chamundeshwari Elec. Supply Corpn. Ltd.	6	401	260	4851	1136	6654
<b>(20)Kerala</b>						
(a) Kerala SEB	22	3465	8923	13233	5559	31202
(b) Thrissur Electricity Department	0	0	57	0	48	105
(21)Tamil Nadu Gen. & Dist. Corpn. Ltd.	60	10513	1947	50516	27739	90775
<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>202</b>	<b>69</b>	<b>314</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 31.03.2022 (AS REPORTED)**

REGULAR						
Name of the Board/ Undertaking	Manage- rial 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) OHPCL	2	420	23	597	224	1266
<b>(27) West Bengal</b>						
(a) WBPDC	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 Corpn. Ltd.</b>	<b>3</b>	<b>2780</b>	<b>6</b>	<b>0</b>	<b>731</b>	<b>3520</b>
<b>Total</b>	<b>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 31.03.2022 (AS REPORTED)**

NON R E G U L A R					
Name of the Board/Undertaking	Technical Trainees and Apprentises	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	8	9	10	11	12
<b>NORTHERN REGION</b>					
<b>(1)Chandigarh</b>	<b>0</b>	<b>454</b>		<b>454</b>	<b>1085</b>
<b>(2)Delhi</b>					
(a)IPGCL+PPCL	0	20	0	20	903
(b)Delhi Transco Ltd.	NA	NA	NA	NA	NA
<b>(3)Haryana</b>					
(a)HPGCL	0	0	0	0	2108
(b)Uttar Haryana BVNL	NA	NA	NA	NA	NA
(c)Dakshin Haryana BVN	0	5734	0	5734	14372
<b>(4)Himachal Pradesh SEBL</b>	<b>2191</b>	<b>67</b>	<b>3312</b>	<b>5570</b>	<b>16935</b>
<b>(5)J&amp;K PDC(R)</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>(6)Punjab</b>					
(a)Punjab State Power Corpn. Ltd	0	6814	0	6814	39122
(b)Punjab State Transmission Corpn. Ltd	0	586	2	588	2958
<b>(7)Rajasthan</b>					
(a)RRVUNL	0	0	1	1	3841
(b)RRVNL	0	0	0	0	8158
(c)Jaipur VVN Ltd.	0	0	0	0	17762
(d)Ajmer VVN Ltd.	0	0	0	0	15306
(e)Jodhpur VVN Ltd.	0	0	0	0	13311
<b>(8)Uttar Pradesh</b>					
(a)UPRVUNL	0	0	0	0	6150
(b)MVVNL(Lucknow UP)	NA	NA	NA	NA	NA
(c)DVVNL(Agra UP)	NA	NA	NA	NA	NA
(d)KESCO(KANPUR)	NA	NA	NA	NA	NA
(e)Pur.VVNL(Varanasi UP)	NA	NA	NA	NA	NA
(f)Paschi.VVNL(Meerut UP)	NA	NA	NA	NA	NA
(g)UPJVUNL	5	0	1	6	49
(h)UPPCL	0	0	0	0	30278
<b>(9)Uttaranchal</b>					
(a)UJVNL	0	0	0	0	2169
(b)UPCL	NA	NA	NA	NA	NA
(c)PTCL	0	0	0	0	867

**TABLE 7.5 (CONTD.)  
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC  
AS ON 31.03.2022 (AS REPORTED)**

NON R E G U L A R					
Name of the Board/Undertaking	Technical Trainees and Apprentises	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
<b>WESTERN REGION</b>					
<b>(10)Chhattisgarh</b>					
(a)Chhattisgarh Power Generation Co. Ltd.	2	0	0	2	3495
(b)Chhattisgarh State Power Trans. Co. Ltd.	0	96	0	96	1526
(c)Chhattisgarh State Distribution Co. Ltd.	0	0	0	0	10744
<b>(11)Gujarat</b>					
(a)Guj. State Elect Gen. Corpora-tion Ltd.	0	0	0	0	123
(b)Guj. Energy Trans Corporation	1311	0	0	1311	14860
(c)Madhya Guj.Vij.Co.Ltd.	421	0	0	421	7696
(d)Dakshin Guj.Vij.Co.Ltd.	0	0	0	0	8253
(e)Uttar Guj.Vij.Co.Ltd.	1019	0	0	1019	10953
(f)Pachim Guj.Vij.Co.Ltd.	1428	0	0	1428	16900
(g)Gujrat Mineral Dev.Corpn.	24	0	0	24	180
<b>(12)Madhya Pradesh</b>					
(a)MPPGCL	0	0	0	0	4561
(b)MPPTCL	0	546	1	547	3573
(c)MPMKVVCL, Bhopal	508	1	11963	12472	19177
(d)MPPKVVCL, Indore	152	14725	0	14877	22378
(e)MPPKVVCL, Jabalpur	1857	3	113	1973	8474
<b>(13)Maharashtra</b>					
(a)Maharashtra State Power Gen. Co. Ltd.	23	0	0	23	10926
(b)Maharashtra State Elect. Trans. Co. Ltd.	NA	NA	NA	NA	NA
(c)MSEDCL	0	0	0	0	81672
(d)BEST	51	0	713	764	6379
<b>(14)Goa</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6006</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>305</b>	<b>345</b>	<b>492</b>

N.A:- Information not available.

**TABLE 7.5 (CONTD.)  
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC  
AS ON 31.03.2022 (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>SOUTHERN REGION</b>					
<b>(17)Andhra Pradesh</b>					
(a)APGENCO	45	4472	0	4517	9974
(b)APTRANSCO	0	0	0	0	2068
(c)South Power Dis. Co. of AP Ltd.	486	7743	0	8229	20250
(d)Eastern Power Dis. Co. of AP Ltd.	0	4258	0	4258	13869
(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	6731
(c)TSNPDCL	0	3540	0	3540	13275
(d)TSSPDCL	0	9260	0	9260	19844
<b>(19)Karnataka</b>					
(a)KPTCL	0	0	10173	10173	19679
(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	5180
(g)Chamundeshwari Elec. Supply Corpn. Ltd.	0	0	0	0	6654
<b>(20)Kerala</b>					
(a) Kerala SEB	818	0	0	818	32020
(b) Thrissur Electricity Department	0	37	10	47	152
(21)Tamil Nadu Gen. & Dist. Corpn. Ltd.	0	0	0	0	90775
<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>3</b>	<b>0</b>	<b>92</b>	<b>95</b>	<b>409</b>



**TABLE 7.5 (CONTD.)  
MANPOWER ENGAGED IN STATE POWER CORPORATIONS/ UNDERTAKINGS & DVC  
AS ON 31.03.2022 (AS REPORTED)**

NON R E G U L A R					
Name of the Board/Undertaking	Technical Trainees and Apprentises	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
<b>EASTERN REGION</b>					
<b>(24)Bihar</b>					
(a)Bihar SPHCL	830	5897	6294	13021	24959
(b)BSPGCL	NA	NA	NA	NA	NA
(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	3715
(b)Jharkhand Bijili Vitran Nigam Ltd.	0	0	0	0	3317
(c)Tenughat Vidyut Nigam Ltd.	0	67	0	67	741
<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)WBPDCCL	0	0	0	0	3702
(b)WBSETCL	0	13	4	17	2373
(c)WBSED Co. Ltd.	0	587	1641	2228	14165
(d) Durgapur Projects Ltd.	0	0	1564	1564	3227
<b>NORTH EASTERN REGION</b>					
<b>(28)Arunachal Pradesh</b>					
	<b>0</b>	<b>2786</b>	<b>6148</b>	<b>8934</b>	<b>9995</b>
<b>(29)Assam</b>					
(a)APGCL	90	120	21	231	1013
(b)APDCL	0	766	492	1258	10021
(c)AEGCL	0	416	25	441	1971
<b>(30)Meghalaya</b>					
(a) MPGCL	4	346	0	350	1126
(b) MPTCL	0	0	1743	1743	4564
<b>(31)Mizoram</b>					
	<b>0</b>	<b>504</b>	<b>2149</b>	<b>2653</b>	<b>4145</b>
<b>(32)Manipur</b>					
(a) Manipur SPCL	0	0	0	0	1437
(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>11478</b>	<b>84437</b>	<b>48882</b>	<b>144797</b>	<b>824406</b>

N.A :- Information not available.

**TABLE 7.5 (CONTD.)  
MANPOWER ENGAGED IN CENTRAL POWER CORPORATIONS/ UNDERTAKINGS  
2021-22**

Name of the Power Corporation	Managerial and higher executive	Technical & Scientific Officers	Technical Supervisory Staff	Technicians & Operating Staff	Non- Technical	Total (Regular) (2to6)
1	2	3	4	5	6	7
NTPC	498	10924	NA	NA	6052	17474
NTPC JVs	54	1477	NA	NA	236	1767
NHPC	253	2223	173	823	1620	5092
NPCIL	444	3106	1878	3225	2120	10773
PGCIL	466	3107	2112	1465	1596	8746
NHDC	15	215	27	130	136	523
NLC	165	651	56	881	234	1987
NTPL	53	94	5	23	22	197
NEEPCO	26	514	68	212	185	1005
SJVNL	10	187	124	135	71	527
THDC	202	380	67	764	231	1644
ONGC Tripura PCL	14	16	0	0	15	45
DVC	56	1770	1494	1197	1487	6004
BBMB	Details not available					6069

**TABLE 7.5 (CONTD.)  
MANPOWER ENGAGED IN CENTRAL POWER CORPORATIONS/ UNDERTAKINGS  
2021-22**

Name of the Power Corporation	Technical Trainees and Apprentises	Worked Charged Staff	Casual	Total Non-Regular (8+9+10)	Total Regular & Non-Regular (7+11)
	8	9	10	11	12
NTPC	0	0	0	0	17474
NTPC JVs	0	0	0	0	1767
NHPC	0	0	0	0	5092
NPCIL	0	342	0	342	11115
PGCIL	646	0	0	646	9392
NHDC	0	0	0	0	523
NLC	232	771	389	1392	3379
NTPL	12	1383	0	1395	1592
NEEPCO	133	277	48	458	1463
SJVNL	0	0	0	0	527
THDC	0	0	0	0	1644
ONGC Tripura PCL	2	0	0	2	47
DVC	62	0	968	1030	7034
BBMB	Details Not Available			0	6069

**TABLE 7.6**  
**PLANT LOAD FACTOR OF THERMAL/ NUCLEAR**  
**ELECTRICITY GENERATING PLANTS STATE-WISE**  
**2021-22**

State/UTs	Central Sector Thermal	Nuclear	State Sector Thermal	Private Sector Thermal
<b>NORTHERN REGION</b>				
Chandigarh	-	-	-	-
Delhi	-	-	-	-
Haryana	53.66	-	36.56	67.08
Himachal Pradesh	-	-	-	-
UT of J&K and Ladakh	-	-	-	-
Punjab	-	-	24.27	59.51
Rajasthan	74.33	80.38	49.15	73.63
Uttar Pradesh	67.42	92.89	55.91	60.97
Uttarnanchal	-	-	-	-
<b>WESTERN REGION</b>				
Chhattisgarh	85.24	-	70.40	57.22
Gujarat	-	90.90	48.85	28.23
Madhya Pradesh	78.43	-	44.41	75.40
Maharashtra	54.21	70.14	56.38	52.54
Daman & Diu	-	-	-	-
D. & N. Haveli	-	-	-	-
Goa	-	-	-	-
<b>SOUTHERN REGION</b>				
Andhra Pradesh	66.04	-	54.90	44.03
Telangana	76.62	-	79.54	-
Karnataka	31.91	97.19	42.52	28.25
Kerala	-	-	-	-
Tamil Nadu	63.10	73.10	53.88	22.65
Puducherry	-	-	-	-
Lakshadweep	-	-	-	-
<b>EASTERN REGION</b>				
Bihar	70.03	-	-	-
Jharkhand	77.77	-	48.03	80.02
Orissa	82.36	-	66.91	60.75
West Bengal	65.75	-	70.45	62.65
Sikkim	-	-	-	-
A. & N. Islands	-	-	-	-
<b>NORTH-EASTERN REGION</b>				
Arunachal Pradesh	-	-	-	-
Assam	69.71	-	-	-
Manipur	-	-	-	-
Meghalaya	-	-	-	-
Mizoram	-	-	-	-
Nagaland	-	-	-	-
Tripura	-	-	-	-
<b>Total (All India)</b>	<b>69.71</b>	<b>79.32</b>	<b>54.50</b>	<b>53.59</b>

**TABLE 7.7**  
**COAL CONSUMPTION IN THERMAL POWER PLANTS**  
**2021-22**

QUANTITY( IN 000 Tonne)

Name of State	Annual Coal Allocation From CIL/SCCL	ACTUAL RECEIPT					Consumption
		CIL/SCCL	Other Source	Import	Total	% of	
	QTY	QTY	QTY	QTY	QTY	2	Qty
1	2	3	4	5	6	7	8
Haryana	15889	9911	0	0	9911	62	10369
Punjab	19090	14767	0	0	14767	77	15325
Rajasthan	20828	13252	11381	0	24633	118	24518
Uttar Pradesh	47068	39426	835	0	40261	86	41248
Central Sector	51110	46393	1468	395	48256	94	48033
<b>Sub-Total (NR)</b>	<b>153985</b>	<b>123750</b>	<b>13685</b>	<b>395</b>	<b>137830</b>	<b>90</b>	<b>139493</b>
Chhattisgarh	32139	37244	25508	52	62805	195	62911
Gujarat	21763	14461	0	11503	25965	119	25278
Madhya Pradesh	30836	20823	27043	0	47866	155	48366
Maharashtra	59560	62747	1874	2993	67614	114	68424
Central Sector	70944	80530	3696	1588	85814	121	86153
<b>Sub-Total (WR)</b>	<b>215242</b>	<b>215805</b>	<b>58121</b>	<b>16137</b>	<b>290063</b>	<b>135</b>	<b>291133</b>
Andhra Pradesh	30747	22614	0	5495	28109	91	28328
Telangana	10702	20378	0	0	20378	190	20416
Karnataka	15661	11226	1209	1955	14390	92	14459
Tamil Nadu	21295	19722	0	2591	22313	105	20606
Central Sector	38469	29706	2486	243	32435	84	32685
<b>Sub-Total (SR)</b>	<b>116874</b>	<b>103645</b>	<b>3695</b>	<b>10285</b>	<b>117625</b>	<b>101</b>	<b>116495</b>
Jharkhand	7684	8371	918	0	9289	121	9469
Orissa	12049	12629	9230	0	21860	181	21066
West Bengal	19434	13784	14159	0	27943	144	28921
Central Sector	74682	78147	9279	181	87608	117	88273
<b>Sub-Total (ER)</b>	<b>113849</b>	<b>112931</b>	<b>33586</b>	<b>181</b>	<b>146698</b>	<b>129</b>	<b>147729</b>
Central Sector	2500	1202	1214	0	2416	97	2491
<b>Sub-Total (NER)</b>	<b>2500</b>	<b>1202</b>	<b>1214</b>	<b>0</b>	<b>2416</b>	<b>97</b>	<b>2491</b>
<b>TOTAL ALL India</b>	<b>602450</b>	<b>557333</b>	<b>110301</b>	<b>26998</b>	<b>694632</b>	<b>115</b>	<b>697340</b>

\* DVC is included in Central Sector

## CHAPTER 8

# ELECTRICITY TRANSMISSION AND DISTRIBUTION SYSTEM

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

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

### I. Transmission and Distribution

An extensive network of Transmission and Distribution lines has been developed over the years for evacuating power produced by different electricity generating stations and distributing the same to the consumers. Depending upon the quantum of power and the distance involved, lines of appropriate voltages are laid. The nominal Extra High Voltage lines in vogue are  $\pm 800$  kV,  $\pm 500$  kV HVDC & 765 kV, 400 kV, 230/220 kV, 132/110 kV and 66 kV AC lines. All these lines have been installed by Generation/ Transmission/ Distribution Utilities including Central Sector Organizations and State/UT Electricity Departments.

The standard voltage of operation on the distribution side are 33 kV, 22 kV, 11kV, 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 1651977.67 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 84 lakh Ckt. Kms. of T&D Lines.

- The following table depicts the length of lines operating at various voltages as on 31.03.2022 in the country with percentage increase over previous year:

Sl. No	Voltages	Length of Lines (Ckt. kms.)		% Growth
		31.03.22	31.03.21	
<b>A</b>	<b>Transmission Lines</b>			
1	±800 kV HVDC	9656	9656	0.00
2	±500 kV HVDC	9432	9432	0.00
3	± 320 kV HVDC	330	330	0.00
4	765kV	48743	46108	5.72
5	400 kV	195318	190426	2.57
6	230/220 kV	193762	191365	1.25
7	132/110/90 kV	223522	219892	1.65
8	78/66 kV	73868	72987	1.21
9	33/22/20 kV	529906	520304	1.85
10	15/11 kV	4680074	4572823	2.35
11	6.6/4.4/3.3/2.2 kV	47819	44172	8.26
<b>Total (A)</b>		<b>6012430</b>	<b>5877496</b>	<b>2.30</b>
<b>B</b>	<b>Distribution lines</b>			
12	Up to 500 volts	7967560	7801981	2.12
<b>Total (B)</b>		<b>7967560</b>	<b>7801981</b>	<b>2.12</b>
<b>Total (All India) (A+B)</b>		<b>13979990</b>	<b>13679477</b>	<b>2.20</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, 2022 were 5592 having aggregate capacity of 383425.59 MVA.
- The total numbers of step-down and distribution transformers were 94556 and 13579572 with aggregate capacity of 2238482 MVA and 694535 MVA respectively.

**TABLE NO.8.1**  
**STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES**  
**31.03.2022**

(Ckt.Kms.)

Name of the State/Uts	HVDC			765 KV	400 KV	230 KV	220 KV	132 KV	110/90
	± 800 KV	± 500 KV	± 320 KV	(O.H.)	(O.H.)	(O.H.)	(O.H.)	(O.H.)	KV (O.H.)
<b>NORTHERN REGION</b>									
Chandigarh	0	0	0	0	0	0	54	0	0
Delhi	0	0	0	0	249	0	860	0	0
Haryana	0	0	0	0	1562	0	6493	5261	0
Himachal Pradesh	0	0	0	0	121	0	1779	2452	0
UT of J&K and Ladakh	0	0	0	0	581	0	935	2265	0
Punjab	0	0	0	0	2170	0	7880	3098	0
Rajasthan	0	1980	0	717	8403	0	16115	18346	0
Uttar Pradesh	0	0	0	2768	7697	0	14115	26387	0
Uttarakhand	0	0	0	0	464	0	1415	1590	0
Central Sector(NR)	6083	3210	0	10499	29613	0	8279	490	0
<b>Sub-Total (NR)</b>	<b>6083</b>	<b>5190</b>	<b>0</b>	<b>13985</b>	<b>50860</b>	<b>0</b>	<b>57925</b>	<b>59889</b>	<b>0</b>
<b>WESTERN REGION</b>									
Chhattisgarh	0	0	0	1147	3989	41	4455	6960	0
Gujarat	0	0	0	0	8342	0	20320	6332	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	252	0	176
Central Sector(WR)	0	0	0	17360	29348	0	1319	159	0
<b>Sub-Total (WR)</b>	<b>0</b>	<b>1504</b>	<b>0</b>	<b>22226</b>	<b>61720</b>	<b>41</b>	<b>60991</b>	<b>49389</b>	<b>3858</b>
<b>SOUTHERN REGION</b>									
Andhra Pradesh	0	0	0	0	5558	0	12090	12486	0
Telangana	0	0	0	0	6789	0	9056	12009	0
Karnataka	0	0	0	896	4101	0	12711	0	11855
Kerala	0	0	0	0	1330	0	3353	0	5795
Tamil Nadu	0	0	0	0	4735	11624	0	0	20527
Puducherry	0	0	0	0	0	266	0	42	282
Lakshadweep	0	0	0	0	0	0	0	0	0
Central Sector(SR)	3530	2738	330	6791	24378	64	1001	0	0
<b>Sub-Total (SR)</b>	<b>3530</b>	<b>2738</b>	<b>330</b>	<b>7687</b>	<b>46890</b>	<b>11953</b>	<b>38211</b>	<b>24537</b>	<b>38459</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	6688	8011	0
West Bengal	0	0	0	0	3096	0	4192	9852	0
Sikkim	0	0	0	0	522	0	30	55	0
A & N. Islands	0	0	0	0	0	0	0	0	0
Central Sector(ER)	43	0	0	4541	21905	0	3884	4557	0
<b>Sub-Total (ER)</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>4846</b>	<b>29708</b>	<b>0</b>	<b>21698</b>	<b>38275</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	777	0
Meghalaya	0	0	0	0	4	0	227	975	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	3758	0	649	2187	0
<b>Sub-Total (NER)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6140</b>	<b>0</b>	<b>2943</b>	<b>9116</b>	<b>0</b>
<b>Total Central Sector</b>	<b>9656</b>	<b>5948</b>	<b>330</b>	<b>39191</b>	<b>109001</b>	<b>64</b>	<b>15132</b>	<b>7393</b>	<b>0</b>
<b>Total (All India)</b>	<b>9656</b>	<b>9432</b>	<b>330</b>	<b>48743</b>	<b>195318</b>	<b>11994</b>	<b>181768</b>	<b>181205</b>	<b>42317</b>

**TABLE NO.8.1(CONTD.)  
STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES  
31.03.2022**

(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	129	14	9	0	0	552	361
Delhi	1463	408	1362	0	0	5731	11736
Haryana	3548	7681	0	0	0	142695	0
Himachal Pradesh	702	3635	0	8064	0	24919	0
UT of J&K and Ladakh	236	4884	0	0	0	37820	0
Punjab	10616	71	0	0	0	248423	0
Rajasthan	303	58509	269	0	0	610460	1738
Uttar Pradesh	3264	47995	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>20455</b>	<b>128786</b>	<b>2239</b>	<b>8132</b>	<b>46</b>	<b>1479461</b>	<b>14631</b>
<b>WESTERN REGION</b>							
Chhattisgarh	0	23697	171	0	0	126167	286
Gujarat	35599	73	523	937	709	451776	16822
Madhya Pradesh	71	58683	0	0	0	466084	0
Maharashtra	595	49774	2532	31609	5564	333594	10883
Daman & Diu	89	0	0	0	0	147	283
D. & N. Haveli	269	0	0	0	0	840	0
Goa	0	1749	0	0	0	4940	0
Central Sector(WR)	2	0	32	0	0	13	0
<b>Sub-Total (WR)</b>	<b>36625</b>	<b>133976</b>	<b>3259</b>	<b>32546</b>	<b>6273</b>	<b>1383562</b>	<b>28274</b>
<b>SOUTHERN REGION</b>							
Andhra Pradesh	169	28513	88	0	0	240040	233
Telangana	0	26308	1286	0	0	191876	968
Karnataka	12176	9681	38	0	0	398774	9759
Kerala	1971	2245	137	151	0	62572	4397
Tamil Nadu	83	8062	1116	48329	349	126866	3968
Puducherry	0	19	0	1792	0	451	0
Lakshadweep	0	0	0	0	0	0	103
Central Sector(SR)	0	0	0	0	0	0	0
<b>Sub-Total (SR)</b>	<b>14399</b>	<b>74828</b>	<b>2665</b>	<b>50273</b>	<b>349</b>	<b>1020579</b>	<b>19429</b>
<b>EASTERN REGION</b>							
Bihar	0	16502	294	0	0	143570	419
Jharkhand	0	11560	195	0	0	73085	321
Orissa	0	15627	0	0	0	165090	0
West Bengal	333	17237	2479	0	50	175583	9188
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>62972</b>	<b>2968</b>	<b>0</b>	<b>50</b>	<b>561459</b>	<b>10047</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	1681	0	0	0	7797	88
Meghalaya	0	1753	0	0	0	18836	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>20545</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>162545</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>73868</b>	<b>421107</b>	<b>11130</b>	<b>90951</b>	<b>6718</b>	<b>4607606</b>	<b>72468</b>



**TABLE NO.8.1(CONTD.)  
STATEWISE LENGTH OF TRANSMISSION AND DISTRIBUTION LINES  
31.03.2022**

Name of the State/Uts	6.6/4.4KV		3.3/2.2KV		Distribution lines upto 500 volts	Total
	(O.H.)	(U.G.)	(O.H.)	(U.G.)		
<b>NORTHERN REGION</b>						
Chandigarh	0	0	0	0	1659	2778
Delhi	0	0	0	0	33756	55564
Haryana	0	0	0	0	123663	290902
Himachal Pradesh	0	0	48	0	67235	108956
UT of J&K and Ladakh	211	0	0	0	98578	145509
Punjab	0	0	0	0	151373	423631
Rajasthan	12	0	0	0	542838	1259691
Uttar Pradesh	0	0	0	0	1182091	1651978
Uttarakhand	0	0	0	0	65408	116962
Central Sector(NR)	0	0	0	0	31	58615
<b>Sub-Total (NR)</b>	<b>223</b>	<b>0</b>	<b>48</b>	<b>0</b>	<b>2266632</b>	<b>4114585</b>
<b>WESTERN REGION</b>						
Chhattisgarh	13	0	0	0	217335	384260
Gujarat	0	0	0	0	363067	904499
Madhya Pradesh	18	5	0	0	593549	1160209
Maharashtra	0	100	0	0	730813	1223154
Daman & Diu	0	0	0	0	774	1325
D. & N. Haveli	0	0	0	0	1788	2908
Goa	0	0	0	0	14605	21722
Central Sector(WR)	12	4	0	0	0	48247
<b>Sub-Total (WR)</b>	<b>43</b>	<b>108</b>	<b>0</b>	<b>0</b>	<b>1921930</b>	<b>3746324</b>
<b>SOUTHERN REGION</b>						
Andhra Pradesh	34673	24	0	0	362135	696007
Telangana	11990	0	0	0	420365	680648
Karnataka	0	0	0	0	595942	1055931
Kerala	0	0	20	0	301236	383208
Tamil Nadu	0	19	0	0	627467	853145
Puducherry	0	0	0	0	4255	7107
Lakshadweep	0	0	0	10	408	521
Central Sector(SR)	0	0	0	0	0	38832
<b>Sub-Total (SR)</b>	<b>46663</b>	<b>43</b>	<b>20</b>	<b>10</b>	<b>2311807</b>	<b>3715399</b>
<b>EASTERN REGION</b>						
Bihar	0	0	0	0	329794	508729
Jharkhand	582	0	3	0	158776	251266
Orissa	0	0	0	0	223654	421370
West Bengal	8	0	19	22	377686	599745
Sikkim	0	0	0	0	5215	9550
A & N. Islands	0	0	0	0	3858	5314
Central Sector(ER)	23	4	0	0	55	36574
<b>Sub-Total (ER)</b>	<b>612</b>	<b>4</b>	<b>23</b>	<b>22</b>	<b>1099039</b>	<b>1832548</b>
<b>NORTH EASTERN REGION</b>						
Arunachal Pradesh	0	0	0	0	14663	39418
Assam	0	0	0	0	255697	357079
Manipur	0	0	0	0	19406	29839
Meghalaya	0	0	0	0	34715	56510
Mizoram	0	0	0	0	3452	11583
Nagaland	0	0	0	0	7775	16192
Tripura	0	0	0	0	32443	53918
Central Sector(NER)	0	0	0	0	0	6595
<b>Sub-Total (NER)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>368152</b>	<b>571134</b>
<b>Total Central Sector</b>	<b>35</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>86</b>	<b>188863</b>
<b>Total (All India)</b>	<b>47542</b>	<b>155</b>	<b>90</b>	<b>32</b>	<b>7967560</b>	<b>13979990</b>

**TABLE 8.2**  
**NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY STATEWISE**  
**UTILITIES**  
**31.03.2022**

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	913	37490000
Haryana	13	4670000	2530	64923599.3
Himachal Pradesh	148	4516868	831	7047510
UT of J&K and Ladakh	85	1253554	2400	13253550
Punjab	74	8389510	2110	65189987
Rajasthan	279	11989426	10846	128502060
Uttar Pradesh	320	18278072	7329	282448942.5
Uttarakhand	71	2414186	830	12638880
Central Sector(NR)	396	35727410	725	159428118
<b>Sub-Total (NR)</b>	<b>1404</b>	<b>89449226</b>	<b>28572</b>	<b>772064646.8</b>
<b>WESTERN REGION</b>				
Chhattisgarh	82	26996300	2681	34481960
Gujarat	413	31262902	6064	163549990
Madhya Pradesh	245	16932468	8521	117509780
Maharashtra	631	31509830	9428	195148250
Daman & Diu	0	0	40	1252000
D. & N. Haveli	0	0	52	1800000
Goa	2	106000	155	2877600
Central Sector(WR)	237	34922700	486	142889650
<b>Sub-Total (WR)</b>	<b>1610</b>	<b>141730200</b>	<b>27427</b>	<b>659509230</b>
<b>SOUTHERN REGION</b>				
New Andhra	299	16632490	6171	93484550
Telangana	104	9674200	6726	112874650
Karnataka	457	15886530	3898	91092500
Kerala	128	3017301	1254	25514950
Tamil Nadu	341	12765962	4354	102755830
Puducherry	2	24000	54	1484000
Lakshadweep	27	25250	0	0
Central Sector(SR)	487	30038150	438	92041850
<b>Sub-Total (SR)</b>	<b>1845</b>	<b>88063883</b>	<b>22895</b>	<b>519248330</b>
<b>EASTERN REGION</b>				
Bihar	16	321000	3159	44234400
Jharkhand	14	4855600	1436	17900380
Odisha	145	6356200	2834	37569180
West Bengal	95	10933100	3044	64415160
Sikkim	40	4707430	52	405000
A. & N. Islands	8	65000	12	50600
Central Sector(ER)	182	28875850	638	90396470
<b>Sub-Total (ER)</b>	<b>500</b>	<b>56114180</b>	<b>11175</b>	<b>254971190</b>
<b>NORTH EASTERN REGION</b>				
Arunachal Pradesh	39	20031	185	609465
Assam	31	595000	3285	12214940
Manipur	4	50000	241	1894250
Meghalaya	25	441900	260	4213920
Mizoram	20	63239	120	618400
Nagaland	12	32330	128	562100
Tripura	11	927640	162	1501100
Central Sector(NER)	91	5937970	106	11074700
<b>Sub-Total (NER)</b>	<b>233</b>	<b>8068110</b>	<b>4487</b>	<b>32688875</b>
<b>Total Central Sector</b>	<b>1393</b>	<b>135502080</b>	<b>2393</b>	<b>495830788</b>
<b>Total (All India)</b>	<b>5592</b>	<b>383425598</b>	<b>94556</b>	<b>2238482272</b>

