



भारत के विद्युत क्षेत्र का 1947 से 2023 तक का संवर्धन  
**GROWTH OF ELECTRICITY SECTOR IN INDIA FROM 1947-2023**

भारत सरकार  
**GOVERNMENT OF INDIA**  
विद्युत मंत्रालय  
**MINISTRY OF POWER**  
केन्द्रीय विद्युत प्राधिकरण  
**CENTRAL ELECTRICITY AUTHORITY**  
नई दिल्ली  
**NEW DELHI**  
अगस्त, 2023  
**August, 2023**

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



केन्द्रीय विद्युत प्राधिकरण

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### FOREWORD

The booklet “Growth of Electricity Sector in India” published annually by Central Electricity Authority provides panoramic view of growth of the Indian Power<sup>3</sup> Sector over the years. The relevant information and statistics have been presented in the forms of graphs, pie-charts, maps and tables. The Indian Electricity Sector has come a long way ever since 5 year plan wise development was initiated. This publication provides details of the growth of vital development indicators like Installed Electricity Generating Capacity, Electrical Energy Generation, Transmission and Distribution Network, Captive Power Plants and pattern of Electricity Consumption etc.

The data for this publication has been sourced from various power sector entities in the country. The important statistics like per capita electricity consumption, percentage share of different categories of consumption, transmission and distribution losses etc., have been compared with the data of some of the developed and developing nations. I hope that this booklet will be very helpful in providing concise & useful information on Indian Electricity Sector.

(Ghanshyam Prasad)



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सदस्य

तथा पदेन अपर सचिव भारत सरकार  
केन्द्रीय विद्युत प्राधिकरण  
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## PREFACE

Power Sector in India has grown significantly since Independence, both in the Installed Capacity and Transmission & Distribution (T&D) system. The total Power Generating Capacity of (utilities & non utilities) has increased from a meagre 1362 MW in 1947 to about 495.2 GW at the end of March, 2023. The Per Capita Electricity Consumption which was a mere 16.3 units in 1947, has increased to 1327 units in 2022-23. In the last few years, the shortages have reduced substantially and, in fact, at present we have surplus generating capacity.

This booklet brought out by CEA is a regular feature, which contains vital information in the form of graphs, pie charts, maps and tables. The information covers 5 yearly (earlier called Plan period) pattern of growth accomplished for various important indicators like Installed Capacity, Hydroelectric Potential, state wise forecast of Electricity Demand of the country, Electrical Energy Generation, Transmission & Distribution network, Power Supply Position, Captive Power Plants, pattern of Electricity Consumption of the country as well as Per Capita Consumption. The booklet also contains maps showing state-wise Installed Electricity Generating Capacity, thus giving a panoramic view of our country.

The Statistics from other countries vis-à-vis India i.e. Generation from various sources, category wise Electricity Consumption, Per Capita Consumption and Transmission & Distribution losses are also shown in this booklet.

I am hopeful that this handy booklet would prove to be useful to all stakeholders

August, 2023

  
(A. Balan)

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**Table 1**  
**Plan-wise Growth of Electricity Sector in India**  
**Utilities**

Sl. No.	As on / during financial year ending with	Installed Capacity (MW)	No.of villages electrified	Length of T & D Lines (Ckt. kms.)(#)	Per Capita Consumption (\$) (kWh)
1	31.12.1947	1,362	N.A.	23,238	16
2	31.12.1950	1,713	3,061	29,271	18
3	31.03.1956( End of the 1st Plan)	2,886	7,294	85,427	31
4	31.03.1961( End of the 2nd Plan)	4,653	21,754	157,887	46
5	31.03.1966 ( End of the 3rd Plan)	9,027	45,148	541,704	74
6	31.03.1969( End of the 3 Annual Plans)	12,957	73,739	886,301	98
7	31.03.1974( End of the 4th Plan)	16,664	156,729	1,546,097	126
8	31.03.1979( End of the 5th Plan)	26,680	232,770	2,145,919	172
9	31.03.1980( End of the 2 Annual Plans)	28,448	249,799	2,351,609	172
10	31.03.1985( End of the 6th Plan)	42,585	370,332	3,211,956	229
11	31.03.1990( End of the 7th Plan)	63,636	470,838	4,407,501	329
12	31.03.1992( End of the 2 Annual Plans)	69,065	487,170	4,574,200	348
13	31.03.1997( End of the 8th Plan)	85,795	498,836	5,141,413	465
14	31.03.2002( End of the 9th Plan)	105,046	512,153	6,030,148	559
15	31.03.2007 (End of 10th Plan )	132,329	482,864	6,939,894	672
16	31.03.2012 (End of 11th Plan )	199,877	556,633	8,726,092	884
17	31.03.2017 (End of 12th Plan )	326,833	592,972	10,686,448	1,122
18	31.03.2018	344,002	597,121	11,958,511	1,149
19	31.03.2019	356,100	597,464	12,682,649	1,181
20	31.03.2020	370,106	597,464	13,279,315	1,208
21	31.03.2021	382,151	597,464	13,679,477	1,161
22	31.03.2022	399,497	597,464	13,979,990	1,255
23	31.03.2023	416,059	597,464	<a href="#">14536690@</a>	1,327

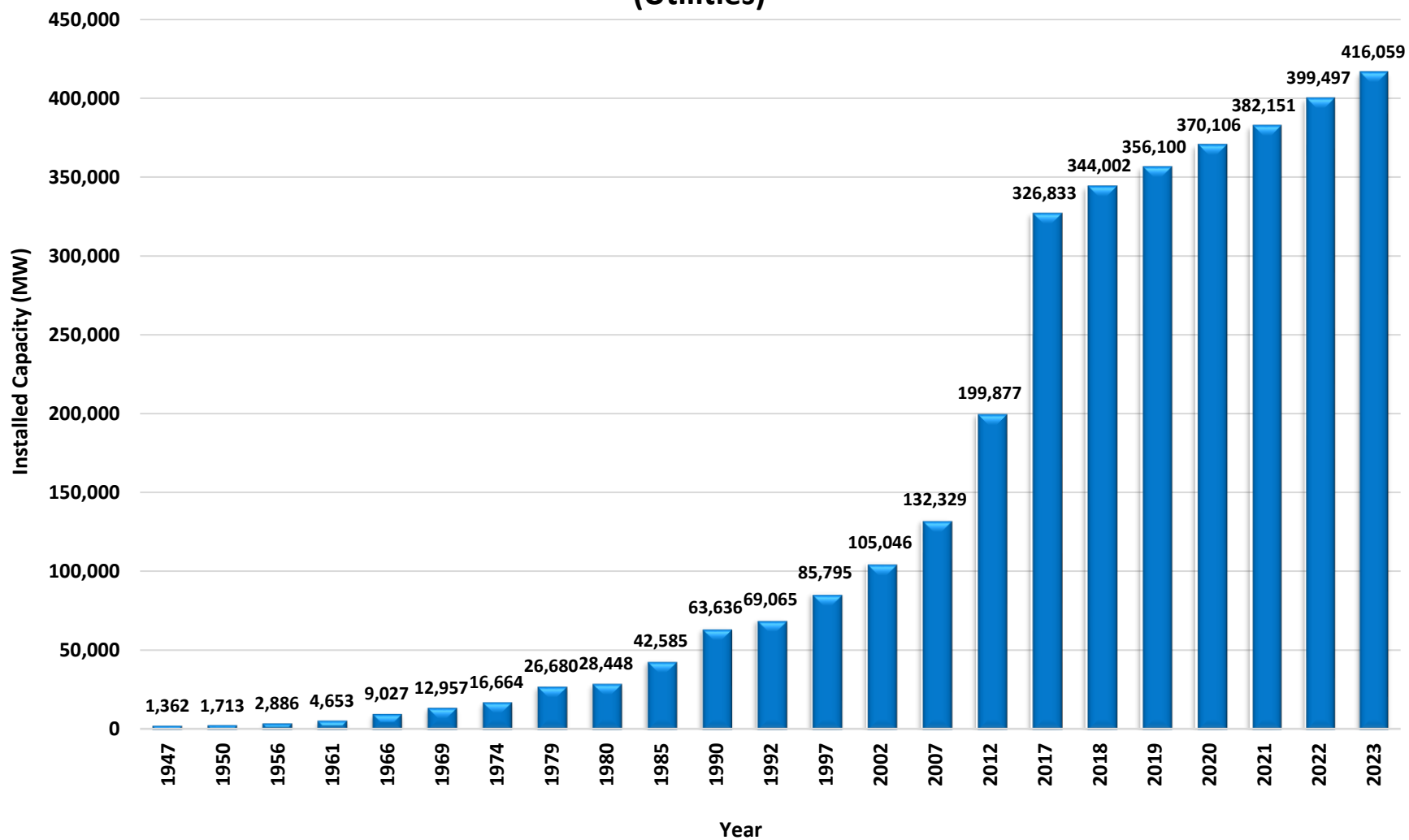
Note:

1. N.A. : Not Available.
2. (@) Estimated.
3. (\$) Per Capita Consumption=Gross Electrical Energy availability/ Mid year Population
4. (#) Includes 440 Volts Distribution Lines.
5. Rural electrification is based on revised definition of village electrification in the year 2004 and based on 2011 Census.



## Plan-wise Growth of Installed Capacity in the Country (Utilities)

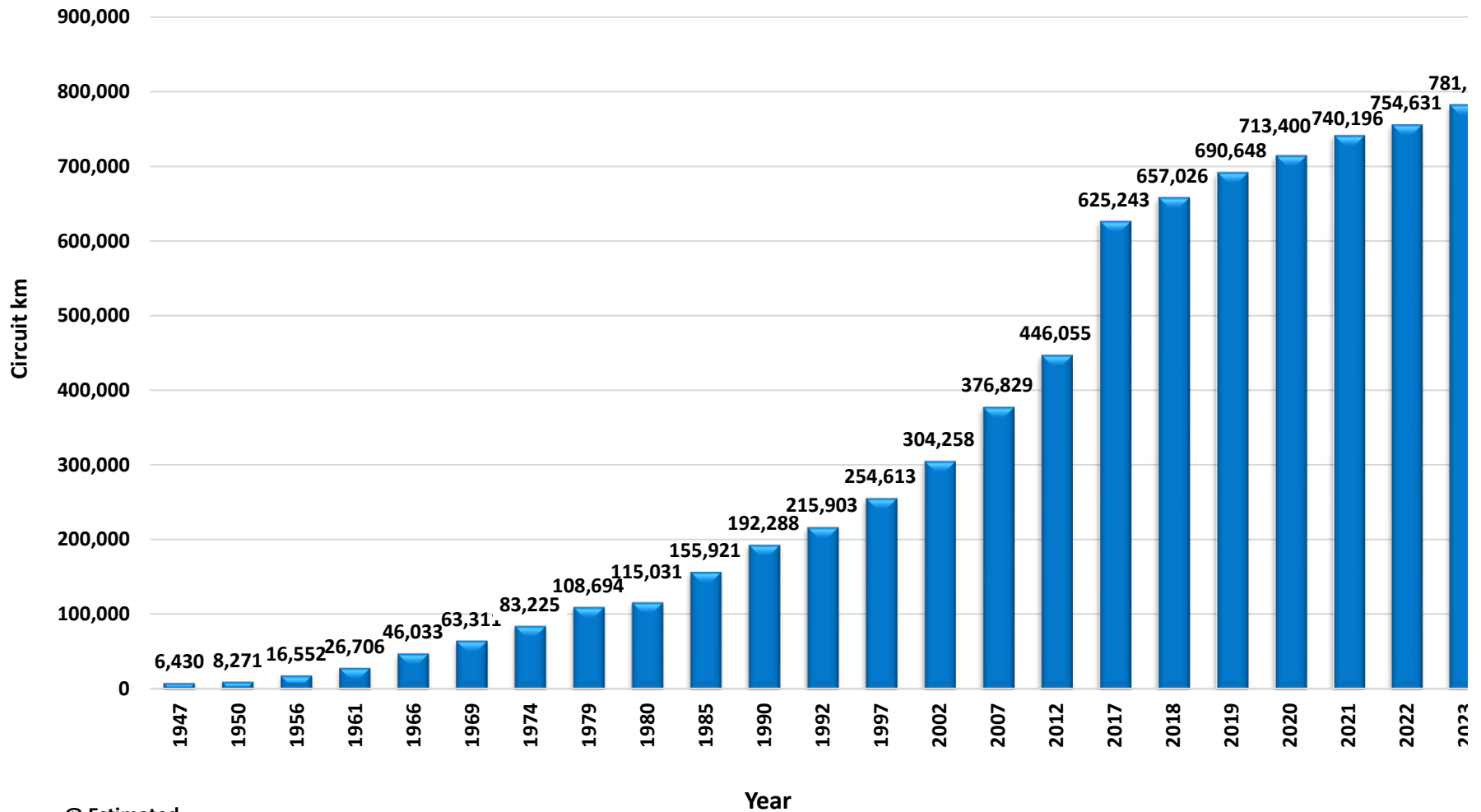
Chart : 1



Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
2. Figures for the year 1955-56 & onward are as on 31st March.

## Plan-wise Growth of Transmission Lines in the Country 66 kV and above

Chart : 2A

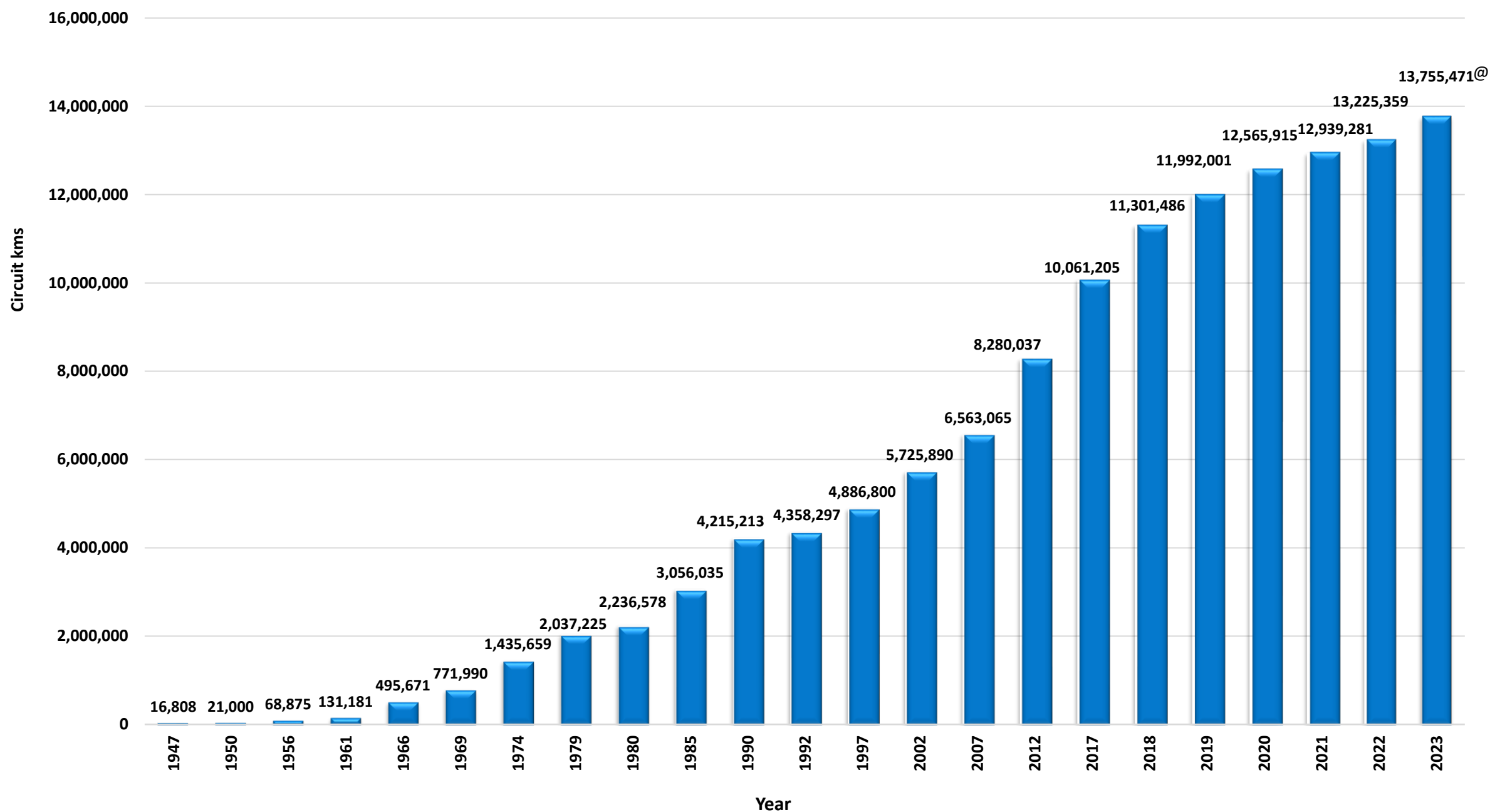


@ Estimated

Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
 2. Figures for the year 1955-56 & onward are as on 31st March.

Chart : 2B

### Plan-wise Growth of Transmission Lines in the Country below 66 kV

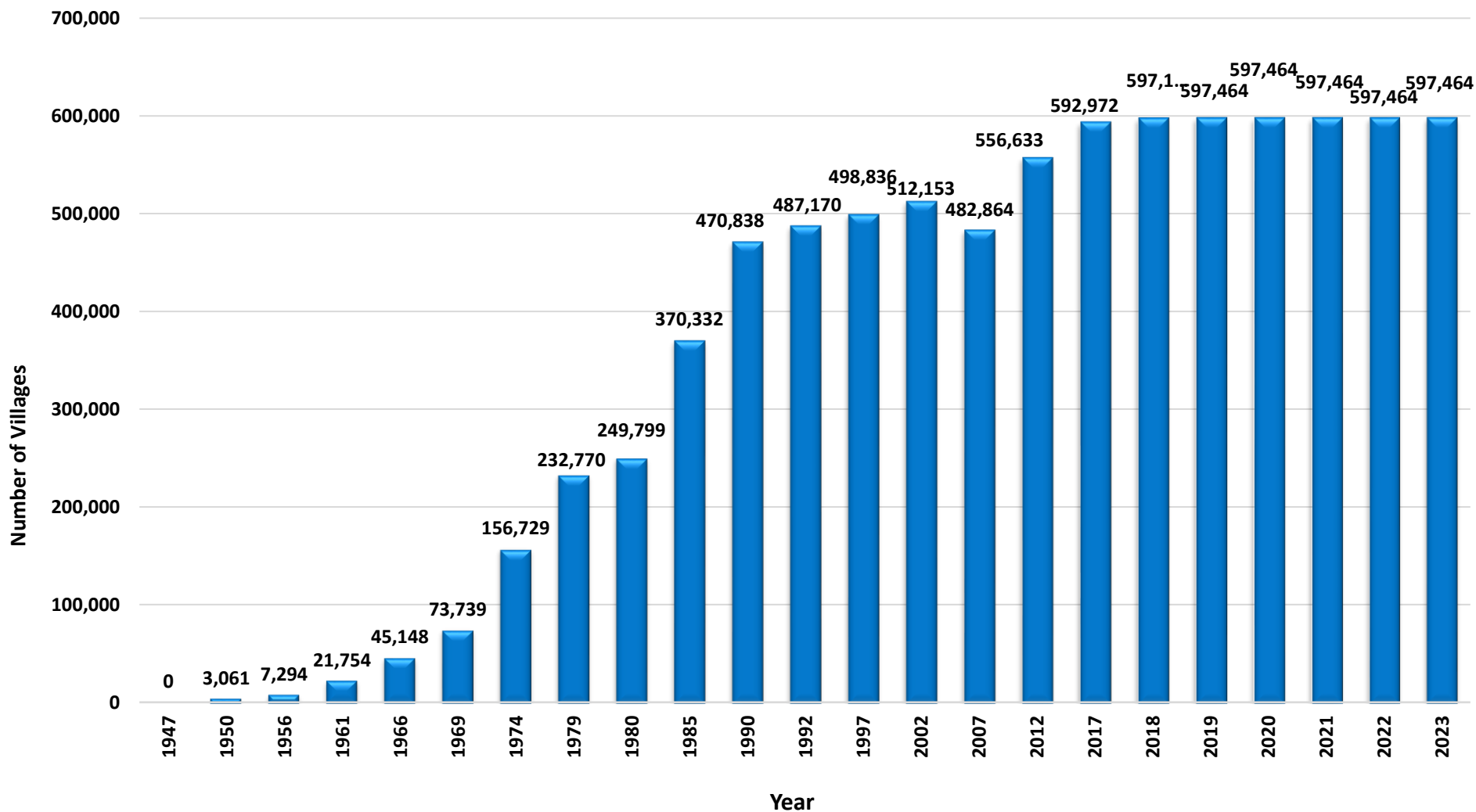


@ Estimated

Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
2. Figures for the year 1955-56 & onward are as on 31st March.