**TABLE 8.2 (CONTD.)  
NUMBER OF TRANSFORMERS AND THEIR AGGREGATE CAPACITY STATEWISE  
UTILITIES  
31.03.2022**

Name of the State/U.Ts.	Distribution	
	Nos.	Capacity(KVA)
<b>NORTHERN REGION</b>		
Chandigarh	2351	771698
Delhi	84547	16325862
Haryana	611306	31638864
Himachal Pradesh	35088	3848426
UT of J&K and Ladakh	52708	6674515
Punjab	1173591	39137707
Rajasthan	2052787	53863012
Uttar Pradesh	936029	42468422
Uttarakhand	69616	4875936
Central Sector(NR)	1097	10765007
<b>Sub-Total (NR)</b>	<b>5019120</b>	<b>210369449</b>
<b>WESTERN REGION</b>		
Chhattisgarh	204590	12465182
Gujarat	1780635	63560300
Madhya Pradesh	933964	47739376
Maharashtra	811388	86635997
Daman & Diu	974	280495
D. & N. Haveli	1109	222850
Goa	7114	1316812
Central Sector(WR)	600	936131
<b>Sub-Total (WR)</b>	<b>3740374</b>	<b>213157143</b>
<b>SOUTHERN REGION</b>		
New Andhra	1281835	41155534
Telangana	809945	35995957
Karnataka	1088422	59002894
Kerala	86421	10707270
Tamil Nadu	373251	47669276
Puducherry	3286	782553
Lakshadweep	113	17512
Central Sector(SR)	787	925755
<b>Sub-Total (SR)</b>	<b>3644060</b>	<b>196256751</b>
<b>EASTERN REGION</b>		
Bihar	294598	20770113
Jharkhand	134088	9036206
Orissa	269216	13504872
West Bengal	331321	19501705
Sikkim	2934	392410
A & N. Islands	1147	207266
Central Sector(ER)	1156	1743970
<b>Sub-Total (ER)</b>	<b>1034460</b>	<b>65156542</b>
<b>NORTH EASTERN REGION</b>		
Arunachal Pradesh	8892	448648
Assam	88165	5799431
Manipur	8205	600000
Meghalaya	13055	798596
Mizoram	2705	326167
Nagaland	3626	327391
Tripura	16862	1236830
Central Sector(NER)	48	58130
<b>Sub-Total (NER)</b>	<b>141558</b>	<b>9595193</b>
<b>Total Central Sector</b>	<b>3688</b>	<b>14428993</b>
<b>Total (All India)</b>	<b>13579572</b>	<b>694535078</b>

## CHAPTER 9

### ELECTRICITY UTILIZATION

#### I. Electrical Energy Consumption

- Electricity consumption by various categories of consumers served by utilities during the year 2021-22 was 1141484.97 GWh registering an increase of 9.58% over previous year.
- As in the preceding year, the major portion of electricity viz. 1034734.39 GWh representing 90.65% of the total energy consumption was distributed by the Public Sector and remaining 9.35% was distributed by the private sector (including Cooperatives Societies).
- Out of 90.65% of energy distributed by the Public Sector, the Municipalities distributed 0.46% and the Electricity Departments of the States and Union Territories and State Govt. distribution companies distributed balance 90.19%.
- 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 3.53%, 0.83%, 0.97%, 0.70% and 1.55% adding up 7.57% only and the balance of 1.78% 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 2021-22 are tabulated below: -

Sl. No	Agency	Electrical Energy Sold to Ultimate Consumers		
		Quantum (GWh)	% of total Consumption	% increase over 2020-21
1.	Elect. Deptts. of State & UTs/State Govt. Distribution Companies	1029537.81	90.19	8.90
2.	Municipalities	5196.58	0.46	-15.85
3.	Private Licensees (including Coop. Societies)	106750.58	9.35	5.91
	<b>Total</b>	<b>1141484.97</b>	<b>100.00</b>	<b>9.53</b>

Data prior to FY2021-22 includes demand of 1MW and above Regarding to the energy consumed by various classes of consumers, the Industrial category of consumers, as usual consumed highest energy i.e. 33.40% of total energy sold by Utilities as compared to 30.74% during 2020-21. The energy sales to Industrial consumers registered an increase of 19.04% over the previous year.

- Domestic consumers, the second largest category amongst the consumers consumed 29.77% of total energy sales as compared to 31.76% during the previous year. The consumption of energy under this Sector increased by 2.71% over the previous year.

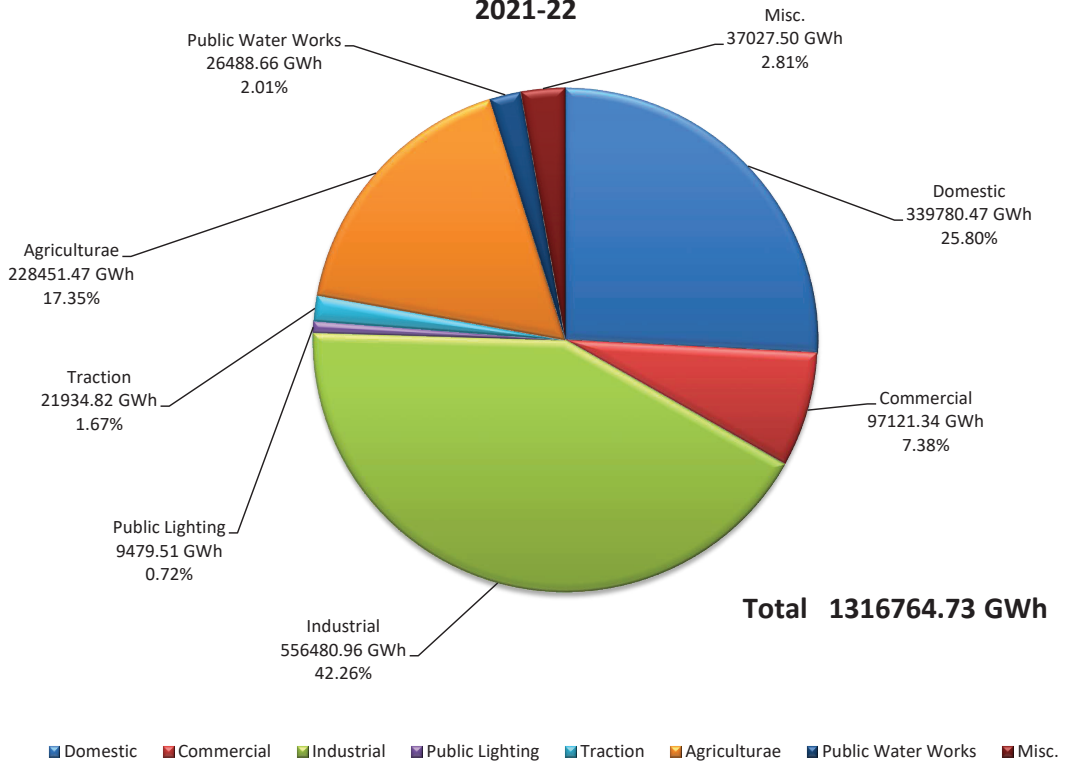
- Agricultural consumers, the third largest category amongst the consumers consumed 20.01% of total energy sales as compared to 21.25% during the previous year. However, the consumption of energy by this Sector decreased by 3.23% over the previous year.
- The electricity consumption in the Commercial category during the year was 97121.34 GWh registering a growth of 11.70% while the electricity consumption in the Public Lighting category was 9479.51 GWh registering a growth of 3.97%.
- There is overall increase of 9.58% in total energy consumption over the previous year.

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

Over the past few years, spurt of industrial growth has been witnessed in shaping the national economy. Electricity has been playing a pivotal role in the development of industrialization of the country. The electricity consumption pattern for the year 2021-22 has shown improved share of Domestic, Traction and Industrial electricity consumption.

- The total electricity consumed including utilities and non-utilities during the year 2021-22 was 1316764.73 GWh as compared to 1230207.98 GWh during the year 2020-21 registering growth of 7.04% over the previous year.
- The share of total Domestic consumption was 25.80% during the year 2021-22 as compared to 26.89% during the year 2020-21 and registered a growth of 2.71% over the previous year.
- The share of Traction consumption was 1.67% during the year 2021-22 as compared to 1.19% during the year 2020-21 and registered a growth of 49.54% over the previous year.
- The share of Industrial consumption was 42.26% during the year 2021-22 as compared to 41.36% during the year 2020-21 and registered a growth of 9.38% over the previous year.

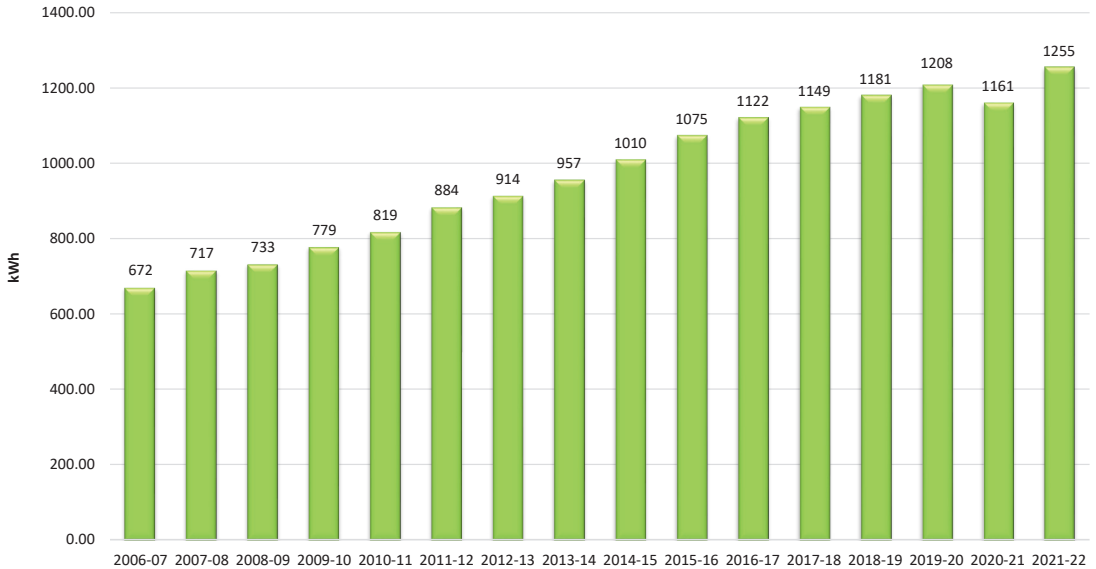
### ELECTRICITY CONSUMPTION PATTERN UTILITIES & NON-UTILITIES 2021-22



### III. Per Capita Electricity Consumption

The per capita consumption of electricity on All India basis works out to 1255 kWh for the year 2021-22 against 1161 kWh in the year 2020-21. 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**.

### GROWTH OF PER CAPITA ELECTRICITY CONSUMPTION IN kWh 2006-07 to 2021-22



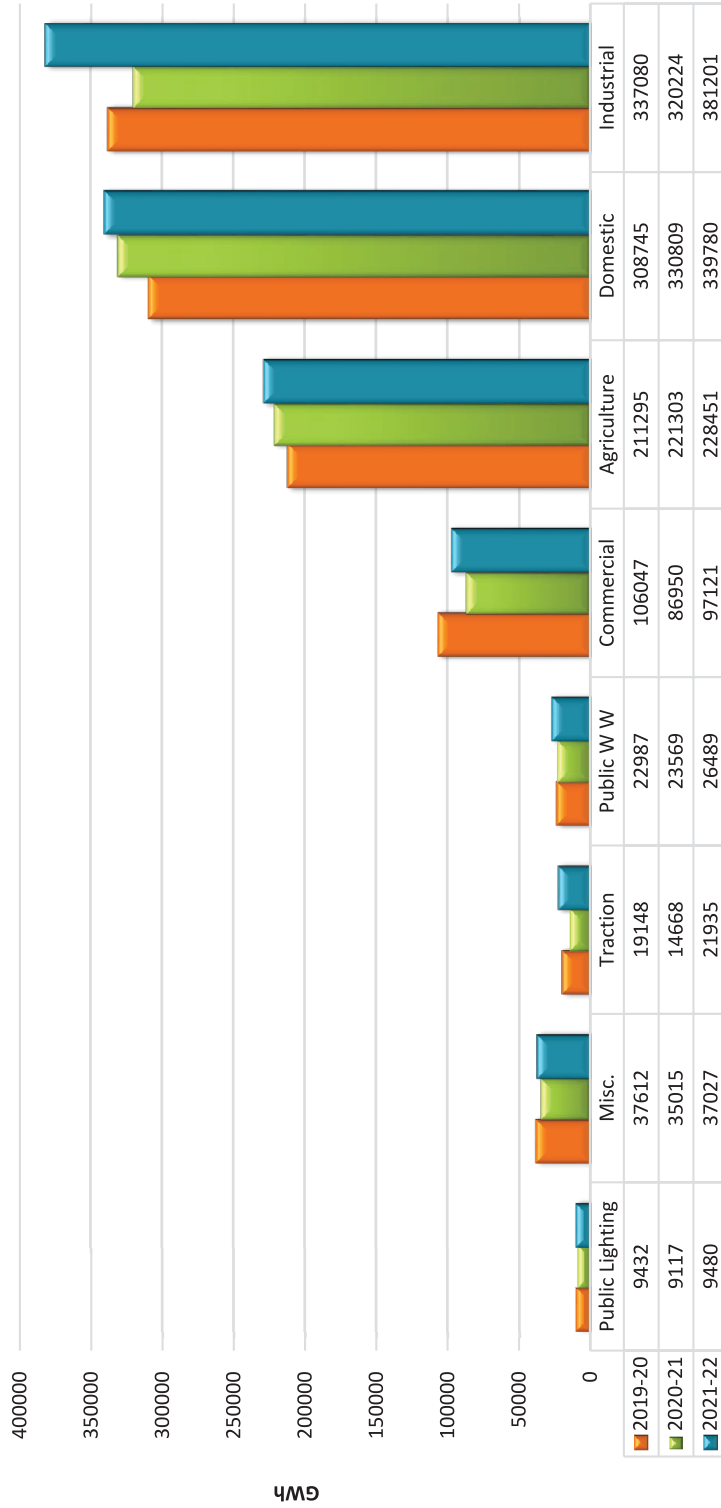
Per Capita Electricity Consumption= Gross Energy Generation + Net Import / Mid Year Population (As per UN Practice)

## IV. Electrical Accidents

To the extent of information made available for the year 2021-22, the total number of electrical accidents reported was 25966 which comprised 9616 human fatal accidents, 3995 human non-fatal accidents, 12138 animal fatal accidents and 217 animal non-fatal accidents. The details of electrical accidents are displayed in **table 9.10**.



## GROWTH OF CATEGORY-WISE ELECTRICITY CONSUMPTION UTILITIES 2019-20 to 2021-22







**TABLE 9.1**  
**ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE**  
**(UTILITIES)**  
**2021-22**

Category	Energy Sold During 2021-22 (GWh)	% of Total Energy Sold in 2021-22	Energy Sold During 2020-21 (GWh)	% of Total Energy Sold in 2020-21	% Increase in Sale over Previous Year 2020-21
Domestic	339780.47	29.77	330808.94	31.76	2.71
Commercial	97121.34	8.51	86950.28	8.35	11.70
Industrial Power	381201.20	33.40	320223.84	30.74	19.04
Public Lighting	9479.51	0.83	9117.44	0.88	3.97
Railway/ Tramways	21934.82	1.92	14668.02	1.41	49.54
Agriculture	228451.47	20.01	221303.44	21.25	3.23
Public Water Works & Sewage Pumping	26488.66	2.32	23568.57	2.26	12.39
Miscellaneous	37027.50	3.24	35015.12	3.36	5.75
<b>Total</b>	<b>1141484.97</b>	<b>100.00</b>	<b>1041655.63</b>	<b>100.00</b>	<b>9.58</b>

**TABLE 9.1(A)**  
**ALL INDIA ELECTRICAL ENERGY SALES CATEGORY-WISE**  
**(UTILITIES & NON-UTILITIES)**  
**2021-22**

Category	Energy Sold During 2021-22 (GWh)	% of Total Energy Sold in 2021-22	Energy Sold During 2020-21 (GWh)	% of Total Energy Sold in 2020-21	% Increase in Sale over Previous Year 2020-21
Domestic	339780.47	25.80	330808.94	26.89	2.71
Commercial	97121.34	7.38	86950.28	7.07	11.70
Industrial Power	556480.96	42.26	508776.19	41.36	9.38
Public Lighting	9479.51	0.72	9117.44	0.74	3.97
Railways/ Tramways	21934.82	1.67	14668.02	1.19	49.54
Agriculture	228451.47	17.35	221303.44	17.99	3.23
Public Water Works & Sewage Pumping	26488.66	2.01	23568.57	1.92	12.39
Miscellaneous	37027.50	2.81	35015.12	2.85	5.75
<b>Total</b>	<b>1316764.73</b>	<b>100.00</b>	<b>1230207.98</b>	<b>100.00</b>	<b>7.04</b>

**TABLE 9.2**  
**ALL INDIA ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS**  
**OWNERSHIP-WISE/STATE-WISE**  
**(UTILITIES)**  
**2021-22**

(GWh)

State / UTs	S.E.B.s	Municipalities	Govt. Deptts./ Under-takings/ Corporations	Private Sector	Total
Chandigarh	0.00	0.00	1409.33	0.00	1409.33
Delhi	0.00	989.10	225.93	26409.80	27624.83
Haryana	0.00	0.00	46230.71	0.00	46230.71
Himachal Pradesh	0.00	0.00	10198.09	0.00	10198.09
UT of J&K and Ladakh	0.00	0.00	10230.97	0.00	10230.97
Punjab	0.00	0.00	53489.47	0.00	53489.47
Rajasthan	0.00	0.00	69372.14	459.00	69831.14
Uttar Pradesh	0.00	0.00	96392.31	2338.03	98730.34
Uttarakhand	0.00	0.00	12518.80	0.00	12518.80
<b>Sub-Total (NR)</b>	<b>0.00</b>	<b>989.10</b>	<b>300067.73</b>	<b>29206.83</b>	<b>330263.67</b>
Chhattisgarh	0.00	0.00	25161.29	0.00	25161.29
Gujarat	0.00	0.00	91092.35	15376.74	106469.10
Madhya Pradesh	0.00	0.00	64903.81	598.21	65502.03
Maharashtra	0.00	4078.43	123837.81	14171.80	142088.05
Daman & Diu	0.00	0.00	2482.36	0.00	2482.36
D & N Haveli	0.00	0.00	6379.94	0.00	6379.94
Goa	0.00	0.00	3889.14	124.44	4013.58
<b>Sub-Total (WR)</b>	<b>0.00</b>	<b>4078.43</b>	<b>317746.70</b>	<b>30271.21</b>	<b>352096.34</b>
Andhra Pradesh	0.00	0.00	62637.97	630.67	63268.65
Telangana	0.00	0.00	61296.95	804.88	62101.84
Karnataka	0.00	0.00	58541.54	2522.45	61064.00
Kerala	0.00	129.05	23588.96	213.47	23931.48
Tamil Nadu	0.00	0.00	101907.96	0.00	101907.96
Puducherry	0.00	0.00	2773.64	0.00	2773.64
Lakshadweep	0.00	0.00	50.25	0.00	50.25
<b>Sub-Total (SR)</b>	<b>0.00</b>	<b>129.05</b>	<b>310797.28</b>	<b>4171.48</b>	<b>315097.80</b>
Bihar	0.00	0.00	26064.23	0.00	26064.23
Jharkhand	0.00	0.00	19964.24	3174.59	23138.83
Odisha	0.00	0.00	0.00	29541.37	29541.37
West Bengal	0.00	0.00	40495.79	10385.11	50880.90
Sikkim	0.00	0.00	440.60	0.00	440.60
A & N Islands	0.00	0.00	267.30	0.00	267.30
<b>Sub-Total (ER)</b>	<b>0.00</b>	<b>0.00</b>	<b>87232.17</b>	<b>43101.07</b>	<b>130333.23</b>
Arunachal Pradesh	0.00	0.00	518.25	0.00	518.25
Assam	0.00	0.00	8521.11	0.00	8521.11
Manipur	0.00	0.00	731.70	0.00	731.70
Meghalaya	0.00	0.00	1506.67	0.00	1506.67
Mizoram	0.00	0.00	660.92	0.00	660.92
Nagaland	0.00	0.00	704.23	0.00	704.23
Tripura	0.00	0.00	1051.06	0.00	1051.06
<b>Sub-Total (NER)</b>	<b>0.00</b>	<b>0.00</b>	<b>13693.94</b>	<b>0.00</b>	<b>13693.94</b>
<b>Total (All India)</b>	<b>0.00</b>	<b>5196.58</b>	<b>1029537.81</b>	<b>106750.58</b>	<b>1141484.97</b>

**TABLE 9.3**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE**  
**UTILITIES**  
**2021-22**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	709.35	383.25	108.86	93.10	13.51
Delhi	16486.84	6002.04	2600.42	526.69	316.44
Haryana	13326.72	3639.46	3132.87	13349.45	160.62
Himachal Pradesh	2457.51	621.88	87.38	5905.92	11.29
UT of J&K and Ladakh	5429.22	1059.80	278.47	1065.77	132.26
Punjab	14790.47	3613.53	2871.94	16793.18	161.36
Rajasthan	14072.38	4635.30	2382.51	15238.22	348.27
Uttar Pradesh	44480.20	6836.99	4391.92	11676.55	761.52
Uttarakhand	3356.92	1390.10	341.83	6212.16	62.34
<b>Sub-Total (NR)</b>	<b>115109.59</b>	<b>28182.34</b>	<b>16196.20</b>	<b>70861.03</b>	<b>1967.63</b>
Chhattisgarh	6437.35	1605.87	674.79	8751.86	105.31
Gujarat	16721.80	5099.38	17057.67	50312.07	184.13
Madhya Pradesh	17295.60	3656.06	1430.89	10654.72	418.15
Maharashtra	30729.85	11696.31	15934.44	37128.31	1305.12
Daman & Diu	138.13	47.25	219.12	2054.60	5.05
D & N Haveli	172.02	37.57	216.32	5940.29	2.98
Goa	1279.43	501.30	114.77	2003.72	42.61
<b>Sub-Total (WR)</b>	<b>72774.18</b>	<b>22643.73</b>	<b>35648.01</b>	<b>116845.56</b>	<b>2063.35</b>
Andhra Pradesh	18188.55	4543.36	3118.67	15659.75	901.88
Telangana	13324.34	5700.76	1230.20	13948.13	364.00
Karnataka	14109.13	5816.03	5055.15	7629.33	1141.68
Kerala	12747.64	4828.98	1222.73	3506.36	364.61
Tamil Nadu	33975.01	10339.44	9888.83	28277.81	1321.00
Puducherry	806.72	204.88	164.39	1434.38	19.00
Lakshadweep	37.00	11.43	0.00	0.90	0.82
<b>Sub-Total (SR)</b>	<b>93188.38</b>	<b>31444.88</b>	<b>20679.96</b>	<b>70456.65</b>	<b>4113.00</b>
Bihar	16964.91	2566.93	677.67	2532.41	111.26
Jharkhand \$	5921.33	984.01	316.93	14302.83	96.84
Odisha	9829.46	3746.55	532.24	9894.63	245.05
West Bengal \$	18154.63	5867.30	2348.44	17429.50	749.16
Sikkim	116.67	39.25	2.19	252.86	0.00
A & N Islands	148.02	63.28	11.45	0.00	6.78
<b>Sub-Total (ER)</b>	<b>51135.03</b>	<b>13267.31</b>	<b>3888.92</b>	<b>44412.23</b>	<b>1209.08</b>
Arunachal Pradesh	207.78	64.38	2.89	208.81	0.00
Assam	4686.27	1093.58	96.59	1096.28	21.01
Manipur	489.90	91.23	19.83	12.29	5.23
Meghalaya	665.01	85.92	39.34	627.89	0.05
Mizoram	465.54	76.40	4.40	15.96	14.89
Nagaland	416.87	85.49	40.83	0.00	31.64
Tripura	641.93	86.09	36.65	10.88	53.63
<b>Sub-Total (NER)</b>	<b>7573.29</b>	<b>1583.09</b>	<b>240.53</b>	<b>1972.11</b>	<b>126.45</b>
<b>Total (All India)</b>	<b>339780.47</b>	<b>97121.34</b>	<b>76653.62</b>	<b>304547.58</b>	<b>9479.51</b>

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

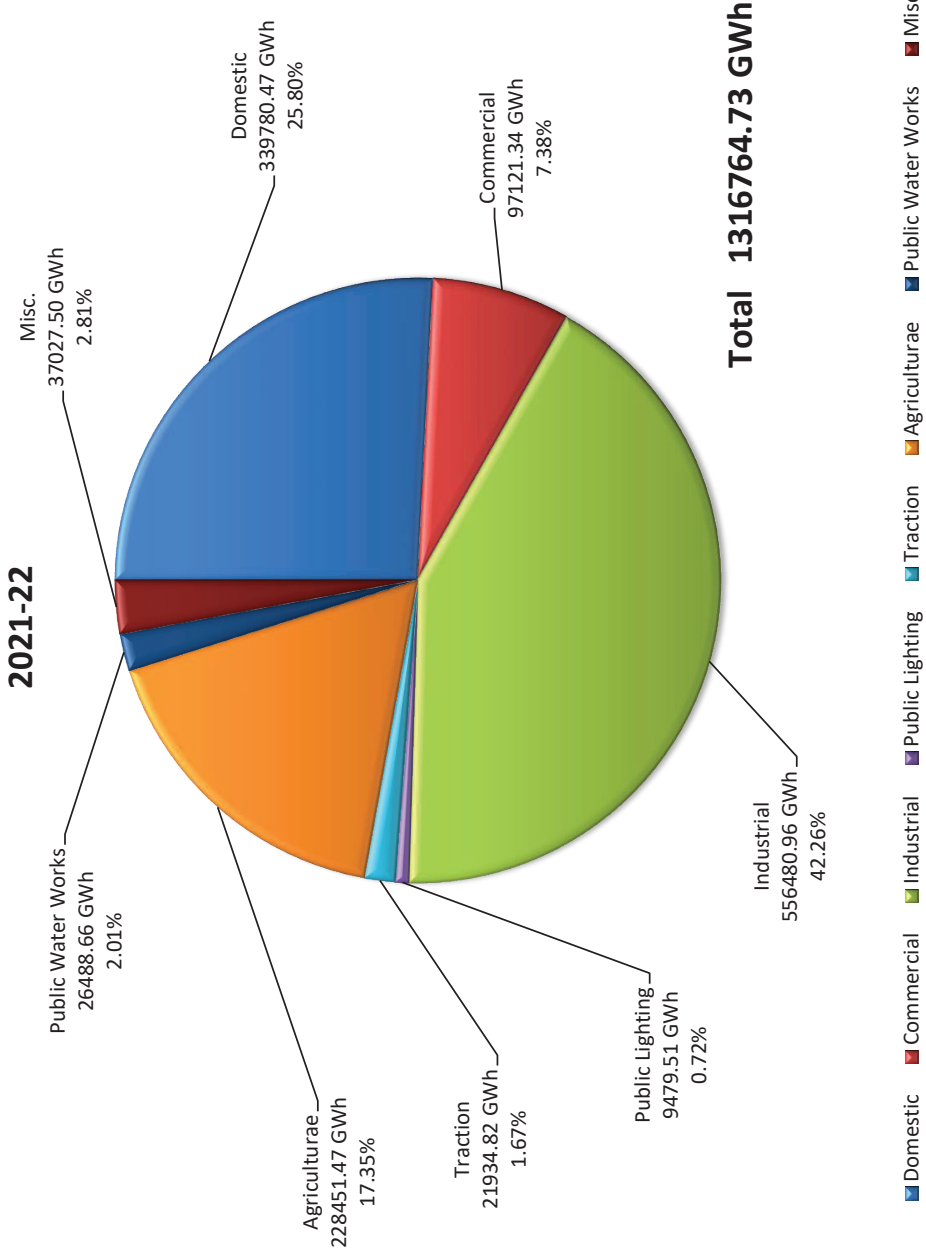
**TABLE 9.3 (CONTD.)  
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE  
UTILITIES  
2021-22**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	1.43	15.22	84.61	1409.33
Delhi	127.12	33.10	630.10	902.09	27624.83
Haryana	481.00	9123.54	1386.09	1630.96	46230.71
Himachal Pradesh	0.00	85.10	665.51	363.49	10198.09
UT of J&K and Ladakh	55.00	375.42	631.28	1203.74	10230.97
Punjab	259.00	12572.46	643.98	1783.55	53489.47
Rajasthan	460.52	28816.56	2585.93	1291.46	69831.14
Uttar Pradesh	2833.00	18956.52	1767.31	7026.33	98730.34
Uttarakhand	46.30	430.00	503.49	175.66	12518.80
<b>Sub-Total (NR)</b>	<b>4261.95</b>	<b>70394.12</b>	<b>8828.92</b>	<b>14461.89</b>	<b>330263.67</b>
Chhattisgarh	1159.65	5933.05	493.41	0.00	25161.29
Gujarat	753.24	13791.38	2212.92	336.52	106469.10
Madhya Pradesh	2338.00	26521.52	1861.47	1325.62	65502.03
Maharashtra	2948.00	36253.20	3255.78	2837.03	142088.05
Daman & Diu	0.00	3.37	2.74	12.10	2482.36
D & N Haveli	0.00	5.25	5.51	0.00	6379.94
Goa	0.00	31.13	0.00	40.62	4013.58
<b>Sub-Total (WR)</b>	<b>7198.89</b>	<b>82538.90</b>	<b>7831.84</b>	<b>4551.89</b>	<b>352096.34</b>
Andhra Pradesh	1895.21	14114.03	1094.99	3752.23	63268.65
Telangana	794.31	22159.18	1012.06	3568.87	62101.84
Karnataka	202.85	21935.73	4182.56	991.55	61064.00
Kerala	330.07	384.69	0.31	546.08	23931.48
Tamil Nadu	1012.00	13436.25	1321.00	2336.62	101907.96
Puducherry	0.00	61.71	74.10	8.46	2773.64
Lakshadweep	0.00	0.00	0.00	0.09	50.25
<b>Sub-Total (SR)</b>	<b>4234.43</b>	<b>72091.59</b>	<b>7685.01</b>	<b>11203.90</b>	<b>315097.80</b>
Bihar	1120.00	1140.86	225.82	724.37	26064.23
Jharkhand \$	1055.00	178.05	0.00	283.85	23138.83
Odisha	1709.99	781.42	415.32	2386.73	29541.37
West Bengal \$	2342.57	1224.59	1142.49	1622.21	50880.90
Sikkim	0.00	0.00	0.00	29.63	440.60
A & N Islands	0.00	1.18	0.00	36.59	267.30
<b>Sub-Total (ER)</b>	<b>6227.55</b>	<b>3326.10</b>	<b>1783.63</b>	<b>5083.38</b>	<b>130333.23</b>
Arunachal Pradesh	0.00	0.06	8.00	26.33	518.25
Assam	12.00	54.23	115.05	1346.09	8521.11
Manipur	0.00	7.19	22.21	83.83	731.70
Meghalaya	0.00	0.13	54.85	33.48	1506.67
Mizoram	0.00	0.00	75.05	8.67	660.92
Nagaland	0.00	0.00	0.00	129.41	704.23
Tripura	0.00	39.15	84.11	98.62	1051.06
<b>Sub-Total (NER)</b>	<b>12.00</b>	<b>100.76</b>	<b>359.27</b>	<b>1726.44</b>	<b>13693.94</b>
<b>Total (All India)</b>	<b>21934.82</b>	<b>228451.47</b>	<b>26488.66</b>	<b>37027.50</b>	<b>1141484.97</b>