# Plan-wise Growth of Number of Villages Electrified in the Country

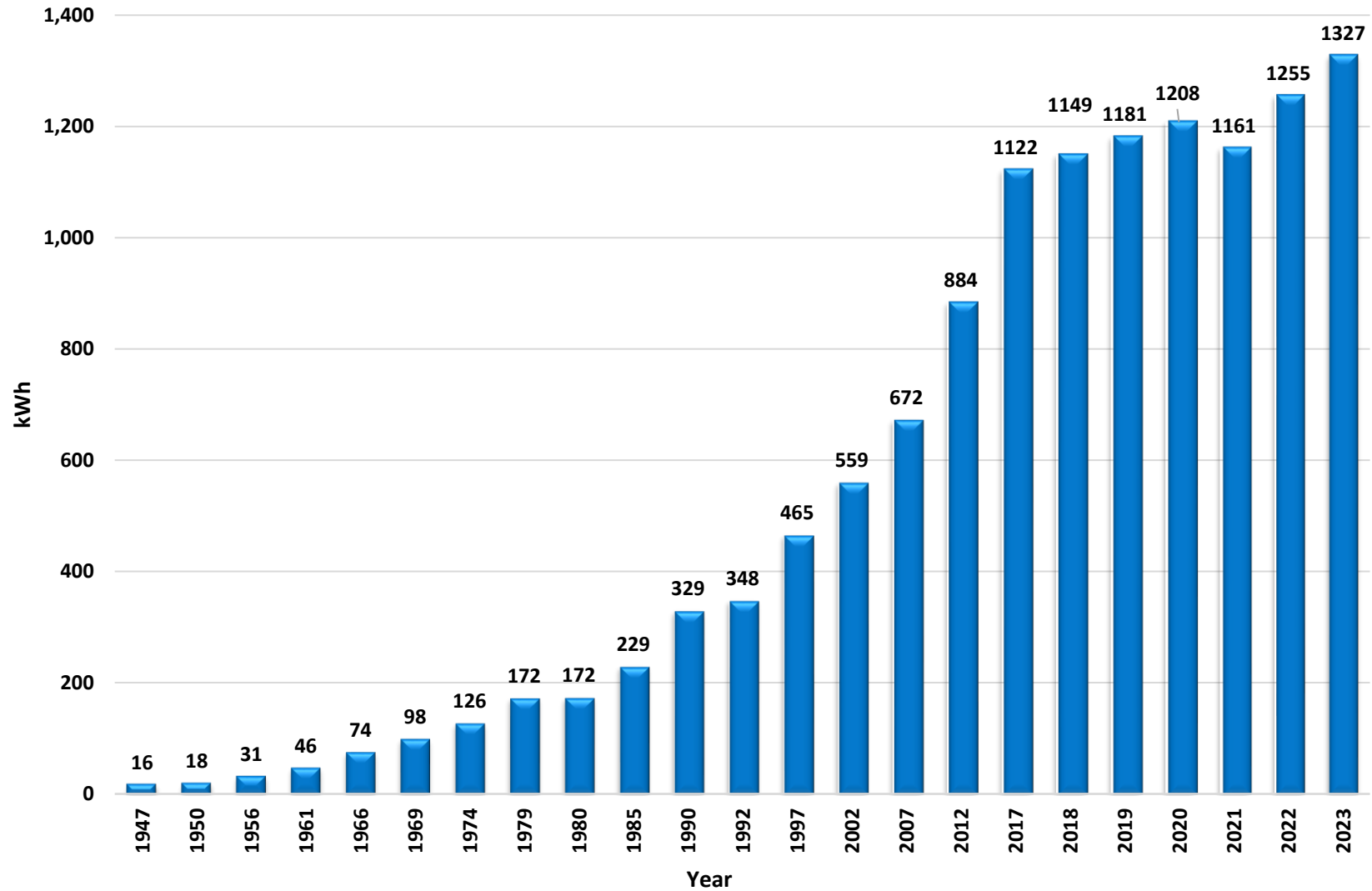
Chart : 3



Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
2. Figures for the year 1955-56 & onward are as on 31st March.

## Plan-wise Growth of Per Capita Consumption of Electricity in the Country

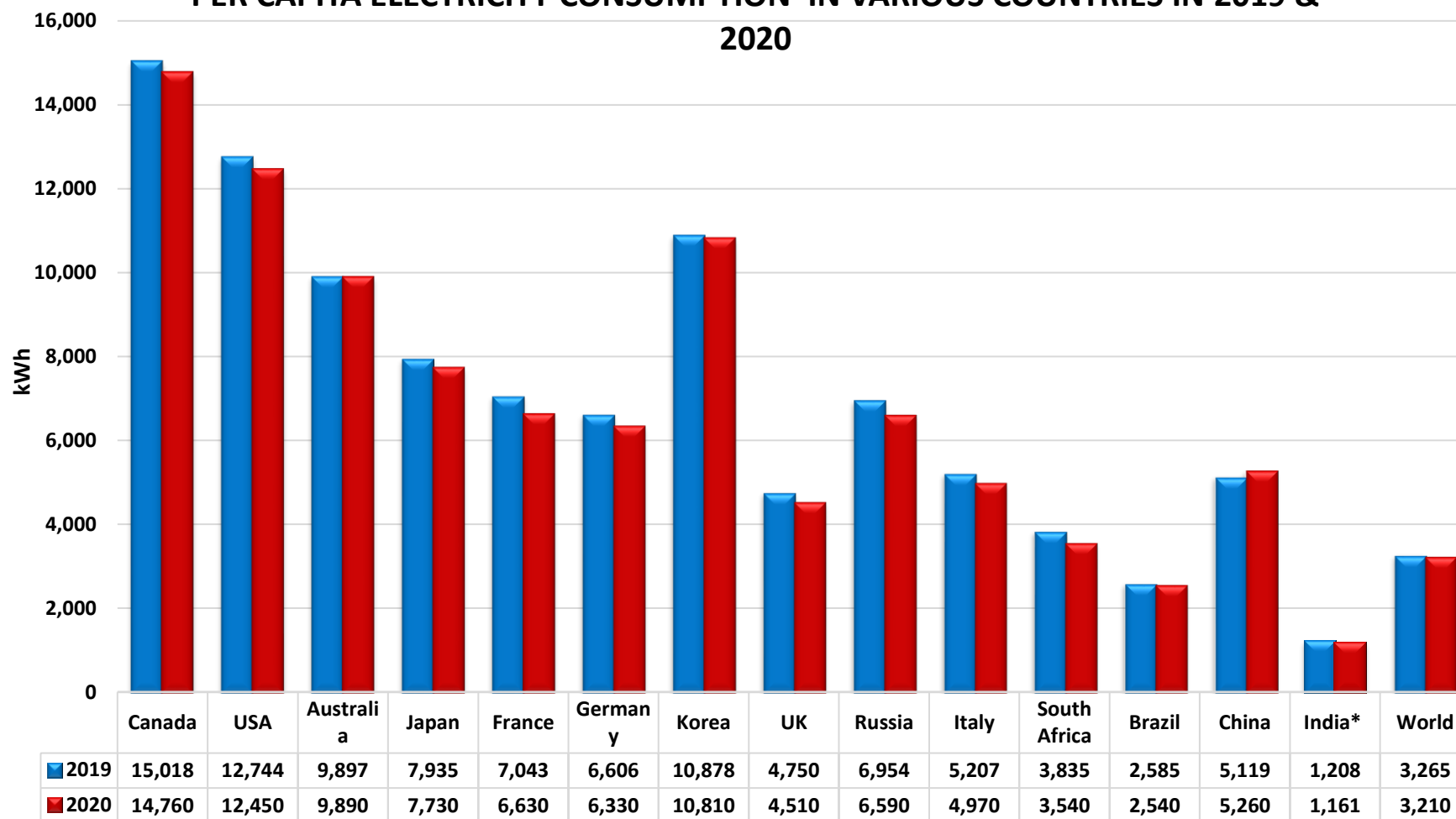
Chart : 4



Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
2. Figures for the year 1955-56 & onward are as on 31st March.

Chart : 5

**PER CAPITA ELECTRICITY CONSUMPTION IN VARIOUS COUNTRIES IN 2019 & 2020**



Source : IEA publication 'Key World Energy Statistics 2019 website (other than India)

\* Per capita consumption = (gross electrical energy availability / mid year population)

**Table 2**  
**Plan-wise Growth of Installed Capacity in India - Mode-wise**  
**(Utilities)**

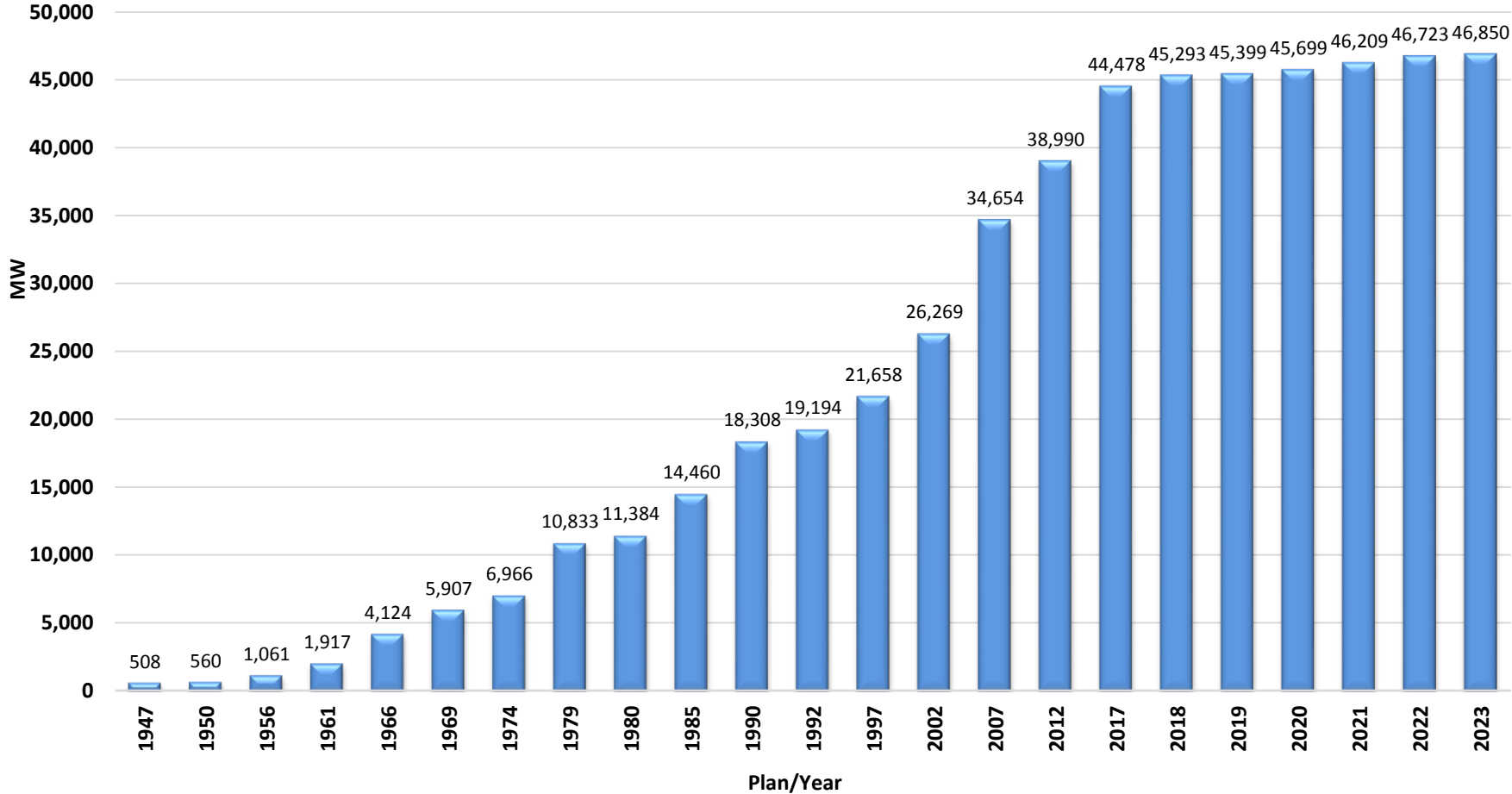
(MW)

Sl. No.	As on	Thermal				Nuclear	RES			Total
		Coal/Lignite	Gas	Diesel	Total		Hydro	RES (MNRE)	RES Total	
1	31.12.47	756	0	98	854	0	508	0	508	1,362
2	31.12.50	1,004	0	149	1,153	0	560	0	560	1,713
3	31.03.56 (End of 1st Plan)	1,597	0	228	1,825	0	1,061	0	1,061	2,886
4	31.03.61 (End of 2nd Plan)	2,436	0	300	2,736	0	1,917	0	1,917	4,653
5	31.03.66 (End of 3rd Plan)	4,417	134	352	4,903	0	4,124	0	4,124	9,027
6	31.03.69 (End of 3 Annual Plans)	6,640	134	276	7,050	0	5,907	0	5,907	12,957
7	31.03.74 (End of 4th Plan)	8,652	165	241	9,058	640	6,966	0	6,966	16,664
8	31.03.79 (End of 5th Plan)	14,875	168	164	15,207	640	10,833	0	10,833	26,680
9	31.03.80 (End of Annual Plan)	15,991	268	165	16,424	640	11,384	0	11,384	28,448
10	31.03.85 (End of 6th Plan)	26,311	542	177	27,030	1,095	14,460	0	14,460	42,585
11	31.03.90 (End of 7th Plan)	41,237	2,343	165	43,745	1,565	18,308	18	18,326	63,636
12	31.03.92 (End of 2 Annual Plans)	44,791	3,095	168	48,054	1,785	19,194	32	19,226	69,065
13	31.03.97 (End of 8th Plan)	54,154	6,562	294	61,010	2,225	21,658	902	22,560	85,795
14	31.03.02 (End of 9th Plan)	62,131	11,163	1,135	74,429	2,720	26,269	1,628	27,897	105,046
15	31.03.07 (End of 10th Plan)	71,121	13,692	1,202	86,015	3,900	34,654	7,760	42,414	132,329
16	31.03.12 (End of 11th Plan)	112,022	18,381	1,200	131,603	4,780	38,990	24,504	63,494	199,877
17	31.03.17 (End of 12th Plan)	192,163	25,329	838	218,330	6,780	44,478	57,244	101,723	326,833
18	31.03.2018	197,172	24,897	838	222,907	6,780	45,293	69,022	114,316	344,002
19	31.03.2019	200,705	24,937	638	226,279	6,780	45,399	77,642	123,041	356,100
20	31.03.2020	205,135	24,955	510	230,600	6,780	45,699	87,028	132,727	370,106
21	31.03.2021	209,295	24,924	510	234,729	6,780	46,209	94,434	140,643	382,152
22	31.03.2022	210,700	24,900	510	236,109	6,780	46,723	109,885	156,608	399,497
23	31.03.2023	211,856	24,824	589	237,269	6,780	46,850	125,160	172,010	416,059

RES:-Renewable Energy Sources includes Hydro capacity of 25.00 MW and below as reported by MNRE.

Chart : 6

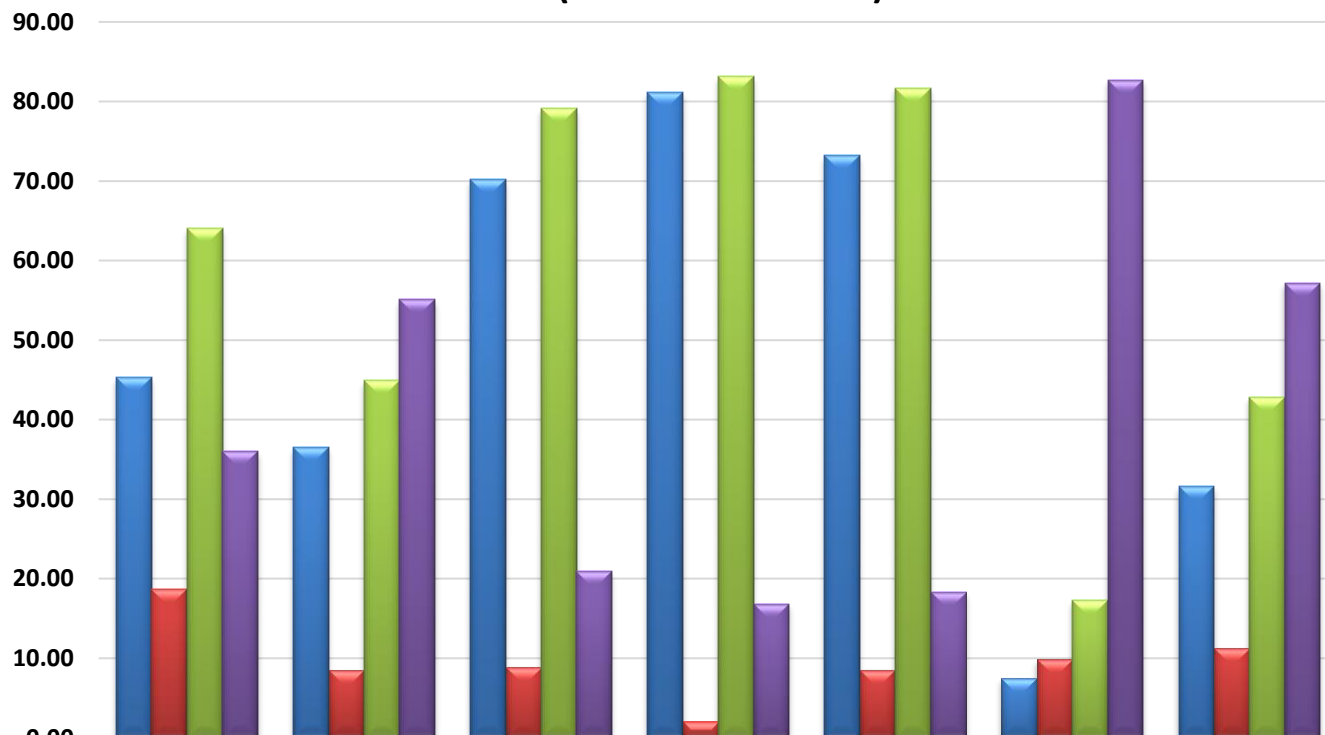
### Plan-wise Growth of Installed Capacity in India Hydro Electric Power Stations (25 MW & above)



Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
2. Figures for the year 1955-56 & onward are as on 31st March.



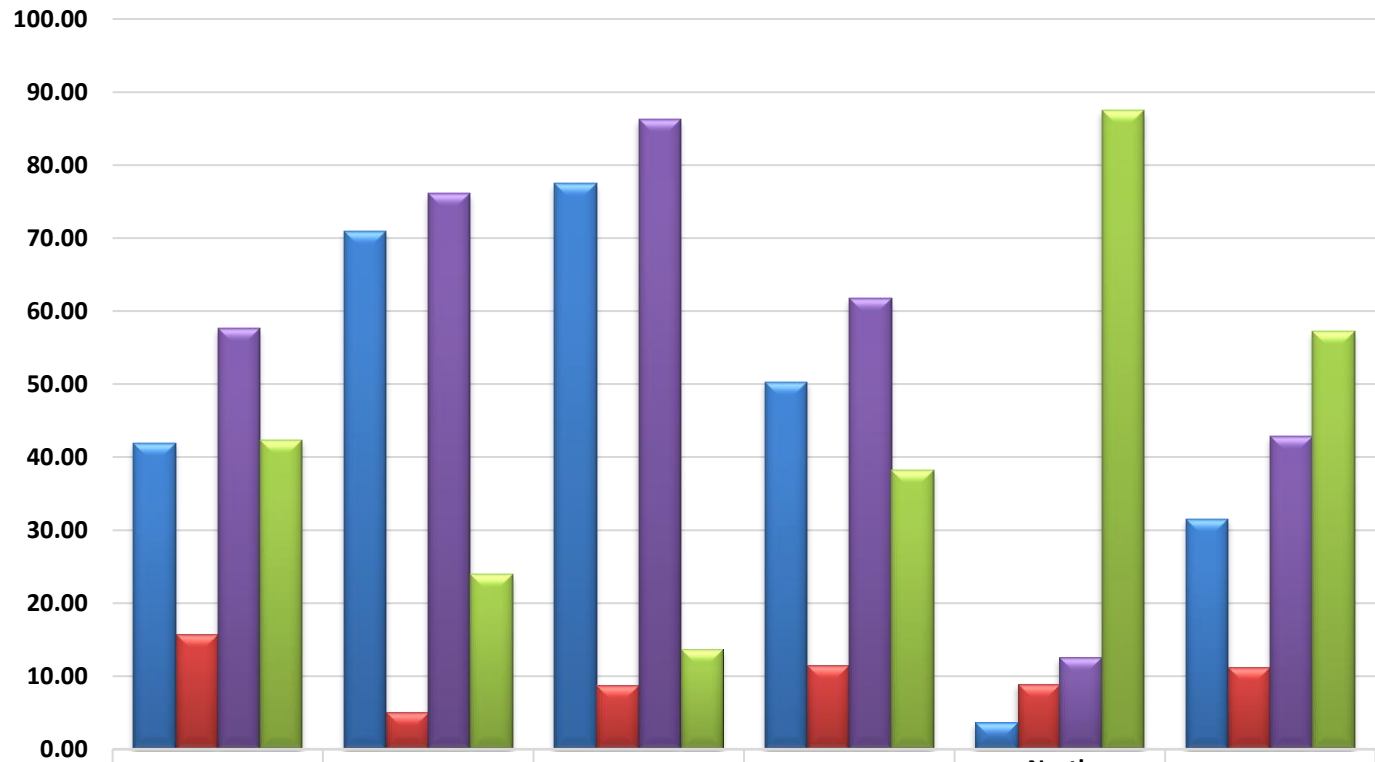
**Basin-wise Status of Hydro Electric Potential Development    Chart : 6A**  
**In terms of Installed Capacity above 25 MW**  
**% wise (As on 31.03.2023)**



% Capacity Developed /Under Operation	45.29	36.48	70.24	81.18	73.20	7.47	31.56
% Cap. Under Construction	18.72	8.44	8.89	2.00	8.52	9.81	11.26
% Cap. Dev. + Under Con.	64.01	44.92	79.13	83.18	81.72	17.28	42.82
% Balance Potential	35.99	55.09	20.87	16.82	18.28	82.71	57.18

## Region-wise Status of Hydro Electric Potential Development In terms of Installed Capacity above 25 MW % wise

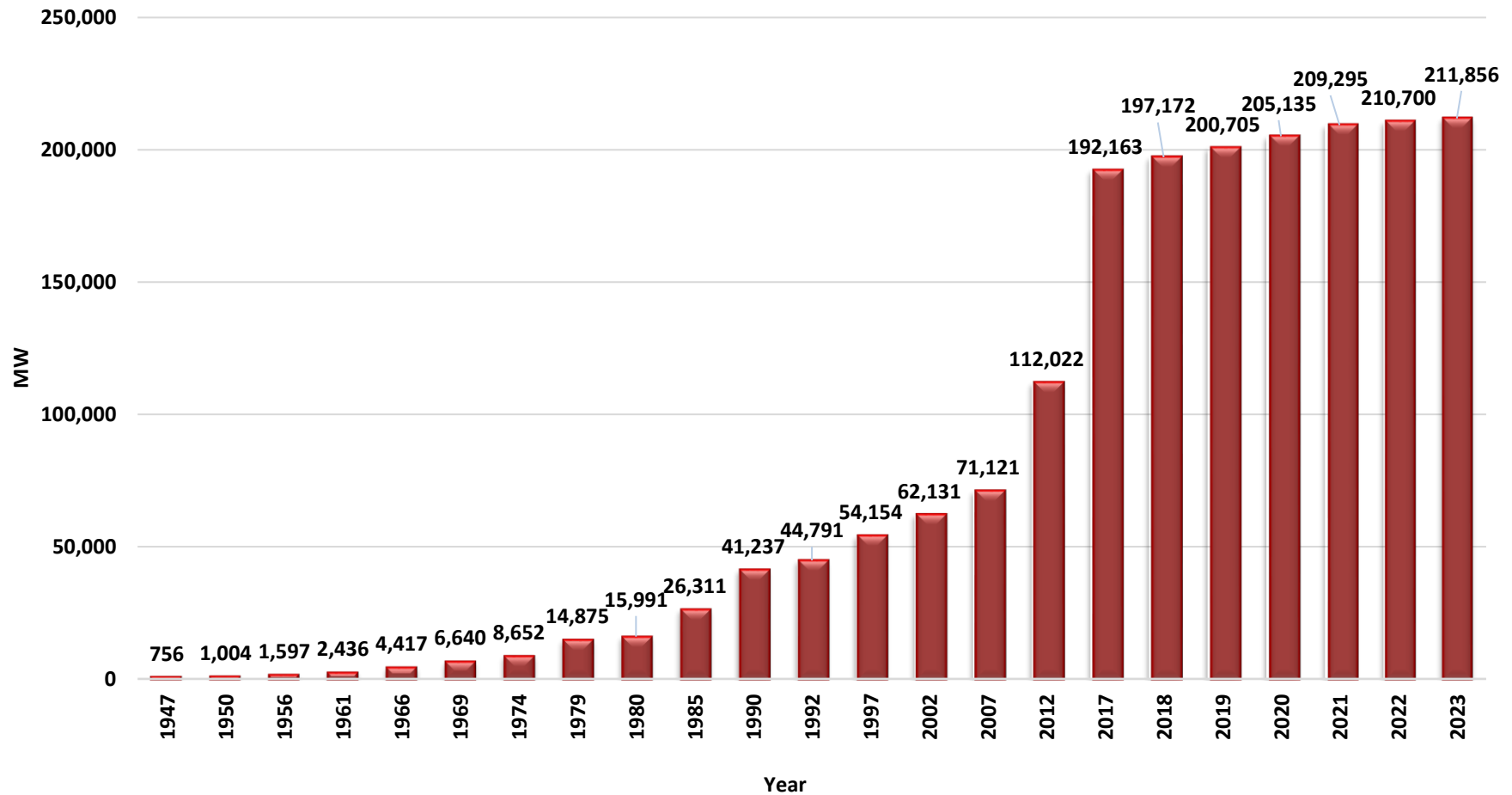
Chart : 6B



	Northern Region	Western Region	Southern Region	Eastern Region	North Eastern Region	All India
<span style="color: blue;">■</span> % Capacity Developed /Under Operation	41.93	70.96	77.50	50.30	3.62	31.56
<span style="color: red;">■</span> %Cap. Under Construction	15.68	5.11	8.75	11.44	8.94	11.26
<span style="color: purple;">■</span> %Cap. Dev. +Under Construction	57.61	76.07	86.25	61.74	12.56	42.82
<span style="color: green;">■</span> % Capacity yet to be Developed	42.38	23.93	13.75	38.26	87.44	57.18

## Plan-wise Growth of Installed Capacity in India Coal/ Lignite-based Plants

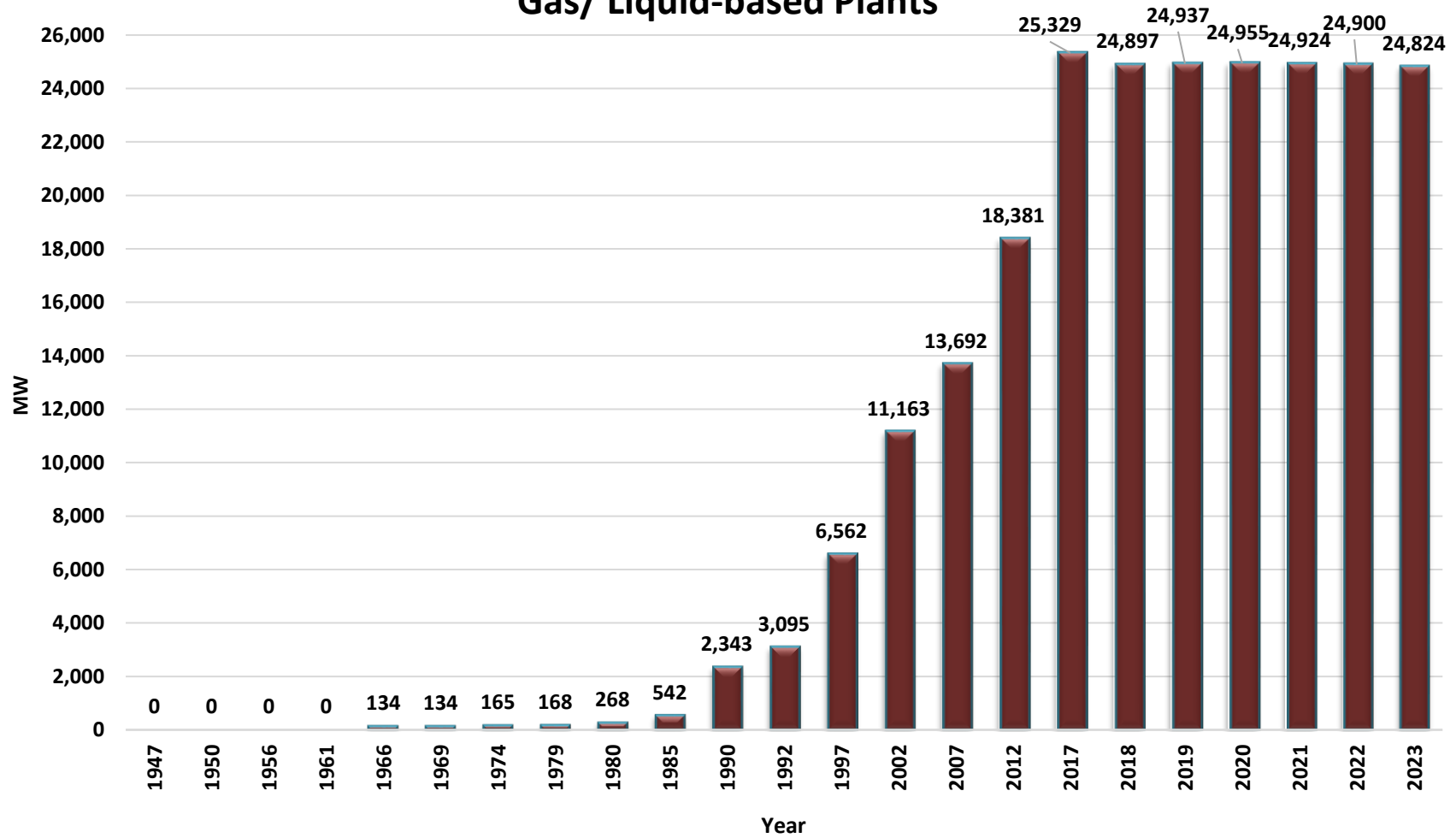
Chart : 7A



Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
2. Figures for the year 1955-56 & onward are as on 31st March.

## Plan-wise Growth of Installed Capacity in India Gas/ Liquid-based Plants

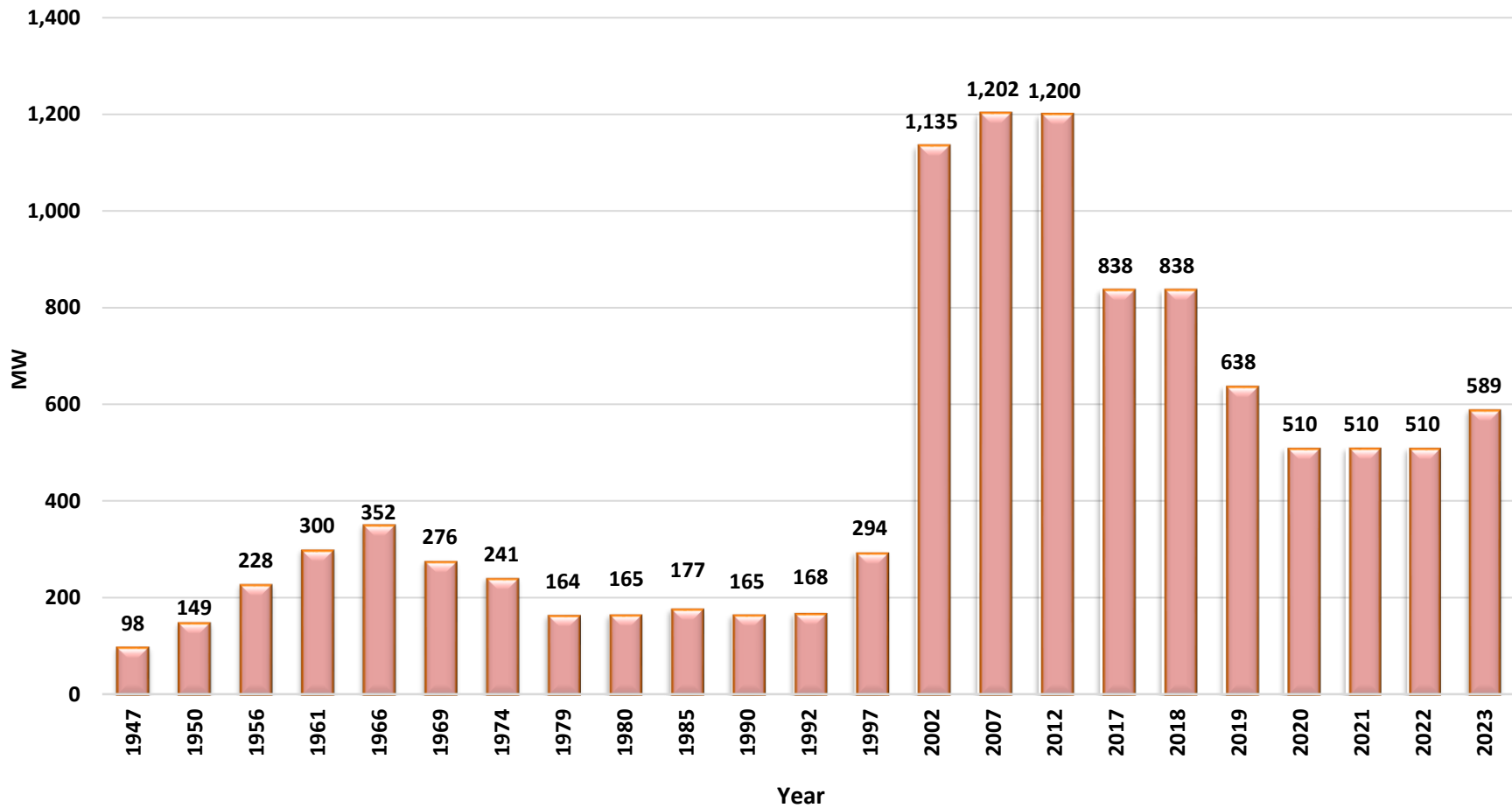
Chart : 7B



Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
2. Figures for the year 1955-56 & onward are as on 31st March.

## Plan-wise Growth of Installed Capacity in India Diesel-based Plants

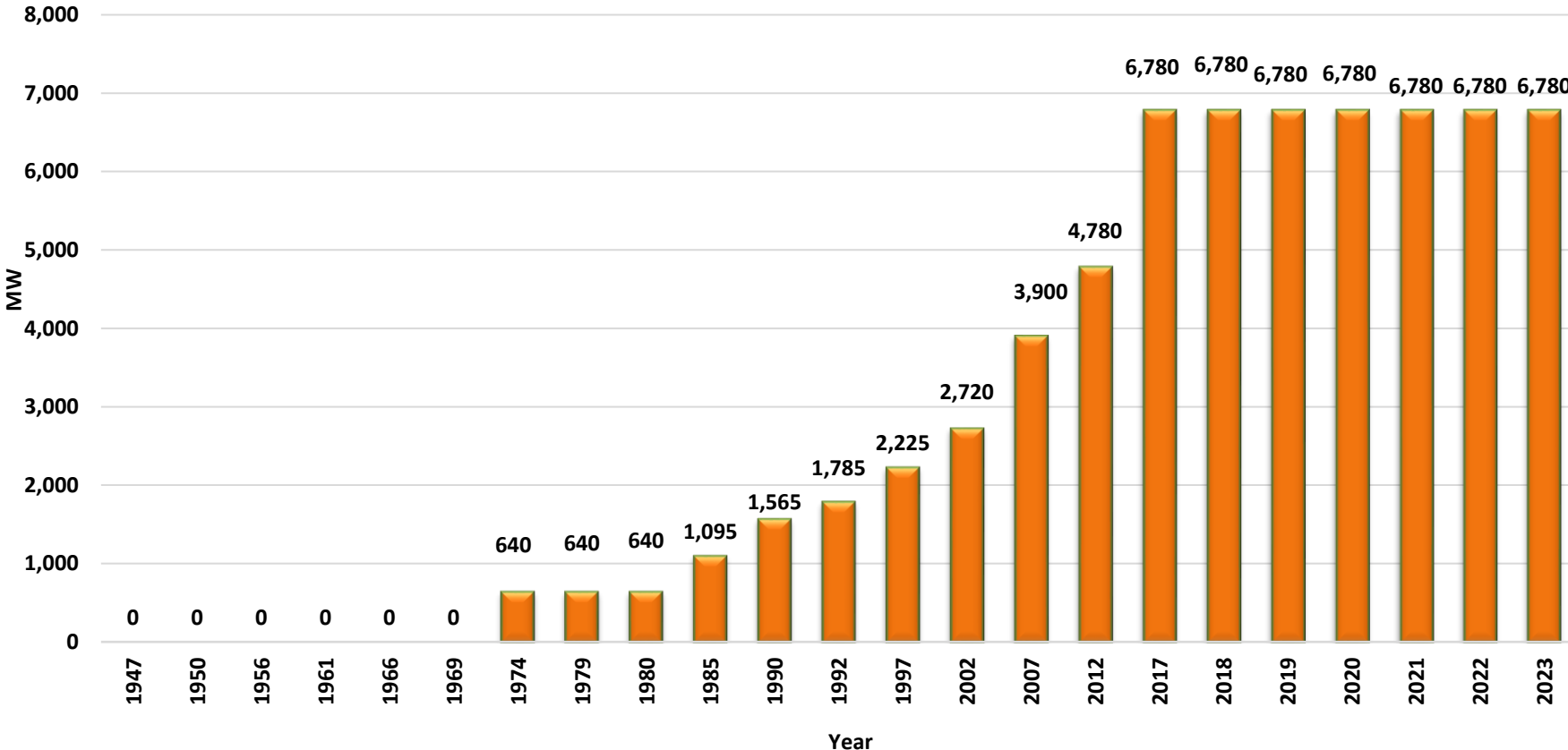
Chart : 7C



- Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
2. Figures for the year 1955-56 & onward are as on 31st March.  
3. Diesel based Capacity includes capacity of plants having capacity 25 MW & above and Capacity of DG sets group located in Lakshadweep and Andaman & Nicobar Islands

# Plan-wise Growth of Installed Capacity in India Nuclear-based Plants

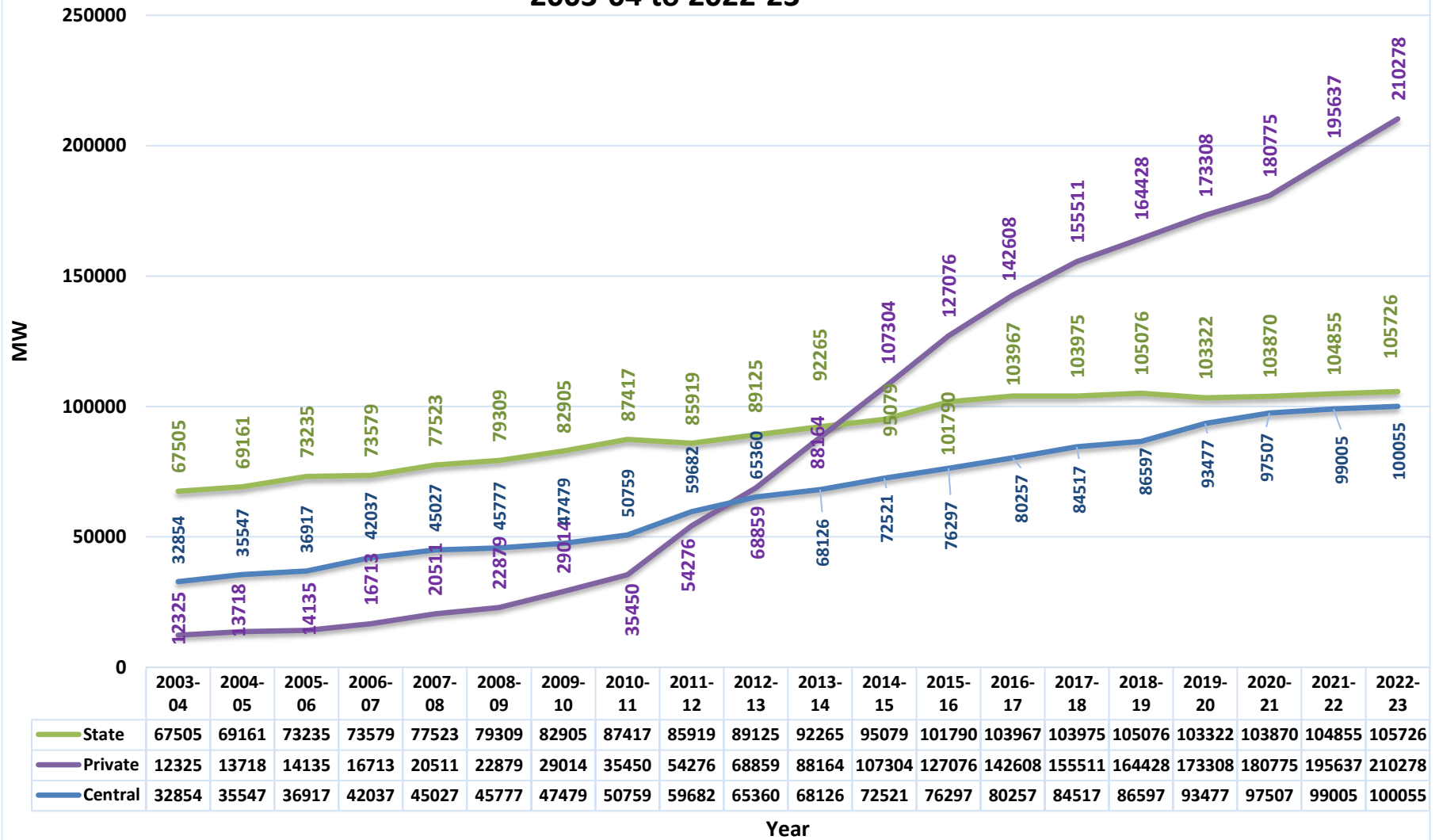
Chart : 8



Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
2. Figures for the year 1955-56 & onward are as on 31st March.