### ELECTRICITY CONSUMPTION PATTERN UTILITIES & NON-UTILITIES 2021-22



**TABLE 9.3(A)**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE**  
**UTILITIES & NON-UTILITIES**  
**2021-22**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	709.35	383.25	108.86	98.83	13.51
Delhi	16486.84	6002.04	2600.42	530.19	316.44
Haryana	13326.72	3639.46	3132.87	16805.98	160.62
Himachal Pradesh	2457.51	621.88	87.38	6047.78	11.29
UT of J&K and Ladakh	5429.22	1059.80	278.47	1068.02	132.26
Punjab	14790.47	3613.53	2871.94	19521.40	161.36
Rajasthan	14072.38	4635.30	2382.51	24934.38	348.27
Uttar Pradesh	44480.20	6836.99	4391.92	22524.06	761.52
Uttarakhand	3356.92	1390.10	341.83	7158.06	62.34
<b>Sub-Total (NR)</b>	<b>115109.59</b>	<b>28182.34</b>	<b>16196.20</b>	<b>98688.71</b>	<b>1967.63</b>
Chhattisgarh	6437.35	1605.87	674.79	27554.53	105.31
Gujarat	16721.80	5099.38	17057.67	68719.77	184.13
Madhya Pradesh	17295.60	3656.06	1430.89	16015.29	418.15
Maharashtra	30729.85	11696.31	15934.44	44185.30	1305.12
Daman & Diu	138.13	47.25	219.12	2055.10	5.05
D & N Haveli	172.02	37.57	216.32	5962.50	2.98
Goa	1279.43	501.30	114.77	2016.63	42.61
<b>Sub-Total (WR)</b>	<b>72774.18</b>	<b>22643.73</b>	<b>35648.01</b>	<b>166509.11</b>	<b>2063.35</b>
Andhra Pradesh	18188.55	4543.36	3118.67	23438.03	901.88
Telangana	13324.34	5700.76	1230.20	17532.58	364.00
Karnataka	14109.13	5816.03	5055.15	19749.96	1141.68
Kerala	12747.64	4828.98	1222.73	4700.22	364.61
Tamil Nadu	33975.01	10339.44	9888.83	35611.06	1321.00
Puducherry	806.72	204.88	164.39	1509.03	19.00
Lakshadweep	37.00	11.43	0.00	0.90	0.82
<b>Sub-Total (SR)</b>	<b>93188.38</b>	<b>31444.88</b>	<b>20679.96</b>	<b>102541.77</b>	<b>4113.00</b>
Bihar	16964.91	2566.93	677.67	3023.17	111.26
Jharkhand \$	5921.33	984.01	316.93	21437.88	96.84
Odisha	9829.46	3746.55	532.24	62410.18	245.05
West Bengal \$	18154.63	5867.30	2348.44	21658.98	749.16
Sikkim	116.67	39.25	2.19	252.86	0.00
A & N Islands	148.02	63.28	11.45	0.00	6.78
<b>Sub-Total (ER)</b>	<b>51135.03</b>	<b>13267.31</b>	<b>3888.92</b>	<b>108783.07</b>	<b>1209.08</b>
Arunachal Pradesh	207.78	64.38	2.89	208.81	0.00
Assam	4686.27	1093.58	96.59	2393.26	21.01
Manipur	489.90	91.23	19.83	12.46	5.23
Meghalaya	665.01	85.92	39.34	663.30	0.05
Mizoram	465.54	76.40	4.40	15.96	14.89
Nagaland	416.87	85.49	40.83	0.00	31.64
Tripura	641.93	86.09	36.65	10.88	53.63
<b>Sub-Total (NER)</b>	<b>7573.29</b>	<b>1583.09</b>	<b>240.53</b>	<b>3304.67</b>	<b>126.45</b>
<b>Total (All India)</b>	<b>339780.47</b>	<b>97121.34</b>	<b>76653.62</b>	<b>479827.34</b>	<b>9479.51</b>

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

**TABLE 9.3(A) (CONTD.)  
ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE  
UTILITIES & NON-UTILITIES  
2021-22**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Chandigarh	0.00	1.43	15.22	84.61	1415.06
Delhi	127.12	33.10	630.10	902.09	27628.33
Haryana	481.00	9123.54	1386.09	1630.96	49687.23
Himachal Pradesh	0.00	85.10	665.51	363.49	10339.95
UT of J&K and Ladakh	55.00	375.42	631.28	1203.74	10233.22
Punjab	259.00	12572.46	643.98	1783.55	56217.69
Rajasthan	460.52	28816.56	2585.93	1291.46	79527.31
Uttar Pradesh	2833.00	18956.52	1767.31	7026.33	109577.85
Uttarakhand	46.30	430.00	503.49	175.66	13464.70
<b>Sub-Total (NR)</b>	<b>4261.95</b>	<b>70394.12</b>	<b>8828.92</b>	<b>14461.89</b>	<b>358091.35</b>
Chhattisgarh	1159.65	5933.05	493.41	0.00	43963.96
Gujarat	753.24	13791.38	2212.92	336.52	124876.80
Madhya Pradesh	2338.00	26521.52	1861.47	1325.62	70862.60
Maharashtra	2948.00	36253.20	3255.78	2837.03	149145.04
Daman & Diu	0.00	3.37	2.74	12.10	2482.85
D & N Haveli	0.00	5.25	5.51	0.00	6402.15
Goa	0.00	31.13	0.00	40.62	4026.49
<b>Sub-Total (WR)</b>	<b>7198.89</b>	<b>82538.90</b>	<b>7831.84</b>	<b>4551.89</b>	<b>401759.89</b>
Andhra Pradesh	1895.21	14114.03	1094.99	3752.23	71046.93
Telangana	794.31	22159.18	1012.06	3568.87	65686.28
Karnataka	202.85	21935.73	4182.56	991.55	73184.63
Kerala	330.07	384.69	0.31	546.08	25125.34
Tamil Nadu	1012.00	13436.25	1321.00	2336.62	109241.20
Puducherry	0.00	61.71	74.10	8.46	2848.29
Lakshadweep	0.00	0.00	0.00	0.09	50.25
<b>Sub-Total (SR)</b>	<b>4234.43</b>	<b>72091.59</b>	<b>7685.01</b>	<b>11203.90</b>	<b>347182.92</b>
Bihar	1120.00	1140.86	225.82	724.37	26554.99
Jharkhand \$	1055.00	178.05	0.00	283.85	30273.88
Odisha	1709.99	781.42	415.32	2386.73	82056.92
West Bengal \$	2342.57	1224.59	1142.49	1622.21	55110.38
Sikkim	0.00	0.00	0.00	29.63	440.60
A & N Islands	0.00	1.18	0.00	36.59	267.30
<b>Sub-Total (ER)</b>	<b>6227.55</b>	<b>3326.10</b>	<b>1783.63</b>	<b>5083.38</b>	<b>194704.06</b>
Arunachal Pradesh	0.00	0.06	8.00	26.33	518.25
Assam	12.00	54.23	115.05	1346.09	9818.09
Manipur	0.00	7.19	22.21	83.83	731.87
Meghalaya	0.00	0.13	54.85	33.48	1542.08
Mizoram	0.00	0.00	75.05	8.67	660.92
Nagaland	0.00	0.00	0.00	129.41	704.23
Tripura	0.00	39.15	84.11	98.62	1051.06
<b>Sub-Total (NER)</b>	<b>12.00</b>	<b>100.76</b>	<b>359.27</b>	<b>1726.44</b>	<b>15026.50</b>
<b>Total (All India)</b>	<b>21934.82</b>	<b>228451.47</b>	<b>26488.66</b>	<b>37027.50</b>	<b>1316764.73</b>

**TABLE 9.4**  
**ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES**  
**CATEGORY-WISE & STATE-WISE**  
**2021-22**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Delhi	16073.55	5209.65	2600.42	526.69	307.82
Rajasthan	0.00	0.00	0.00	0.00	0.00
Uttar Pradesh	694.48	269.82	1250.87	0.00	37.35
<b>Sub-Total (NR)</b>	<b>16768.03</b>	<b>5479.47</b>	<b>3851.29</b>	<b>526.69</b>	<b>345.17</b>
Gujarat	3892.97	1749.45	5883.40	3524.60	60.86
Madhya Pradesh	255.85	30.79	36.40	0.00	5.71
Maharashtra	6288.23	3877.29	882.88	1280.74	0.00
Goa	0.00	0.00	31.29	93.15	0.00
<b>Sub-Total (WR)</b>	<b>10437.05</b>	<b>5657.53</b>	<b>6833.99</b>	<b>4898.49</b>	<b>66.56</b>
Andhra Pradesh	216.79	15.69	17.78	0.00	8.66
Telangana	125.70	20.02	102.28	0.00	6.32
Karnataka	35.21	9.42	5.91	2269.80	2.63
Kerala	7.70	10.77	45.36	146.24	0.21
<b>Sub-Total (SR)</b>	<b>385.39</b>	<b>55.90</b>	<b>171.33</b>	<b>2416.03</b>	<b>17.82</b>
Jharkhand	291.37	72.16	16.16	2786.61	6.80
Odisha	9829.46	3746.55	532.24	9894.63	245.05
West Bengal	4732.29	1632.34	776.94	1995.72	237.09
<b>Sub-Total (ER)</b>	<b>14853.12</b>	<b>5451.04</b>	<b>1325.34</b>	<b>14676.96</b>	<b>488.93</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>42443.59</b>	<b>16643.94</b>	<b>12181.95</b>	<b>22518.17</b>	<b>918.49</b>



**TABLE 9.4 (CONTD.)  
ELECTRICAL ENERGY SALES BY PRIVATE LICENSEES  
CATEGORY-WISE & STATE-WISE  
2021-22**

(GWh)

State / UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold
Delhi	127.12	33.10	629.38	902.09	26409.80
Rajasthan	459.00	0.00	0.00	0.00	459.00
Uttar Pradesh	0.00	14.64	24.91	45.96	2338.03
<b>Sub-Total (NR)</b>	<b>586.12</b>	<b>47.74</b>	<b>654.29</b>	<b>948.05</b>	<b>29206.83</b>
Gujarat	13.24	4.96	197.99	49.27	15376.74
Madhya Pradesh	0.00	225.57	17.86	26.04	598.21
Maharashtra	1011.17	0.21	241.11	590.16	14171.80
Goa	0.00	0.00	0.00	0.00	124.44
<b>Sub-Total (WR)</b>	<b>1024.41</b>	<b>230.74</b>	<b>456.97</b>	<b>665.47</b>	<b>30271.21</b>
Andhra Pradesh	0.21	341.96	24.95	4.64	630.67
Telangana	0.00	481.87	67.33	1.37	804.88
Karnataka	0.00	185.54	13.65	0.29	2522.45
Kerala	0.00	0.60	0.31	2.28	213.47
<b>Sub-Total (SR)</b>	<b>0.21</b>	<b>1009.97</b>	<b>106.23</b>	<b>8.58</b>	<b>4171.48</b>
Jharkhand	1.48	0.00	0.00	0.02	3174.59
Orissa	1709.99	781.42	415.32	2386.73	29541.37
West Bengal	245.57	0.00	524.28	240.88	10385.11
<b>Sub-Total (ER)</b>	<b>1957.03</b>	<b>781.42</b>	<b>939.59</b>	<b>2627.63</b>	<b>43101.07</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>3567.772622</b>	<b>2069.86</b>	<b>2157.08</b>	<b>4249.74</b>	<b>106750.58</b>

**TABLE 9.5**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY**  
**DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.**  
**UNDERTAKINGS AND MUNICIPALITIES CATEGORY-WISE & STATE-WISE**  
**2021-22**

(GWh)

State / UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
<b>I. Municipalities</b>					
N.D.M.C (Delhi)	260.41	720.81	0.00	0.00	7.16
Maharashtra	2014.27	1684.38	170.90	147.67	15.23
Kerala	41.55	50.47	3.29	0.00	1.17
<b>Sub-Total</b>	<b>2316.22</b>	<b>2455.67</b>	<b>174.19</b>	<b>147.67</b>	<b>23.57</b>
<b>II. Govt. Deptt. / Central Sector Undertakings / Corporations</b>					
Chandigarh	709.35	383.25	108.86	93.10	13.51
Delhi	152.88	71.58	0.00	0.00	1.47
Haryana	13326.72	3639.46	3132.87	13349.45	160.62
Himachal Pradesh	2457.51	621.88	87.38	5905.92	11.29
UT of J&K and Ladakh	5429.22	1059.80	278.47	1065.77	132.26
Punjab	14790.47	3613.53	2871.94	16793.18	161.36
Rajasthan	14072.38	4635.30	2382.51	15238.22	348.27
Uttar Pradesh	43785.72	6567.17	3141.05	11676.55	724.17
Uttarakhand	3356.92	1390.10	341.83	6212.16	62.34
Chhattisgarh	6437.35	1605.87	674.79	8751.86	105.31
Gujarat	12828.82	3349.93	11174.27	46787.47	123.27
Madhya Pradesh	17039.76	3625.27	1394.49	10654.72	412.45
Maharashtra	22427.35	6134.64	14880.66	35699.89	1289.89
Daman & Diu	138.13	47.25	219.12	2054.60	5.05
D & N Haveli	172.02	37.57	216.32	5940.29	2.98
Goa	1279.43	501.30	83.48	1910.57	42.61
Andhra Pradesh	17971.76	4527.68	3100.89	15659.75	893.22
Telangana	13198.64	5680.73	1127.92	13948.13	357.68
Karnataka	14073.91	5806.61	5049.24	5359.53	1139.05
Kerala	12698.40	4767.73	1174.07	3360.12	363.23
Tamil Nadu	33975.01	10339.44	9888.83	28277.81	1321.00
Puducherry	806.72	204.88	164.39	1434.38	19.00
Lakshadweep	37.00	11.43	0.00	0.90	0.82
Bihar	16964.91	2566.93	677.67	2532.41	111.26
DVC in Jharkhand	0.00	0.00	61.44	9688.25	0.00
DVC in West Bengal	0.00	0.00	40.96	6458.84	0.00
Jharkhand	5629.96	911.85	239.33	1827.97	90.04
Odisha	0.00	0.00	0.00	0.00	0.00
West Bengal	13422.34	4234.96	1530.54	8974.94	512.07
Sikkim	116.67	39.25	2.19	252.86	0.00
A. & N. Islands	148.02	63.28	11.45	0.00	6.78
Arunachal Pradesh	207.78	64.38	2.89	208.81	0.00
Assam	4686.27	1093.58	96.59	1096.28	21.01
Manipur	489.90	91.23	19.83	12.29	5.23
Meghalaya	665.01	85.92	39.34	627.89	0.05
Mizoram	465.54	76.40	4.40	15.96	14.89
Nagaland	416.87	85.49	40.83	0.00	31.64
Tripura	641.93	86.09	36.65	10.88	53.63
<b>Sub-Total</b>	<b>295020.66</b>	<b>78021.74</b>	<b>64297.49</b>	<b>281881.73</b>	<b>8537.45</b>
<b>Total (I &amp; II)</b>	<b>297336.89</b>	<b>80477.41</b>	<b>64471.68</b>	<b>282029.41</b>	<b>8561.02</b>

**TABLE 9.5**  
**ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS BY ELECTRICITY**  
**DEPARTMENTS, CENTRAL SECTOR, CORPORATIONS/GOVT.**  
**UNDERTAKINGS AND MUNICIPALITIES CATEGORY-WISE & STATE-WISE**  
**2021-22**

(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	0.72	0.00	989.10
Maharashtra	2.52	0.02	43.43	0.00	4078.43
Kerala	0.41	0.05	0.00	32.10	129.05
<b>Sub-Total</b>	<b>2.93</b>	<b>0.07</b>	<b>44.15</b>	<b>32.10</b>	<b>5196.58</b>
<b>II. Govt. Deptt. / Central Sector Undertakings / Corporations</b>					
Chandigarh	0.00	1.43	15.22	84.61	1409.33
Delhi	0.00	0.00	0.00	0.00	225.93
Haryana	481.00	9123.54	1386.09	1630.96	46230.71
Himachal Pradesh	0.00	85.10	665.51	363.49	10198.09
UT of J&K and Ladakh	55.00	375.42	631.28	1203.74	10230.97
Punjab	259.00	12572.46	643.98	1783.55	53489.47
Rajasthan	1.52	28816.56	2585.93	1291.46	69372.14
Uttar Pradesh	2833.00	18941.88	1742.40	6980.37	96392.31
Uttarakhand	46.30	430.00	503.49	175.66	12518.80
Chhattisgarh	1159.65	5933.05	493.41	0.00	25161.29
Gujarat	740.00	13786.42	2014.93	287.24	91092.35
Madhya Pradesh	2338.00	26295.95	1843.61	1299.58	64903.81
Maharashtra	1934.30	36252.97	2971.24	2246.87	123837.81
Daman & Diu	0.00	3.37	2.74	12.10	2482.36
D & N Haveli	0.00	5.25	5.51	0.00	6379.94
Goa	0.00	31.13	0.00	40.62	3889.14
Andhra Pradesh	1895.00	13772.07	1070.04	3747.58	62637.97
Telangana	794.31	21677.31	944.73	3567.50	61296.95
Karnataka	202.85	21750.19	4168.91	991.26	58541.54
Kerala	329.66	384.04	0.00	511.70	23588.96
Tamil Nadu	1012.00	13436.25	1321.00	2336.62	101907.96
Puducherry	0.00	61.71	74.10	8.46	2773.64
Lakshadweep	0.00	0.00	0.00	0.09	50.25
Bihar	1120.00	1140.86	225.82	724.37	26064.23
DVC in Jharkhand	163.44	0.00	0.00	0.00	9913.13
DVC in West Bengal	108.96	0.00	0.00	53.43	6662.19
Jharkhand	890.08	178.05	0.00	283.83	10051.11
Odisha	0.00	0.00	0.00	0.00	0.00
West Bengal	1988.04	1224.59	618.22	1327.90	33833.60
Sikkim	0.00	0.00	0.00	29.63	440.60
A. & N. Islands	0.00	1.18	0.00	36.59	267.30
Arunachal Pradesh	0.00	0.06	8.00	26.33	518.25
Assam	12.00	54.23	115.05	1346.09	8521.11
Manipur	0.00	7.19	22.21	83.83	731.70
Meghalaya	0.00	0.13	54.85	33.48	1506.67
Mizoram	0.00	0.00	75.05	8.67	660.92
Nagaland	0.00	0.00	0.00	129.41	704.23
Tripura	0.00	39.15	84.11	98.62	1051.06
<b>Sub-Total</b>	<b>18364.12</b>	<b>226381.53</b>	<b>24287.43</b>	<b>32745.66</b>	<b>1029537.81</b>
<b>Total (I &amp; II)</b>	<b>18367.05</b>	<b>226381.60</b>	<b>24331.58</b>	<b>32777.76</b>	<b>1034734.39</b>

**TABLE 9.6**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE**  
**UTILITIES**  
**2021-22**

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	50.33	27.19	7.72	6.61	0.96
Delhi	59.68	21.73	9.41	1.91	1.15
Haryana	28.83	7.87	6.78	28.88	0.35
Himachal Pradesh	24.10	6.10	0.86	57.91	0.11
Jammu & Kashmir	53.07	10.36	2.72	10.42	1.29
Punjab	27.65	6.76	5.37	31.40	0.30
Rajasthan	20.15	6.64	3.41	21.82	0.50
Uttar Pradesh	45.05	6.92	4.45	11.83	0.77
Uttarakhand	26.82	11.10	2.73	49.62	0.50
<b>Northern Region</b>	<b>34.85</b>	<b>8.53</b>	<b>4.90</b>	<b>21.46</b>	<b>0.60</b>
Chhattisgarh	25.58	6.38	2.68	34.78	0.42
Gujarat	15.71	4.79	16.02	47.26	0.17
Madhya Pradesh	26.40	5.58	2.18	16.27	0.64
Maharashtra	21.63	8.23	11.21	26.13	0.92
Daman & Diu	5.56	1.90	8.83	82.77	0.20
D & N Haveli	2.70	0.59	3.39	93.11	0.05
Goa	31.88	12.49	2.86	49.92	1.06
<b>Western Region</b>	<b>20.67</b>	<b>6.43</b>	<b>10.12</b>	<b>33.19</b>	<b>0.59</b>
Andhra Pradesh	28.75	7.18	4.93	24.75	1.43
Telangana	21.46	9.18	1.98	22.46	0.59
Karnataka	23.11	9.52	8.28	12.49	1.87
Kerala	53.27	20.18	5.11	14.65	1.52
Tamil Nadu	33.34	10.15	9.70	27.75	1.30
Puducherry	29.09	7.39	5.93	51.71	0.69
Lakshadweep	73.63	22.75	0.00	1.79	1.63
Southern Region	29.57	9.98	6.56	22.36	1.31
Bihar	65.09	9.85	2.60	9.72	0.43
Jharkhand	25.59	4.25	1.37	61.81	0.42
Odisha	33.27	12.68	1.80	33.49	0.83
West Bengal	35.68	11.53	4.62	34.26	1.47
Sikkim	26.48	8.91	0.50	57.39	0.00
A & N Islands	55.38	23.67	4.28	0.00	2.54
<b>Eastern Region</b>	<b>39.23</b>	<b>10.18</b>	<b>2.98</b>	<b>34.08</b>	<b>0.93</b>
Arunachal Pradesh	40.09	12.42	0.56	40.29	0.00
Assam	55.00	12.83	1.13	12.87	0.25
Manipur	66.95	12.47	2.71	1.68	0.72
Meghalaya	44.14	5.70	2.61	41.67	0.00
Mizoram	70.44	11.56	0.67	2.42	2.25
Nagaland	59.19	12.14	5.80	0.00	4.49
Tripura	61.07	8.19	3.49	1.03	5.10
<b>North-Eastern Region</b>	<b>55.30</b>	<b>11.56</b>	<b>1.76</b>	<b>14.40</b>	<b>0.92</b>
<b>Total (All India)</b>	<b>29.77</b>	<b>8.51</b>	<b>6.72</b>	<b>26.68</b>	<b>0.83</b>

**TABLE 9.6 (CONTD.)**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE**  
**UTILITIES**  
**2021-22**

State / UTs	% age of total Energy Sold				
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold (GWh)
Chandigarh	0.00	0.10	1.08	6.00	1409.33
Delhi	0.46	0.12	2.28	3.27	27624.83
Haryana	1.04	19.73	3.00	3.53	46230.71
Himachal Pradesh	0.00	0.83	6.53	3.56	10198.09
Jammu & Kashmir	0.54	3.67	6.17	11.77	10230.97
Punjab	0.48	23.50	1.20	3.33	53489.47
Rajasthan	0.66	41.27	3.70	1.85	69831.14
Uttar Pradesh	2.87	19.20	1.79	7.12	98730.34
Uttarakhand	0.37	3.43	4.02	1.40	12518.80
<b>Northern Region</b>	<b>1.29</b>	<b>21.31</b>	<b>2.67</b>	<b>4.38</b>	<b>330263.67</b>
Chhattisgarh	4.61	23.58	1.96	0.00	25161.29
Gujarat	0.71	12.95	2.08	0.32	106469.10
Madhya Pradesh	3.57	40.49	2.84	2.02	65502.03
Maharashtra	2.07	25.51	2.29	2.00	142088.05
Daman & Diu	0.00	0.14	0.11	0.49	2482.36
D & N Haveli	0.00	0.08	0.09	0.00	6379.94
Goa	0.00	0.78	0.00	1.01	4013.58
<b>Western Region</b>	<b>2.04</b>	<b>23.44</b>	<b>2.22</b>	<b>1.29</b>	<b>352096.34</b>
Andhra Pradesh	3.00	22.31	1.73	5.93	63268.65
Telangana	1.28	35.68	1.63	5.75	62101.84
Karnataka	0.33	35.92	6.85	1.62	61064.00
Kerala	1.38	1.61	0.00	2.28	23931.48
Tamil Nadu	0.99	13.18	1.30	2.29	101907.96
Puducherry	0.00	2.22	2.67	0.31	2773.64
Lakshadweep	0.00	0.00	0.00	0.19	50.25
<b>Southern Region</b>	<b>1.34</b>	<b>22.88</b>	<b>2.44</b>	<b>3.56</b>	<b>315097.80</b>
Bihar	4.30	4.38	0.87	2.78	26064.23
Jharkhand	4.56	0.77	0.00	1.23	23138.83
Odisha	5.79	2.65	1.41	8.08	29541.37
West Bengal	4.60	2.41	2.25	3.19	50880.90
Sikkim	0.00	0.00	0.00	6.72	440.60
A & N Islands	0.00	0.44	0.00	13.69	267.30
<b>Eastern Region</b>	<b>4.78</b>	<b>2.55</b>	<b>1.37</b>	<b>3.90</b>	<b>130333.23</b>
Arunachal Pradesh	0.00	0.01	1.54	5.08	518.25
Assam	0.14	0.64	1.35	15.80	8521.11
Manipur	0.00	0.98	3.03	11.46	731.70
Meghalaya	0.00	0.01	3.64	2.22	1506.67
Mizoram	0.00	0.00	11.36	1.31	660.92
Nagaland	0.00	0.00	0.00	18.38	704.23
Tripura	0.00	3.72	8.00	9.38	1051.06
<b>North-Eastern Region</b>	<b>0.09</b>	<b>0.74</b>	<b>2.62</b>	<b>12.61</b>	<b>13693.94</b>
<b>Total (All India)</b>	<b>1.92</b>	<b>20.01</b>	<b>2.32</b>	<b>3.24</b>	<b>1141484.97</b>

**TABLE 9.6(A)**  
**CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY**  
**STATE-WISE**  
**UTILITIES & NON-UTILITIES**  
**2021-22**

State / UTs	% age of total Energy Sold				
	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	50.13	27.08	7.69	6.98	0.95
Delhi	59.67	21.72	9.41	1.92	1.15
Haryana	26.82	7.32	6.31	33.82	0.32
Himachal Pradesh	23.77	6.01	0.85	58.49	0.11
Jammu & Kashmir	53.05	10.36	2.72	10.44	1.29
Punjab	26.31	6.43	5.11	34.72	0.29
Rajasthan	17.70	5.83	3.00	31.35	0.44
Uttar Pradesh	40.59	6.24	4.01	20.56	0.69
Uttarakhand	24.93	10.32	2.54	53.16	0.46
Northern Region	32.15	7.87	4.52	27.56	0.55
Chhattisgarh	14.64	3.65	1.53	62.68	0.24
Gujarat	13.39	4.08	13.66	55.03	0.15
Madhya Pradesh	24.41	5.16	2.02	22.60	0.59
Maharashtra	20.60	7.84	10.68	29.63	0.88
Daman & Diu	5.56	1.90	8.83	82.77	0.20
D & N Haveli	2.69	0.59	3.38	93.13	0.05
Goa	31.78	12.45	2.85	50.08	1.06
<b>Western Region</b>	<b>18.11</b>	<b>5.64</b>	<b>8.87</b>	<b>41.44</b>	<b>0.51</b>
Andhra Pradesh	25.60	6.39	4.39	32.99	1.27
Telangana	20.28	8.68	1.87	26.69	0.55
Karnataka	19.28	7.95	6.91	26.99	1.56
Kerala	50.74	19.22	4.87	18.71	1.45
Tamil Nadu	31.10	9.46	9.05	32.60	1.21
Puducherry	28.32	7.19	5.77	52.98	0.67
Lakshadweep	73.63	22.75	0.00	1.79	1.63
<b>Southern Region</b>	<b>26.84</b>	<b>9.06</b>	<b>5.96</b>	<b>29.54</b>	<b>1.18</b>
Bihar	63.89	9.67	2.55	11.38	0.42
Jharkhand	19.56	3.25	1.05	70.81	0.32
Odisha	11.98	4.57	0.65	76.06	0.30
West Bengal	32.94	10.65	4.26	39.30	1.36
Sikkim	26.48	8.91	0.50	57.39	0.00
A & N Islands	55.38	23.67	4.28	0.00	2.54
<b>Eastern Region</b>	<b>26.26</b>	<b>6.81</b>	<b>2.00</b>	<b>55.87</b>	<b>0.62</b>
Arunachal Pradesh	40.09	12.42	0.56	40.29	0.00
Assam	47.73	11.14	0.98	24.38	0.21
Manipur	66.94	12.46	2.71	1.70	0.72
Meghalaya	43.12	5.57	2.55	43.01	0.00
Mizoram	70.44	11.56	0.67	2.42	2.25
Nagaland	59.19	12.14	5.80	0.00	4.49
Tripura	61.07	8.19	3.49	1.03	5.10
<b>North-Eastern Region</b>	<b>50.40</b>	<b>10.54</b>	<b>1.60</b>	<b>21.99</b>	<b>0.84</b>
<b>Total (All India)</b>	<b>25.80</b>	<b>7.38</b>	<b>5.82</b>	<b>36.44</b>	<b>0.72</b>