## Sector-wise Growth of Installed Capacity (MW) 2003-04 to 2022-23

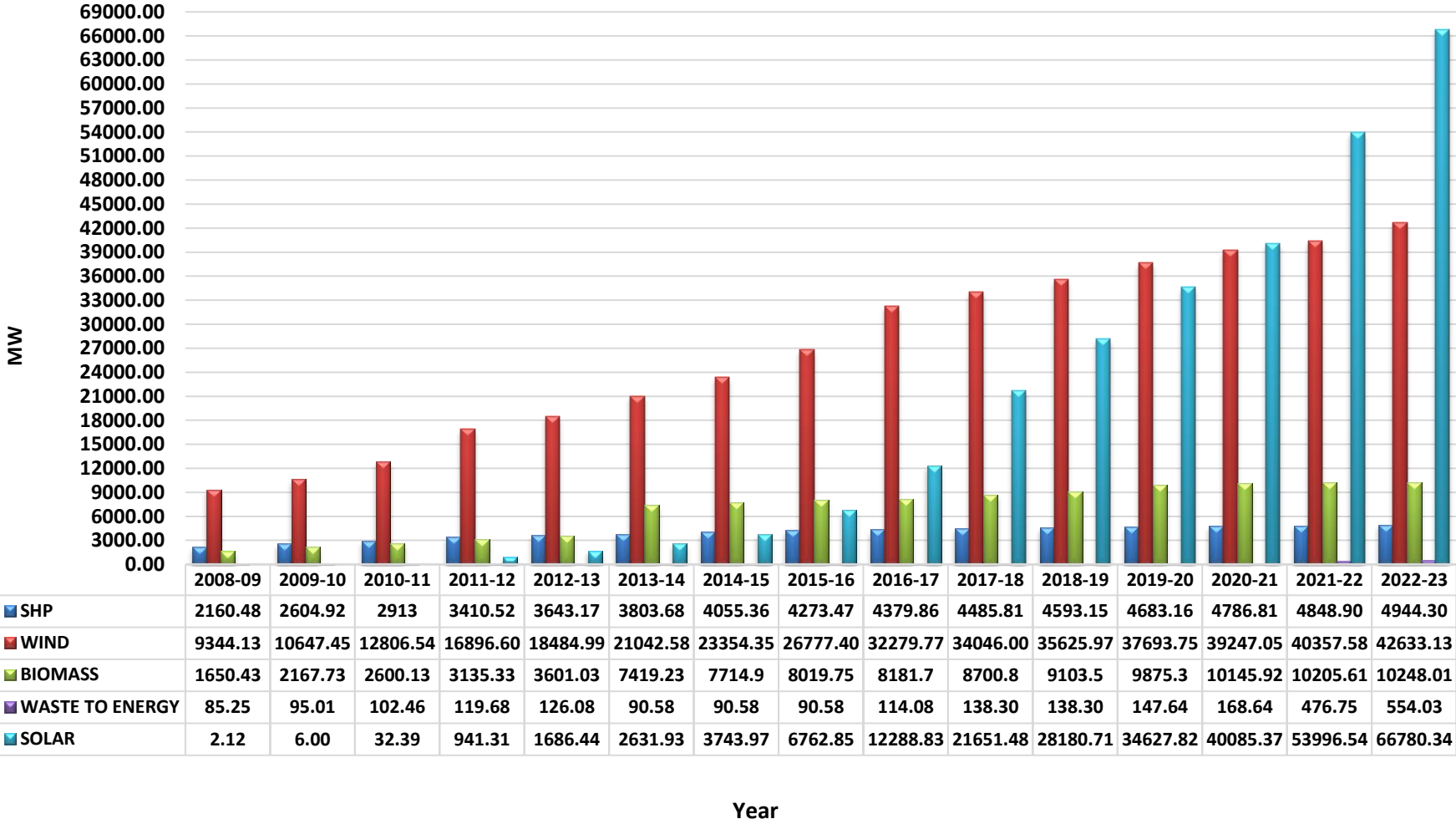
Chart : 8A



Note: DVC & BBMB Installed Capacity is considered under Central Sector

Chart :8 B

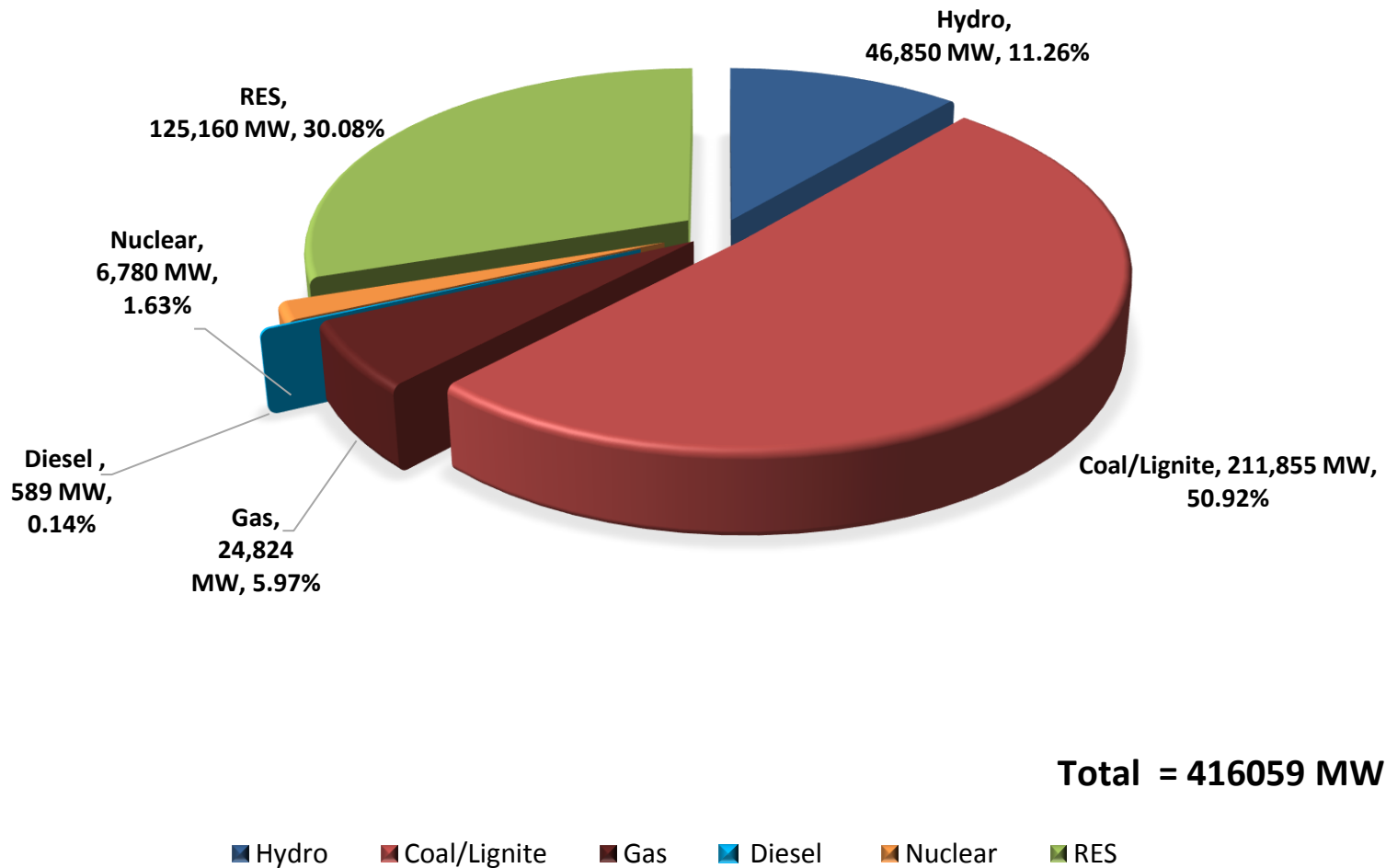
Mode-wise/ Year-wise Growth of Installed Capacity of R.E.S. during last 15 years





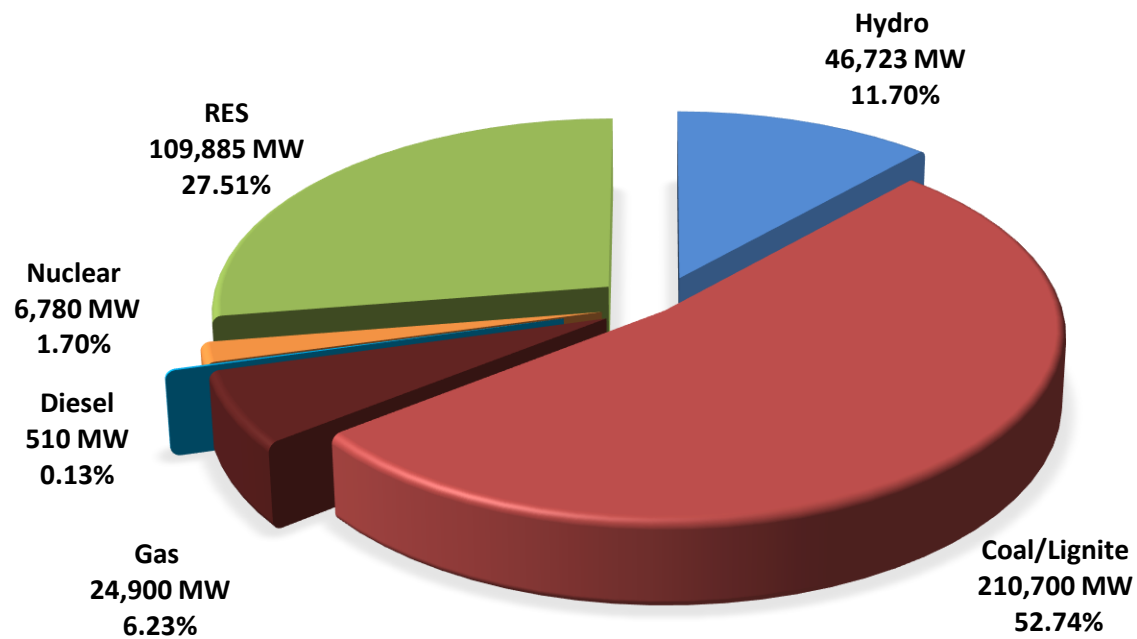
Pie Chart : 9

**ALL INDIA INSTALLED CAPACITY  
(UTILITIES)  
AS ON 31.03.2023**



Pie Chart : 9A

**ALL INDIA INSTALLED CAPACITY  
(UTILITIES)  
(AS ON 31.03.2022)**



**Total =399497 MW**

■ Hydro ■ Coal/Lignite ■ Gas ■ Diesel ■ Nuclear ■ RES

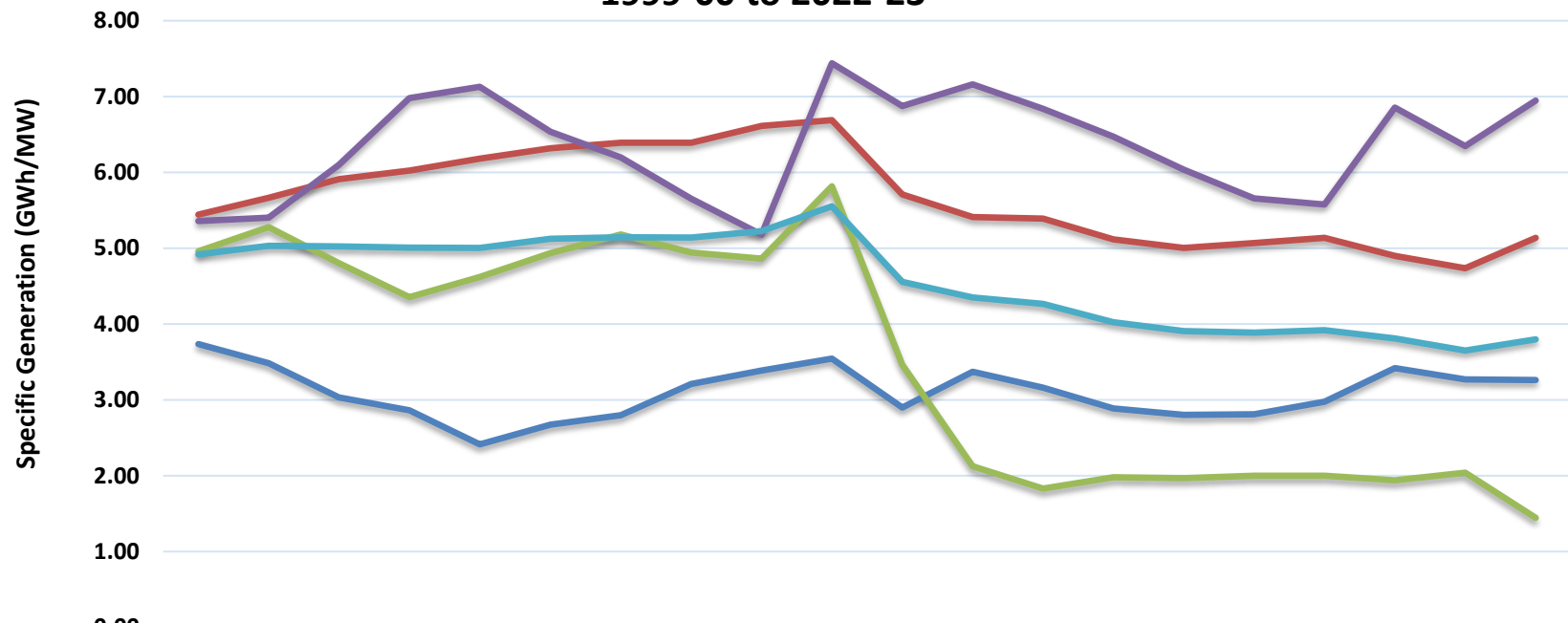
**Table 3**  
**Plan-wise Growth of Gross Electricity Generation in India- Mode-wise**  
**(Utilities)**

SL. No	During financial year ending with	Thermal				Hydro	Nuclear	RES	Total
		Coal/ Lignite	Gas	Diesel	Total				
1	1947	1,733	0	144	1,877	2,195	0	0	4,073
2	1950	2,587	0	200	2,787	2,519	0	0	5,106
3	1955-56 (End of the 1st Plan)	5,367	0	233	5,600	4,295	0	0	9,662
4	1960-61 (End of the 2nd Plan)	9,100	0	368	9,468	7,837	0	0	16,937
5	1965-66(End of the 3rd Plan)	17,765	69	324	18,158	15,225	0	0	32,990
6	1968-69(End of the 3 Annual Plans)	26,711	124	194	27,029	20,723	0	0	47,434
7	1973-74(End of the 4th Plan)	34,853	343	125	35,321	28,972	2,396	0	66,689
8	1978-79(End of the 5th Plan)	52,024	515	55	52,594	47,159	2,770	0	102,523
9	1979-80(End of the Annual Plan)	55,720	500	53	56,273	45,478	2,876	0	104,627
10	1984-85 (End of the 6th Plan)	96,957	1,834	45	98,836	53,948	4,075	0	156,859
11	1989-90 (End of the 7th Plan)	172,643	5,962	85	178,690	62,116	4,625	6	245,438
12	1991-92(End of the 2 Annual Plans)	197,163	11,450	95	208,708	72,757	5,525	38	287,029
13	1996-97(End of the 8th Plan)	289,378	26,985	679	317,042	68,901	9,071	876	395,889
14	2001-02(End of the 9th Plan)	370,884	47,099	4,317	422,300	73,579	19,475	2,085	517,439
15	2006-07(End of the 10th Plan )	461,794	64,157	2,539	528,490	113,502	18,802	9,860	670,654
16	2011-12(End of the 11th Plan )	612,497	93,281	2,649	708,427	130,511	32,287	51,226	922,451
17	2016-17(End of the 12th Plan )	944,022	49,094	401	993,516	122,378	37,916	81,548	1,235,358
18	2017-18	986,591	50,208	348	1,037,146	126,123	38,346	101,839	1,303,455
19	2018-19	1,022,265	49,834	215	1,072,314	134,894	37,813	126,759	1,371,779
20	2019-20	994,197	48,443	199	1,042,838	155,769	46,472	138,337	1,383,417
21	2020-21	981,443	50,944	224	1,032,611	150,300	43,029	147,248	1,373,187
22	2021-22	1,078,581	36,016	214	1,114,811	151,627	47,112	170,912	1,484,463
23	2022-23	1,182,096	23,885	320	1,206,301	162,099	45,861	203,552	1,617,813

Note: \* Provisional

1. RES Generation upto 2013-2014 as per normative generation.
2. RES Generation during 2014-2015 is as per actual generation received from utilities.

### Specific Generation by All India Power Stations Mode-wise (Utilities) 1999-00 to 2022-23

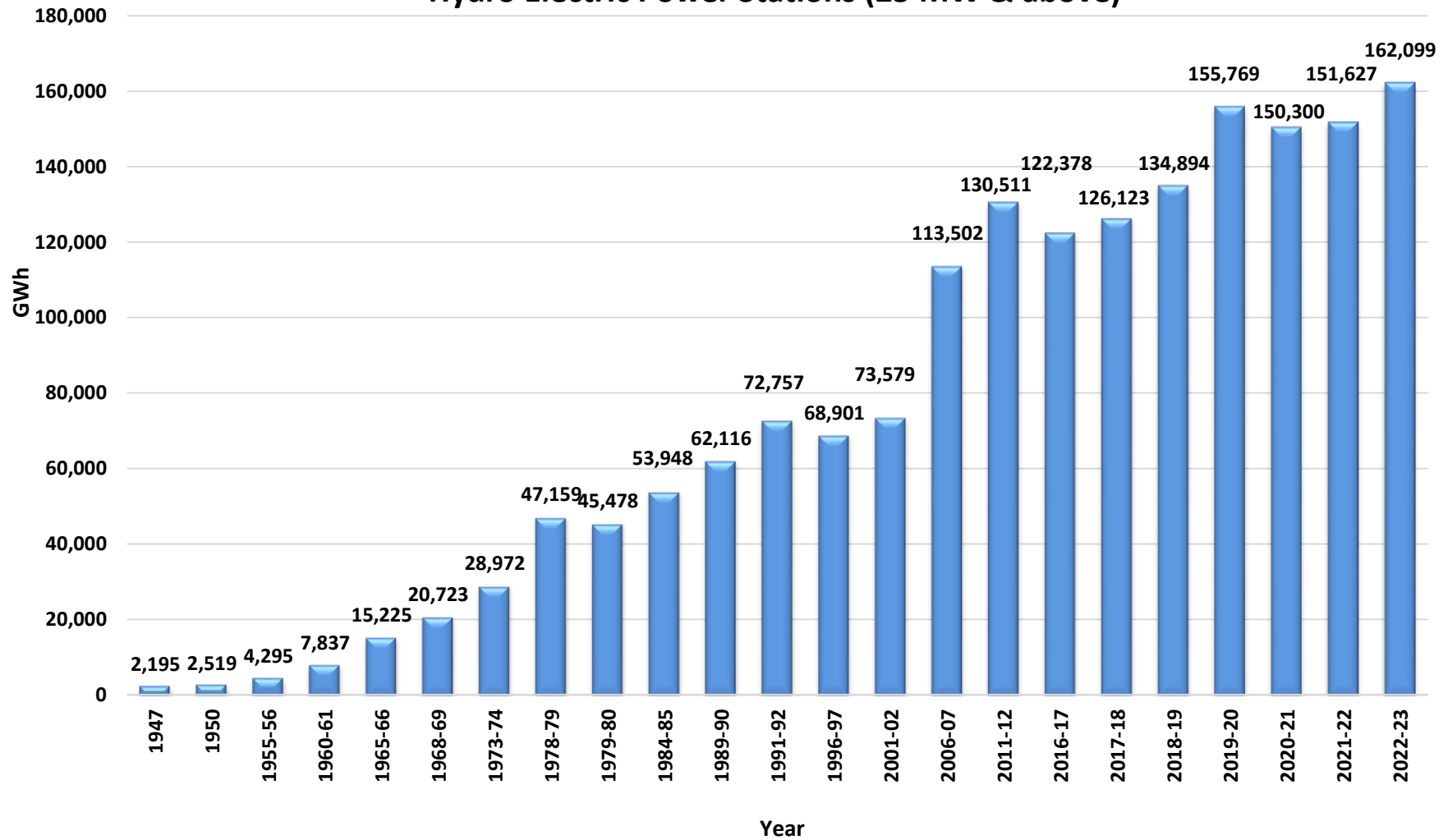


	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Hydro	3.74	3.49	3.03	2.86	2.41	2.67	2.80	3.21	3.39	3.54	2.90	3.37	3.16	2.89	2.80	2.81	2.97	3.42	3.27	3.26
Coal/Lignite	5.44	5.66	5.91	6.02	6.18	6.32	6.39	6.39	6.61	6.69	5.71	5.41	5.39	5.12	5.00	5.07	5.14	4.90	4.74	5.14
Gas/Liquid	4.96	5.28	4.80	4.36	4.62	4.94	5.18	4.94	4.86	5.82	3.46	2.13	1.83	1.98	1.97	2.00	2.00	1.94	2.04	1.45
Nuclear	5.36	5.40	6.10	6.98	7.13	6.54	6.20	5.65	5.18	7.44	6.88	7.16	6.84	6.47	6.04	5.66	5.58	6.85	6.35	6.95
All Types	4.92	5.03	5.02	5.01	5.00	5.12	5.14	5.14	5.23	5.55	4.56	4.35	4.27	4.03	3.91	3.89	3.92	3.81	3.65	3.80