**TABLE 9.6(A) (CONTD.)  
CATEGORY-WISE PERCENTAGE OF UTILISATION OF ELECTRICAL ENERGY  
STATE-WISE  
UTILITIES & NON-UTILITIES  
2021-22**

State / UTs	% age of total Energy Sold				
	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total Energy Sold (GWh)
Chandigarh	0.00	0.10	1.08	5.98	1415.06
Delhi	0.46	0.12	2.28	3.27	27628.33
Haryana	0.97	18.36	2.79	3.28	49687.23
Himachal Pradesh	0.00	0.82	6.44	3.52	10339.95
Jammu & Kashmir	0.54	3.67	6.17	11.76	10233.22
Punjab	0.46	22.36	1.15	3.17	56217.69
Rajasthan	0.58	36.23	3.25	1.62	79527.31
Uttar Pradesh	2.59	17.30	1.61	6.41	109577.85
Uttarakhand	0.34	3.19	3.74	1.30	13464.70
<b>Northern Region</b>	<b>1.19</b>	<b>19.66</b>	<b>2.47</b>	<b>4.04</b>	<b>358091.35</b>
Chhattisgarh	2.64	13.50	1.12	0.00	43963.96
Gujarat	0.60	11.04	1.77	0.27	124876.80
Madhya Pradesh	3.30	37.43	2.63	1.87	70862.60
Maharashtra	1.98	24.31	2.18	1.90	149145.04
Daman & Diu	0.00	0.14	0.11	0.49	2482.85
D & N Haveli	0.00	0.08	0.09	0.00	6402.15
Goa	0.00	0.77	0.00	1.01	4026.49
<b>Western Region</b>	<b>1.79</b>	<b>20.54</b>	<b>1.95</b>	<b>1.13</b>	<b>401759.89</b>
Andhra Pradesh	2.67	19.87	1.54	5.28	71046.93
Telangana	1.21	33.73	1.54	5.43	65686.28
Karnataka	0.28	29.97	5.72	1.35	73184.63
Kerala	1.31	1.53	0.00	2.17	25125.34
Tamil Nadu	0.93	12.30	1.21	2.14	109241.20
Puducherry	0.00	2.17	2.60	0.30	2848.29
Lakshadweep	0.00	0.00	0.00	0.19	50.25
<b>Southern Region</b>	<b>1.22</b>	<b>20.76</b>	<b>2.21</b>	<b>3.23</b>	<b>347182.92</b>
Bihar	4.22	4.30	0.85	2.73	26554.99
Jharkhand	3.48	0.59	0.00	0.94	30273.88
Odisha	2.08	0.95	0.51	2.91	82056.92
West Bengal	4.25	2.22	2.07	2.94	55110.38
Sikkim	0.00	0.00	0.00	6.72	440.60
A & N Islands	0.00	0.44	0.00	13.69	267.30
<b>Eastern Region</b>	<b>3.20</b>	<b>1.71</b>	<b>0.92</b>	<b>2.61</b>	<b>194704.06</b>
Arunachal Pradesh	0.00	0.01	1.54	5.08	518.25
Assam	0.12	0.55	1.17	13.71	9818.09
Manipur	0.00	0.98	3.03	11.45	731.87
Meghalaya	0.00	0.01	3.56	2.17	1542.08
Mizoram	0.00	0.00	11.36	1.31	660.92
Nagaland	0.00	0.00	0.00	18.38	704.23
Tripura	0.00	3.72	8.00	9.38	1051.06
<b>North-Eastern Region</b>	<b>0.08</b>	<b>0.67</b>	<b>2.39</b>	<b>11.49</b>	<b>15026.50</b>
<b>Total (All India)</b>	<b>1.67</b>	<b>17.35</b>	<b>2.01</b>	<b>2.81</b>	<b>1316764.73</b>

**TABLE 9.7**  
**PER CAPITA ULTIMATE CONSUMPTION OF ELECTRICITY**  
**STATE-WISE/CATEGORY-WISE**  
**UTILITIES**  
**2021-22**

(kWh)

State / UTs	Population (Million)	Domestic	Commercial	Industrial Power	
				(Low & Med. Voltage)	(High Voltage)
Chandigarh	1.22	583.83	315.43	89.60	76.63
Delhi	20.80	792.60	288.55	125.01	25.32
Haryana	29.70	448.79	122.56	105.50	449.55
Himachal Pradesh	7.42	331.42	83.87	11.78	796.48
UT of J&K and Ladakh	13.76	394.57	77.02	20.24	77.45
Punjab	30.45	485.68	118.66	94.31	551.45
Rajasthan	79.79	176.37	58.09	29.86	190.98
Uttar Pradesh	232.30	191.48	29.43	18.91	50.26
Uttarakhand	11.47	292.72	121.22	29.81	541.69
<b>Northern Region</b>	<b>426.90</b>	<b>269.64</b>	<b>66.02</b>	<b>37.94</b>	<b>165.99</b>
Chhattisgarh	29.69	216.80	54.08	22.73	294.74
Gujarat	70.29	237.90	72.55	242.68	715.79
Madhya Pradesh	85.12	203.20	42.95	16.81	125.18
Maharashtra	125.01	245.83	93.57	127.47	297.01
Daman & Diu	0.50	277.92	95.06	440.88	4134.00
D & N Haveli	0.64	270.90	59.16	340.67	9354.78
Goa	1.56	818.57	320.73	73.43	1281.97
<b>Western Region</b>	<b>312.80</b>	<b>232.65</b>	<b>72.39</b>	<b>113.96</b>	<b>373.55</b>
Andhra Pradesh	52.90	343.86	85.89	58.96	296.05
Telangana	37.82	352.35	150.75	32.53	368.84
Karnataka	67.09	210.30	86.69	75.35	113.71
Kerala	35.57	358.35	135.75	34.37	98.57
Tamil Nadu	76.54	443.91	135.09	129.20	369.47
Puducherry	1.59	506.42	128.61	103.20	900.43
Lakshadweep	0.07	544.12	168.14	0.00	13.24
<b>Southern Region</b>	<b>271.57</b>	<b>343.14</b>	<b>115.79</b>	<b>76.15</b>	<b>259.44</b>
Bihar	124.15	136.64	20.68	5.46	20.40
Jharkhand	38.76	152.76	25.39	8.18	368.99
Odisha	44.11	222.85	84.94	12.07	224.33
West Bengal	98.40	184.49	59.62	23.87	177.12
Sikkim	0.68	171.57	57.72	3.22	371.85
A & N Islands	0.40	369.13	157.80	28.56	0.00
<b>Eastern Region</b>	<b>306.51</b>	<b>166.83</b>	<b>43.29</b>	<b>12.69</b>	<b>144.90</b>
Arunachal Pradesh	1.54	134.92	41.80	1.88	135.59
Assam	35.24	132.99	31.03	2.74	31.11
Manipur	3.18	154.10	28.70	6.24	3.87
Meghalaya	3.30	201.33	26.01	11.91	190.10
Mizoram	1.22	381.28	62.57	3.60	13.07
Nagaland	2.20	189.23	38.81	18.53	0.00
Tripura	4.09	156.95	21.05	8.96	2.66
<b>North-Eastern Region</b>	<b>50.78</b>	<b>149.15</b>	<b>31.18</b>	<b>4.74</b>	<b>38.84</b>
<b>Total (All India)</b>	<b>1368.56</b>	<b>248.28</b>	<b>70.97</b>	<b>56.01</b>	<b>222.53</b>

Note:-

Source of Population: Office of Registrar General of India as on 1st October 2021

(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**  
**2021-22**

(kWh)

State / UTs	Public Lighting	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscellaneous	Total
Chandigarh	11.12	0.00	1.17	0.00	69.63	1159.94
Delhi	15.21	6.11	1.59	30.29	43.37	1328.05
Haryana	5.41	16.20	307.24	46.68	54.92	1556.85
Himachal Pradesh	1.52	0.00	11.48	89.75	49.02	1375.33
UT of J&K and Ladakh	9.61	4.00	27.28	45.88	87.48	743.53
Punjab	5.30	8.50	412.85	21.15	58.57	1756.46
Rajasthan	4.36	5.77	361.16	32.41	16.19	875.19
Uttar Pradesh	3.28	12.20	81.60	7.61	30.25	425.01
Uttarakhand	5.44	4.04	37.50	43.90	15.32	1091.63
<b>Northern Region</b>	<b>4.61</b>	<b>9.98</b>	<b>164.90</b>	<b>20.68</b>	<b>33.88</b>	<b>773.64</b>
Chhattisgarh	3.55	39.05	199.81	16.62	0.00	847.38
Gujarat	2.62	10.72	196.21	31.48	4.79	1514.73
Madhya Pradesh	4.91	27.47	311.59	21.87	15.57	769.54
Maharashtra	10.44	23.58	290.01	26.05	22.70	1136.66
Daman & Diu	10.17	0.00	6.78	5.52	24.34	4994.68
D & N Haveli	4.69	0.00	8.26	8.68	0.00	10047.14
Goa	27.26	0.00	19.92	0.00	25.99	2567.87
<b>Western Region</b>	<b>6.60</b>	<b>23.01</b>	<b>263.87</b>	<b>25.04</b>	<b>14.55</b>	<b>1125.63</b>
Andhra Pradesh	17.05	35.83	266.83	20.70	70.94	1196.12
Telangana	9.63	21.00	585.97	26.76	94.37	1642.21
Karnataka	17.02	3.02	326.95	62.34	14.78	910.15
Kerala	10.25	9.28	10.81	0.01	15.35	672.74
Tamil Nadu	17.26	13.22	175.55	17.26	30.53	1331.50
Puducherry	11.93	0.00	38.74	46.52	5.31	1741.14
Lakshadweep	12.06	0.00	0.00	0.00	1.39	738.95
<b>Southern Region</b>	<b>15.15</b>	<b>15.59</b>	<b>265.46</b>	<b>28.30</b>	<b>41.26</b>	<b>1160.27</b>
Bihar	0.90	9.02	9.19	1.82	5.83	209.93
Jharkhand	2.50	27.22	4.59	0.00	7.32	596.95
Odisha	5.56	38.77	17.72	9.42	54.11	669.75
West Bengal	7.61	23.81	12.44	11.61	16.49	517.06
Sikkim	0.00	0.00	0.00	0.00	43.57	647.94
A & N Islands	16.90	0.00	2.95	0.00	91.25	666.59
<b>Eastern Region</b>	<b>3.94</b>	<b>20.32</b>	<b>10.85</b>	<b>5.82</b>	<b>16.58</b>	<b>425.22</b>
Arunachal Pradesh	0.00	0.00	0.04	5.19	17.10	336.53
Assam	0.60	0.34	1.54	3.26	38.20	241.81
Manipur	1.65	0.00	2.26	6.99	26.37	230.17
Meghalaya	0.02	0.00	0.04	16.61	10.14	456.15
Mizoram	12.20	0.00	0.00	61.46	7.10	541.29
Nagaland	14.36	0.00	0.00	0.00	58.74	319.67
Tripura	13.11	0.00	9.57	20.57	24.11	256.98
<b>North-Eastern Region</b>	<b>2.49</b>	<b>0.24</b>	<b>1.98</b>	<b>7.08</b>	<b>34.00</b>	<b>269.70</b>
<b>Total (All India)</b>	<b>6.93</b>	<b>16.03</b>	<b>166.93</b>	<b>19.36</b>	<b>27.06</b>	<b>834.08</b>

**TABLE 9.8**  
**ANNUAL ELECTRICITY CONSUMPTION PER SQUARE KILOMETRE AND PER THOUSAND POPULATION**  
**REGION-WISE/STATE-WISE**  
**(UTILITIES+NON-UTILITIES)**  
**2021-22**

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	1.22	0.11	1415.06	1164660	12864195
Delhi	20.80	1.48	27628.33	1328221	18667789
Haryana	29.70	44.21	49687.23	1673252	1123891
Himachal Pradesh	7.42	55.67	10339.95	1394464	185736
UT of J&K and Ladakh	13.76	222.24	10233.22	743693	46046
Punjab	30.45	50.36	56217.69	1846048	1116316
Rajasthan	79.79	342.24	79527.31	996708	232373
Uttar Pradesh	232.30	240.93	109577.85	471706	454812
Uttarakhand	11.47	53.48	13464.70	1174111	251771
<b>Northern Region</b>	<b>426.90</b>	<b>1010.72</b>	<b>358091.35</b>	<b>838822</b>	<b>354293</b>
Chhattisgarh	29.69	135.19	43963.96	1480617	325201
Gujarat	70.29	196.03	124876.80	1776619	637029
Madhya Pradesh	85.12	308.25	70862.60	832522	229887
Maharashtra	125.01	307.72	149145.04	1193113	484678
Daman & Diu	0.50	0.11	2482.85	4995675	22571369
D & N Haveli	0.64	0.49	6402.15	10082118	13065602
Goa	1.56	3.70	4026.49	2576132	1088242
<b>Western Region</b>	<b>312.80</b>	<b>951.49</b>	<b>401759.89</b>	<b>1284399</b>	<b>422243</b>
Andhra Pradesh	52.90	160.41	71046.93	1343169	442908
Telangana	37.82	114.65	65686.28	1736997	572929
Karnataka	67.09	191.79	73184.63	1090810	381587
Kerala	35.57	38.86	25125.34	706304	646560
Tamil Nadu	76.54	130.06	109241.20	1427318	839929
Puducherry	1.59	0.48	2848.29	1788003	5933936
Lakshadweep	0.07	0.03	50.25	738947	1674947
<b>Southern Region</b>	<b>271.57</b>	<b>636.28</b>	<b>347182.92</b>	<b>1278415</b>	<b>545645</b>
Bihar	124.15	94.16	26554.99	213888	282020
Jharkhand	38.76	79.71	30273.88	781020	379800
Odisha	44.11	155.71	82056.92	1860364	526986
West Bengal	98.40	88.75	55110.38	560042	620962
Sikkim	0.68	7.10	440.60	647939	62056
A & N Islands	0.40	8.25	267.30	666589	32400
<b>Eastern Region</b>	<b>306.51</b>	<b>433.68</b>	<b>194704.06</b>	<b>635231</b>	<b>448958</b>
Arunachal Pradesh	1.54	83.74	518.25	336528	6189
Assam	35.24	78.44	9818.09	278614	125167
Manipur	3.18	22.33	731.87	230222	32775
Meghalaya	3.30	22.43	1542.08	466873	68751
Mizoram	1.22	21.08	660.92	541290	31353
Nagaland	2.20	16.58	704.23	319667	42474
Tripura	4.09	10.49	1051.06	256984	100197
<b>North-Eastern Region</b>	<b>50.78</b>	<b>255.09</b>	<b>15026.50</b>	<b>295943</b>	<b>58907</b>
<b>Total (All India)</b>	<b>1368.56</b>	<b>3287.26</b>	<b>1316764.73</b>	<b>962157</b>	<b>400566</b>

Note:-

Source of Population: Office of Registrar General of India as on 1st October 2021

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

**TABLE 9.9**  
**ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY- STATE-WISE**  
**(UTILITIES & NON UTILITIES)**  
**2021-22**

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	1.22	1731.33	0.00	121.06	121.06
Delhi	20.80	32708.62	380.98	1933.53	2314.50
Haryana	29.70	57620.41	1152.05	2926.63	4078.68
Himachal Pradesh	7.42	12293.25	155.05	340.72	495.77
UT of J&K and Ladakh	13.76	19163.67	149.02	984.34	1133.37
Punjab	30.45	64594.64	1633.29	2552.76	4186.05
Rajasthan	79.79	90856.16	4598.01	1924.50	6522.51
Uttar Pradesh	232.30	131340.27	5504.57	3700.64	9205.21
Uttarakhand	11.47	15857.10	153.50	572.76	726.26
<b>Northern Region</b>	<b>426.90</b>	<b>426165.44</b>	<b>13726.47</b>	<b>15056.93</b>	<b>28783.40</b>
Chhattisgarh	29.69	32735.59	1284.50	1078.70	2363.20
Gujarat	70.29	127202.89	4413.50	4530.38	8943.87
Madhya Pradesh	85.12	89339.76	2420.15	3732.10	6152.25
Maharashtra	125.01	175905.31	7972.34	4023.99	11996.33
Daman & Diu	0.50	2749.81	0.00	188.81	188.81
D & N Haveli	0.64	7256.99	0.00	500.57	500.57
Goa	1.56	4684.25	0.00	306.33	306.33
<b>Western Region</b>	<b>312.80</b>	<b>439874.60</b>	<b>16090.50</b>	<b>14360.88</b>	<b>30451.37</b>
Andhra Pradesh	52.90	69772.94	2614.16	2065.65	4679.81
Telangana	37.82	71951.85	2876.70	1897.03	4773.74
Karnataka	67.09	73403	3090	1405	4494
Kerala	35.57	27474.31	278.12	1194.36	1472.48
Tamil Nadu	76.54	113188.18	3022.11	4483.34	7505.45
Puducherry	1.59	3061.08	0.00	214.28	214.28
Lakshadweep	0.07	55.67	0.00	0.00	0.00
<b>Southern Region</b>	<b>271.57</b>	<b>358906.77</b>	<b>11880.78</b>	<b>11259.32</b>	<b>23140.10</b>
Bihar	124.15	37732.75	0.00	2453.98	2453.98
Jharkhand	38.76	24808.55	1684.90	32.74	1717.64
Odisha	44.11	39145.12	1241.68	1055.56	2297.24
West Bengal	98.40	63562.38	4177.57	334.86	4512.43
Sikkim	0.68	643.20	0.34	43.83	44.17
A & N Islands	0.40	327.40	24.49	0.00	24.49
<b>Eastern Region</b>	<b>306.51</b>	<b>166219.40</b>	<b>7128.98</b>	<b>3920.98</b>	<b>11049.95</b>
Arunachal Pradesh	1.54	929.08	0.00	64.09	64.09
Assam	35.24	11344.57	131.67	646.45	778.13
Manipur	3.18	1075.75	0.21	74.80	75.02
Meghalaya	3.30	2313.55	18.24	98.10	116.34
Mizoram	1.22	672.90	0.00	37.58	37.58
Nagaland	2.20	896.30	0.00	57.80	57.80
Tripura	4.09	1661.65	26.31	91.15	117.46
<b>North-Eastern Region</b>	<b>50.78</b>	<b>18893.80</b>	<b>176.44</b>	<b>1069.98</b>	<b>1246.42</b>
<b>All India</b>	<b>1368.56</b>	<b>1410060.01</b>	<b>49003.15</b>	<b>45668.09</b>	<b>94671.24</b>

Note:

1. Per Capita Electricity Consumption = (Gross Electricity Consumed/Mid Year Population)
2. Gross Electricity Consumed = Availability to State (i.e. State own Generation + Drawal From regional Grid)+Auxiliary Consumption+- Gross Captive Electricity Consumption out of Self Generation
3. Auxiliary Consumption (Assumed)  
State own Generation - Hydro 2% ; Thermal 8.15%; Drawal From Regional grid - 7%
4. Gross Captive Electricity Consumption out of Self Generation  
Estimated Gross Generation is 235 BU and Export to Utilities is 22 BU for the year 2021-22."
5. Population State wise Mid Year Population (1st Oct of year 2021) as projected by Registrar General of India.

**TABLE 9.9 (CONTD.)  
ANNUAL PER CAPITA CONSUMPTION OF ELECTRICITY- STATE-WISE  
(UTILITIES & NON UTILITIES)  
2021-22**

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	1852.39	4.83	1857.22	1529
Delhi	35023.13	0.61	35023.73	1684
Haryana	61699.08	3227.23	64926.31	2186
Himachal Pradesh	12789.02	131.09	12920.11	1742
UT of J&K and Ladakh	20297.04	1.20	20298.23	1475
Punjab	68780.69	2785.59	71566.28	2350
Rajasthan	97378.66	9962.58	107341.25	1345
Uttar Pradesh	140545.48	13449.10	153994.59	663
Uttarakhand	16583.35	842.74	17426.09	1520
<b>Northern Region</b>	<b>454948.84</b>	<b>30404.97</b>	<b>485353.81</b>	<b>1137</b>
Chhattisgarh	35098.79	30566.82	65665.61	2211
Gujarat	136146.76	21221.18	157367.95	2239
Madhya Pradesh	95492.02	9358.53	104850.55	1232
Maharashtra	187901.64	10645.99	198547.63	1588
Daman & Diu	2938.62	0.47	2939.09	5914
D & N Haveli	7757.56	21.17	7778.74	12250
Goa	4990.58	848.03	5838.61	3736
<b>Western Region</b>	<b>470325.97</b>	<b>72662.19</b>	<b>542988.16</b>	<b>1736</b>
Andhra Pradesh	74452.75	8445.80	82898.55	1567
Telangana	76725.59	3678.05	80403.64	2126
Karnataka	77897.08	14392.14	92289.23	1376
Kerala	28946.79	1080.44	30027.23	844
Tamil Nadu	120693.63	10512.80	131206.43	1714
Puducherry	3275.36	131.15	3406.51	2138
Lakshadweep	55.67	0.00	55.67	819
<b>Southern Region</b>	<b>382046.87</b>	<b>38240.38</b>	<b>420287.25</b>	<b>1548</b>
Bihar	40186.73	623.86	40810.58	329
Jharkhand	26526.19	7094.94	33621.13	867
Odisha	41442.36	58405.03	99847.39	2264
West Bengal	68074.81	4096.45	72171.27	733
Sikkim	687.37	0.00	687.37	1011
A & N Islands	351.89	0.00	351.89	878
<b>Eastern Region</b>	<b>177269.35</b>	<b>70220.28</b>	<b>247489.63</b>	<b>807</b>
Arunachal Pradesh	993.17	0.00	993.17	645
Assam	12122.70	1420.44	13543.14	384
Manipur	1150.76	0.00	1150.76	362
Meghalaya	2429.89	51.75	2481.64	751
Mizoram	710.48	0.00	710.48	582
Nagaland	954.10	0.00	954.10	433
Tripura	1779.11	0.00	1779.11	435
<b>North-Eastern Region</b>	<b>20140.22</b>	<b>1472.18</b>	<b>21612.40</b>	<b>426</b>
<b>All India</b>	<b>1504731.25</b>	<b>213000.00</b>	<b>1717731.25</b>	<b>1255</b>

**TABLE 9.10**  
**ALL INDIA ELECTRICAL ACCIDENTS**  
**STATE-WISE**  
**2021-22**

State/UT	Generating Stations/Transmission & Distribution				Industrial Installations of Consumers	
	Human		Animals		Human	
	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal
Andhra Pradesh	239	65	162	0	0	0
Assam	1	2	0	0	0	0
Bihar	555	30	381	22	0	0
Chhattisgarh	301	81	399	0	1	0
Goa	3	18	7	0	0	0
Gujarat	240	179	512	0	30	2
Haryana	144	118	70	1	0	0
Himachal Pradesh	19	39	10	0	0	0
UT of J&K and Ladakh	26	25	3	0	0	0
Karnataka	741	563	1050	78	16	8
Kerala	97	220	68	0	0	0
Madhya Pradesh	966	295	1179	4	0	0
Maharashtra	888	461	929	8	0	0
Manipur	0	0	0	0	0	0
Meghalaya	13	8	9	0	0	0
Nagaland	NA	NA	NA	NA	NA	NA
Orissa	80	59	40	0	0	0
Punjab	71	55	4	0	2	1
Rajasthan	810	426	1397	1	0	0
Sikkim	1	1	0	0	0	0
Telangana	1298	221	3338	0	0	0
Tamil Nadu	607	180	29	94	0	0
Tripura	0	0	0	0	0	0
Uttar Pradesh	1302	446	1872	9	0	0
West Bengal	65	101	51	0	0	0
Arunachal Pradesh	5	1	1	0	0	0
Delhi	29	34	1	0	0	0
Mizoram	22	26	0	0	0	0
Uttarakhand	0	0	0	0	0	0
Jharkhand	18	0	22	0	0	0
Mines	NA	NA	NA	NA	NA	NA
Central Govt. Installn.	4	3	0	0	0	0
Railways	NA	NA	NA	NA	NA	NA
<b>Union Territories</b>						
A & N Islands	1	3	3	0	0	0
Chandigarh	0	0	0	0	0	0
D.&N. Haveli	0	0	0	0	0	0
Daman & Diu	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0
Puducherry	0	2	10	0	1	1
<b>Total (All India)</b>	<b>8546</b>	<b>3662</b>	<b>11547</b>	<b>217</b>	<b>50</b>	<b>12</b>

NA - Not Available.

**TABLE 9.10 (CONTD.)  
ALL INDIA ELECTRICAL ACCIDENTS  
STATE-WISE  
2021-22**

State/UT	Industrial Installations of Consumers		Installations of Consumers Other than Industrial				Total * Accidents
	Animals		Human		Animals		
	Fatal	Non-Fatal	Fatal	Non-Fatal	Fatal	Non-Fatal	
Andhra Pradesh	0	0	64	3	4	0	537
Assam	0	0	0	0	0	0	3
Bihar	0	0	13	0	4	0	1005
Chhattisgarh	0	0	29	10	25	0	846
Goa	0	0	2	2	0	0	32
Gujarat	0	0	191	24	33	0	1211
Haryana	0	0	21	6	5	0	365
Himachal Pradesh	0	0	0	0	0	0	68
UT of J&K and Ladakh	0	0	0	0	0	0	54
Karnataka	82	0	149	74	132	0	2893
Kerala	0	0	114	25	18	0	542
Madhya Pradesh	0	0	68	23	18	0	2553
Maharashtra	0	0	17	0	0	0	2303
Manipur	0	0	0	0	0	0	0
Meghalaya	0	0	0	0	0	0	30
Nagaland	NA	NA	NA	NA	NA	NA	NA
Orissa	0	0	66	34	53	0	332
Punjab	0	0	6	4	0	0	143
Rajasthan	0	0	58	36	0	0	2728
Sikkim	0	0	0	0	0	0	2
Telangana	0	0	84	16	106	0	5063
Tamil Nadu	0	0	0	0	0	0	910
Tripura	0	0	0	0	0	0	0
Uttar Pradesh	0	0	93	29	20	0	3771
West Bengal	0	0	0	0	1	0	218
Arunachal Pradesh	0	0	0	0	0	0	7
Delhi	0	0	0	0	0	0	64
Mizoram	0	0	0	0	0	0	48
Uttarakhand	0	0	45	35	90	0	170
Jharkhand	0	0	0	0	0	0	40
Mines	NA	NA	NA	NA	NA	NA	NA
Central Govt. Installn.	0	0	0	0	0	0	7
Railways	NA	NA	NA	NA	NA	NA	NA
<b>Union Territories</b>							
A & N Islands	0	0	0	0	0	0	7
Chandigarh	0	0	0	0	0	0	0
D.&N. Haveli	0	0	0	0	0	0	0
Daman & Diu	0	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0	0
Puducherry	0	0	0	0	0	0	14
<b>Total (All India)</b>	<b>82</b>	<b>0</b>	<b>1020</b>	<b>321</b>	<b>509</b>	<b>0</b>	<b>25966</b>

NA - Not Available.

\*Includes total Human Fatal Accidents(9616), Human Non Fatal Accidents(3995)  
Animal Fatal Accidents(12138) and Animal Non Fatal Accidents(217).



## CHAPTER 10

### ELECTRICITY CONSUMERS AND CONNECTED LOAD

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

- As on 31.03.2022, the total number of electricity consumers were about 334.52 million and the connected load was 811694 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 339550 MW followed by industrial and agricultural sectors having connected load of 171976 MW and 151042 MW respectively.

**TABLE 10**  
**CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD**  
**REGIONWISE/STATEWISE**  
**UTILITIES**  
**31.3.2022**

State/UTs	Domestic		Commercial		Industrial (LV&MV)	
	Connected Load (KW)	Consumers	Connected Load(KW)	Consumers	Connected Load (KW)	Consumers
Chandigarh	915763	225303	472524	29073	100219	2845
Delhi	12848302	5563597	5757436	1000493	1592334	42642
Haryana	11031386	5808287	3492332	742288	1953739	100297
Himachal Pradesh	4321102	2209720	899339	306001	273528	30405
UT of J&K and Ladakh	2072091	1890390	539328	243184	321934	21137
Punjab	13905283	7442330	4533254	1180398	2804853	121773
Rajasthan	14051330	12606967	5362440	1268846	2474427	161819
Uttar Pradesh	40953245	28081807	5082694	1769497	2762072	197302
Uttarakhand	3838100	2394571	1421117	289937	293698	14071
<b>Sub-Total(NR)</b>	<b>103936602</b>	<b>66222972</b>	<b>27560464</b>	<b>6829717</b>	<b>12576805</b>	<b>692291</b>
Chattisgarh	3374922	4933698	1408422	393057	760047	36888
Gujarat	19098295	14374372	7351403	2296474	9830325	434980
Madhya Pradesh	9954399	12431679	3563312	1191394	1634364	138283
Maharashtra	35889374	24980705	12811559	2799052	8137155	473304
Daman & Diu	112123	51959	28877	7665	132575	1923
Dadra & N. Haveli	125670	72076	39982	8383	142871	2279
Goa	1698131	535354	490703	102436	146404	5659
<b>Sub-Total(WR)</b>	<b>70252914</b>	<b>57379843</b>	<b>25694258</b>	<b>6798461</b>	<b>20783740</b>	<b>1093316</b>
Andhra Pradesh	16001886	15819008	5186343	1709872	3418312	121322
Telangana	14462096	12274839	5777384	1671806	1622300	109596
Karnataka	24430078	20810032	8273654	2521249	6011163	291334
Kerala	19994763	10282874	5643150	2478659	1925153	147051
Tamil Nadu	36830480	24325317	13081622	3628805	10480950	755107
Puducherry	634949	376518	161304	61242	135449	6575
Lakshadweep	71762	20622	17724	5279	3076	365
<b>Sub-Total (SR)</b>	<b>112426014</b>	<b>83909210</b>	<b>38141181</b>	<b>12076912</b>	<b>23596403</b>	<b>1431350</b>
Bihar	15348814	15962518	2641018	1117717	1342244	129248
Jharkhand	3891565	3839792	680470	251364	306224	17479
Odisha	9742904	9127296	1490462	450275	536530	25638
West Bengal	15046092	21893834	4846534	2440762	2579664	179906
Sikkim	139269	106757	34680	12418	1453	404
A&N Island	210515	124559	90101	20557	15393	491
<b>Sub-Total (ER)</b>	<b>44379159</b>	<b>51054756</b>	<b>9783265</b>	<b>4293093</b>	<b>4781509</b>	<b>353166</b>
Arunachal Pradesh	99947	213143	32594	28220	3102	270
Assam	6008072	5721836	1510565	293989	258327	19629
Manipur	844321	508068	117628	28469	21232	3013
Meghalaya	872041	561238	107870	27940	12161	617
Mizoram	304665	232646	63327	19749	5297	1075
Nagaland	121584	290646	19589	24004	12903	5115
Tripura	304702	865510	80462	77551	51946	4863
<b>Sub-Total(NER)</b>	<b>8555332</b>	<b>8393087</b>	<b>1932035</b>	<b>499922</b>	<b>364969</b>	<b>34582</b>
<b>Total (All India)</b>	<b>339550020</b>	<b>266959868</b>	<b>103111203</b>	<b>30498105</b>	<b>62103426</b>	<b>3604705</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  
31.3.2022**

State/UTs	Industrial(H.V.)		Public Lighting		Traction	
	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers	Connected Load (KW)	Consumers
Chandigarh	61500	89	4575	1520	0	0
Delhi	246133	576	129397	15225	173590	10
Haryana	7300140	17626	37145	4174	81093	108
Himachal Pradesh	1739167	4089	6439	1239	0	0
Jammu & Kashmir and Ladakh	451305	886	12562	334	0	0
Punjab	7542512	13549	55992	5401	0	0
Rajasthan	10865135	30569	370425	20907	41198	8
Uttar Pradesh	4861392	13854	233073	7479	66600	8
Uttarakhand	1773152	2402	19506	2963	5046	2
<b>Sub-Total(NR)</b>	<b>34840436</b>	<b>83640</b>	<b>869114</b>	<b>59242</b>	<b>367527</b>	<b>136</b>
Chattisgarh	2553010	2115	47483	9208	401200	25
Gujarat	14663119	21263	112268	23248	14757	16
Madhya Pradesh	2512505	6208	156681	22239	2561	2
Maharashtra	16249906	15200	504747	103310	135944	120
Daman & Diu	522527	719	1503	603	0	0
Dadra & N. Haveli	1257091	953	2991	427	0	0
Goa	683121	813	10022	4561	0	0
<b>Sub-Total(WR)</b>	<b>38441280</b>	<b>47271</b>	<b>835695</b>	<b>163596</b>	<b>554462</b>	<b>163</b>
Andhra Pradesh	4047546	6708	180983	114565	666632	56
Telangana	4483696	8428	116837	120973	282845	46
Karnataka	5147698	249648	593976	179212	29717	194
Kerala	1231935	2845	173757	57758	104403	20
Tamil Nadu	8103150	7054	2653130	771653	453000	40
Puducherry	538269	554	6368	51399	0	0
Lakshadweep	0	0	323	79	0	0
<b>Sub-Total(SR)</b>	<b>23552293</b>	<b>275237</b>	<b>3725373</b>	<b>1295639</b>	<b>1536597</b>	<b>356</b>
Bihar	1176750	3205	34463	2958	67310	7
Jharkhand	3282259	2454	16659	811	53520	5
Odisha	2644519	3108	44152	11337	609499	45
West Bengal	4228662	4858	156829	51755	508137	86
Sikkim	76596	813	62	32	0	0
A&N Island	0	0	3250	847	0	0
<b>Sub-Total(ER)</b>	<b>11408785</b>	<b>14438</b>	<b>255415</b>	<b>67740</b>	<b>1238466</b>	<b>143</b>
Arunachal Pradesh	69702	45	7621	1889	0	0
Assam	1220921	4695	8675	2033	0	0
Manipur	17501	109	4378	1029	0	0
Meghalaya	202696	120	403	42	0	0
Mizoram	8461	204	967	1294	0	0
Nagaland	0	0	8989	671	0	0
Tripura	110291	1186	17893	2781	0	0
<b>Sub-Total(NER)</b>	<b>1629571</b>	<b>6359</b>	<b>48926</b>	<b>9739</b>	<b>0</b>	<b>0</b>
<b>Total (All India)</b>	<b>109872365</b>	<b>426945</b>	<b>5734522</b>	<b>1595956</b>	<b>3697052</b>	<b>798</b>

**TABLE 10 (CONTD.)  
CLASSIFICATION OF CONSUMERS AND CONNECTED LOAD  
REGIONWISE/STATEWISE  
UTILITIES  
31.3.2022**

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	889	121	8440	111	47862	1243	1611772	260305
Delhi	63854	10364	297802	6937	393923	22365	21502770	6662209
Haryana	8086273	676400	499961	23291	1231725	1625	33713795	7374096
Himachal Pradesh	217714	39370	374126	8191	485223	52202	8316637	2651217
Jammu & Kashmir and Ladakh	158854	23126	133799	2916	409581	12740	4099452	2194713
Punjab	10417686	1388837	275389	15564	383446	589	39918415	10168441
Rajasthan	15992824	1638285	984758	65629	1005742	195206	51148281	15988236
Uttar Pradesh	9387631	1422193	558226	26184	4379505	258154	68284438	31776478
Uttarakhand	341232	44642	126483	2196	58452	88	7876787	2750872
<b>Sub-Total(NR)</b>	<b>44666957</b>	<b>5243338</b>	<b>3258984</b>	<b>151019</b>	<b>8395459</b>	<b>544212</b>	<b>236472347</b>	<b>79826567</b>
Chhattisgarh	1603300	618598	153420	33562	0	0	10301804	6027151
Gujarat	16393111	1906189	1248207	105012	282975	69518	68994458	19231072
Madhya Pradesh	12748160	3398244	574327	52403	345148	2298	31491457	17242750
Maharashtra	17232738	4469600	1069381	57040	2336187	178892	94366991	33077223
Daman & Diu	3922	1304	704	101	4124	636	806355	64910
Dadra & N. Haveli	8724	1337	4719	478	2406	347	1584455	86280
Goa	58246	12075	0	0	25504	2786	3112131	663684
<b>Sub-Total(WR)</b>	<b>48048200</b>	<b>10407347</b>	<b>3050759</b>	<b>248596</b>	<b>2996344</b>	<b>254477</b>	<b>210657651</b>	<b>76393070</b>
Andhra Pradesh	13674997	1880323	632457	68962	2823589	286461	46632746	20007277
Telangana	11260494	2649775	338586	75972	3359456	87840	41703694	16999275
Karnataka	16157855	3285946	1866665	242851	3829366	1251553	66340172	28832019
Kerala	1018040	510539	150	1	137640	2406	30228991	13482153
Tamil Nadu	12993528	2287324	0	0	2549091	678985	87144951	32454285
Puducherry	44654	7102	44661	142	2843	8808	1568497	512340
Lakshadweep	0	0	0	0	246	157	93130	26502
<b>Sub-Total(SR)</b>	<b>55149568</b>	<b>10621009</b>	<b>2882519</b>	<b>387928</b>	<b>12702231</b>	<b>2316210</b>	<b>273712179</b>	<b>112313851</b>
Bihar	865436	377366	149706	42512	40442	16631	21666182	17652162
Jharkhand	0	61959	0	0	268332	28	8499028	4173892
Odisha	745295	151987	115382	13569	671407	62062	16600149	9845317
West Bengal	1386963	345765	541365	35168	321575	5030	29615820	24957164
Sikkim	0	0	0	0	37834	1910	289894	122334
A&N Island	1343	505	0	0	19999	1865	340601	148824
<b>Sub-Total(ER)</b>	<b>2999036</b>	<b>937582</b>	<b>806452</b>	<b>91249</b>	<b>1359588</b>	<b>87526</b>	<b>77011674</b>	<b>56899693</b>
Arunachal Pradesh	25	19	2953	88	28366	100	244311	243774
Assam	137085	34674	64577	4866	528804	55921	9737025	6137643
Manipur	1080	69	25255	219	56636	790	1088030	541766
Meghalaya	121	4	17811	451	42158	4328	1255261	594740
Mizoram	0	0	84330	82	62529	20857	529576	275907
Nagaland	11	1	843	41	41459	2122	205377	322600
Tripura	39528	7559	86321	7562	89737	3013	780881	970025
<b>Sub-Total(NER)</b>	<b>177849</b>	<b>42326</b>	<b>282091</b>	<b>13309</b>	<b>849690</b>	<b>87131</b>	<b>13840462</b>	<b>9086455</b>
<b>Total (All India)</b>	<b>151041610</b>	<b>27251602</b>	<b>10280805</b>	<b>892101</b>	<b>26303311</b>	<b>3289556</b>	<b>811694313</b>	<b>334519636</b>

## CHAPTER 11

### URBAN & RURAL ELECTRIFICATION

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

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

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

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

- As per the information received from the MIS of DDUGJY as on 31st March 2022, 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 26671275 as on 31st March, 2022.
- Maharashtra has maximum number of energized pump- sets (4476130) followed by Karnataka (3119019).
- The average capacity and electricity consumption per pump-set was 5.66 kW and 8565 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.

**TABLE 11.1**  
**TOWNS ELECTRIFIED**  
**31.03.2022**

Name of the State/UTs	Total No. of Towns as per 2011 Census	Towns Electrified
Chandigarh	6	6
Delhi	113	113
Haryana	154	154
Himachal Pradesh	59	59
UT of J&K and Ladakh	122	122
Punjab	217	217
Rajasthan	297	297
Uttar Pradesh	915	915
Uttarakhand	116	116
<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**  
**31.03.2022**

Name of the State/UTs	Total Inhabited Villages as per 2011 census	Villages Electrified as on 31.03.2021	% age Electrified
Chandigarh	5	5	100.00
Delhi	103	103	100.00
Haryana	6642	6642	100.00
Himachal Pradesh	17882	17882	100.00
UT of J&K and Ladakh	6337	6337	100.00
Punjab	12168	12168	100.00
Rajasthan	43264	43264	100.00
Uttar Pradesh	97813	97813	100.00
Uttarakhand	15745	15745	100.00
<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**  
**31.03.2022**

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	1.43	0.10
Delhi	30575	76	30651	33.10	0.12
Haryana	664029	6127	670156	9123.54	18.36
Himachal Pradesh	39211	3379	42590	85.10	0.82
UT of J&K and Ladakh	20471	0	20471	375.42	3.67
Punjab	1268252	110715	1378967	12572.46	22.36
Rajasthan	1524106	77033	1601139	28816.56	36.23
Uttar Pradesh	1285334	127614	1412948	18956.52	17.30
Uttarakhand	34364	0	34364	430.00	3.19
<b>Sub-Total (NR)</b>	<b>4573579</b>	<b>324944</b>	<b>5191707</b>	<b>70394.12</b>	<b>19.66</b>
Chhattisgarh	549504	0	549504	5933.05	13.50
Gujarat	1858953	47254	1906207	13791.38	11.04
Madhya Pradesh	3076105	0	3076105	26521.52	37.43
Maharashtra	4360386	115744	4476130	36253.20	24.31
Daman & Diu	1243	143	1386	3.37	0.14
D. & N. Haveli	953	113	1066	5.25	0.08
Goa	12337	332	12669	31.13	0.77
<b>Sub-Total(WR)</b>	<b>7978858</b>	<b>163586</b>	<b>10023067</b>	<b>82538.90</b>	<b>20.54</b>
Andhra Pradesh	1900565	3934	1904499	14114.03	19.87
Telangana	2466776	115688	2582464	22159.18	33.73
Karnataka	3018479	100540	3119019	21935.73	29.97
Kerala	566330	2	566332	384.69	1.53
Tamil Nadu	2174375	105829	2280204	13436.25	12.30
Puducherry	6930	459	7389	61.71	2.17
Lakshadweep	0	0	0	0.00	0.00
<b>Sub-Total(SR)</b>	<b>8778245</b>	<b>326452</b>	<b>10459907</b>	<b>72091.59</b>	<b>20.76</b>
Bihar	361112	23828	384940	1140.86	4.30
Jharkhand	100000	0	100000	178.05	0.59
Odisha	124521	0	124521	781.42	0.95
West Bengal	337006	8011	345017	1224.59	2.22
Sikkim	0	0	0	0.00	0.00
A.& N. Islands	493	0	493	1.18	0.44
<b>Sub-Total(ER)</b>	<b>703613</b>	<b>31839</b>	<b>954971</b>	<b>3326.10</b>	<b>1.71</b>
Arunachal Pradesh	17	0	17	0.06	0.01
Assam	34178	0	34178	54.23	0.55
Manipur	108	0	108	7.19	0.98
Meghalaya	24	4	28	0.13	0.01
Mizoram	54	0	54	0.00	0.00
Nagaland	194	0	194	0.00	0.00
Tripura	7044	0	7044	39.15	3.72
<b>Sub-Total (NER)</b>	<b>9747</b>	<b>4</b>	<b>41623</b>	<b>100.76</b>	<b>0.67</b>
<b>Total (All India)</b>	<b>22044042</b>	<b>846825</b>	<b>26671275</b>		<b>17.35</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**  
**31.03.2022**

Name of the State/Uts	Agricultural	Average.Capacity	Av. Consumption
	Connected Load	umpset	per pumpset
	(kW)	(kW)	(kWh)
Chandigarh	889	2.11	3387
Delhi	63854	2.08	1080
Haryana	8086273	12.07	13614
Himachal Pradesh	217714	5.11	1998
UT of J&K and Ladakh	158854	7.76	18339
Punjab	10417686	7.55	9117
Rajasthan	15992824	9.99	17998
Uttar Pradesh	9387631	6.64	13416
Uttarakhand	341232.2	9.93	12513
<b>Sub-Total (NR)</b>	<b>44666957</b>	<b>8.60</b>	<b>13559</b>
Chhattisgarh	1603300	2.92	10797
Gujarat	16393111	8.60	7235
Madhya Pradesh	12748160	4.14	8622
Maharashtra	17232738	3.85	8099
Daman & Diu	3922	2.83	2431
D. & N. Haveli	8724	8.18	4922
Goa	58246	4.60	2457
<b>Sub-Total(WR)</b>	<b>48048200</b>	<b>4.79</b>	<b>8235</b>
Andhra Pradesh	13674997	7.18	7411
Telangana	11260494	4.36	8581
Karnataka	16157855	5.18	7033
Kerala	1018040	1.80	679
Tamil Nadu	12993528	5.70	5893
Puducherry	44654	6.04	8352
Lakshadweep	0	0.00	0
<b>Sub-Total(SR)</b>	<b>55149568</b>	<b>5.27</b>	<b>6892</b>
Bihar	865436	2.25	2964
Jharkhand	0	0.00	1780
odhisa	745295	5.99	6275
West Bengal	1386963	4.02	3549
Sikkim	0	0.00	0
A.& N. Islands	1343	0.00	0
<b>Sub-Total(ER)</b>	<b>2999036</b>	<b>3.14</b>	<b>3483</b>
Arunachal Pradesh	25	0.00	0
Assam	137085	4.01	1587
Manipur	1080	10.00	66562
Meghalaya	121	4.32	4567
Mizoram	0	0.00	0
Nagaland	11	0.06	0
Tripura	39528	5.61	5558
<b>Sub-Total (NER)</b>	<b>177849</b>	<b>4.27</b>	<b>2421</b>
<b>Total (All India)</b>	<b>151041610</b>	<b>5.66</b>	<b>8565</b>

## CHAPTER 12

### POWER TRADING

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

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

- There are Forty Three (43) numbers of trading companies having trading license as on 31-03-2022. These trading companies have been classified as per the volume of trade permitted during the year, based on I to V category of license for trading.
- The total volume of electrical energy traded by the companies during 2021-22 was 24142.97 GWh which constitute 1.63 % of the total generation from utilities as against 12477.14 GWh which constituted 0.91% of the total generation from utilities in the previous year 2020-21.
- Out of total volume of trade of 24142.97 GWh, Power Trading Corporation (PTC) which has traded 5878.12 GWh constituting 24.35% of total volume of trade.
- PTC was followed by TPTCL which traded 5765.17 GWh constituting 23.88%, AEL which traded 5359.10 GWh constituting 22.2%, NVVNL which traded 4783.44 GWh constituting 19.81%.
- The total traded volume of the above four traders amounts to 90.24% of the total volume of electricity traded by all 43 Nos. of trading companies.





**TABLE 12.1**  
**NAME OF THE TRADING COMPANIES EXISTING**  
**31.03.2022**

Sl. No.	Name of the Trading Licensee	Date of Issue	Present Category of License
1	Tata Power Trading Company Ltd	09.06.2004	I
2	Adani Enterprises 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 Ltd	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	SJVN Limited	10.01.2022	I
15	Refex Industries Ltd.	21.03.2022	I
16	Essar Electric Power Development Corporation Ltd.*	14.12.2005	II
17	RPG Power Trading Company Ltd	23.09.2008	II
18	Kreate Energy (I) Pvt. Ltd.	12.02.2009	II
19	Arunachal Pradesh Power Corporation (P) Ltd	11.09.2012	II
20	National Energy Trading & Services Ltd	23.07.2004	III
21	Instinct Infra & Power Ltd	07.09.2005	III
22	Greenko Energies (P) Ltd	22.01.2008	III
23	Shyam Indus Power Solutions (P) Ltd.*	11.11.2008	III
24	ABJA Power Pvt. Ltd.	26.04.2011	III
25	Gita Power & Infrastructure (P) Ltd	20.10.2015	III
26	AEI New Energy Trading Pvt. Ltd.	25.03.2022	III
27	JSW Power Trading Company Ltd.	25.04.2006	IV
28	Ambitious Power Trading Company Ltd	16.09.2008	IV
29	Knowledge Infrastructure Systems (P) Ltd	18.12.2008	IV
30	Shree Cement Ltd	16.03.2010	IV
31	Vedprakash Power (P) Ltd.*	19.08.2013	IV
32	Phillip Commodities India Pvt. Ltd.	21.01.2016	IV
33	ReNew Energy markets Pvt. Ltd.	28.11.2021	IV
34	Customised Energy Solutions India (P) Ltd	08.06.2011	V
35	Saranyu Power Trading Private Limited	10.02.2015	V
36	Atria Energy Services Private Limited	20.06.2017	V
37	Amp Energy Markets India Pvt. Ltd.	15.04.2021	V
38	Altilium Energies Pvt. Ltd.	23.05.2021	V
39	Shubheksha Advisors Pvt. Ltd.	31.07.2021	V
40	Renurja Power LLP	31.07.2021	V
41	Shell Energy Marketing and Trading India Pvt. Ltd.	22.12.2021	V
42	Instant Ventures Pvt. Ltd.	09.02.2022	V
43	Ideal Energy Solutions Pvt. Ltd.	22.03.2022	V

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

\*\* Corporate Insolvency Resolution Process has been initiated as per the directions of the Hon'ble Supreme Court dated 31-03-2022.

Trading Limit for Category of License

Category I : No limit

Category II : Up to 1500 MU

Category III : Up to 500 MU

Category IV : Up to 100 MU

Category V :

Source – CERC

**TABLE 12.2**  
**STATE WISE IMPORT/EXPORT OF TRADED ENERGY DURING**  
**2021-22**

(GWh)

State/UTs	Export Gwh	Import Gwh
Chandigarh	0.00	0.00
Delhi	0.00	2357.95
Haryana	347.28	1974.10
Himachal Pradesh	2282.58	1532.39
Jammu & Kashmir	520.41	0.00
Punjab	0.00	3622.77
Rajasthan	170.22	1334.70
Uttar Pradesh	33.02	1245.97
Uttarakhand	2.25	287.85
<b>Northern Region</b>	<b>3355.76</b>	<b>12355.73</b>
Chhattisgarh	10635.29	0.00
Gujarat	844.32	5025.81
Madhya Pradesh	4456.27	0.00
Maharashtra	6.97	2136.95
Daman & Diu	0.00	0.00
Dadar & Nagar Haveli	0.00	0.00
Goa	0.00	181.64
<b>Western Region</b>	<b>15942.85</b>	<b>7344.40</b>
Andhra Pradesh	799.12	892.54
Telangana	276.03	0.00
Karnataka	180.79	28.69
Kerala	0.00	183.69
Tamil Nadu	2.89	1741.94
Puducherry	0.00	0.00
Lakshadweep	0.00	0.00
<b>Southern Region</b>	<b>1258.83</b>	<b>2846.87</b>
Bihar	0.00	0.00
Jharkhand	29.96	0.00
West Bengal	350.63	4.15
Odisha	2210.47	62.47
Sikkim	673.14	267.27
A. & N. Islands	0.00	0.00
<b>Eastern Region</b>	<b>3264.20</b>	<b>333.89</b>
Arunachal Pradesh	0.00	0.00
Assam	34.45	18.29
Manipur	0.00	0.00
Meghalaya	152.76	0.00
Mizoram	0.00	0.00
Nagaland	0.00	0.00
Tripura	134.12	0.00
<b>North-Eastern Region</b>	<b>321.32</b>	<b>18.29</b>
Central Sector	0.00	1224.03
Other Country	0.00	0.00
Inter Trader	0.00	19.77
<b>All India</b>	<b>24142.97</b>	<b>24142.97</b>

**TABLE 12.3**  
**STATE WISE IMPORT FIGURES DURING**  
**2021-22**

(GWh)

State/UTs	PEAK	Round the Clock	Other than Peak & RTC	Total
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	2048.89	309.06	2357.95
Haryana	0.00	1974.10	0.00	1974.10
Himachal Pradesh	0.00	1321.08	211.31	1532.39
Jammu & Kashmir	0.00	0.00	0.00	0.00
Punjab	0.00	3361.06	261.72	3622.77
Rajasthan	0.00	1168.77	165.92	1334.70
Uttar Pradesh	177.50	471.49	596.98	1245.97
Uttarakhand	0.00	287.85	0.00	287.85
<b>Northern Region</b>	<b>177.50</b>	<b>10633.24</b>	<b>1544.99</b>	<b>12355.73</b>
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	0.00	4864.81	161.00	5025.81
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	0.00	1926.18	210.77	2136.95
Daman & Diu	0.00	0.00	0.00	0.00
Dadar & Nagar Haveli	0.00	0.00	0.00	0.00
Goa	0.73	180.90	0.00	181.64
<b>Western Region</b>	<b>0.73</b>	<b>6971.89</b>	<b>371.77</b>	<b>7344.40</b>
Andhra Pradesh	44.90	470.18	377.47	892.54
Telangana	0.00	0.00	0.00	0.00
Karnataka	0.00	28.69	0.00	28.69
Kerala	0.00	130.93	52.77	183.69
Tamil Nadu	0.00	1741.94	0.00	1741.94
Puducherry	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
<b>Southern Region</b>	<b>44.90</b>	<b>2371.73</b>	<b>430.24</b>	<b>2846.87</b>
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
West Bengal	0.00	4.15	0.00	4.15
Odisha	0.00	62.47	0.00	62.47
Sikkim	0.04	229.36	37.87	267.27
A. & N. Islands	0.00	0.00	0.00	0.00
<b>Eastern Region</b>	<b>0.04</b>	<b>295.98</b>	<b>37.87</b>	<b>333.89</b>
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	18.29	0.00	18.29
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
<b>North-Eastern Region</b>	<b>0.00</b>	<b>18.29</b>	<b>0.00</b>	<b>18.29</b>
Central Sector	0.00	1224.03	0.00	1224.03
Other Country	0.00	0.00	0.00	0.00
Inter Trader	0.00	0.00	19.77	19.77
<b>All India</b>	<b>223.17</b>	<b>21515.17</b>	<b>2404.63</b>	<b>24142.97</b>

**TABLE 12.4**  
**STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWH DURING**  
**2021-22**

(GWh)

State/UTs	Import	Export	Trader
Delhi	330.66	0.00	AEL
	31.09	0.00	GMR
	149.36	0.00	NVVN
	389.95	0.00	PTC
	1456.89	0.00	TPTCL
<b>Total</b>	<b>2357.95</b>	<b>0.00</b>	
Haryana	327.17	0.00	AEL
	72.14	0.00	GMR
	378.78	0.00	MPL
	288.23	0.00	NVVN
	680.73	0.00	PTC
	227.05	347.28	TPTCL
<b>Total</b>	<b>1974.10</b>	<b>347.28</b>	
Himachal Pradesh	938.93	0.00	AEL
	21.60	95.44	MPL
	47.70	0.00	NVVN
	221.03	1185.42	PTC
	303.13	893.74	TPTCL
	0.00	104.72	APPCPL
	0.00	2.97	REL
	0.00	0.27	KEIPL
<b>Total</b>	<b>1532.39</b>	<b>2282.58</b>	
UT of J&K and Ladakh	0.00	5.41	GMR
	0.00	512.35	PTC
	0.00	2.64	TPTCL
Total	0.00	520.41	
Punjab	93.83	0.00	AEL
	26.38	0.00	GMR
	463.09	0.00	MPL
	137.59	0.00	NHPC
	281.47	0.00	NVVN
	1176.67	0.00	PTC
	1443.74	0.00	TPTCL
<b>Total</b>	<b>3622.77</b>	<b>0.00</b>	
Rajasthan	2.31	168.04	AEL
	922.91	0.00	NVVN
	409.48	0.00	PTC
	0.00	2.18	TPTCL
<b>Total</b>	<b>1334.70</b>	<b>170.22</b>	
Uttar Pradesh	221.14	0.00	AEL
	72.54	0.00	APPCPL
	75.39	0.00	MPL
	396.65	0.00	PTC
	72.24	0.00	REL
	321.01	33.02	TPTCL
	86.99	0.00	IPL
<b>Total</b>	<b>1245.97</b>	<b>33.02</b>	
Uttarakhand	34.45		NVVN
	1033.15	260.51	PTC
	1795.89	0.00	TPTCL
<b>Total</b>	<b>5025.81</b>	<b>844.32</b>	

**TABLE 12.4 (CONTD.)  
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWH DURING  
2021-22**

(GWh)

State/UTs	Import	Export	Trader
<b>Northern Region</b>	<b>12355.73</b>	<b>3355.76</b>	
Chhattisgarh	0.00	4428.64	AEL
	0.00	236.69	GMR
	0.00	1.53	KEIPL
	0.00	1141.89	MPL
	0.00	1545.45	NVVN
	0.00	1662.03	PTC
	0.00	69.27	REL
	0.00	1425.85	TPTCL
	0.00	113.79	IPL
	0.00	10.13	APPL
<b>Total</b>	<b>0.00</b>	<b>10635.29</b>	
Gujarat	1273.94	583.81	AEL
	13.36	0.00	GMR
	150.37	0.00	MPL
	759.11	0.00	NVVN
	1033.15	260.51	PTC
	1795.89	0.00	TPTCL
<b>Total</b>	<b>5025.81</b>	<b>844.32</b>	
Madhya Pradesh	0.00	112.06	AEL
	0.00	13.93	APPCPL
	0.00	1.04	GMR
	0.00	17.84	KEIPL
	0.00	108.26	MPL
	0.00	137.59	NHPC
	0.00	2826.38	NVVN
	0.00	1040.53	PTC
	0.00	198.63	TPTCL
<b>Total</b>	<b>0.00</b>	<b>4456.27</b>	
Maharashtra	2106.89	6.31	AEL
	30.06	0.00	TPTCL
	0.00	0.66	KEIPL
<b>Total</b>	<b>2136.95</b>	<b>6.97</b>	
Goa	90.39	0.00	APPCPL
	0.73	0.00	KEIPL
	90.51	0.00	MPL
<b>Total</b>	<b>181.64</b>	<b>0.00</b>	
<b>Western Region</b>	<b>7344.40</b>	<b>15942.85</b>	
Andhra Pradesh	29.93	0.00	KEIPL
	176.67	118.35	NVVN
	685.95	511.39	PTC
	0.00	60.23	AEL
	0.00	34.43	APPCPL
	0.00	74.72	MPL
<b>Total</b>	<b>892.54</b>	<b>799.12</b>	
Kerala	64.24	0.00	AEL
	94.75	0.00	GMR
	24.70	0.00	PTC
<b>Total</b>	<b>183.69</b>	<b>0.00</b>	
<b>Total</b>	<b>0.00</b>	<b>276.03</b>	
<b>Southern Region</b>	<b>2846.87</b>	<b>1258.83</b>	

**TABLE 12.4 (CONTD.)  
STATE WISE TRADER-WISE IMPORT EXPORT OF ENERGY IN GWH DURING  
2021-22**

(GWh)

State/UTs	Import	Export	Trader
Odisha	5.41	0.00	GMR
	17.37	0.60	MPL
	39.69	2160.86	TPTCL
	0.00	6.52	KEIPL
	0.00	42.49	NVVN
<b>Total</b>	<b>62.47</b>	<b>2210.47</b>	
West Bengal	0.66	0.00	KEIPL
	<b>3.49</b>	<b>0.00</b>	<b>MPL</b>
	0.00	350.63	TPTCL
<b>Total</b>	<b>4.15</b>	<b>350.63</b>	
Sikkim	148.20	154.22	KEIPL
	119.07	498.10	PTC
	0.00	9.86	APPCPL
	0.00	10.96	TPTCL
<b>Total</b>	<b>267.27</b>	<b>673.14</b>	
Jharkhand	0.00	29.96	PTC
<b>Total</b>	<b>0.00</b>	<b>29.96</b>	
<b>Eastern Region</b>	<b>333.89</b>	<b>3264.20</b>	
Assam	18.29	0.00	MPL
	0.00	34.45	NVVN
<b>Total</b>	<b>18.29</b>	<b>34.45</b>	
Meghalaya	0.00	152.76	NVVN
<b>Total</b>	<b>0.00</b>	<b>152.76</b>	
Mizoram	0.00	0.00	KEIPL
	0.00	0.00	
Tripura	0.00	38.47	PTC
		95.65	TPTCL
<b>Total</b>	<b>0.00</b>	<b>134.12</b>	
<b>North Eastern Region</b>	<b>18.29</b>	<b>321.32</b>	
<b>Central Sector</b>	<b>1224.03</b>	<b>0.00</b>	
<b>Inter Trader</b>	<b>19.77</b>		
<b>All India</b>	<b>24142.97</b>	<b>24142.97</b>	
<b>Export/Import from other country</b>	<b>0.00</b>	<b>0.00</b>	<b>PTC</b>
<b>Total Other Country</b>	<b>0.00</b>	<b>0.00</b>	
<b>Grand Total</b>	<b>24142.97</b>	<b>24142.97</b>	