Years

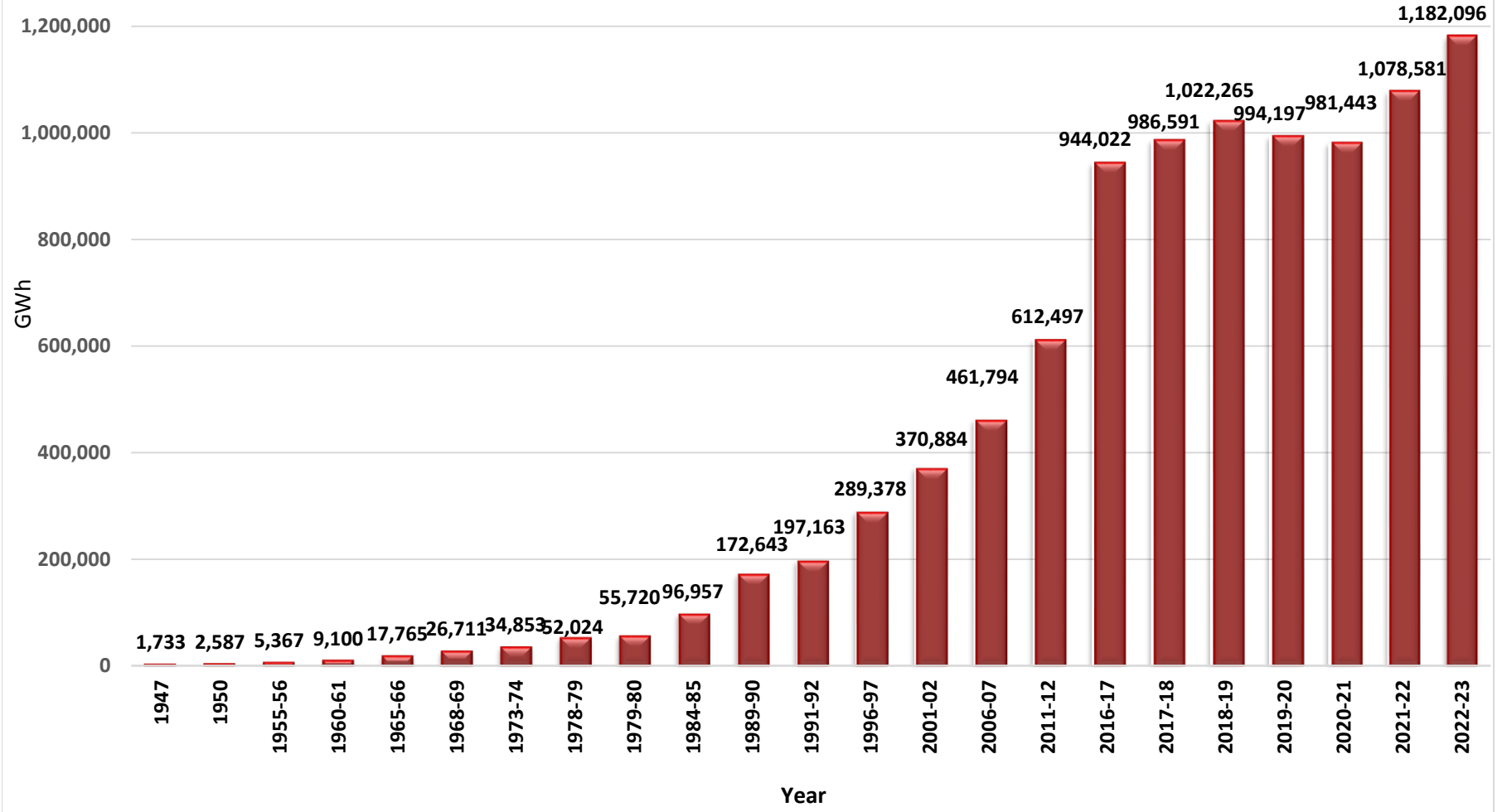
Chart : 11

### Plan-wise Growth of Electricity Generation in India Hydro Electric Power Stations (25 MW & above)



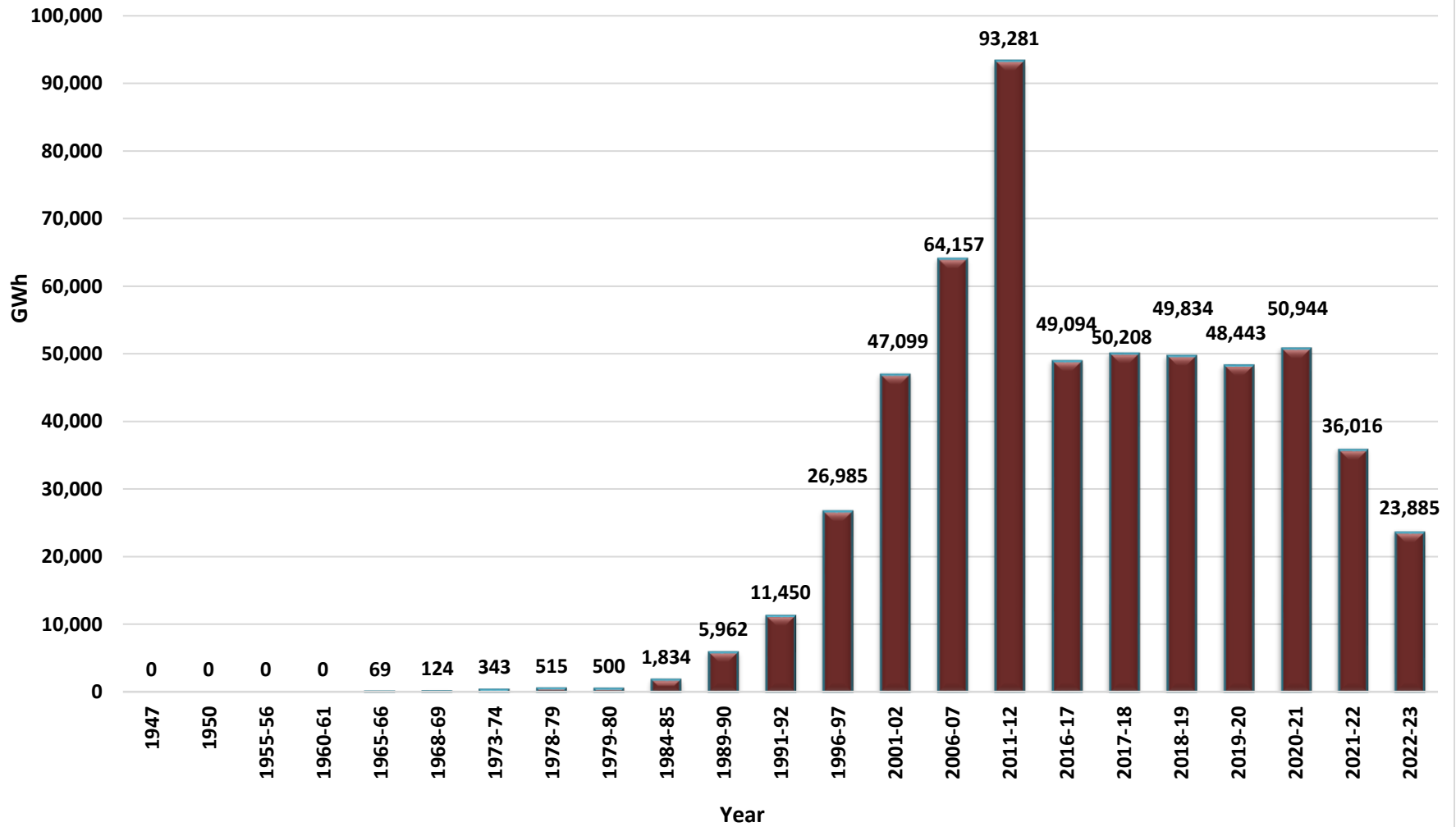
# Plan-wise Growth of Electricity Generation in India Coal / Lignite-based Power Plants

Chart : 12A



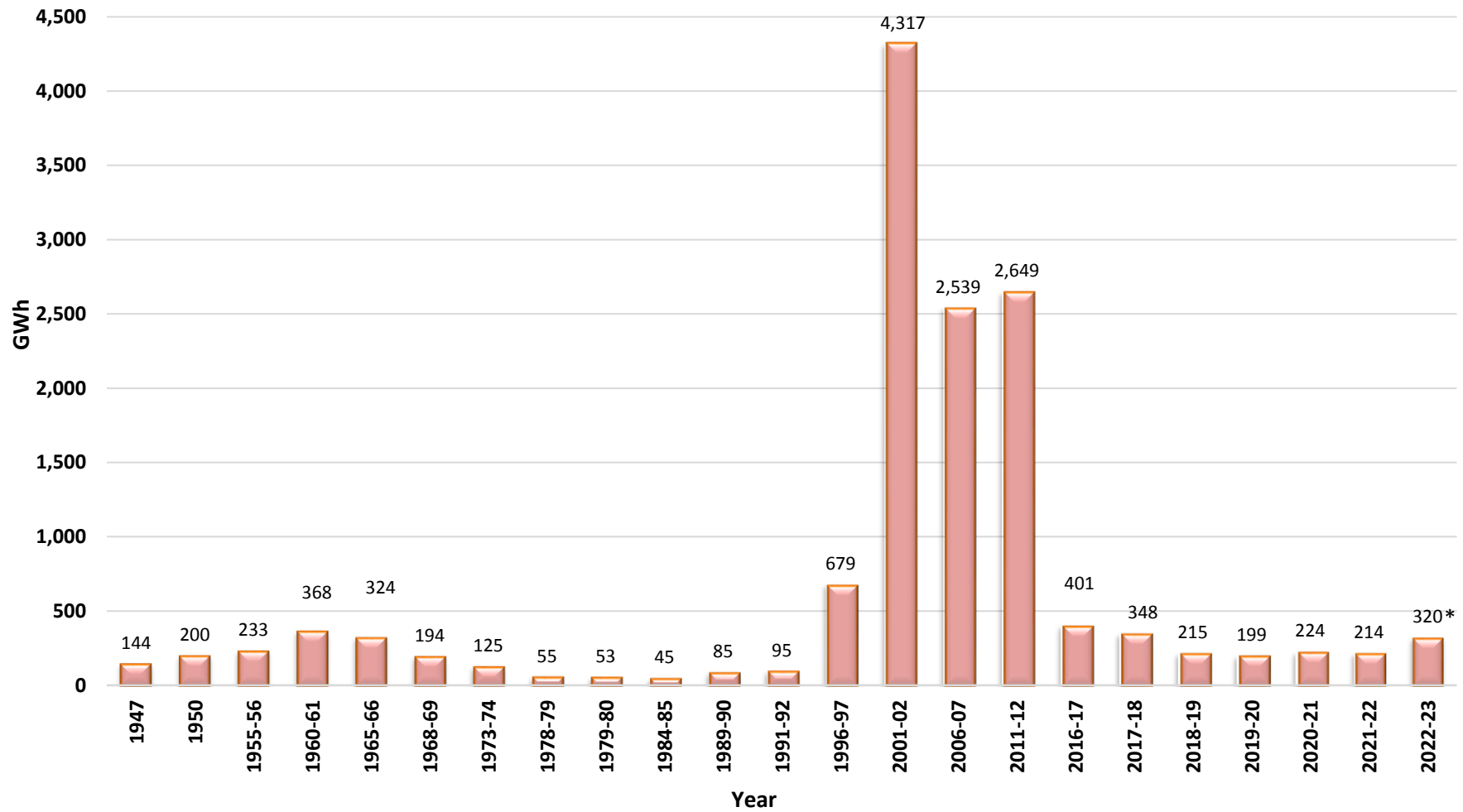
# Plan-wise Growth of Electricity Generation in India Gas/ Liquid Fuel-based Power Plants

Chart : 12B



# Plan-wise Growth of Electricity Generation in India Diesel-based Power Plants

Chart : 12C



Note: Generation included from Diesel based plants (25 MW & above capacity) generation & generation from DG sets group located in Lakshadweep and Andaman & Nicobar Islands

\* Provisional



Chart : 13

### All India PLF (%) of Thermal Power Stations (Coal and Lignite-based)

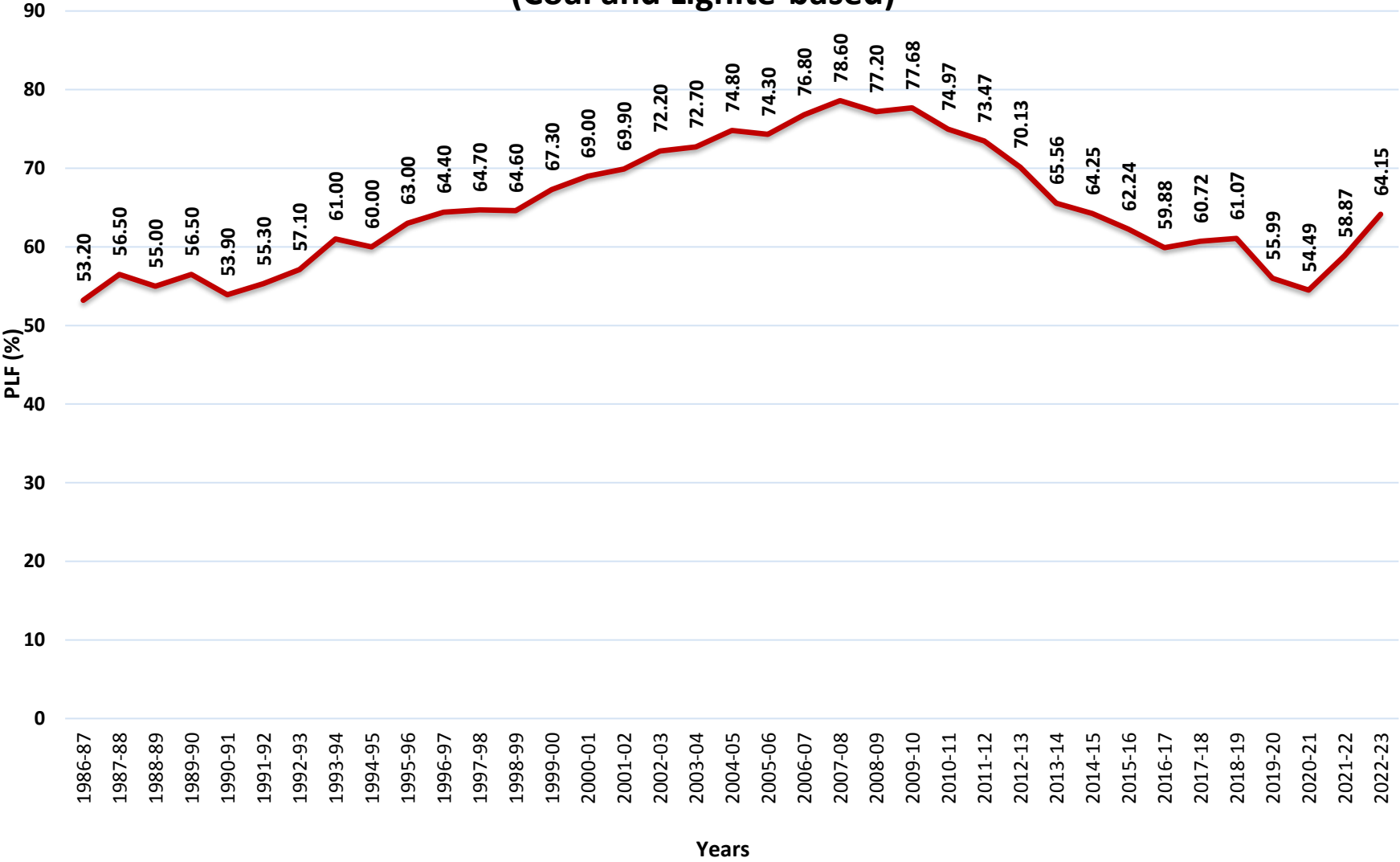
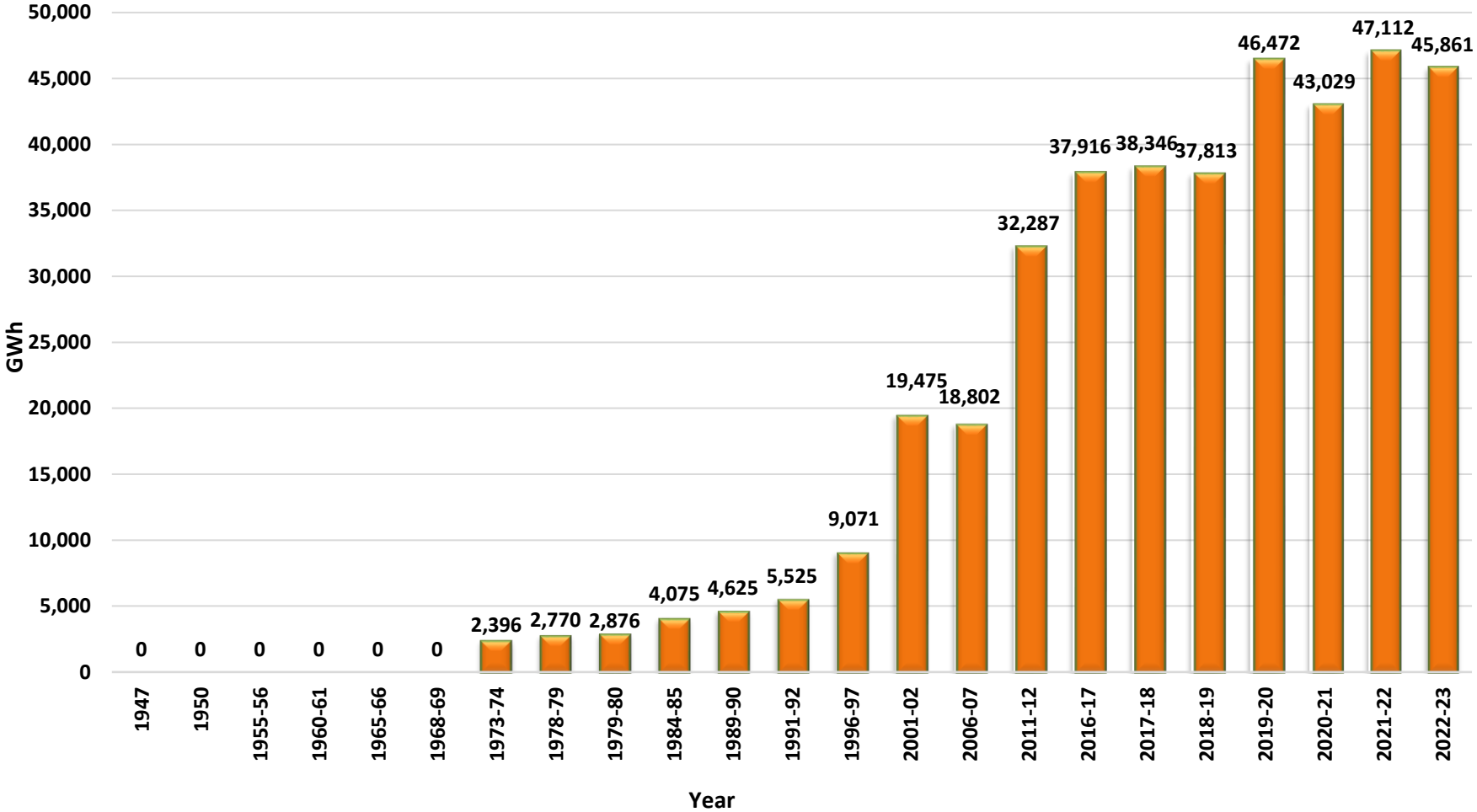


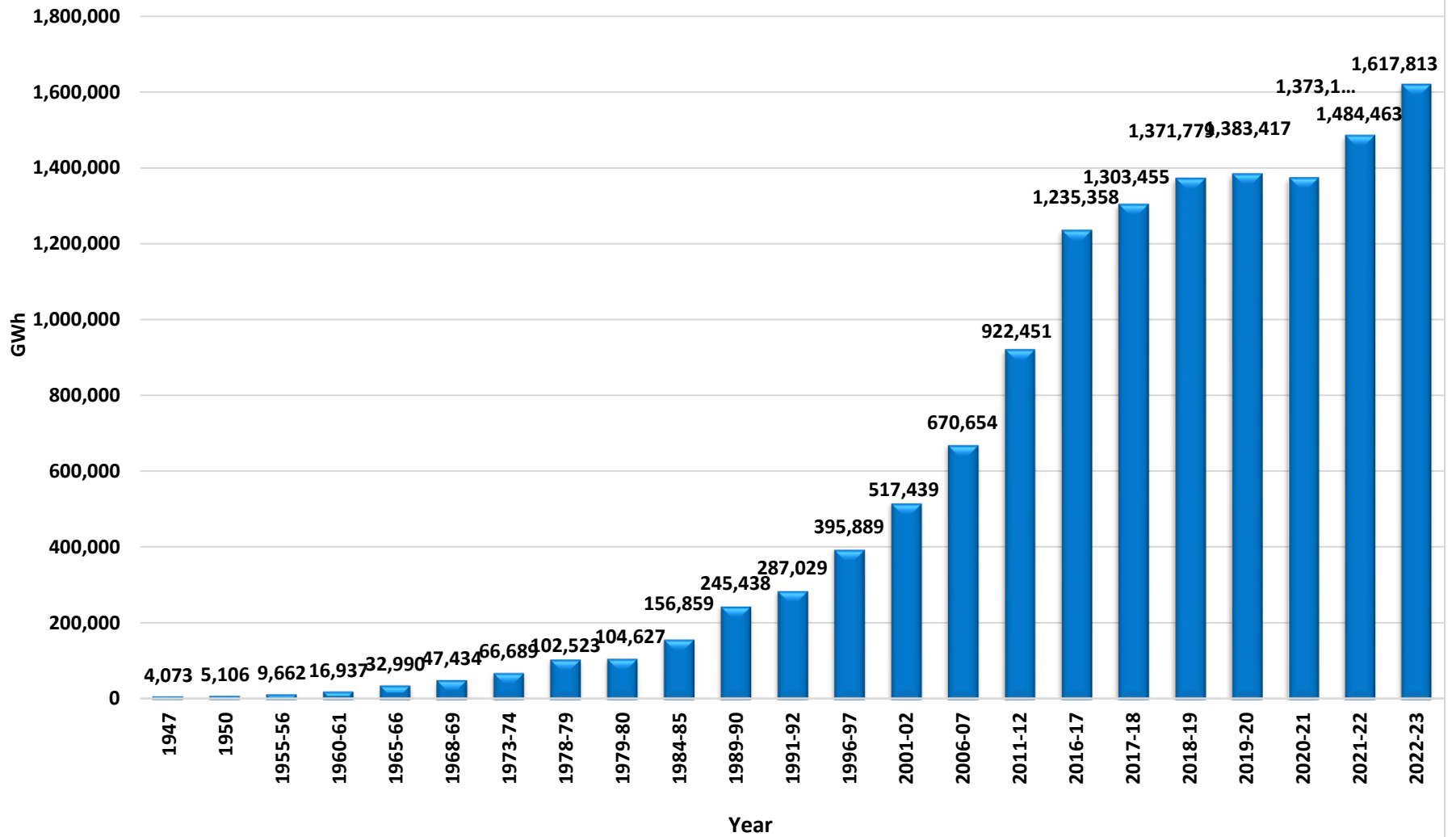
Chart : 14

## Plan-wise Growth of Electricity Generation in India Nuclear-based Power Plants



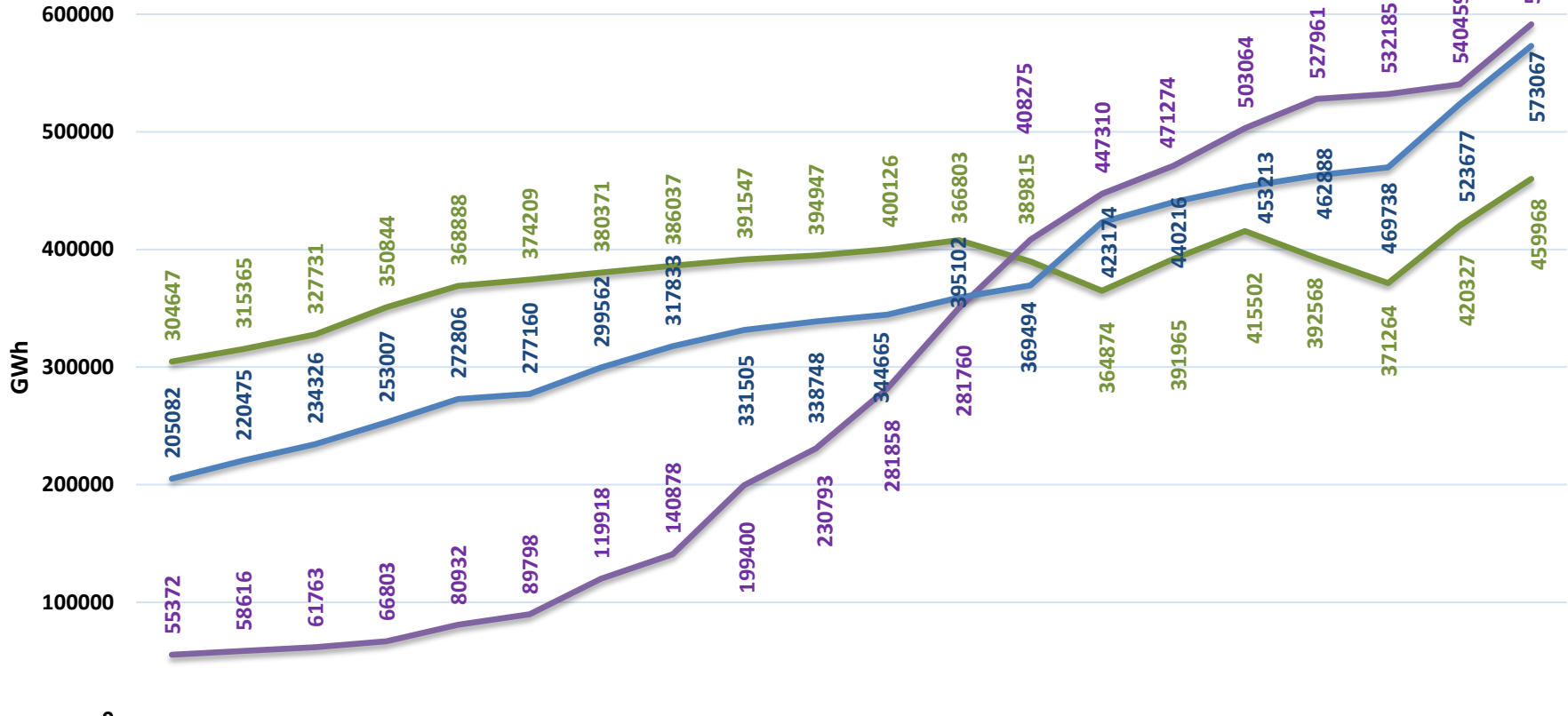
# Plan-wise Growth of All India Electricity Generation (Utilities)

Chart : 15



## Sector-wise Growth of Energy Generation (GWh) 2003-04 to 2022-23

Chart : 15A

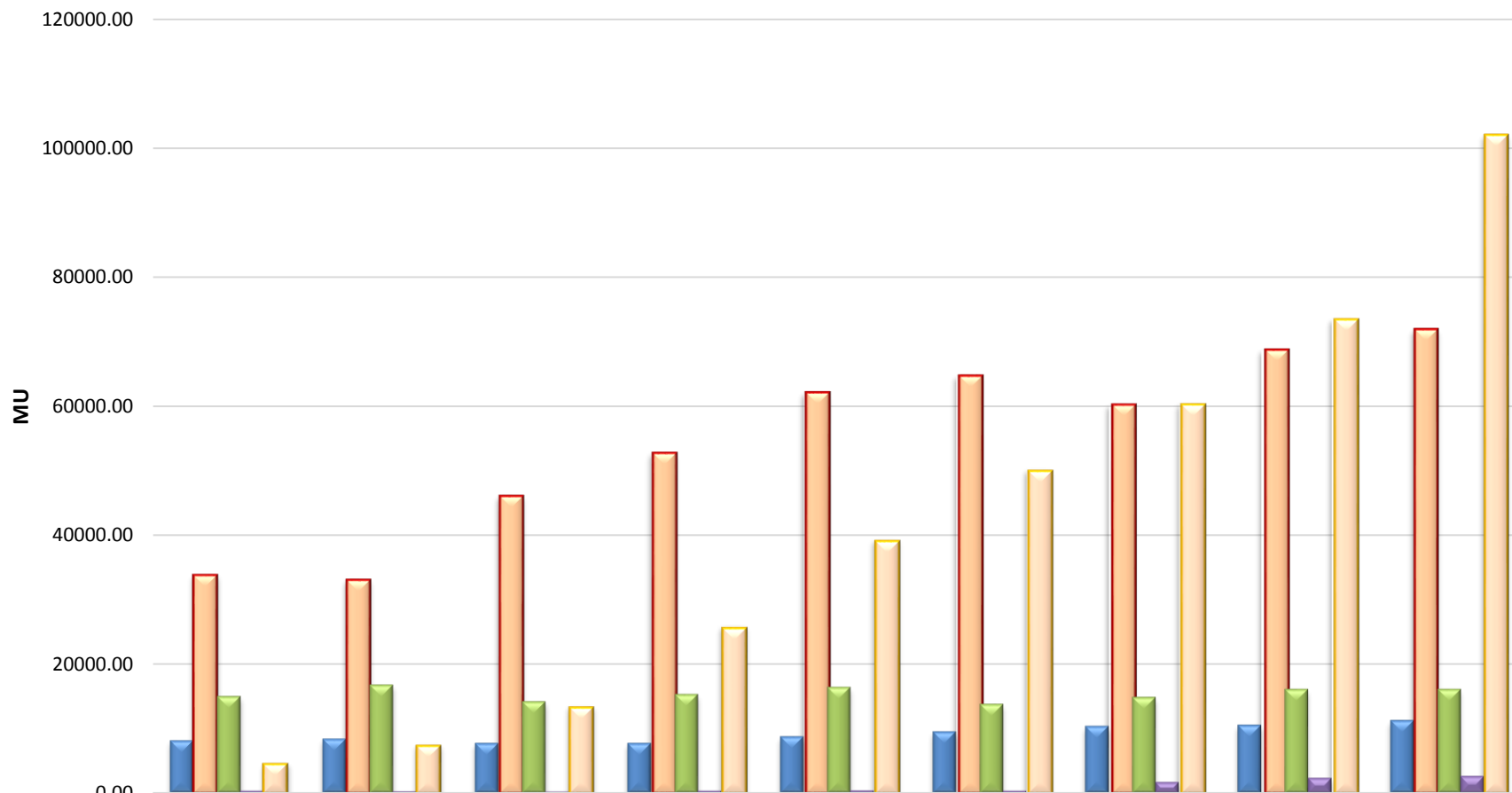


	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
State	304647	315365	327731	350844	368888	374209	380371	386037	391547	394947	400126	407817	389815	364874	391965	415502	392568	371264	420327	459968
Private	55372	58616	61763	66803	80932	89798	119918	140878	199400	230793	281858	350074	408275	447310	471274	503064	527961	532185	540459	591430
Central	205082	220475	234326	253007	272806	277160	299562	317833	331505	338748	344665	358959	369494	423174	440216	453213	462888	469738	523677	573067

Note: DVC & BBMB Generation is considered under Central Sector

Year

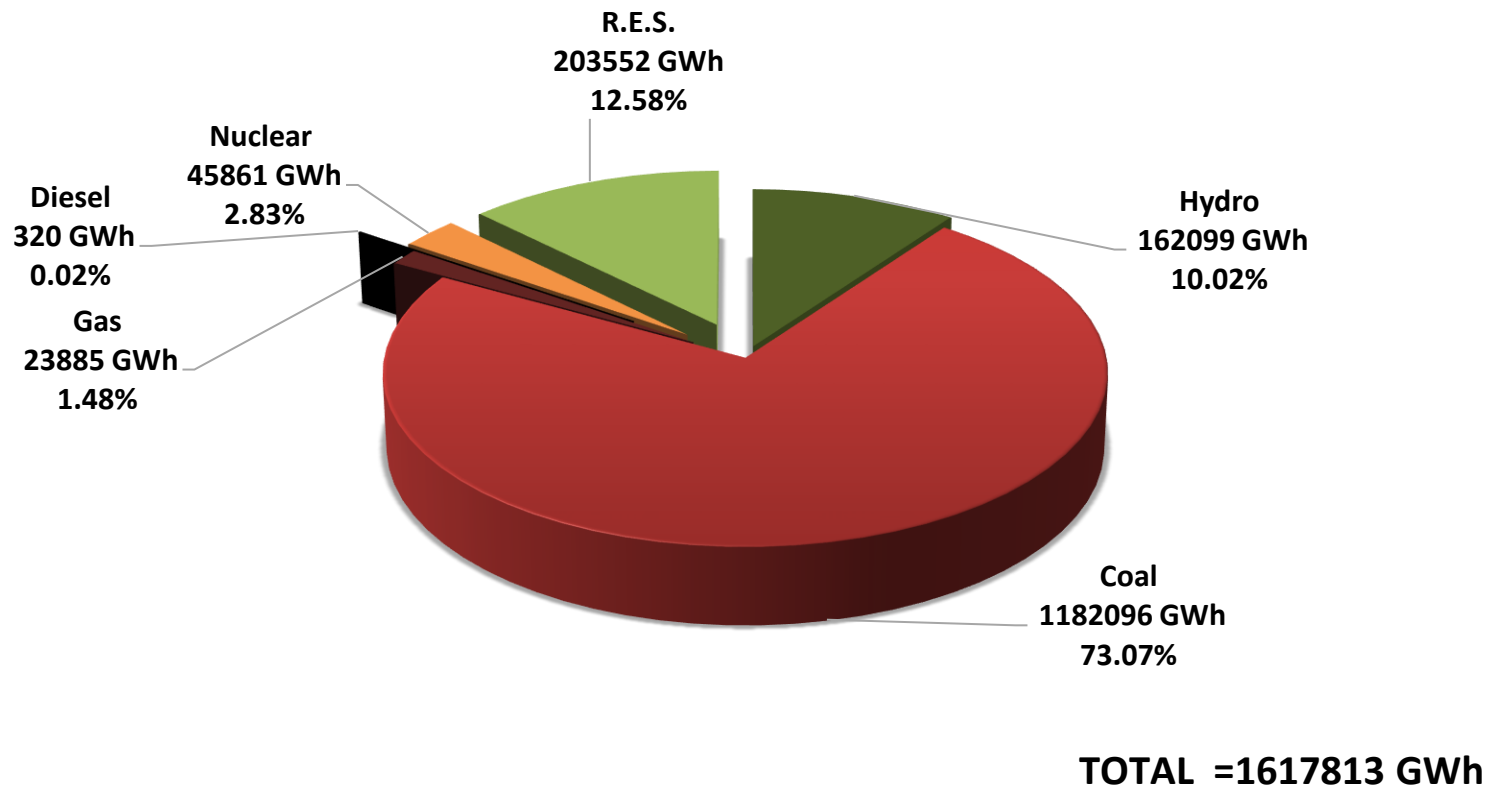
## Mode-wise/ Year-wise Growth of Electricity Generation from R.E.S. Chart: 15B during last 9 years



	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Small Hydro	8059.50	8354.51	7672.66	7691.58	8702.75	9451.24	10258.41	10463.54	11170.10
Wind	33768.30	33029.39	46004.34	52666.09	62036.38	64646.38	60149.95	68640.07	71814.16
Biomass	14944.50	16680.50	14158.64	15252.30	16326.49	13742.43	14815.83	16056.58	16024.48
Waste to Energy	347.92	268.53	213.16	358.45	425.28	365.88	1621.06	2268.17	2529.18
Solar	4599.02	7447.92	13499.41	25871.07	39268.20	50131.09	60402.26	73483.94	102014.24

**Gross Electricity Generation in India  
Mode-wise -Utilities  
2022-23**

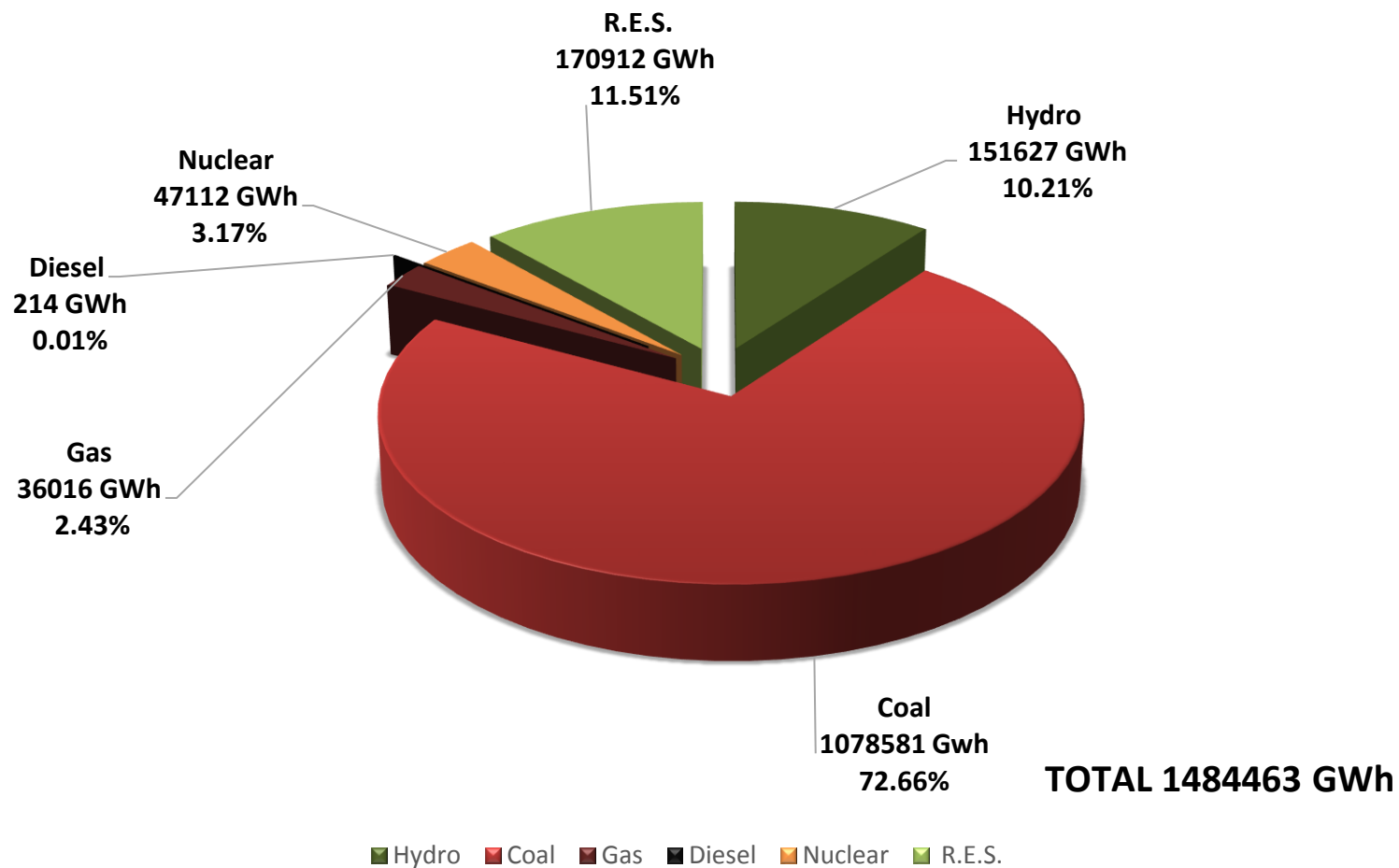
**Pie Chart : 16**



■ Hydro ■ Coal ■ Gas ■ Diesel ■ Nuclear ■ R.E.S.