**TABLE 12.5**  
**TRADER-WISE STATE-WISE ENERGY SALES DURING**  
**2021-22**

(GWh)

Trader	Sales to	Sales Vol.	% Vol.
AEL	Delhi	330.66	
	Gujarat	1273.94	
	Haryana	327.17	
	Kerala	64.24	
	Uttar Pradesh	221.14	
	Maharashtra	2106.89	
	Punjab	93.83	
	Rajasthan	2.31	
	Himachal Pradesh	938.93	
<b>Total AEL</b>		<b>5359.10</b>	<b>22.20</b>
APPCPL	Goa	90.39	
	Uttar Pradesh	72.54	
Total APPCPL		162.94	0.67
GMR	Delhi	31.09	
	Gujarat	13.36	
	Haryana	72.14	
	Kerala	94.75	
	Odisha	5.41	
	Punjab	26.38	
<b>Total GMR</b>		<b>243.15</b>	<b>1.01</b>
KEIPL	Andhra Pradesh	29.93	
	Goa	0.73	
	West Bengal	0.66	
	Karnataka	1.53	
	Sikkim	148.20	
<b>Total KEIPL</b>		<b>181.05</b>	<b>0.75</b>
MPL	Assam	18.29	
	Goa	90.51	
	Gujarat	150.37	
	Haryana	378.78	
	Odisha	17.37	
	Tamil Nadu	200.32	
	Uttar Pradesh	75.39	
	West Bengal	3.49	
	Punjab	463.09	
	Himachal Pradesh	21.60	
Karnataka	17.03		
<b>Total MPL</b>		<b>1436.25</b>	<b>5.95</b>
NHPC	Punjab	137.59	
<b>Total NHPC</b>		<b>137.59</b>	<b>0.57</b>

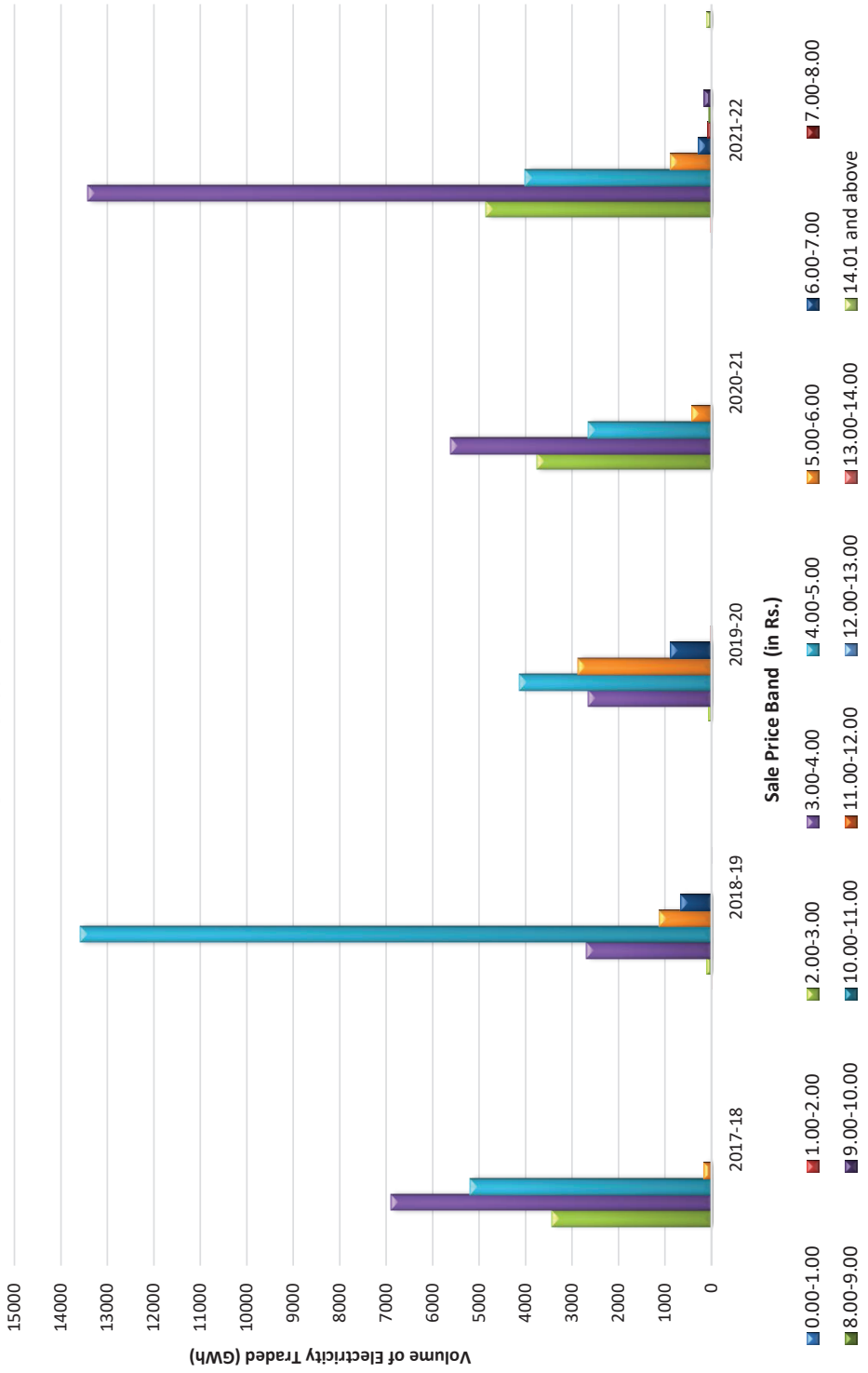
**TABLE 12.5 (CONTD.)  
TRADER-WISE STATE-WISE ENERGY SALES DURING  
2021-22**

Trader	Sales to	Sales Vol.	% Vol.
NVVNL	Andhra Pradesh	176.67	
	Delhi	149.36	
	Gujarat	759.11	
	Haryana	288.23	
	Tamil Nadu	879.76	
	Punjab	281.47	
	Rajasthan	922.91	
	Himachal Pradesh	47.70	
	Uttarakhand	34.45	
	Central Sector	1224.03	
Inter Trader	19.77		
<b>Total NVVNL</b>		<b>4783.44</b>	<b>19.81</b>
PTC	Andhra Pradesh	685.95	
	Delhi	389.95	
	Gujarat	1033.15	
	Haryana	680.73	
	Kerala	24.70	
	Tamil Nadu	635.05	
	Uttar Pradesh	396.65	
	Punjab	1176.67	
	Rajasthan	409.48	
	Himachal Pradesh	221.03	
	Uttarakhand	105.69	
Sikkim	119.07		
<b>Total PTC</b>		<b>5878.12</b>	<b>24.35</b>
REL	Uttar Pradesh	72.24	
Total REL		72.24	0.30
IIPL	Tamil Nadu	26.80	
	Uttar Pradesh	86.99	
Total IIPL		113.79	0.47
APPL	Karnataka	10.13	
<b>Total APPL</b>		<b>10.13</b>	<b>0.04</b>
TPTCL	Delhi	1456.89	
	Gujarat	1795.89	
	Haryana	227.05	
	Odisha	39.69	
	Uttar Pradesh	321.01	
	Maharashtra	30.06	
	Punjab	1443.74	
	Himachal Pradesh	303.13	
Uttarakhand	147.71		
<b>Total TPTCL</b>		<b>5765.17</b>	<b>23.88</b>
<b>Total All India</b>		<b>24142.97</b>	<b>100.00</b>





### Volume of Electricity Traded Sale Price wise 2017-18 to 2021-22



**TABLE 12.6**  
**AVERAGE SALE AND PURCHASE PRICE OF ELECTRICITY TRADED AND TRADING MARGIN-TRADER-WISE**  
**2021-22**

Sl. No.	Name of Trading Licensee	Average Purchase Price (Rs.)	Average Sale Price (Rs.)	Average Trading Margin (Rs.)
1	Adani Enterprises Ltd.	4.000	4.010	0.010
2	Arunachal Pradesh Power Corporation Private Limited	4.523	4.559	0.036
4	GMR Energy Trading Ltd	3.221	3.259	0.038
5	Kreate Energy (I) Pvt. Ltd.	3.804	3.857	0.006
6	Manikaran Power Limited	3.251	3.296	0.045
7	NHPC Limited	3.430	3.450	0.020
8	NTPC Vidyut Vyapar Nigam Ltd.	3.447	3.478	0.030
9	PTC India Ltd.	3.902	3.934	0.032
10	Refex Energy Ltd.	3.145	3.180	0.035
11	Tata Power Trading Company Ltd.	3.733	3.758	0.045
12	Instinct Infra & Power Ltd.	3.196	3.204	0.009
13	ABJA Power Pvt. Ltd.	3.033	3.057	0.023
	<b>Grand Total</b>	<b>3.682</b>	<b>3.716</b>	<b>0.012</b>

**TABLE 12.7**  
**VOLUME OF ELECTRICITY TRADED SALE PRICE-WISE**  
**2021-22**

Sale Price (Rs)	Volume (GWh)	% of Total Volume
0.00-1.000	14.36	0.06
1.001-2.000	29.99	0.12
2.001-3.000	4861.95	20.26
3.001-4.000	13428.53	55.96
4.001-5.000	4006.14	16.70
5.001-6.000	901.13	3.76
6.001-7.000	294.24	1.23
7.001-8.000	99.92	0.42
8.001-9.000	63.11	0.26
9.001-10.000	166.39	0.69
10.001-11.000	0.00	0.00
11.001-12.000	5.09	0.02
13.001-14.000	3.32	0.01
14.001-15.000	120.62	0.50
<b>Total</b>	<b>23994.77</b>	<b>100.00</b>

## APPENDIX-A

## List Of Thermal Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
<b>1. Northern Region (NR)</b>									
1	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	1	30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	2	30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	3	30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	4	30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	5	30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	GT-Gas	6	30.000		1986
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	7	30.000		1995
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	8	30.000		1995
	Delhi	State Sector	IPGCL	I.P. CCPP	ST-Gas	9	30.000		1996
2	Delhi	State Sector	PPCL	PRAGATI CCPP	GT-Gas	1	104.600		2002
	Delhi	State Sector	PPCL	PRAGATI CCPP	GT-Gas	2	104.600		2002
	Delhi	State Sector	PPCL	PRAGATI CCPP	ST-Gas	3	121.200		2003
3	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	1	250.000		2010
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	2	250.000		2011
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	ST-Gas	3	250.000		2012
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	4	250.000		2012
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	GT-Gas	5	250.000		2013
	Delhi	State Sector	PPCL	PRAGATI CCGT-III	ST-Gas	6	250.000		2014
4	Delhi	Private Sector	TPDDL	RITHALA CCPP	GT-Gas	1	35.750		2010
	Delhi	Private Sector	TPDDL	RITHALA CCPP	GT-Gas	2	35.750		2010
	Delhi	Private Sector	TPDDL	RITHALA CCPP	ST-Gas	3	36.500		2011
<b>Total (Delhi)</b>							<b>2208.400</b>		
5	Haryana	State Sector	HPGCL	YAMUNA NAGAR TPS	Steam	1	300.000		2007
	Haryana	State Sector	HPGCL	YAMUNA NAGAR TPS	Steam	2	300.000		2008
6	Haryana	State Sector	HPGCL	RAJIV GANDHI TPS	Steam	1	600.000		2010
	Haryana	State Sector	HPGCL	RAJIV GANDHI TPS	Steam	2	600.000		2010
7	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	6	210.000		2001
	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	7	250.000		2004
	Haryana	State Sector	HPGCL	PANIPAT TPS	Steam	8	250.000		2005
8	Haryana	Private Sector	JHAJJAR POWER LTD.	MAHATMA GANDHI TPS	Steam	1	660.000		2012
	Haryana	Private Sector	JHAJJAR POWER LTD.	MAHATMA GANDHI TPS	Steam	2	660.000		2012
<b>Total (Haryana)</b>							<b>3830.000</b>		

**APPENDIX-A**

**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
9	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	G-T-Gas	1	25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	G-T-Gas	2	25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	G-T-Gas	3	25.000		1989
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	G-T-Gas	4	25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	G-T-Gas	5	25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	G-T-Gas	6	25.000		1994
	Jammu & Kashmir	State Sector	JKSPDC	PAMPORE GPS (Liq.)	G-T-Gas	7	25.000		1995
<b>Total (Jammu &amp; Kashmir)</b>							<b>175.000</b>		
10	Punjab	State Sector	PSPCL	GH TPS (LEH:MOH)	Steam	1	210.000		1997
	Punjab	State Sector	PSPCL	GH TPS (LEH:MOH)	Steam	2	210.000		1998
	Punjab	State Sector	PSPCL	GH TPS (LEH:MOH)	Steam	3	250.000		2008
	Punjab	State Sector	PSPCL	GH TPS (LEH:MOH)	Steam	4	250.000		2008
11	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	3	210.000		1988
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	4	210.000		1989
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	5	210.000		1992
	Punjab	State Sector	PSPCL	ROPAR TPS	Steam	6	210.000		1993
12	Punjab	Private Sector	Nabha Power Ltd	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	GPSSL (GVK)	GOINDWAL SAHIB TPP	Steam	1	270.000		2016
	Punjab	Private Sector	GPSSL (GVK)	GOINDWAL SAHIB TPP	Steam	2	270.000		2016
<b>Total (Punjab)</b>							<b>5680.000</b>		
15	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	1	110.000		1983
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	2	110.000		1983
	Rajasthan	State Sector	RRVUNL	KOTA TPS	Steam	3	210.000		1988
	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

**APPENDIX-A**

**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.
	Rajasthan	State Sector	RRVJNL	CHHABRA TPP	Steam	2	250.000	2010
	Rajasthan	State Sector	RRVJNL	CHHABRA TPP	Steam	3	250.000	2013
	Rajasthan	State Sector	RRVJNL	CHHABRA TPP	Steam	4	250.000	2014
	Rajasthan	State Sector	RRVJNL	CHHABRA TPP	Steam	5	660.000	2017
	Rajasthan	State Sector	RRVJNL	CHHABRA TPP	Steam	6	660.000	2019
18	Rajasthan	State Sector	RRVJNL	SURATGARH TPS	Steam	1	250.000	1998
	Rajasthan	State Sector	RRVJNL	SURATGARH TPS	Steam	2	250.000	2000
	Rajasthan	State Sector	RRVJNL	SURATGARH TPS	Steam	3	250.000	2001
	Rajasthan	State Sector	RRVJNL	SURATGARH TPS	Steam	4	250.000	2002
	Rajasthan	State Sector	RRVJNL	SURATGARH TPS	Steam	5	250.000	2003
	Rajasthan	State Sector	RRVJNL	SURATGARH TPS	Steam	6	250.000	2009
	Rajasthan	State Sector	RRVJNL	SURATGARH STPS	Steam	7	660.000	2020
	Rajasthan	State Sector	RRVJNL	SURATGARH STPS	Steam	8	660.000	2021
19	Rajasthan	State Sector	RRVJNL	KALISINDH TPS	Steam	1	600.000	2014
	Rajasthan	State Sector	RRVJNL	KALISINDH TPS	Steam	2	600.000	2015
20	Rajasthan	State Sector	RRVJNL	DHOLPUR CAPP	GT-Gas	1	110.000	2007
	Rajasthan	State Sector	RRVJNL	DHOLPUR CAPP	GT-Gas	2	110.000	2007
	Rajasthan	State Sector	RRVJNL	DHOLPUR CAPP	GT-Gas	3	110.000	2007
21	Rajasthan	State Sector	RRVJNL	RAMGARH CAPP	GT-Gas	1	3.000	1994
	Rajasthan	State Sector	RRVJNL	RAMGARH CAPP	GT-Gas	2	35.500	1996
	Rajasthan	State Sector	RRVJNL	RAMGARH CAPP	GT-Gas	3	37.500	2002
	Rajasthan	State Sector	RRVJNL	RAMGARH CAPP	GT-Gas	4	37.800	2003
	Rajasthan	State Sector	RRVJNL	RAMGARH CAPP	GT-Gas	5	110.000	2013
	Rajasthan	State Sector	RRVJNL	RAMGARH CAPP	GT-Gas	6	50.000	2013
22	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	Steam	1	660.000	2013
	Rajasthan	Private Sector	Adani Power Ltd	KAWAI TPS	Steam	2	660.000	2013
23	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	1	135.000	2009
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	2	135.000	2010
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	3	135.000	2011
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	4	135.000	2011
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	5	135.000	2013
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	6	135.000	2013
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	7	135.000	2013
	Rajasthan	Private Sector	RWPL (JSW)	JALIPA KAPURDI TPP	Steam	8	135.000	2013
<b>Total (Rajasthan)</b>								<b>10833.800</b>

**APPENDIX-A**

**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	2	210.000	1987
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	3	210.000	1988
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	4	500.000	1993
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	5	500.000	1994
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	6	500.000	2015
	Uttar Pradesh	State Sector	UPRVUNL	ANPARA TPS	Steam	7	500.000	2016
25	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	7	105.000	1978
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	8	250.000	2011
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	9	250.000	2012
	Uttar Pradesh	State Sector	UPRVUNL	HARDUAGANJ TPS	Steam	10	660.000	2022
26	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	7	94.000	1974
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	9	200.000	1980
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	10	200.000	1979
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	11	200.000	1977
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	12	200.000	1981
	Uttar Pradesh	State Sector	UPRVUNL	OBRA TPS	Steam	13	200.000	1982
27	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	1	110.000	1984
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	2	110.000	1985
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	3	210.000	2006
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	4	210.000	2006
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	5	250.000	2012
	Uttar Pradesh	State Sector	UPRVUNL	PARICHHA TPS	Steam	6	250.000	2013
28	Uttar Pradesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	1	45.000	2011
	Uttar Pradesh	Private Sector	BEPL	KHAMBARKHERA TPS	Steam	2	45.000	2011
29	Uttar Pradesh	Private Sector	BEPL	MAGSOODPUR TPS	Steam	1	45.000	2011
	Uttar Pradesh	Private Sector	BEPL	MAGSOODPUR TPS	Steam	2	45.000	2012
30	Uttar Pradesh	Private Sector	BEPL	BARKHERA TPS	Steam	1	45.000	2011
	Uttar Pradesh	Private Sector	BEPL	BARKHERA TPS	Steam	2	45.000	2012
31	Uttar Pradesh	Private Sector	BEPL	UTRAULA TPS	Steam	1	45.000	2012
	Uttar Pradesh	Private Sector	BEPL	UTRAULA TPS	Steam	2	45.000	2012
32	Uttar Pradesh	Private Sector	BEPL	KUNDARKI TPS	Steam	1	45.000	2012
	Uttar Pradesh	Private Sector	BEPL	KUNDARKI TPS	Steam	2	45.000	2012
33	Uttar Pradesh	Private Sector	LAPPL	ANPARA C TPS	Steam	1	600.000	2011
	Uttar Pradesh	Private Sector	LAPPL	ANPARA C TPS	Steam	2	600.000	2011

**APPENDIX-A**

**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
34	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	1	300.000		2010
	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	2	300.000		2010
	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	3	300.000		2011
	Uttar Pradesh	Private Sector	RPSCL	ROSA TPP Ph-I	Steam	4	300.000		2012
35	Uttar Pradesh	Private Sector	LPGL	LALITPUR TPS	Steam	1	660.000		2016
	Uttar Pradesh	Private Sector	LPGL	LALITPUR TPS	Steam	2	660.000		2016
	Uttar Pradesh	Private Sector	LPGL	LALITPUR TPS	Steam	3	660.000		2016
36	Uttar Pradesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	1	660.000		2015
	Uttar Pradesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	2	660.000		2016
	Uttar Pradesh	Private Sector	PPGCL (Jaypee)	PRAYAGRAJ TPP	Steam	3	660.000		2017
<b>Total (Uttar Pradesh)</b>							<b>12939.000</b>		
37	Uttarakhand	Private Sector	Gama Infracorp Pvt. Ltd.	GAMA CCPP	Steam	1	225.000		2016
38	Uttarakhand	Private Sector	Stravanthi Energy Pvt. Ltd.	KASHIPUR CCPP	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
	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	2	500.000		2011
	Haryana	Central Sector	NTPC	INDIRA GANDHI STPP	Steam	3	500.000		2012
40	Haryana	Central Sector	NTPC	FARIDABAD CCPP	GT-Gas	1	137.760		1999
	Haryana	Central Sector	NTPC	FARIDABAD CCPP	GT-Gas	2	137.760		1999
	Haryana	Central Sector	NTPC	FARIDABAD CCPP	ST-Gas	3	156.070		2000
41	Rajasthan	Central Sector	NLC	BARSINGSAR LIGNITE	Steam	1	125.000		2010
	Rajasthan	Central Sector	NLC	BARSINGSAR LIGNITE	Steam	2	125.000		2011
42	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	1	88.710		1989
	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	2	88.710		1989
	Rajasthan	Central Sector	NTPC	ANTA CCPP	GT-Gas	3	88.710		1989
	Rajasthan	Central Sector	NTPC	ANTA CCPP	ST-Gas	4	153.200		1989
43	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	1	210.000		1991
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	2	210.000		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	3	210.000		1993
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	4	210.000		1994
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	5	490.000		2010
	Uttar Pradesh	Central Sector	NTPC	DADRI (NCTPP)	Steam	6	490.000		2010

## APPENDIX-A

## List Of Thermal Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.	
							MW			
44	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	1	500.000		1988	
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	2	500.000		1989	
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	3	500.000		2005	
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	4	500.000		2005	
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	5	500.000		2012	
	Uttar Pradesh	Central Sector	NTPC	RIHAND STPS	Steam	6	500.000		2013	
	45	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	1	200.000		1982
		Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	2	200.000		1982
		Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	3	200.000		1983
		Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	4	200.000		1983
		Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	5	200.000		1984
		Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	6	500.000		1986
46	Uttar Pradesh	Central Sector	NTPC	SINGRAULI STPS	Steam	7	500.000		1987	
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	1	110.000		1988	
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	2	110.000		1989	
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	3	110.000		1990	
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	4	110.000		1998	
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	5	660.000		2019	
	Uttar Pradesh	Central Sector	NTPC	TANDA TPS	Steam	6	660.000		2021	
	47	Uttar Pradesh	Central Sector	NTPC	UNCHAHAHAR TPS	Steam	1	210.000		1988
		Uttar Pradesh	Central Sector	NTPC	UNCHAHAHAR TPS	Steam	2	210.000		1989
		Uttar Pradesh	Central Sector	NTPC	UNCHAHAHAR TPS	Steam	3	210.000		1999
		Uttar Pradesh	Central Sector	NTPC	UNCHAHAHAR TPS	Steam	4	210.000		1999
		Uttar Pradesh	Central Sector	NTPC	UNCHAHAHAR TPS	Steam	5	210.000		2006
Uttar Pradesh		Central Sector	NTPC	UNCHAHAHAR TPS	Steam	6	500.000		2017	
48		Uttar Pradesh	Central Sector	MUNPL	MEJA STPP	Steam	1	660.000		2018
		Uttar Pradesh	Central Sector	MUNPL	MEJA STPP	Steam	2	660.000		2021
49		Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	1	130.190		1992
		Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	2	130.190		1992
		Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	3	130.190		1992
		Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	GT-Gas	4	130.190		1992
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	ST-Gas	5	154.510		1994	
	Uttar Pradesh	Central Sector	NTPC	DADRI CCPP	ST-Gas	6	154.510		1994	
	50	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	1	111.190		1989
		Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	2	111.190		1989
		Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	3	111.190		1989
		Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	3	111.190		1989



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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	GT-Gas	4	111.190		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	ST-Gas	5	109.300		1989
	Uttar Pradesh	Central Sector	NTPC	AURAIYA CCPP	ST-Gas	6	109.300		1990
<b>Total Central Sector (Northern Region)</b>							<b>15544.060</b>		
<b>Northern Region Total</b>							<b>51660.260</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
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	2	210.000		1983
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	3	210.000		1985
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	4	210.000		1986
	Chhattisgarh	State Sector	CSPGCL	KORBA-WEST TPS	Steam	5	500.000		2013
53	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	1	500.000		2014
	Chhattisgarh	State Sector	CSPGCL	MARWA TPS	Steam	2	500.000		2016
54	Chhattisgarh	Private Sector	Vandana Energy & Steel Pvt Ltd	KATGHORA TPP	Steam	1	35.000		2012
55	Chhattisgarh	Private Sector	Lanco Amarkantak Power Ltd	PATHADI TPP	Steam	1	300.000		2009
	Chhattisgarh	Private Sector	Lanco Amarkantak Power Ltd	PATHADI TPP	Steam	2	300.000		2010
56	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPELLI TPP	Steam	1	135.000		2011
	Chhattisgarh	Private Sector	ACB (India) Ltd	KASAIPELLI TPP	Steam	2	135.000		2012
57	Chhattisgarh	Private Sector	ACB (India) Ltd	CHAKABURA TPP	Steam	2	30.000		2014
58	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	1	600.000		2014
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	2	600.000		2014
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	3	600.000		2015
	Chhattisgarh	Private Sector	Jindal Power Limited	TAMNAR TPP	Steam	4	600.000		2015
59	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	1	250.000		2007
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	2	250.000		2008
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	3	250.000		2008
	Chhattisgarh	Private Sector	Jindal Power Limited	OP JINDAL TPS	Steam	4	250.000		2008
60	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIJA TPS	Steam	1	50.000		2013
	Chhattisgarh	Private Sector	Spectrum Coal and Power Ltd	RATIJA TPS	Steam	2	50.000		2016
61	Chhattisgarh	Private Sector	S V Power Private Limited	SVPL TPP	Steam	1	63.000		2011
62	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	2	600.000		2018
	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	3	600.000		2013
	Chhattisgarh	Private Sector	Wardha Power Co Ltd	AKALTARA TPS	Steam	4	600.000		2014

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
63	Chhattisgarh	Private Sector	Korba West Power Co Ltd	AVANTHA BHANDAR	Steam	1	600.000		2014
64	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	1	600.000		2014
65	Chhattisgarh	Private Sector	DB Power Corp. Ltd	BARADARHA TPS	Steam	2	600.000		2015
	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAIKHEDA TPP	Steam	1	685.000		2015
66	Chhattisgarh	Private Sector	GMR Chhattisgarh Energy Ltd	RAIKHEDA TPP	Steam	2	685.000		2016
	Chhattisgarh	Private Sector	Vandana Vidhyut Ltd	SALORA TPP	Steam	1	135.000		2015
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
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	2	360.000		2016
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	3	360.000		2017
	Chhattisgarh	Private Sector	RKM Powergen Pvt Ltd	UCHPINDA TPP	Steam	4	360.000		2019
69	Chhattisgarh	Private Sector	Maruti Clean Coal & Power Ltd	BANDAKHAR TPP	Steam	1	300.000		2015
70	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	1	300.000		2015
	Chhattisgarh	Private Sector	Bharat Aluminium Co Ltd	BALCO TPS	Steam	2	300.000		2016
71	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	1	300.000		2016
	Chhattisgarh	Private Sector	TRN Energy Private Limited	NAWAPARA TPP	Steam	2	300.000		2017
72	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>		
73	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	3	210.000		1990
	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	4	210.000		1991
	Gujarat	State Sector	GSECL	GANDHI NAGAR TPS	Steam	5	210.000		1998
74	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	3	75.000		1997
	Gujarat	State Sector	GSECL	KUTCH LIGNITE TPS	Steam	4	75.000		2009
75	Gujarat	State Sector	GSECL	SIKKA REP. TPS	Steam	3	250.000		2015
	Gujarat	State Sector	GSECL	SIKKA REP. TPS	Steam	4	250.000		2015
76	Gujarat	State Sector	GSECL	UKAI TPS	Steam	3	200.000		1979
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	4	200.000		1979
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	5	210.000		1985
	Gujarat	State Sector	GSECL	UKAI TPS	Steam	6	500.000		2013
77	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	1	210.000		1982
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	2	210.000		1983
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	3	210.000		1984
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	4	210.000		1986
	Gujarat	State Sector	GSECL	WANAKBORI TPS	Steam	5	210.000		1986

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							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	GSEGL	HAZIRA CAPP	GT-Gas	1	52.000		2001
	Gujarat	State Sector	GSEGL	HAZIRA CAPP	GT-Gas	2	52.000		2001
	Gujarat	State Sector	GSEGL	HAZIRA CAPP	GT-Gas	3	52.100		2002
81	Gujarat	State Sector	GSEGL	HAZIRA CAPP EXT	GT-Gas	1	351.000		2012
82	Gujarat	State Sector	GPPCL	PIPAVAV CAPP	GT-Gas	1	351.000		2014
	Gujarat	State Sector	GPPCL	PIPAVAV CAPP	GT-Gas	2	351.000		2013
83	Gujarat	State Sector	GSECL	DHUVRAN CAPP	GT-Gas	1	67.850		2003
	Gujarat	State Sector	GSECL	DHUVRAN CAPP	GT-Gas	2	38.770		2003
	Gujarat	State Sector	GSECL	DHUVRAN CAPP	GT-Gas	3	72.000		2006
	Gujarat	State Sector	GSECL	DHUVRAN CAPP	GT-Gas	4	40.000		2007
	Gujarat	State Sector	GSECL	DHUVRAN CAPP	GT-Gas	5	376.100		2014
84	Gujarat	State Sector	GSECL	UTRAN CAPP	GT-Gas	5	240.000		2009
	Gujarat	State Sector	GSECL	UTRAN CAPP	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 CAPP	GT-Gas	1	382.500		2009
	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CAPP	GT-Gas	2	382.500		2009
	Gujarat	Private Sector	Torrent Power Ltd	SUGEN CAPP	GT-Gas	3	382.500		2009
87	Gujarat	Private Sector	Torrent Power Ltd	UNOSUGEN CAPP	GT-Gas	1	382.500		2013
88	Gujarat	Private Sector	Essar Power Ltd	ESSAR CAPP	GT-Gas	1	110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CAPP	GT-Gas	2	110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CAPP	GT-Gas	3	110.000		1995
	Gujarat	Private Sector	Essar Power Ltd	ESSAR CAPP	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