**Gross Electricity Generation in India  
Mode-wise -Utilities  
2021-22**

**Pie Chart : 16A**

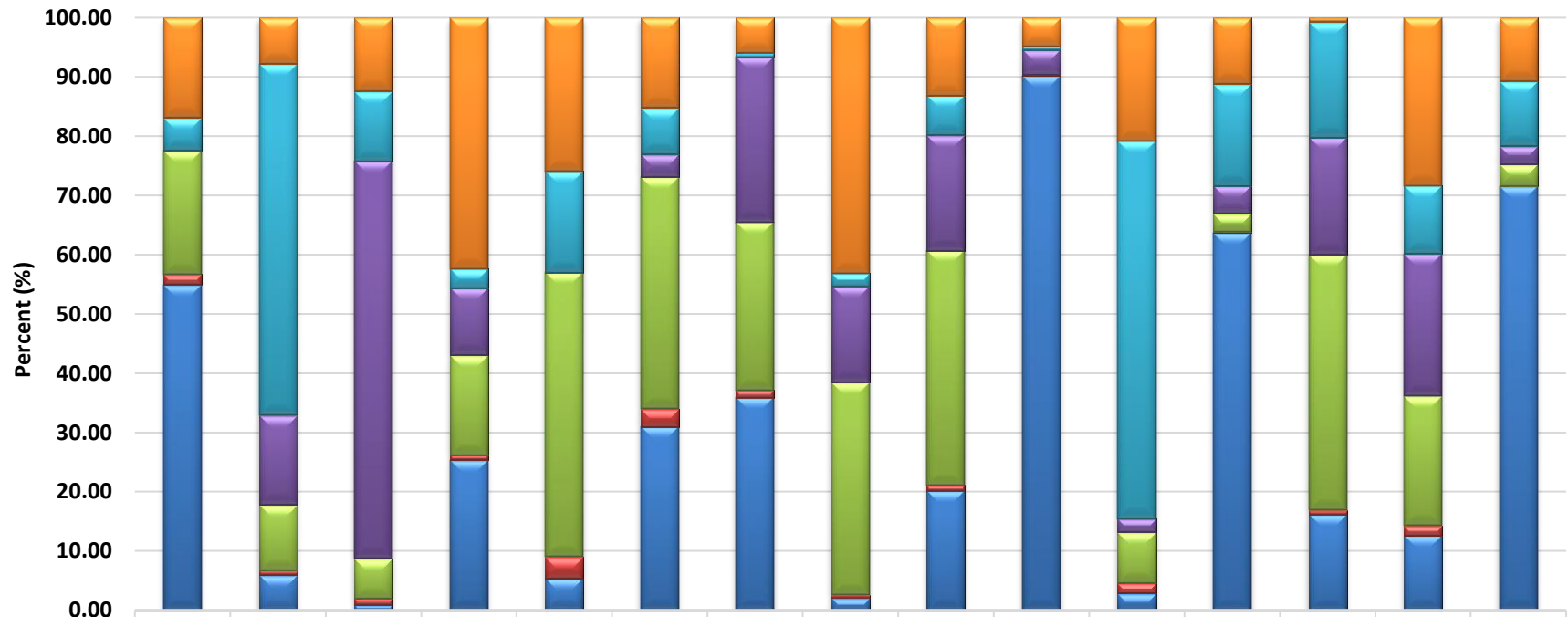






**Mode-wise % Share in Electricity Generation in various Countries in 2020**

**Chart : 18**



	Australia	Canada	France	Germany	Italy	Japan	Korea	United Kingdom	United States	South Africa	Brazil	People's Republic of China	Russian Federation	European Union - 28	India
Others	16.91	7.83	12.43	42.39	25.94	15.24	5.99	43.15	13.10	4.82	20.78	11.25	0.67	28.38	10.72
Hydro	5.58	59.30	11.77	3.24	17.07	7.81	0.67	2.18	6.77	0.62	63.80	17.09	19.54	11.51	10.95
Nuclear	0.00	15.07	67.10	11.37	0.00	3.84	27.84	16.23	19.42	4.22	2.26	4.74	19.83	23.92	3.13
Gas	20.85	11.10	6.70	16.82	47.99	39.13	28.34	35.96	39.64	0.00	8.61	3.04	43.09	21.89	3.71
Oil	1.70	0.77	1.06	0.86	3.60	3.06	1.27	0.39	0.88	0.14	1.73	0.15	0.68	1.68	0.02
Coal	54.96	5.93	0.94	25.32	5.40	30.92	35.89	2.08	20.19	90.21	2.82	63.73	16.19	12.62	71.47

Source : - International Energy Agency ( IEA) except India.

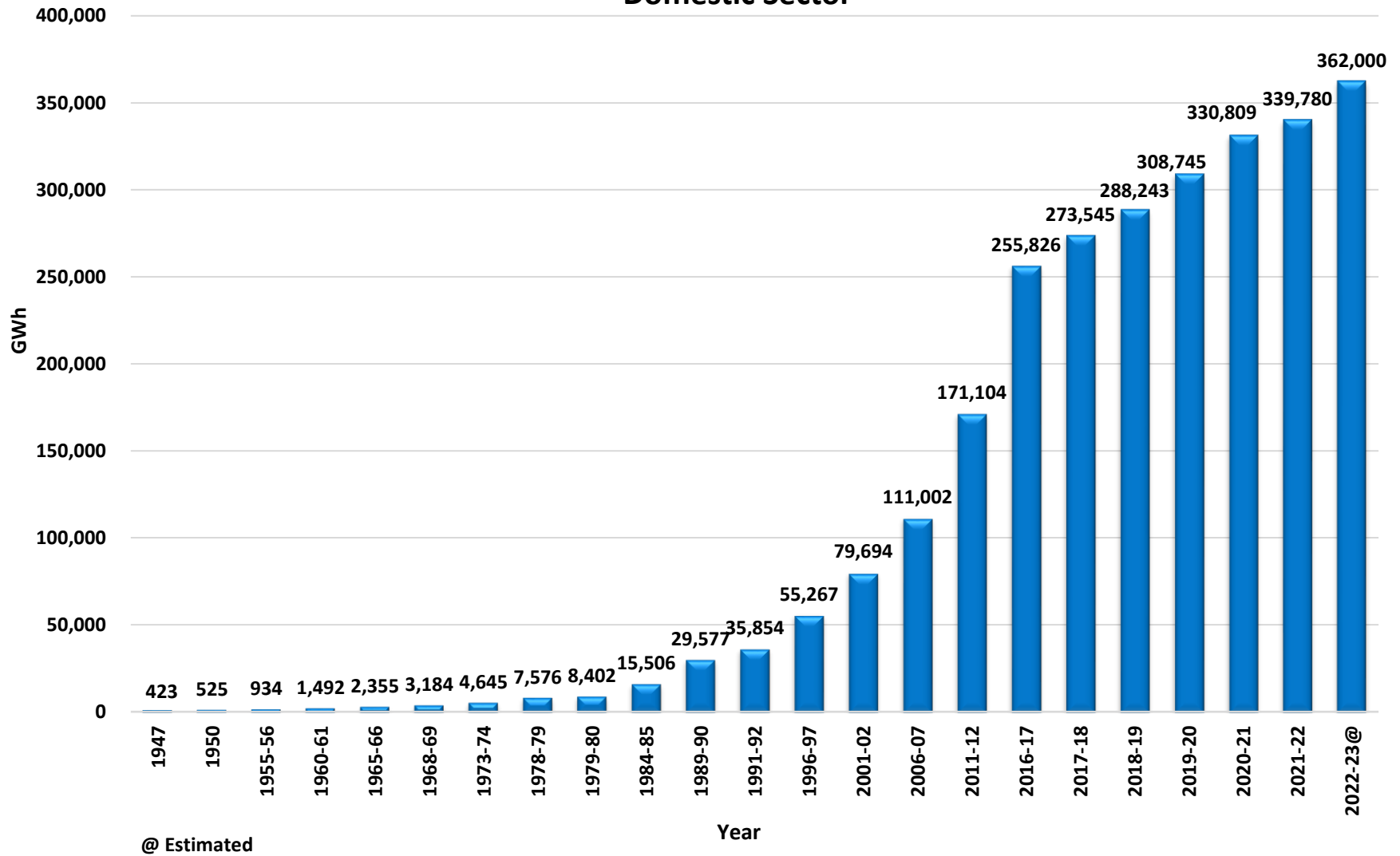
**Table: 4**  
**Plan-wise / Category-wise Growth of Electricity Consumption in India**  
**(Utilities & Non- Utilities)**

Sl. No.	During financial year ending with	Domestic	% to Total	Commercial	% to Total	Industrial	% to Total	Traction	% to Total	Agriculture	% to Total	Misc.	% to Total	Total
1	1947	423	10.11	178	4.26	2,960	70.78	277	6.62	125	2.99	219	5.24	4,182
2	1950	525	9.36	309	5.51	4,057	72.32	308	5.49	162	2.89	249	4.44	5,610
3	1955-56 (End of the 1st Plan)	934	9.20	546	5.38	7,514	74.03	405	3.99	316	3.11	435	4.29	10,150
4	1960-61 (End of the 2nd Plan)	1,492	8.88	848	5.05	12,547	74.67	454	2.70	833	4.96	630	3.75	16,804
5	1965-66(End of the 3rd Plan)	2,355	7.73	1,650	5.42	22,596	74.19	1,057	3.47	1,892	6.21	905	2.97	30,455
6	1968-69(End of the 3 Annual Plans)	3,184	7.69	2,126	5.14	29,931	72.31	1,247	3.01	3,465	8.37	1,439	3.48	41,392
7	1973-74(End of the 4th Plan)	4,645	8.36	2,988	5.38	37,791	68.02	1,531	2.76	6,310	11.36	2,292	4.13	55,557
8	1978-79(End of the 5th Plan)	7,576	9.02	4,330	5.15	54,440	64.81	2,186	2.60	12,028	14.32	3,445	4.10	84,005
9	1979-80(End of the 2 Annual Plans)	8,402	9.85	4,657	5.46	53,206	62.35	2,301	2.70	13,452	15.76	3,316	3.89	85,334
10	1984-85 (End of the 6th Plan)	15,506	12.45	6,937	5.57	73,520	59.02	2,880	2.31	20,961	16.83	4,765	3.83	124,569
11	1989-90 (End of the 7th Plan)	29,577	15.16	9,548	4.89	100,373	51.45	4,070	2.09	44,056	22.58	7,474	3.83	195,098
12	1991-92(End of the 2 Annual Plans)	35,854	15.51	12,032	5.20	110,844	47.94	4,520	1.96	58,557	25.33	9,394	4.06	231,201
13	1996-97(End of the 8th Plan)	55,267	17.53	17,519	5.56	139,253	44.17	6,594	2.09	84,019	26.65	12,642	4.01	315,294
14	2001-02(End of the 9th Plan)	79,694	21.27	24,139	6.44	159,507	42.57	8,106	2.16	81,673	21.80	21,551	5.75	374,670
15	2006-07(End of 10th Plan )	111,002	21.12	40,220	7.65	241,216	45.89	10,800	2.05	99,023	18.84	23,411	4.45	525,672
16	2011-12 (End of 11th Plan)	171,104	21.79	65,381	8.33	352,291	44.87	14,206	1.81	140,960	17.95	41,252	5.25	785,194
17	2016-17 (End of 12th Plan)	255,826	24.11	89,825	8.46	440,206	41.48	15,683	1.48	191,151	18.01	68,493	6.45	1,061,183
18	2017-18	273,545	24.35	93,755	8.35	468,613	41.71	17,433	1.55	199,247	17.74	70,834	6.31	1,123,427
19	2018-19	288,243	23.82	98,228	8.12	519,196	42.91	18,837	1.56	213,409	17.64	72,058	5.96	1,209,972
20	2019-20	308,745	24.74	106,047	8.50	532,820	42.69	19,148	1.53	211,295	16.93	70,031	5.61	1,248,086
21	2020-21	330,809	26.89	86,950	7.07	508,776	41.36	14,668	1.19	221,303	17.99	67,701	5.50	1,230,208
22	2021-22	339,780	25.80	97,121	7.38	556,481	42.26	21,935	1.67	228,451	17.35	72,996	5.54	1,316,765
23	2022-23 @	362,000	25.79	105,100	7.49	595,000	42.40	25,000	1.78	240,800	17.16	75,500	5.38	1,403,400