## APPENDIX-A

## List Of Thermal Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	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 UMTTP	Steam	1	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTTP	Steam	2	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTTP	Steam	3	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTTP	Steam	4	800.000		2012
	Gujarat	Private Sector	Coastal Gujarat Power Ltd	MUNDRA UMTTP	Steam	5	800.000		2013
92	Gujarat	Private Sector	GIPCL	BARODA CAPP	GT-Gas	5	106.000		1997
	Gujarat	Private Sector	GIPCL	BARODA CAPP	GT-Gas	6	54.000		1997
93	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	1	125.000		2000
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	2	125.000		1999
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	3	125.000		2010
	Gujarat	Private Sector	GIPCL	SURAT LIG. TPS	Steam	4	125.000		2010
94	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	GT-Gas	1	135.000		1997
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	GT-Gas	2	135.000		1997
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	GT-Gas	3	135.000		1998
	Gujarat	Private Sector	CLP India Pvt Ltd	PEGUTHAN CAPP	ST-Gas	4	250.000		1998
95	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CAPP	GT-Gas	1	400.000		2014
	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CAPP	GT-Gas	2	400.000		2014
	Gujarat	Private Sector	Torrent Power Ltd	DGEN MEGA CAPP	GT-Gas	3	400.000		2014
<b>Total (Gujarat)</b>							<b>22329.820</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

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	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
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	BHUSAWAL TPS	Steam	3	210.000		1982
	Maharashtra	State Sector	MSPGCL	BHUSAWAL TPS	Steam	4	500.000		2012
	Maharashtra	State Sector	MSPGCL	BHUSAWAL TPS	Steam	5	500.000		2012
108	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	3	210.000		1985
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	4	210.000		1986
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	5	500.000		1991
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	6	500.000		1992
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	7	500.000		1997
	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	8	500.000		2015

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
109	Maharashtra	State Sector	MSPGCL	CHANDRAPUR(MAHARASHTRA) STPS	Steam	9	500.000		2016
	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	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
	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	1	250.000		2007
	Maharashtra	State Sector	MSPGCL	PARAS TPS	Steam	2	250.000		2010
113	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	6	250.000		2007
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	7	250.000		2010
	Maharashtra	State Sector	MSPGCL	PARLI TPS	Steam	8	250.000		2016
	Maharashtra	State Sector	MSPGCL	URAN CGPP	GT-Gas	5	108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CGPP	GT-Gas	6	108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CGPP	GT-Gas	7	108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CGPP	GT-Gas	8	108.000		1985
	Maharashtra	State Sector	MSPGCL	URAN CGPP	ST-Gas	9	120.000		1994
	Maharashtra	State Sector	MSPGCL	URAN CGPP	ST-Gas	10	120.000		1994
	115	Maharashtra	Private Sector	Sinnar Thermal Power Ltd	NASIK (P) TPS	Steam	1	270.000	
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
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
Maharashtra		Private Sector	Adani Power Ltd	TIRORA TPS	Steam	1	660.000		2012
Maharashtra		Private Sector	Adani Power Ltd	TIRORA TPS	Steam	2	660.000		2013
Maharashtra		Private Sector	Adani Power Ltd	TIRORA TPS	Steam	3	660.000		2013
Maharashtra	Private Sector	Adani Power Ltd	TIRORA TPS	Steam	4	660.000		2014	

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Maharashtra	Private Sector	Adami 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
122	Maharashtra	Private Sector	JSW Energy Ltd	AMARAVATI TPS	Steam	1	300.000		2010
123	Maharashtra	Private Sector	Abhijeet MADC Nagpur EPL	JSW RATNAGIRI TPP	Steam	1	246.000		2012
124	Maharashtra	Private Sector	Adani Electricity Mumbai Ltd	MIHAN 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>21456.000</b>		
131	Goa	Private Sector	Reliance Energy Trading (P) Ltd	GOA CCPP (Liq.)	GT-Gas		48.000		1999
<b>Total (Goa)</b>							<b>48.000</b>		
132	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	1	200.000		1983
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	2	200.000		1983
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	3	200.000		1984
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	4	500.000		1987
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	5	500.000		1988

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW	Unit No.	
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	6	500.000		1989
	Chhattiagarh	Central Sector	NTPC	KORBA STPS	Steam	7	500.000		2010
133	Chhattiagarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPS	Steam	1	250.000		2008
	Chhattiagarh	Central Sector	NTPC-SAIL Power Co. LTD	BHILAI TPS	Steam	2	250.000		2009
134	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	1	660.000		2011
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	2	660.000		2011
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	3	660.000		2012
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	4	500.000		2007
	Chhattiagarh	Central Sector	NTPC	SIPAT STPS	Steam	5	500.000		2008
135	Chhattiagarh	Central Sector	NTPC	LARA TPP	Steam	1	800.000		2018
	Chhattiagarh	Central Sector	NTPC	LARA TPP	Steam	2	800.000		2020
136	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	1	144.300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	2	144.300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	GT-Gas	3	144.300		1994
	Gujarat	Central Sector	NTPC	GANDHAR CCPP	ST-Gas	4	224.490		1995
137	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	1	106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	2	106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	3	106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	GT-Gas	4	106.000		1992
	Gujarat	Central Sector	NTPC	KAWAS CCPP	ST-Gas	5	116.100		1993
	Gujarat	Central Sector	NTPC	KAWAS CCPP	ST-Gas	6	116.100		1993
138	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	1	210.000		1987
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	2	210.000		1988
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	3	210.000		1989
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	4	210.000		1989
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	5	210.000		1990
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	6	210.000		1991
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	7	500.000		1999
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	8	500.000		2000
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	9	500.000		2006
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	10	500.000		2007
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	11	500.000		2012
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	12	500.000		2013
	Madhya Pradesh	Central Sector	NTPC	VINDHYACHAL STPS	Steam	13	500.000		2015
139	Madhya Pradesh	Central Sector	NTPC	KHARGONE STPP	Steam	1	660.000		2019



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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
	Madhya Pradesh	Central Sector	NTPC	KHARGONE STPP	Steam	2	660.000		2020
140	Madhya Pradesh	Central Sector	NTPC	GADARWARA TPP	Steam	1	800.000		2019
	Madhya Pradesh	Central Sector	NTPC	GADARWARA TPP	Steam	2	800.000		2021
141	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	1	500.000		2012
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	2	500.000		2013
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	3	660.000		2016
	Maharashtra	Central Sector	NTPC	MAUDA TPS	Steam	4	660.000		2017
142	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	1	660.000		2017
	Maharashtra	Central Sector	NTPC	SOLAPUR STPS	Steam	2	660.000		2019
143	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	1	205.000		1998
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	2	205.000		1998
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	ST-Gas	3	230.000		1998
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	4	213.000		2006
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	5	213.000		2006
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	6	237.540		2006
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	7	213.000		2007
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	GT-Gas	8	213.000		2007
	Maharashtra	Central Sector	RGPPL	RATNAGIRI CCPP	ST-Gas	9	237.540		2007
<b>Total Central Sector (Western Region)</b>							<b>22280.670</b>		
<b>Western Region Total</b>							<b>96392.490</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
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	5	210.000		2010
	Andhra Pradesh	State Sector	APGENCO	RAYALASEEMA TPS	Steam	6	600.000		2018
145	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	1	210.000		1979
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	2	210.000		1980
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	3	210.000		1989
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	4	210.000		1990
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	5	210.000		1994
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	6	210.000		1995
	Andhra Pradesh	State Sector	APGENCO	Dr. N.TATA RAO TPS	Steam	7	500.000		2009
146	Andhra Pradesh	State Sector	APPDCL	DAMODARAM SANJEEVAIAH TPS	Steam	1	800.000		2014

**APPENDIX-A**

**List Of Thermal Power Stations As On 31.03.2022**

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

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Ca-	Year of Comm.
							capacity MW	
160	Andhra Pradesh	State Sector	APEPDC	JEGURUPADU PHASE I CCPP	GT-Gas	1	52.800	1996
	Andhra Pradesh	State Sector	APEPDC	JEGURUPADU PHASE I CCPP	GT-Gas	2	52.800	1996
	Andhra Pradesh	State Sector	APEPDC	JEGURUPADU PHASE I CCPP	GT-Gas	3	52.800	1996
	Andhra Pradesh	State Sector	APEPDC	JEGURUPADU PHASE I CCPP	ST-Gas	4	77.000	1997
161	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	1	140.000	2005
	Andhra Pradesh	Private Sector	GVK Energy Ltd	JEGURUPADU PHASE II CCPP	GT-Gas	2	80.000	2005
162	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	VEMAGIRI CCPP	GT-Gas	1	233.000	2006
	Andhra Pradesh	Private Sector	GMR Vemagiri Power Gen Ltd	VEMAGIRI CCPP	GT-Gas	2	137.000	2006
163	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	GT-Gas	1	47.000	1997
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	GT-Gas	2	47.000	1997
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	GT-Gas	3	47.000	1997
	Andhra Pradesh	Private Sector	Spectrum Power Gen Ltd	GODAVARI CCPP	ST-Gas	4	67.000	1998
164	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	1	42.500	2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	2	42.500	2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	3	42.500	2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	GT-Gas	4	42.500	2001
	Andhra Pradesh	Private Sector	GMR Energy Ltd	GMR Energy Ltd - Kakinada	ST-Gas	5	50.000	2001
165	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GREL CCPP (Rajahmundry)	GT-Gas	1	384.000	2015
	Andhra Pradesh	Private Sector	GMR Rajahmundry Energy Ltd	GREL CCPP (Rajahmundry)	GT-Gas	2	384.000	2015
<b>Total (Andhra Pradesh)</b>							<b>14525.344</b>	
166	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	9	250.000	1997
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	10	250.000	1998
	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (NEW)	Steam	11	500.000	2011
167	Telangana	State Sector	TSGENCO	KOTHAGUDEM TPS (STAGE-7)	Steam	12	800.000	2018
168	Telangana	State Sector	TSGENCO	KAKATIYA TPS	Steam	1	500.000	2010
	Telangana	State Sector	TSGENCO	KAKATIYA TPS	Steam	2	600.000	2015
169	Telangana	State Sector	TSGENCO	RAMAGUNDEM - B TPS	Steam	1	62.500	1971
170	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	1	600.000	2016
	Telangana	State Sector	Singareni Collieries Co. Ltd	SINGARENI TPP	Steam	2	600.000	2016
171	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	1	270.000	2020
	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	2	270.000	2020
	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	3	270.000	2021
	Telangana	State Sector	TSGENCO	BHADRADRI TPP	Steam	4	270.000	2022
<b>Total (Telangana)</b>							<b>5242.500</b>	

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
172	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	1	210.000		1985
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	2	210.000		1986
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	3	210.000		1991
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	4	210.000		1994
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	5	210.000		1999
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	6	210.000		1999
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	7	210.000		2002
	Karnataka	State Sector	KPCL	RAICHUR TPS	Steam	8	250.000		2010
173	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	1	500.000		2007
	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	2	500.000		2012
	Karnataka	State Sector	KPCL	BELLARY TPS	Steam	3	700.000		2016
174	Karnataka	State Sector	Raichur Power Corp. Ltd	YERMARUS TPP	Steam	1	800.000		2016
	Karnataka	State Sector	Raichur Power Corp. Ltd	YERMARUS TPP	Steam	2	800.000		2017
175	Karnataka	Private Sector	Shri Rayalseema pvt Ltd	BELLARY DG	Diesel	1	25.200		2000
176	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-I)	Steam	1	130.000		1999
	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-I)	Steam	2	130.000		1999
177	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-II)	Steam	1	300.000		2009
	Karnataka	Private Sector	JSW Energy Ltd	TORANGALLU TPS(SBU-II)	Steam	2	300.000		2009
178	Karnataka	Private Sector	Udupi Power Corp. Ltd	UDUPI TPP	Steam	1	600.000		2010
	Karnataka	Private Sector	Udupi Power Corp. Ltd	UDUPI TPP	Steam	2	600.000		2011
<b>Total (Karnataka)</b>							<b>7105.200</b>		
179	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	1	21.320		1997
	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	4	21.320		1997
	Kerala	State Sector	KSEB	BRAMHAPURAM DG	Diesel	5	21.320		1997
180	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	2	16.000		1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	3	16.000		1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	5	16.000		1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	6	16.000		1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	7	16.000		1999
	Kerala	State Sector	KSEB	KOZHIKODE DG	Diesel	8	16.000		1999
181	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	1	45.000		1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	2	45.000		1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	4	45.000		1999
	Kerala	Private Sector	BSES Kerala Power Ltd	COCHIN CCPP (Liq.)	GT-Gas	3	39.000		2000
<b>Total (Kerala)</b>							<b>333.960</b>		

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
182	Puducherry	State Sector	PPCL	KARAIKAL CCPP	GT-Gas	1	32.500		1999
<b>Total (Puducherry)</b>							<b>32.500</b>		
183	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	1	210.000		1987
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	2	210.000		1987
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	3	210.000		1989
	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS	Steam	4	210.000		1990
184	Tamil Nadu	State Sector	TANGEDCO	METTUR TPS-II	Steam	1	600.000		2012
185	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	1	210.000		1994
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	2	210.000		1995
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	3	210.000		1996
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	4	600.000		2013
	Tamil Nadu	State Sector	TANGEDCO	NORTH CHENNAI TPS	Steam	5	600.000		2013
186	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	1	210.000		1979
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	2	210.000		1980
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	3	210.000		1982
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	4	210.000		1992
	Tamil Nadu	State Sector	TANGEDCO	TUTICORIN TPS	Steam	5	210.000		1991
187	Tamil Nadu	State Sector	TANGEDCO	KUTTALAM CCPP	GT-Gas	1	63.000		2003
	Tamil Nadu	State Sector	TANGEDCO	KUTTALAM CCPP	GT-Gas	2	37.000		2004
188	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	1	30.000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	2	30.000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	3	30.000		1996
	Tamil Nadu	State Sector	TANGEDCO	BASIN BRIDGE GT (Liq.)	GT-Gas	4	30.000		1996
189	Tamil Nadu	State Sector	TANGEDCO	KOVIKALPAL CCPP	GT-Gas	1	69.650		2001
	Tamil Nadu	State Sector	TANGEDCO	KOVIKALPAL CCPP	GT-Gas	2	38.230		2001
190	Tamil Nadu	State Sector	TANGEDCO	NARIMANAM GPS	GT-Gas	1	5.000		1992
	Tamil Nadu	State Sector	TANGEDCO	NARIMANAM GPS	GT-Gas	2	5.000		1992
191	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	1	60.000		2002
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	2	59.800		2008
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	3	34.000		2003
	Tamil Nadu	State Sector	TANGEDCO	VALUTHUR CCPP	GT-Gas	4	32.400		2009
192	Tamil Nadu	Private Sector	Madurai Power Corp. Pvt Ltd	SAMAYANALLUR DG	Diesel	1	106.001		2001
193	Tamil Nadu	Private Sector	Samalpatti Power Co. Pvt Ltd	SAMALPATTI DG	Diesel	1	105.700		2000
194	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	1	150.000		2013
	Tamil Nadu	Private Sector	Ind Barath Power infra Ltd	TUTICORIN (P) TPP	Steam	2	150.000		2013

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
195	Tamil Nadu	Private Sector	ST-QMS 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
197	Tamil Nadu	Private Sector	Coastal Energen Pvt Ltd	MUTHIARA TPP	Steam	2	600.000		2016
	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPCL TPP	Steam	1	600.000		2015
	Tamil Nadu	Private Sector	IL&FS Tamil Nadu Power Co. Ltd	ITPCL TPP	Steam	2	600.000		2016
198	Tamil Nadu	Private Sector	SEPC Power Pvt Ltd	TUTICORIN TPP ST-IV	Steam	1	525.000		2021
199	Tamil Nadu	Private Sector	PPN Power Gen. Co. Pvt Ltd	PNALLUR CCPP	GT-Gas	1	225.000		2001
200	Tamil Nadu	Private Sector	PPN Power Gen. Co. Pvt Ltd	PNALLUR CCPP	GT-Gas	2	105.500		2001
	Tamil Nadu	Private Sector	Aban Power Co. Ltd	KARUPPUR CCPP	GT-Gas	1	70.000		2005
201	Tamil Nadu	Private Sector	Aban Power Co. Ltd	KARUPPUR CCPP	ST-Gas	2	49.800		2005
	Tamil Nadu	Private Sector	Pioneer Power Ltd	VALANTARYY CCPP	GT-Gas	1	38.000		2005
	Tamil Nadu	Private Sector	Pioneer Power Ltd	VALANTARYY CCPP	GT-Gas	2	14.800		2006
<b>Total (Tamil Nadu)</b>									
202	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
203	Andhra Pradesh	Central Sector	NTPC	SIMHADRI TPS	Steam	4	500.000		2012
	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
204	Telangana	Central Sector	NTPC	RAMAGUNDEM STPS	Steam	7	500.000		2004
	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
205	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	GT-Gas	1	115.200		1998
	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	GT-Gas	2	115.200		1999
	Kerala	Central Sector	NTPC	R. GANDHI CCPP (Liq.)	ST-Gas	3	129.180		1999
206	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

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**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.
	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
207	Tamil Nadu	Central Sector	NLC	NEYVELI TPS-II EXP	Steam	1	250.000	2012
	Tamil Nadu	Central Sector	NLC	NEYVELI TPS-II EXP	Steam	2	250.000	2015
208	Tamil Nadu	Central Sector	NLC	NEYVELI (EXT) TPS	Steam	1	210.000	2002
	Tamil Nadu	Central Sector	NLC	NEYVELI (EXT) TPS	Steam	2	210.000	2003
209	Tamil Nadu	Central Sector	NLC	NEYVELI NEW TPP	Steam	1	500.000	2019
	Tamil Nadu	Central Sector	NLC	NEYVELI NEW TPP	Steam	2	500.000	2021
210	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	1	500.000	2012
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	2	500.000	2013
	Tamil Nadu	Central Sector	NTECL	VALLUR TPP	Steam	3	500.000	2014
211	Tamil Nadu	Central Sector	NTPL	TUTICORIN (JV) TPP	Steam	1	500.000	2015
	Tamil Nadu	Central Sector	NTPL	TUTICORIN (JV) TPP	Steam	2	500.000	2015
<b>Total Central Sector (Southern Region)</b>							<b>13249.580</b>	
<b>Southern Region Total</b>							<b>49522.965</b>	
<b>4. Eastern Region</b>								
212	A & N Islands	State Sector	A&D Island Electricity Deptt.	AND. NICOBAR DG	Diesel	1	40.048	2000
	Total (A & N Islands)						40.048	
213	Jharkhand	State Sector	Tenughat Vidyut Nigam Ltd	TENUGHAT TPS	Steam	1	210.000	1994
	Jharkhand	State Sector	Tenughat Vidyut Nigam Ltd	TENUGHAT TPS	Steam	2	210.000	1996
214	Jharkhand	Private Sector	Tata Power Co. Ltd	JOJOBERA TPS	Steam	2	120.000	2001
	Jharkhand	Private Sector	Tata Power Co. Ltd	JOJOBERA TPS	Steam	3	120.000	2002
215	Jharkhand	Private Sector	Adhunik Power & Natural Resource Ltd	MAHADEV PRASAD STPP	Steam	1	270.000	2012
	Jharkhand	Private Sector	Adhunik Power & Natural Resource Ltd	MAHADEV PRASAD STPP	Steam	2	270.000	2013
216	Jharkhand	Private Sector	Maithon Power Ltd	MAITHON RB TPP	Steam	1	525.000	2011
	Jharkhand	Private Sector	Maithon Power Ltd	MAITHON RB TPP	Steam	2	525.000	2012
<b>Total (Jharkhand)</b>							<b>2250.000</b>	
217	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	1	210.000	1994
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	2	210.000	1995
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	3	660.000	2019
	Odisha	State Sector	OPGCL	IB VALLEY TPS	Steam	4	660.000	2019
218	Odisha	Private Sector	VEDANTA	VEDANTA TPP	Steam	2	600.000	2010
219	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	1	350.000	2013
	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	2	350.000	2013

**APPENDIX-A**

**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							Unit No.	MW	
	Odisha	Private Sector	GMR Energy Ltd	KAMALANGA TPS	Steam	3	350.000		2014
220	Odisha	Private Sector	JITPL	DERANG TPP	Steam	1	600.000		2014
	Odisha	Private Sector	JITPL	DERANG TPP	Steam	2	600.000		2015
221	Odisha	Private Sector	IBPIL	UTKAL TPP (IND BARATH)	Steam	1	350.000		2016
<b>Total (Odisha)</b>									
222	West Bengal	State Sector	DPL	D.P.L. TPS	Steam	7	300.000		2007
	West Bengal	State Sector	DPL	D.P.L. TPS	Steam	8	250.000		2014
223	West Bengal	State Sector	WBPDCC	BAKRESWAR TPS	Steam	1	210.000		1999
	West Bengal	State Sector	WBPDCC	BAKRESWAR TPS	Steam	2	210.000		2000
	West Bengal	State Sector	WBPDCC	BAKRESWAR TPS	Steam	3	210.000		2001
	West Bengal	State Sector	WBPDCC	BAKRESWAR TPS	Steam	4	210.000		2007
	West Bengal	State Sector	WBPDCC	BAKRESWAR TPS	Steam	5	210.000		2009
224	West Bengal	State Sector	WBPDCC	BANDEL TPS	Steam	2	60.000		1965
	West Bengal	State Sector	WBPDCC	BANDEL TPS	Steam	5	210.000		1982
225	West Bengal	State Sector	WBPDCC	KOLAGHAT TPS	Steam	3	210.000		1984
	West Bengal	State Sector	WBPDCC	KOLAGHAT TPS	Steam	4	210.000		1993
	West Bengal	State Sector	WBPDCC	KOLAGHAT TPS	Steam	5	210.000		1991
	West Bengal	State Sector	WBPDCC	KOLAGHAT TPS	Steam	6	210.000		1993
226	West Bengal	State Sector	WBPDCC	SANTALDIH TPS	Steam	5	250.000		2007
	West Bengal	State Sector	WBPDCC	SANTALDIH TPS	Steam	6	250.000		2011
227	West Bengal	State Sector	WBPDCC	SAGARDIGHI TPS	Steam	1	300.000		2007
	West Bengal	State Sector	WBPDCC	SAGARDIGHI TPS	Steam	2	300.000		2008
	West Bengal	State Sector	WBPDCC	SAGARDIGHI TPS	Steam	3	500.000		2015
	West Bengal	State Sector	WBPDCC	SAGARDIGHI TPS	Steam	4	500.000		2016
228	West Bengal	State Sector	WBPDCC	HALDIA GT (Liq.)	GT-Gas	1	20.000		1979
	West Bengal	State Sector	WBPDCC	HALDIA GT (Liq.)	GT-Gas	2	20.000		1979
229	West Bengal	State Sector	WBPDCC	KASBA GT (Liq.)	GT-Gas	1	20.000		1979
	West Bengal	State Sector	WBPDCC	KASBA GT (Liq.)	GT-Gas	2	20.000		1979
230	West Bengal	State Sector	WBPDCC	SILIGURI GPS	GT-Gas	1	20.000		1980
231	West Bengal	Private Sector	CESC Ltd	BUDGE BUDGE TPS	Steam	1	250.000		1997
	West Bengal	Private Sector	CESC Ltd	BUDGE BUDGE TPS	Steam	2	250.000		1999
	West Bengal	Private Sector	CESC Ltd	BUDGE BUDGE TPS	Steam	3	250.000		2009
232	West Bengal	Private Sector	CESC Ltd	SOUTHERN REPL. TPS	Steam	1	67.500		1991
	West Bengal	Private Sector	CESC Ltd	SOUTHERN REPL. TPS	Steam	2	67.500		1990



**APPENDIX-A**

**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
233	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	1	60.000		1985
	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	2	60.000		1982
	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	3	60.000		1983
	West Bengal	Private Sector	CESC Ltd	TITAGARH TPS	Steam	4	60.000		1984
234	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	1	300.000		2015
	West Bengal	Private Sector	Haldia Energy Ltd	HALDIA TPP	Steam	2	300.000		2015
235	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	1	150.000		2017
	West Bengal	Private Sector	Hiranmaye Energy Ltd	HIRANMAYE TPP	Steam	2	150.000		2017
236	West Bengal	Private Sector	DPSCLTD	DISHERGARH TPP	Steam	1	12.000		2019
<b>Total (West Bengal)</b>							<b>6947.000</b>		
237	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	6	105.000		1983
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	7	105.000		1985
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	8	250.000		2018
	Bihar	Central Sector	NTPC	BARAUNI TPS	Steam	9	250.000		2018
238	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	1	210.000		1992
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	2	210.000		1994
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	3	210.000		1995
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	4	210.000		1996
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	5	500.000		2007
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	6	500.000		2008
	Bihar	Central Sector	NTPC	KAHALGAON TPS	Steam	7	500.000		2009
239	Bihar	Central Sector	NTPC	BARH I STPP	Steam	1	660.000		2021
240	Bihar	Central Sector	NTPC	BARH II STPP	Steam	4	660.000		2013
	Bihar	Central Sector	NTPC	BARH II STPP	Steam	5	660.000		2015
241	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	3	195.000		2015
	Bihar	Central Sector	KBUNL	MUZAFFARPUR TPS	Steam	4	195.000		2017
242	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
	Bihar	Central Sector	BRBCL	NABI NAGAR TPP	Steam	4	250.000		2021
243	Bihar	Central Sector	NPGL	NABINAGAR STPP	Steam	1	660.000		2019
	Bihar	Central Sector	NPGL	NABINAGAR STPP	Steam	2	660.000		2021
	Bihar	Central Sector	NPGL	NABINAGAR S TPP	Steam	3	660.000		2022
244	Jharkhand	Central Sector	DVC	KODARMA TPP	Steam	1	500.000		2011
	Jharkhand	Central Sector	DVC	KODARMA TPP	Steam	2	500.000		2013

## List Of Thermal Power Stations As On 31.03.2022

## APPENDIX-A

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							Unit No.	MW	
245	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	7	250.000		2009
	Jharkhand	Central Sector	DVC	CHANDRAPURA(DVC)	Steam	8	250.000		2010
246	Jharkhand	Central Sector	DVC	BOKARO `A` TPS	Steam	1	500.000		2016
247	Odisha	Central Sector	NTPC	TALCHER STPS	Steam	1	500.000		1995
		Central Sector	NTPC	TALCHER STPS	Steam	2	500.000		1996
		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
248	Odisha	Central Sector	NTPC	DARLIPALI STPS	Steam	1	800.000		2019
		Central Sector	NTPC	DARLIPALI STPS	Steam	2	800.000		2021
249	West Bengal	Central Sector	DVC	DURGAPUR TPS	Steam	4	210.000		1982
250	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	1	500.000		2011
251	West Bengal	Central Sector	DVC	DURGAPUR STEEL TPS	Steam	2	500.000		2012
		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
252	West Bengal	Central Sector	DVC	RAGHUNATHPUR TPP	Steam	1	600.000		2014
		Central Sector	DVC	RAGHUNATHPUR TPP	Steam	2	600.000		2016
253	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	1	200.000		1986
		Central Sector	NTPC	FARAKKA STPS	Steam	2	200.000		1986
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	3	200.000		1987
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	4	500.000		1992
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	5	500.000		1994
	West Bengal	Central Sector	NTPC	FARAKKA STPS	Steam	6	500.000		2011
<b>Total (DVC)</b>							<b>6750.000</b>		
<b>Total (NTPC &amp; NTPC's Joint Ventures)</b>							<b>15100.000</b>		

**APPENDIX-A**  
**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity MW	Year of Comm.
<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 CAPP	GT-Gas	2	21,000	1965
	Assam	State Sector	APGCL	NAMRUP CAPP	GT-Gas	3	21,000	1965
	Assam	State Sector	APGCL	NAMRUP CAPP	GT-Gas	6	22,000	1985
	Assam	State Sector	APGCL	NAMRUP CAPP	GT-Gas	7	62,250	2017
256	Assam	State Sector	APGCL	NAMRUP CAPP	GT-Gas	8	36,150	2020
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	1	9,965	2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	2	9,965	2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	3	9,965	2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	4	9,965	2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	5	9,965	2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	6	9,965	2018
	Assam	State Sector	APGCL	LAKWA REPLACEMENT POWER PROJECT	GT-Gas	7	9,965	2018
<b>Total (Assam)</b>						<b>329,355</b>		
257	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	1	6,000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	2	6,000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	3	6,000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	4	6,000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	5	6,000	2002
	Manipur	State Sector	Electricity Deptt., Govt. of Manipur	LEIMAKHONG DG	Diesel	6	6,000	2002
<b>Total (Manipur)</b>						<b>36,000</b>		
258	Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	4	21,000	2002
	Tripura	State Sector	TSECL	BARAMURA GT	GT-Gas	5	21,000	2010
259	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	3	8,000	1995
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	4	8,000	1995
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	5	8,000	1997
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	6	8,000	1997
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	7	21,000	2002
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	8	21,000	2006
	Tripura	State Sector	TSECL	ROKHIA GT	GT-Gas	9	21,000	2013
<b>Total (Tripura)</b>						<b>137,000</b>		

**APPENDIX-A**

**List Of Thermal Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Prime Mover	Unit No.	Installed Capacity		Year of Comm.
							MW		
260	Assam	Central Sector	NTPC	BONGAIGON TPP	Steam	1	250,000		2015
	Assam	Central Sector	NTPC	BONGAIGON TPP	Steam	2	250,000		2017
	Assam	Central Sector	NTPC	BONGAIGON TPP	Steam	3	250,000		2019
261	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	1	33,500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	2	33,500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	3	33,500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	4	33,500		1995
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	5	33,500		1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	6	33,500		1996
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	7	30,000		1998
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	8	30,000		1998
	Assam	Central Sector	NEEPCO	KATHALGURI CCPP	GT-Gas	9	30,000		1998
262	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	1	21,000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	2	21,000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	3	21,000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	4	21,000		1998
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	5	25,500		2015
	Tripura	Central Sector	NEEPCO	AGARTALA GT	GT-Gas	6	25,500		2016
263	Tripura	Central Sector	NEEPCO	MONARCHAK CCPP	GT-Gas	1	65,400		2015
	Tripura	Central Sector	NEEPCO	MONARCHAK CCPP	GT-Gas	3	35,600		2016
264	Tripura	Central Sector	ONGC	TRIPURA CCPP	GT-Gas	1	363,300		2013
	Tripura	Central Sector	ONGC	TRIPURA CCPP	GT-Gas	2	363,300		2014
<b>Total Central Sector (North Eastern Region)</b>							<b>2003,600</b>		
<b>North Eastern Region Total</b>							<b>2505,955</b>		
<b>Total All India Thermal</b>							<b>236108,718</b>		

## List Of Hydro Power Stations As On 31.03.2022

## APPENDIX-B

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

## List Of Hydro Power Stations As On 31.03.2022

## APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
12	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	1	100.00	2003
	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	2	100.00	2003
	Himachal Pradesh	Private Sector	HBPCL	BASPA HPS	3	100.00	2003
13	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	1	43.00	2001
	Himachal Pradesh	Private Sector	MPCL	MALANA HPS	2	43.00	2001
14	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	1	35.00	2012
	Himachal Pradesh	Private Sector	GBHPPL	BUDHIL HPS	2	35.00	2012
15	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	1	12.00	2017
	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	2	12.00	2017
	Himachal Pradesh	Private Sector	IAEPL	CHANJU-I HPS	3	12.00	2017
16	Himachal Pradesh	Private Sector	Himachal Sorang Power Co. Ltd.	SORANG HPS	1	50.00	2021
	Himachal Pradesh	Private Sector	Himachal Sorang Power Co. Ltd.	SORANG HPS	2	50.00	2021
17	Himachal Pradesh	Private Sector	GBHPPL	BAJOLI HOLI HPS	1	60.00	2022
	Himachal Pradesh	Private Sector	GBHPPL	BAJOLI HOLI HPS	2	60.00	2022
	Himachal Pradesh	Private Sector	GBHPPL	BAJOLI HOLI HPS	3	60.00	2022
<b>Total (Himachal Pradesh)</b>						<b>2997.00</b>	
18	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELMUM HPS	1	35.00	1978
	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELMUM HPS	2	35.00	1979
	Jammu & Kashmir	State Sector	JKSPDC	LOWER JHELMUM HPS	3	35.00	1979
19	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	1	35.00	2001
	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	2	35.00	2001
	Jammu & Kashmir	State Sector	JKSPDC	UPPER SINDH-II HPS	3	35.00	2002
20	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	1	150.00	2008
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	2	150.00	2008
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR HPS	3	150.00	2008
21	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	1	150.00	2015
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	2	150.00	2015
	Jammu & Kashmir	State Sector	JKSPDC	BAGLIHAR II HPS	3	150.00	2015
<b>Total (Jammu &amp; Kashmir)</b>						<b>1110.00</b>	
22	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	1	33.50	1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-I HPS	2	33.50	1985
23	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	3	33.50	1985
	Punjab	State Sector	PSPCL	ANANDPUR SAHIB-II HPS	4	33.50	1985

## APPENDIX-B

## List Of Hydro Power Stations As On 31.03.2022

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

**APPENDIX-B**

**List Of Hydro Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.	
	Uttar Pradesh	State Sector	UPJVNL	MATATILA HPS	3	10.20	1965	
35	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	
36	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>	
37	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	1	60.00	1975	
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	2	60.00	1975	
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	3	60.00	1975	
	Uttarakhand	State Sector	UJVNL	CHIBRO (YAMUNA) HPS	4	60.00	1976	
38	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	1	11.25	1965	
	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	2	11.25	1966	
	Uttarakhand	State Sector	UJVNL	DHAKRANI HPS	3	11.25	1970	
39	Uttarakhand	State Sector	UJVNL	DHALIPIUR HPS	1	17.00	1965	
	Uttarakhand	State Sector	UJVNL	DHALIPIUR HPS	2	17.00	1966	
	Uttarakhand	State Sector	UJVNL	DHALIPIUR HPS	3	17.00	1966	
40	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	
41	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	
42	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	
43	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	



**List Of Hydro Power Stations As On 31.03.2022**

**APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
44	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	1	76.00	2008
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	2	76.00	2008
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	3	76.00	2008
	Uttarakhand	State Sector	UJVNL	MANERI BHALI - II HPS	4	76.00	2008
45	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	1	66.00	1975
	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	2	66.00	1976
	Uttarakhand	State Sector	UJVNL	RAMGANGA HPS	3	66.00	1977
46	Uttarakhand	State Sector	UJVNL	CHILLA HPS	1	36.00	1980
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	2	36.00	1980
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	3	36.00	1980
	Uttarakhand	State Sector	UJVNL	CHILLA HPS	4	36.00	1981
47	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	1	100.00	2006
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	2	100.00	2006
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	3	100.00	2006
	Uttarakhand	Private Sector	JPPVL	VISHNU PRAYAG HPS	4	100.00	2006
48	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
49	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>
50	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	1	108.00	1960
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	2	126.00	1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	3	126.00	1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	4	126.00	1961
	Himachal Pradesh	State Sector	BBMB	BHAKRA LEFT HPS	5	126.00	1961
51	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
52	Himachal Pradesh	State Sector	BBMB	DEHAR HPS	1	165.00	1977

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## APPENDIX-B

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
	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
53	Himachal Pradesh	State Sector	BBMB	PONG HPS	1	66.00	1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	2	66.00	1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	3	66.00	1978
	Himachal Pradesh	State Sector	BBMB	PONG HPS	4	66.00	1979
	Himachal Pradesh	State Sector	BBMB	PONG HPS	5	66.00	1982
	Himachal Pradesh	State Sector	BBMB	PONG HPS	6	66.00	1983
54	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
55	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
56	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
57	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
58	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	SJVNL	NATHPA, JHAKRI HPS	6	250.00	2004
59	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	1	130.00	2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	2	130.00	2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	3	130.00	2014
	Himachal Pradesh	Central Sector	NHPC	PARBATI-III HPS	4	130.00	2014
60	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	1	68.67	2014
	Himachal Pradesh	Central Sector	SJVNL	RAMPUR HPS	2	68.67	2014

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## List Of Hydro Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	3	200.00	2015
	Himachal Pradesh	Central Sector	NTPC	KOLDAM	4	200.00	2015
62	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
63	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
64	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
65	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
66	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
67	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
68	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	1	60.00	2013
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	2	60.00	2013
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	3	60.00	2013
	Jammu & Kashmir	Central Sector	NHPC	URI-II HPS	4	60.00	2014
69	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
70	Punjab	State Sector	BBMB	GANGUWAL HPS	1	24.20	1962
	Punjab	State Sector	BBMB	GANGUWAL HPS	2	24.20	1955
	Punjab	State Sector	BBMB	GANGUWAL HPS	3	29.25	1955

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**APPENDIX-B**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
71	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
72	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
73	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
74	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
75	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>11534.52</b>	
<b>Northern Region Total</b>						<b>19576.27</b>	
<b>2. Western Region</b>							
76	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>	
77	Gujarat	State Sector	SSNLL	S SAROVAR CHPH HPS	1	50.00	2004
	Gujarat	State Sector	SSNLL	S SAROVAR CHPH HPS	2	50.00	2004
	Gujarat	State Sector	SSNLL	S SAROVAR CHPH HPS	3	50.00	2004
	Gujarat	State Sector	SSNLL	S SAROVAR CHPH HPS	4	50.00	2004
	Gujarat	State Sector	SSNLL	S SAROVAR CHPH HPS	5	50.00	2004
78	Gujarat	State Sector	SSNLL	S SAROVAR RBPH HPS	1	200.00	2005
	Gujarat	State Sector	SSNLL	S SAROVAR RBPH HPS	2	200.00	2005
	Gujarat	State Sector	SSNLL	S SAROVAR RBPH HPS	3	200.00	2005
	Gujarat	State Sector	SSNLL	S SAROVAR RBPH HPS	4	200.00	2005
	Gujarat	State Sector	SSNLL	S SAROVAR RBPH HPS	5	200.00	2006

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## List Of Hydro Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.	
	Gujarat	State Sector	SSNNL	S SAROVAR RBPH HPS	6	200.00	2006	
79	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	
80	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>	
81	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	
82	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	
83	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	1	15.00	2002	
	Madhya Pradesh	State Sector	MPPGCL	BANSAGAR-II HPS	2	15.00	2002	
84	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	
85	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	1	45.00	1988	
	Madhya Pradesh	State Sector	MPPGCL	BARGI HPS	2	45.00	1988	
86	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	
87	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>	
88	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	1	80.00	1986	
	Madhya Pradesh	State Sector	MPPGCL	PENCH HPS	2	80.00	1987	
89	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	1	40.00	1988	

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## List Of Hydro Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
	Maharashtra	State Sector	MAHAGENCO	BHIRA TAIL RACE HPS	2	40.00	1987
90	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	1	18.00	1980
	Maharashtra	State Sector	MAHAGENCO	KOYNA DPH HPS	2	18.00	1981
91	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	1	70.00	1962
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	2	70.00	1962
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	3	70.00	1963
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	4	70.00	1963
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	5	80.00	1967
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	6	80.00	1966
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	7	80.00	1967
	Maharashtra	State Sector	MAHAGENCO	KOYNA-I&II HPS	8	80.00	1966
92	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	1	80.00	1975
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	2	80.00	1976
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	3	80.00	1977
	Maharashtra	State Sector	MAHAGENCO	KOYNA-III HPS	4	80.00	1978
93	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
94	Maharashtra	State Sector	MAHAGENCO	TILLARI HPS	1	60.00	1986
95	Maharashtra	State Sector	MAHAGENCO	VAITARNA HPS	1	60.00	1976
96	Maharashtra	State Sector	MAHAGENCO	GHATGHAR PSS HPS	1	125.00	2008
	Maharashtra	State Sector	MAHAGENCO	GHATGHAR PSS HPS	2	125.00	2008
97	Maharashtra	State Sector	DLHP	BHANDARDHARA HPS ST-II	1	34.00	1996
98	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA PSS HPS	1	150.00	1995
99	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	1	25.00	1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	2	25.00	1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	3	25.00	1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	4	25.00	1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	5	25.00	1927
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIRA HPS	6	25.00	1949
100	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

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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	BHIVPURI HPS	5	1.50	1999
101	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	1	12.00	2002
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	2	12.00	2003
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	3	12.00	2001
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	4	12.00	2002
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	5	12.00	2002
	Maharashtra	Private Sector	Tata Hydro Power Co. Ltd	KHOPOLI HPS	6	12.00	2002
<b>Total (Maharashtra)</b>						<b>3047.00</b>	
102	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
103	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>							
104	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
105	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	1	110.00	1982
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	2	110.00	1982
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	3	110.00	1983
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	4	110.00	1984
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	5	110.00	1986

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## List Of Hydro Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.	
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	6	110.00	1986	
	Andhra Pradesh	State Sector	APGENCO	SRISAILAM HPS	7	110.00	1987	
106	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	
107	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>	
108	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	
109	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	
110	Telangana	State Sector	TSGENCO	NAGARJUN SGR LBC HPS	1	30.00	1983	
	Telangana	State Sector	TSGENCO	NAGARJUN SGR LBC HPS	2	30.00	1983	
111	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	
112	Telangana	State Sector	TSGENCO	PRIYADARSHNI JURALA HPS	1	39.00	2008	
	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	
113	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	1	150.00	2001	
	Telangana	State Sector	TSGENCO	SRISAILAM LB HPS	2	150.00	2001	



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**List Of Hydro Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.	
	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	
114	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	
115	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>	
116	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	
117	Karnataka	State Sector	KPCL	MUNIRABAD HPS	1	9.00	1962	
	Karnataka	State Sector	KPCL	MUNIRABAD HPS	2	9.00	1962	
	Karnataka	State Sector	KPCL	MUNIRABAD HPS	3	10.00	1965	
118	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	1	3.00	1922	
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	2	3.00	1924	
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	3	3.00	1924	
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	4	3.00	1925	
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	5	3.00	1923	
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	6	3.00	1924	
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	7	6.00	1928	
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	8	6.00	1934	
	Karnataka	State Sector	KPCL	SIVASAMUNDNUM HPS	9	6.00	1928	

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## List Of Hydro Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
	Karnataka	State Sector	KPCL	SIVSAMUNDRUM HPS	10	6.00	1928
119	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
120	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	1	16.00	1992
	Karnataka	State Sector	KPCL	GHAT PRABHA HPS	2	16.00	1992
121	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
122	Karnataka	State Sector	KPCL	KALINADI HPS	1	150.00	1979
	Karnataka	State Sector	KPCL	KALINADI HPS	2	150.00	1980
	Karnataka	State Sector	KPCL	KALINADI HPS	3	150.00	1981
	Karnataka	State Sector	KPCL	KALINADI HPS	4	150.00	1982
	Karnataka	State Sector	KPCL	KALINADI HPS	5	150.00	1983
	Karnataka	State Sector	KPCL	KALINADI HPS	6	150.00	1984
123	Karnataka	State Sector	KPCL	KODASALI HPS	1	40.00	1998
	Karnataka	State Sector	KPCL	KODASALI HPS	2	40.00	1999
	Karnataka	State Sector	KPCL	KODASALI HPS	3	40.00	1999
124	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	1	27.50	1979
	Karnataka	State Sector	KPCL	LIGANAMAKKI HPS	2	27.50	1980
125	Karnataka	State Sector	KPCL	SHARAVATHI HPS	1	103.50	1965
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	2	103.50	1965
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	3	103.50	1967
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	4	103.50	1967
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	5	103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	6	103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	7	103.50	1968
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	8	103.50	1971
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	9	103.50	1976
	Karnataka	State Sector	KPCL	SHARAVATHI HPS	10	103.50	1977
126	Karnataka	State Sector	KPCL	GERUSUPPA HPS	1	60.00	2001
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	2	60.00	2001

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**List Of Hydro Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.	
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	3	60.00	2001	
	Karnataka	State Sector	KPCL	GERUSUPPA HPS	4	60.00	2002	
127	Karnataka	State Sector	KPCL	BHADRA HPS	1	2.00	1962	
	Karnataka	State Sector	KPCL	BHADRA HPS	2	12.00	1963	
	Karnataka	State Sector	KPCL	BHADRA HPS	3	12.00	1963	
128	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	1	50.00	1985	
	Karnataka	State Sector	KPCL	KALINADI SUPA HPS	2	50.00	1985	
129	Karnataka	State Sector	KPCL	VARAHI HPS	1	115.00	1989	
	Karnataka	State Sector	KPCL	VARAHI HPS	2	115.00	1990	
	Karnataka	State Sector	KPCL	VARAHI HPS	3	115.00	2009	
	Karnataka	State Sector	KPCL	VARAHI HPS	4	115.00	2009	
130	Karnataka	State Sector	APGENCO	T B DAM HPS	1	9.00	1957	
	Karnataka	State Sector	APGENCO	T B DAM HPS	2	9.00	1957	
	Karnataka	State Sector	APGENCO	T B DAM HPS	3	9.00	1964	
	Karnataka	State Sector	APGENCO	T B DAM HPS	4	9.00	1964	
131	Karnataka	State Sector	APGENCO	HAMPI HPS	1	9.00	1958	
	Karnataka	State Sector	APGENCO	HAMPI HPS	2	9.00	1958	
	Karnataka	State Sector	APGENCO	HAMPI HPS	3	9.00	1964	
	Karnataka	State Sector	APGENCO	HAMPI HPS	4	9.00	1964	
<b>Total (Karnataka)</b>							<b>3689.20</b>	
132	Kerala	State Sector	KSEB	IDAMALAYAR HPS	1	37.50	1987	
	Kerala	State Sector	KSEB	IDAMALAYAR HPS	2	37.50	1987	
133	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	
134	Kerala	State Sector	KSEB	KAKKAD HPS	1	25.00	1999	
	Kerala	State Sector	KSEB	KAKKAD HPS	2	25.00	1999	
135	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	
136	Kerala	State Sector	KSEB	KUTTIYADI EXTN. HPS.	4	50.00	2001	
137	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	1	50.00	2010	

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## List Of Hydro Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
	Kerala	State Sector	KSEB	KUTTIYADI ADDL. EXTN. HPS	2	50.00	2010
138	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
139	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	1	15.00	1961
	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	2	15.00	1961
	Kerala	State Sector	KSEB	NARIAMANGLAM HPS	3	15.00	1963
140	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
141	Kerala	State Sector	KSEB	PANNIAR HPS	1	15.00	1963
	Kerala	State Sector	KSEB	PANNIAR HPS	2	15.00	1964
142	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	1	8.00	1957
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	2	8.00	1958
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	3	8.00	1959
	Kerala	State Sector	KSEB	PORINGALKUTTU HPS	4	8.00	1960
143	Kerala	State Sector	KSEB	SABARIGIRI HPS	1	50.00	1966
	Kerala	State Sector	KSEB	SABARIGIRI HPS	2	50.00	1966
	Kerala	State Sector	KSEB	SABARIGIRI HPS	3	50.00	1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	4	50.00	1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	5	50.00	1967
	Kerala	State Sector	KSEB	SABARIGIRI HPS	6	50.00	1967
144	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
145	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>	
146	Tamil Nadu	State Sector	TENGEDCO	ALIYAR HPS	1	60.00	1970
147	Tamil Nadu	State Sector	TENGEDCO	BHAWANI KATTAL HPS	1	15.00	2006

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Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
	Tamil Nadu	State Sector	TENGEDCO	BHAWANI KATTAL HPS	2	15.00	2006
148	Tamil Nadu	State Sector	TENGEDCO	BHAWANI BARRAGE II HPS	1	15.00	2013
	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE II HPS	2	15.00	2013
149	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE III HPS	1	15.00	2012
	Tamil Nadu	State Sector	TANGEDCO	BHAWANI BARRAGE III HPS	2	15.00	2013
150	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	1	100.00	1987
	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	2	100.00	1988
	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	3	100.00	1988
	Tamil Nadu	State Sector	TENGEDCO	KADAMPARI HPS	4	100.00	1988
151	Tamil Nadu	State Sector	TENGEDCO	KODAYAR-I HPS.	1	60.00	1970
152	Tamil Nadu	State Sector	TENGEDCO	KODAYAR-II HPS.	2	40.00	1971
153	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-I HPS.	1	20.00	1960
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-I HPS.	2	20.00	1960
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-I HPS.	3	20.00	1964
154	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	4	35.00	1960
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	5	35.00	1961
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	6	35.00	1961
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	7	35.00	1961
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-II HPS.	8	35.00	1964
155	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-III HPS.	9	60.00	1965
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-III HPS.	10	60.00	1964
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-III HPS.	11	60.00	1978
156	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-IV HPS.	12	50.00	1966
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-IV HPS.	13	50.00	1978
157	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-V HPS.	14	20.00	1964
	Tamil Nadu	State Sector	TENGEDCO	KUNDAH-V HPS.	15	20.00	1988
158	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-I HPS.	1	15.00	1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-I HPS.	2	15.00	1988
159	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-II HPS.	3	15.00	1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-II HPS.	4	15.00	1988
160	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	5	15.00	1988
	Tamil Nadu	State Sector	TENGEDCO	LOWER METTUR-III HPS.	6	15.00	1987
161	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
162	Tamil Nadu	State Sector	TENGEDCO	METTUR DAM HPS	1	12.50	1937

**APPENDIX-B**

**List Of Hydro Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
	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
163	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
164	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
165	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	1	8.00	1944
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	2	8.00	1944
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	3	8.00	1945
	Tamil Nadu	State Sector	TENGEDCO	PAPANASAM HPS	4	8.00	1951
166	Tamil Nadu	State Sector	TENGEDCO	PARSON'S VALLEY HPS	1	30.00	2000
167	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
168	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	1	7.00	1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	2	7.00	1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	3	7.00	1932
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	4	13.60	1954
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	5	13.60	1954
	Tamil Nadu	State Sector	TENGEDCO	PYKARA HPS	6	11.00	1939
169	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	1	50.00	2005
	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	2	50.00	2005
	Tamil Nadu	State Sector	TENGEDCO	PYKARA ULTIMATE HPS	3	50.00	2005
170	Tamil Nadu	State Sector	TENGEDCO	SARKARPATHY HPS	1	30.00	1966
171	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	1	35.00	1971
	Tamil Nadu	State Sector	TENGEDCO	SHOLAYAR HPS (TN)	2	35.00	1971
172	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>11739.50</b>	

**APPENDIX-B**

**List Of Hydro Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
<b>4. Eastern Region</b>							
173	Jharkhand	State Sector	JUJUNL	SUBERNREKHA-I HPS.	1	65.00	1977
174	Jharkhand	State Sector	JUJUNL	SUBERNREKHA-II HPS.	2	65.00	1980
<b>Total (Jharkhand)</b>						<b>130.00</b>	
175	Odisha	State Sector	OHPC	BALIMELA HPS	1	60.00	1973
	Odisha	State Sector	OHPC	BALIMELA HPS	2	60.00	1974
	Odisha	State Sector	OHPC	BALIMELA HPS	3	60.00	1974
	Odisha	State Sector	OHPC	BALIMELA HPS	4	60.00	1975
	Odisha	State Sector	OHPC	BALIMELA HPS	5	60.00	1976
	Odisha	State Sector	OHPC	BALIMELA HPS	6	60.00	1970
	Odisha	State Sector	OHPC	BALIMELA HPS	7	75.00	2008
	Odisha	State Sector	OHPC	BALIMELA HPS	8	75.00	2008
176	Odisha	State Sector	OHPC	HIRAKUD HPS	1	49.50	1956
	Odisha	State Sector	OHPC	HIRAKUD HPS	2	49.50	1957
	Odisha	State Sector	OHPC	HIRAKUD HPS	3	32.00	1956
	Odisha	State Sector	OHPC	HIRAKUD HPS	4	32.00	1957
	Odisha	State Sector	OHPC	HIRAKUD HPS	5	43.65	1962
	Odisha	State Sector	OHPC	HIRAKUD HPS	6	43.65	1963
	Odisha	State Sector	OHPC	HIRAKUD HPS	7	37.50	1990
177	Odisha	State Sector	OHPC	CHIPLIMA HPS	1	24.00	1962
	Odisha	State Sector	OHPC	CHIPLIMA HPS	2	24.00	1962
	Odisha	State Sector	OHPC	CHIPLIMA HPS	3	24.00	1964
178	Odisha	State Sector	OHPC	RENGALI HPS	1	50.00	1985
	Odisha	State Sector	OHPC	RENGALI HPS	2	50.00	1986
	Odisha	State Sector	OHPC	RENGALI HPS	3	50.00	1989
	Odisha	State Sector	OHPC	RENGALI HPS	4	50.00	1990
	Odisha	State Sector	OHPC	RENGALI HPS	5	50.00	1992
179	Odisha	State Sector	OHPC	UPPER INDRAVATI HPS	1	150.00	1999
	Odisha	State Sector	OHPC	UPPER INDRAVATI HPS	2	150.00	1999
	Odisha	State Sector	OHPC	UPPER INDRAVATI HPS	3	150.00	2000
	Odisha	State Sector	OHPC	UPPER INDRAVATI HPS	4	150.00	2001
180	Odisha	State Sector	OHPC	UPPER KOLAB HPS	1	80.00	1988
	Odisha	State Sector	OHPC	UPPER KOLAB HPS	2	80.00	1989
	Odisha	State Sector	OHPC	UPPER KOLAB HPS	3	80.00	1990
	Odisha	State Sector	OHPC	UPPER KOLAB HPS	4	80.00	1993

## APPENDIX-B

## List Of Hydro Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.	
181	Odisha	State Sector	APGENCO	MACHKUND HPS	1	21.25	1959	
	Odisha	State Sector	APGENCO	MACHKUND HPS	2	21.25	1959	
	Odisha	State Sector	APGENCO	MACHKUND HPS	3	21.25	1959	
	Odisha	State Sector	APGENCO	MACHKUND HPS	4	17.00	1959	
	Odisha	State Sector	APGENCO	MACHKUND HPS	5	17.00	1959	
	Odisha	State Sector	APGENCO	MACHKUND HPS	6	17.00	1959	
<b>Total (Odisha)</b>							<b>2154.55</b>	
182	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	1	9.00	1967	
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	2	9.00	1967	
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	3	9.00	1972	
	West Bengal	State Sector	WBPDCL	JALDHAKA HPS ST-I	4	9.00	2012	
183	West Bengal	State Sector	WBPDCL	RAMMAM HPS	1	12.50	1995	
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	2	12.50	1995	
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	3	12.50	1996	
	West Bengal	State Sector	WBPDCL	RAMMAM HPS	4	12.50	1996	
184	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	1	225.00	2007	
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	2	225.00	2007	
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	3	225.00	2007	
	West Bengal	State Sector	WBPDCL	PURULIA PSS HPS	4	225.00	2007	
<b>Total (West Bengal)</b>							<b>986.00</b>	
185	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	1	200.00	2017	
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	2	200.00	2017	
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	3	200.00	2017	
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	4	200.00	2017	
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	5	200.00	2017	
	Sikkim	State Sector	TEESTA Urja Ltd	TEESTA-III HPS	6	200.00	2017	
186	Sikkim	Private Sector	GATI INFRASTRUCTURE LTD.	CHUZACHEN HPS	1	55.00	2013	
	Sikkim	Private Sector	GATI INFRASTRUCTURE LTD.	CHUZACHEN HPS	2	55.00	2013	
187	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETHANG LOOP HPS	1	48.00	2015	
	Sikkim	Private Sector	DANS Energy Pvt Ltd	JORETHANG LOOP HPS	2	48.00	2015	
188	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	1	48.50	2017	
	Sikkim	Private Sector	SHIGA ENERGY PVT. LTD.	TASHIDING HPS	2	48.50	2017	
189	Sikkim	Private Sector	Sneha Kinetics Projects Ltd	DIKCHU HPS	1	48.00	2017	
	Sikkim	Private Sector	Sneha Kinetics Projects Ltd	DIKCHU HPS	2	48.00	2017	
190	Sikkim	Private Sector	Madhya Bharat Power Co. Ltd	RONGNICHU HPS	1	56.50	2021	



## APPENDIX-B

## List Of Hydro Power Stations As On 31.03.2022

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.	
	Sikkim	Private Sector	Madhya Bharat Power Co. Ltd	RONGNICHU HPS	2	56.50	2021	
<b>Total (Sikkim)</b>							<b>1712.00</b>	
191	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	
192	Jharkhand	Central Sector	DVC	PANCHET HPS	1	40.00	1959	
	Jharkhand	Central Sector	DVC	PANCHET HPS	2	40.00	1990	
193	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	
194	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	
195	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	
196	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>5987.75</b>	
<b>5. North Eastern Region</b>								
197	Assam	State Sector	APGL	KARBI LANGPI HPS	1	50.00	2007	
	Assam	State Sector	APGL	KARBI LANGPI HPS	2	50.00	2007	
<b>Total (Assam)</b>							<b>100.00</b>	
198	Meghalaya	State Sector	MeECL	KYRDEM KULAI HPS	1	30.00	1979	
	Meghalaya	State Sector	MeECL	KYRDEM KULAI HPS	2	30.00	1979	
199	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	1	9.00	1965	
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	2	9.00	1965	
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	3	9.00	1965	
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-I	4	9.00	1965	

**APPENDIX-B**

**List Of Hydro Power Stations As On 31.03.2022**

Sl. No.	Region/State/UT	Sector	Owner	Name of Project	Unit No.	Installed Capacity	Year of Comm.
200	Meghalaya	State Sector	MeECL	UMIAM HPS ST-IV	1	30.00	1992
	Meghalaya	State Sector	MeECL	UMIAM HPS ST-IV	2	30.00	1992
201	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	1	42.00	2011
	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	2	42.00	2012
	Meghalaya	State Sector	MeECL	MYNTDU(LESHKA) St-1 HPS	3	42.00	2013
202	Meghalaya	State Sector	MeECL	NEW UMTRU HPS	1	20.00	2017
	Meghalaya	State Sector	MeECL	NEW UMTRU HPS	2	20.00	2017
<b>Total (Meghalaya)</b>						<b>322.00</b>	
203	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	1	135.00	2002
	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	2	135.00	2002
	Arunachal Pradesh	Central Sector	NEEPCO	RANGANADI HPS	3	135.00	2002
204	Arunachal Pradesh	Central Sector	NEEPCO	PARE HPS	1	55.00	2018
	Arunachal Pradesh	Central Sector	NEEPCO	PARE HPS	2	55.00	2018
205	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	1	150.00	2020
	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	2	150.00	2020
	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	3	150.00	2021
	Arunachal Pradesh	Central Sector	NEEPCO	KAMENG HPS	4	150.00	2021
206	Assam	Central Sector	NEEPCO	KOPILI HPS	1	50.00	1988
	Assam	Central Sector	NEEPCO	KOPILI HPS	2	50.00	1988
	Assam	Central Sector	NEEPCO	KOPILI HPS	3	50.00	1997
	Assam	Central Sector	NEEPCO	KOPILI HPS	4	50.00	1997
207	Assam	Central Sector	NEEPCO	KHONDONG HPS	1	25.00	1984
	Assam	Central Sector	NEEPCO	KHONDONG HPS	2	25.00	1984
208	Manipur	Central Sector	NHPC	LOKTAK HPS	1	35.00	1983
	Manipur	Central Sector	NHPC	LOKTAK HPS	2	35.00	1983
	Manipur	Central Sector	NHPC	LOKTAK HPS	3	35.00	1983
209	Mizoram	Central Sector	NEEPCO	TUIRIAL HPS	1	30.00	2017
	Mizoram	Central Sector	NEEPCO	TUIRIAL HPS	2	30.00	2017
210	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>46722.52</b>	

**APPENDIX-C**  
**List Of Nuclear Power Stations As On 31.03.2022**

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



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