(@) Estimated

# Plan-wise Growth of Electricity Consumption in India Domestic Sector

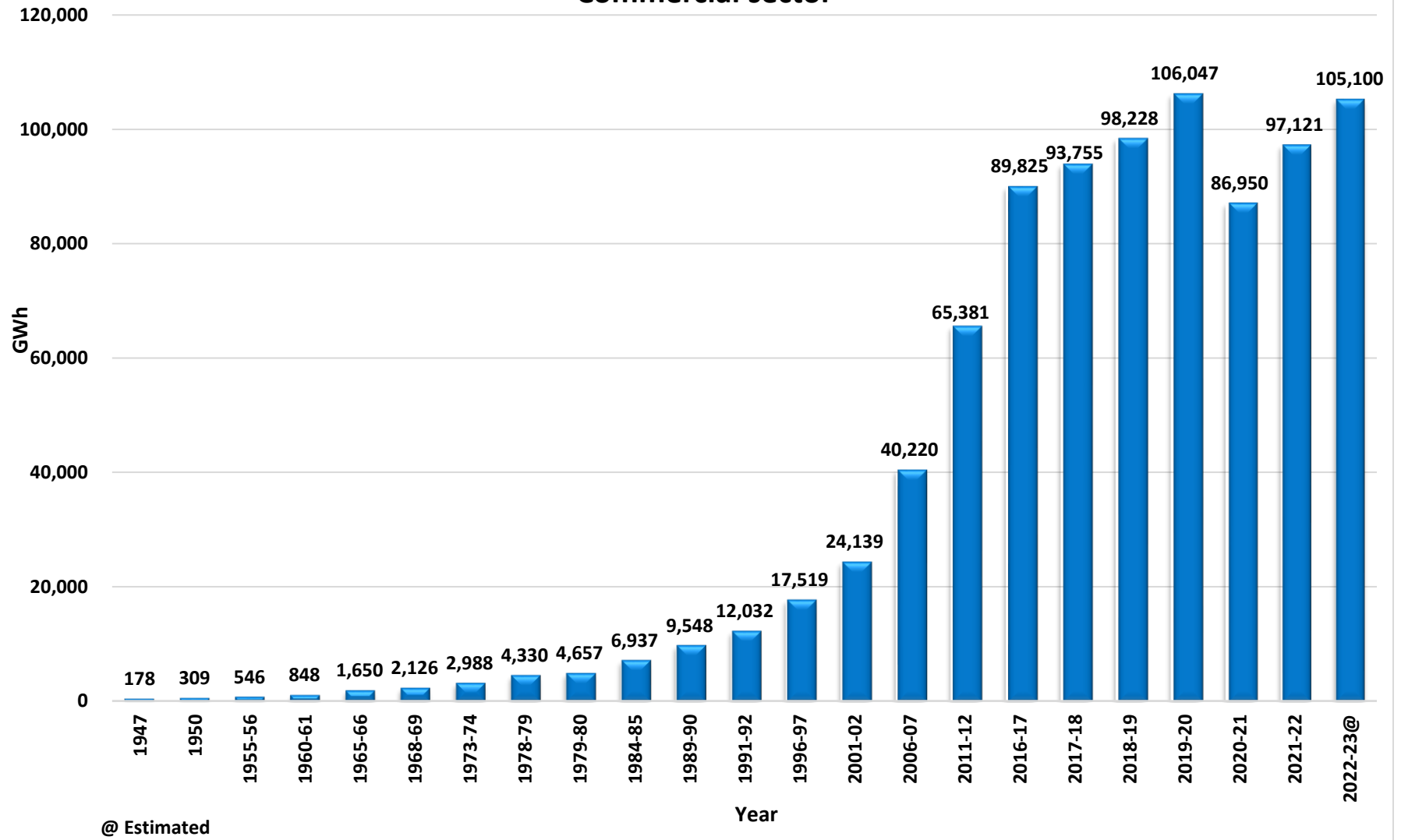
Chart : 19



# Plan-wise Growth of Electricity Consumption in India

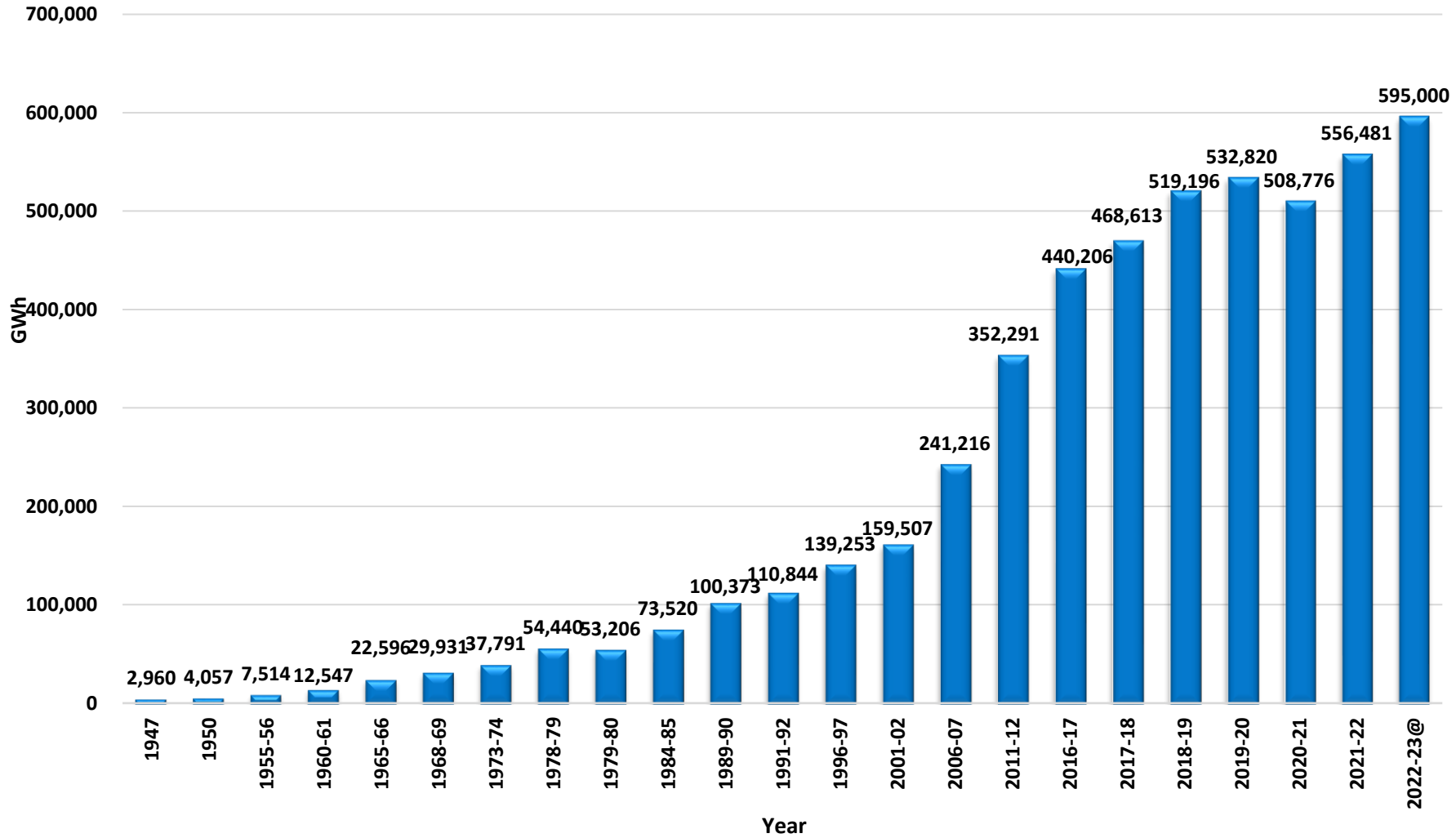
## Commercial sector

Chart : 20



# Plan-wise Growth of Electricity Consumption in India Industrial sector

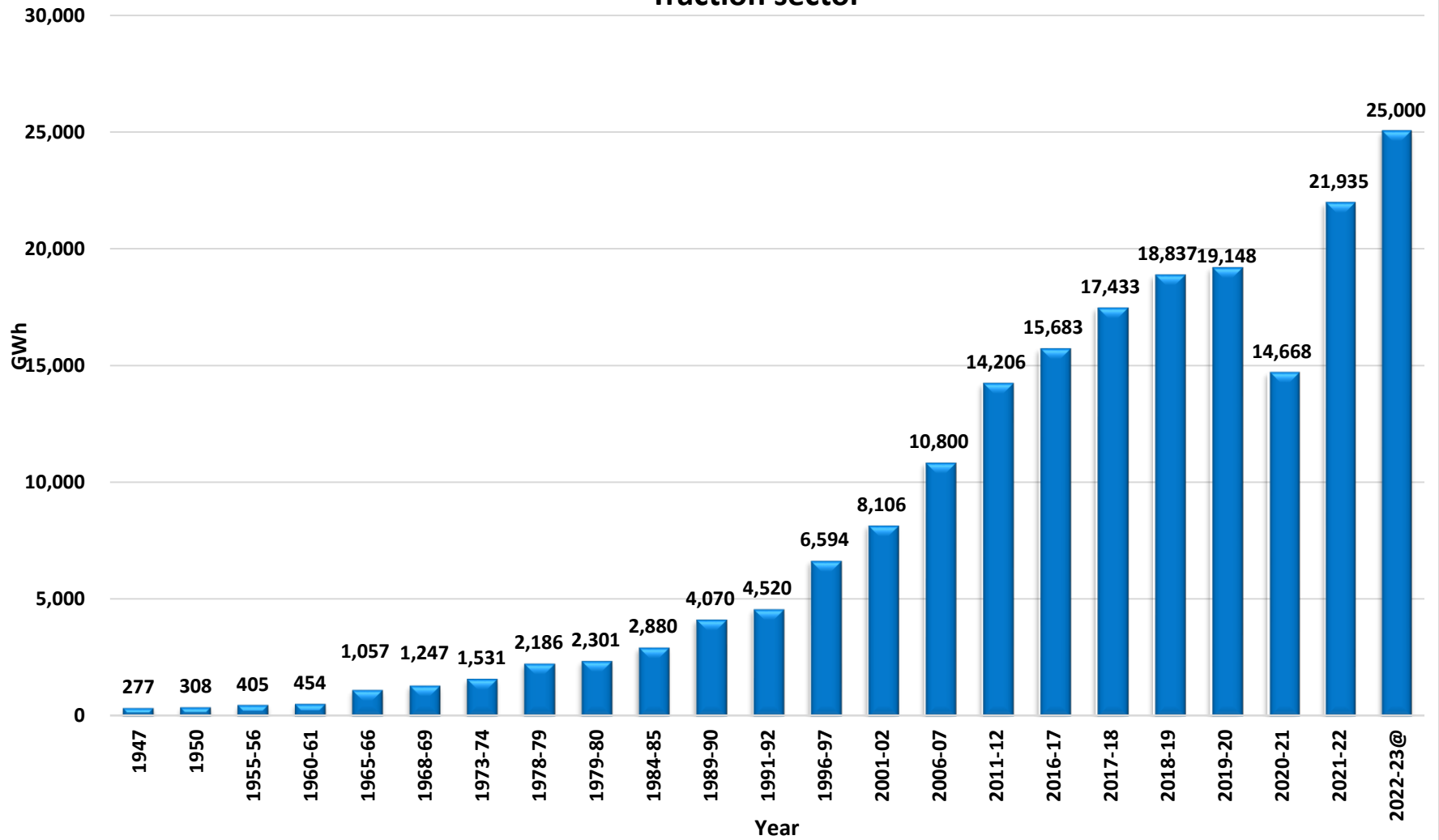
Chart : 21



@ Estimated

# Plan-wise Growth of Electricity Consumption in India Traction sector

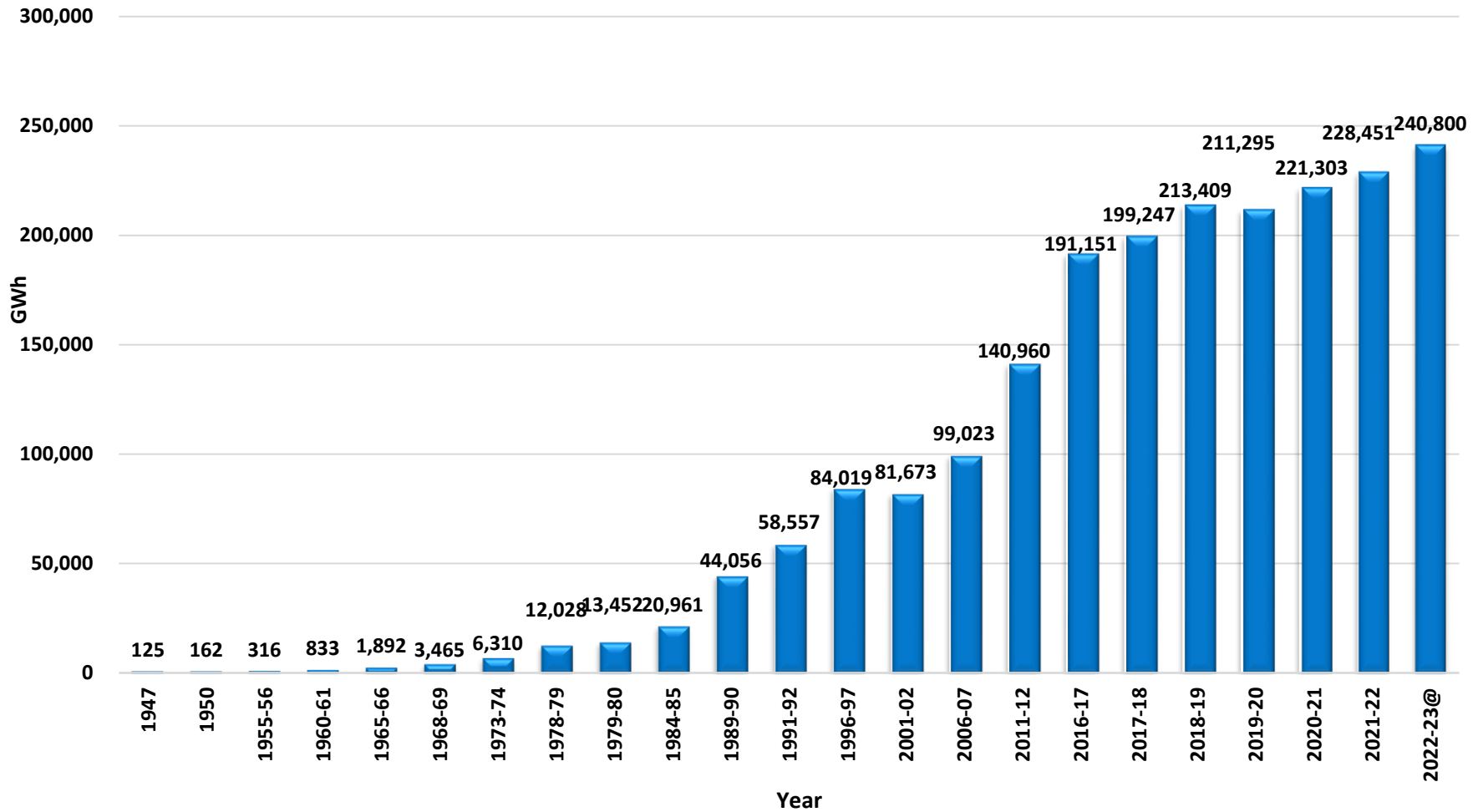
Chart : 22



@ Estimated

# Plan-wise Growth of Electricity Consumption in India Agriculture sector

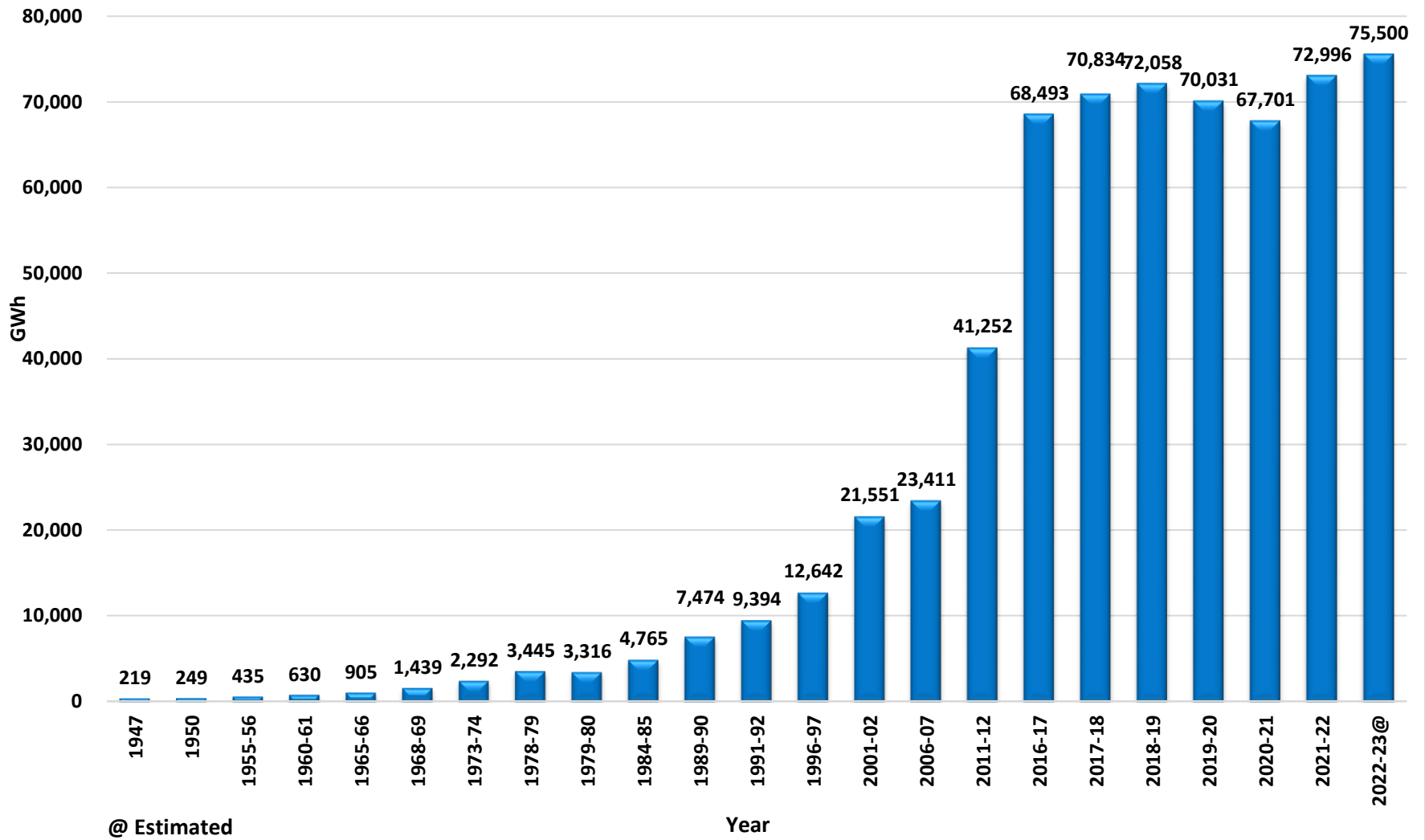
Chart : 23



@ Estimated

# Plan-wise Growth of Electricity Consumption in India Miscellaneous sector

Chart : 24

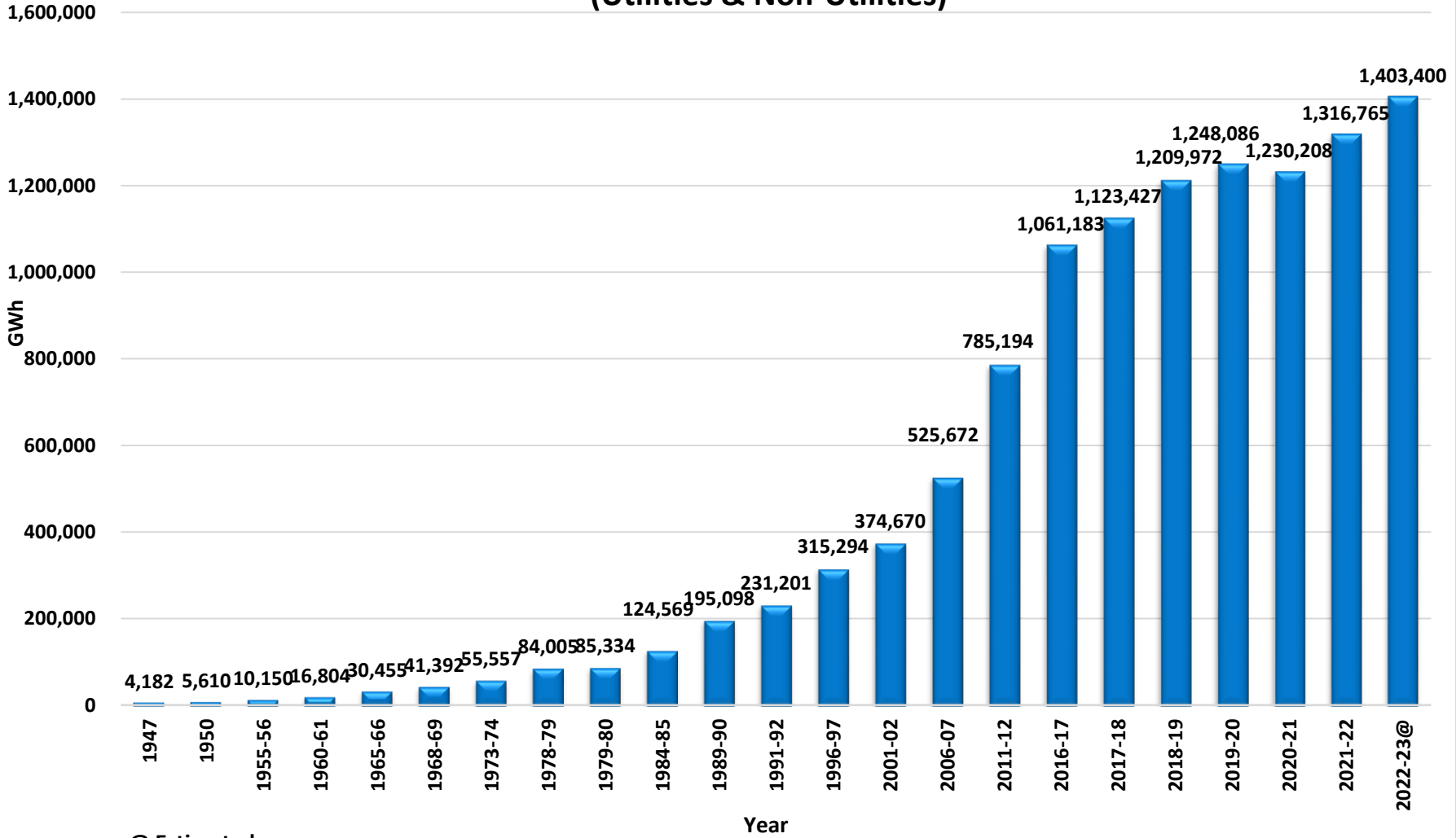


@ Estimated



# Plan-wise Growth of All India Total Electricity Consumption (Utilities & Non-Utilities)

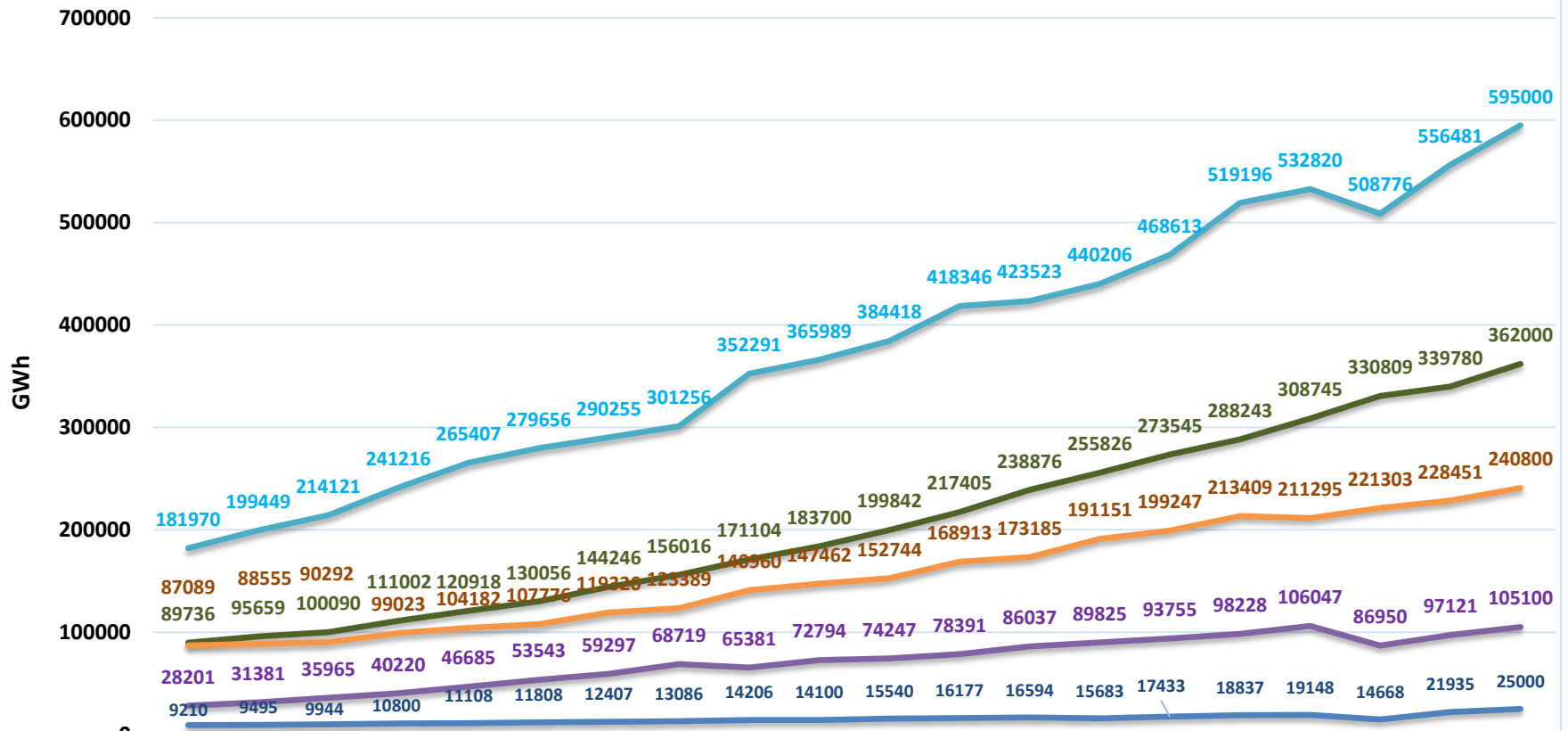
Chart : 25



@ Estimated

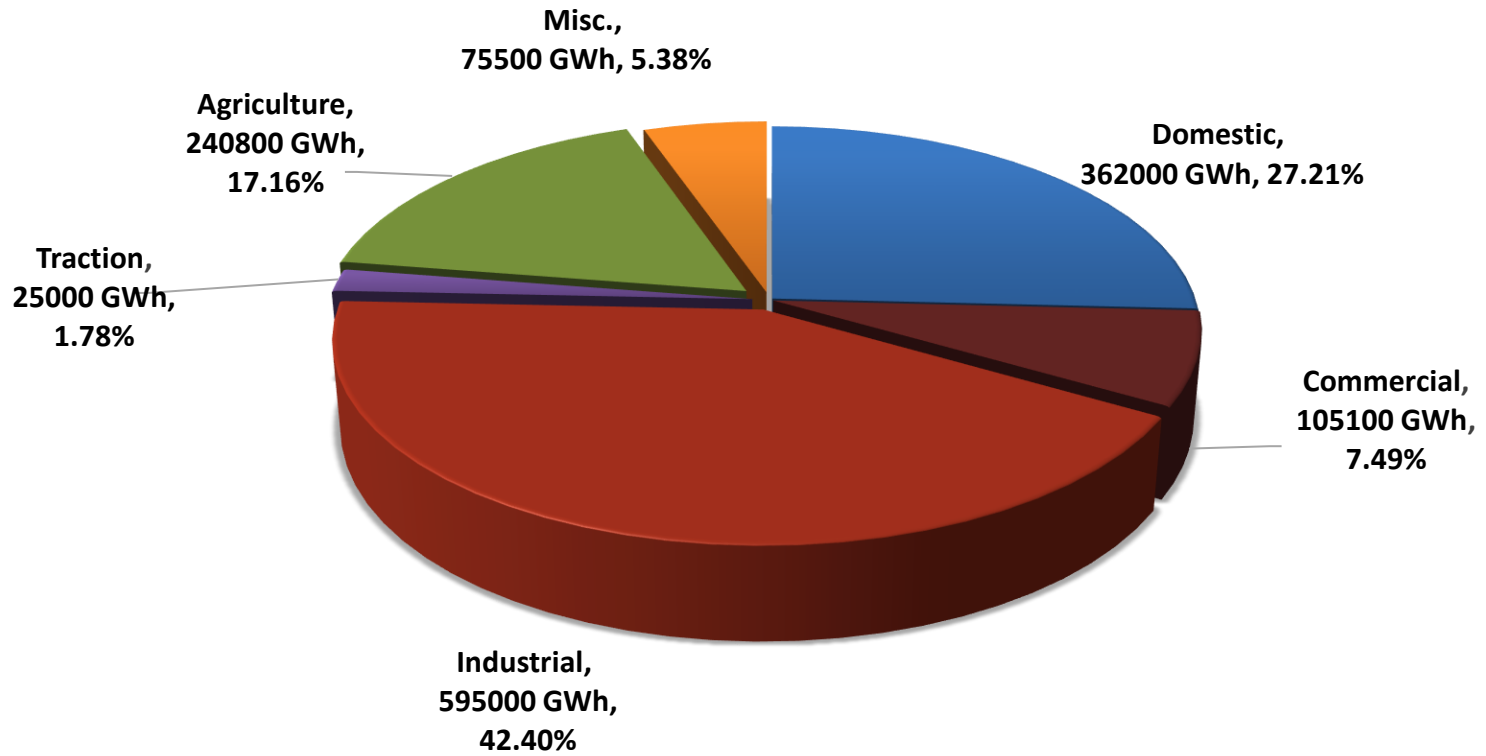
## Trend of Category-wise Energy Consumption 2003-04 TO 2022-23

Chart : 25A



	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
Domestic	87089	88555	90292	111002	120918	130056	144246	156016	171104	183700	199842	217405	238876	255826	273545	288243	308745	330809	339780	362000
Commercial	28201	31381	35965	40220	46685	53543	59297	68719	65381	72794	74247	78391	86037	89825	93755	98228	106047	86950	97121	105100
Industrial	181970	199449	214121	241216	265407	279656	290255	301256	352291	365989	384418	418346	423523	440206	468613	519196	532820	508776	556481	595000
Agriculture	87089	88555	90292	99023	104182	107776	119320	123389	140960	147462	152744	168913	173185	191151	199247	213409	211295	221303	228451	240800
Traction	9210	9495	9944	10800	11108	11808	12407	13086	14206	14100	15540	16177	16594	15683	17433	18837	19148	14668	21935	25000

### All India Electricity Consumption Sector-wise (Utilities & Non- Utilities) 2022-23@

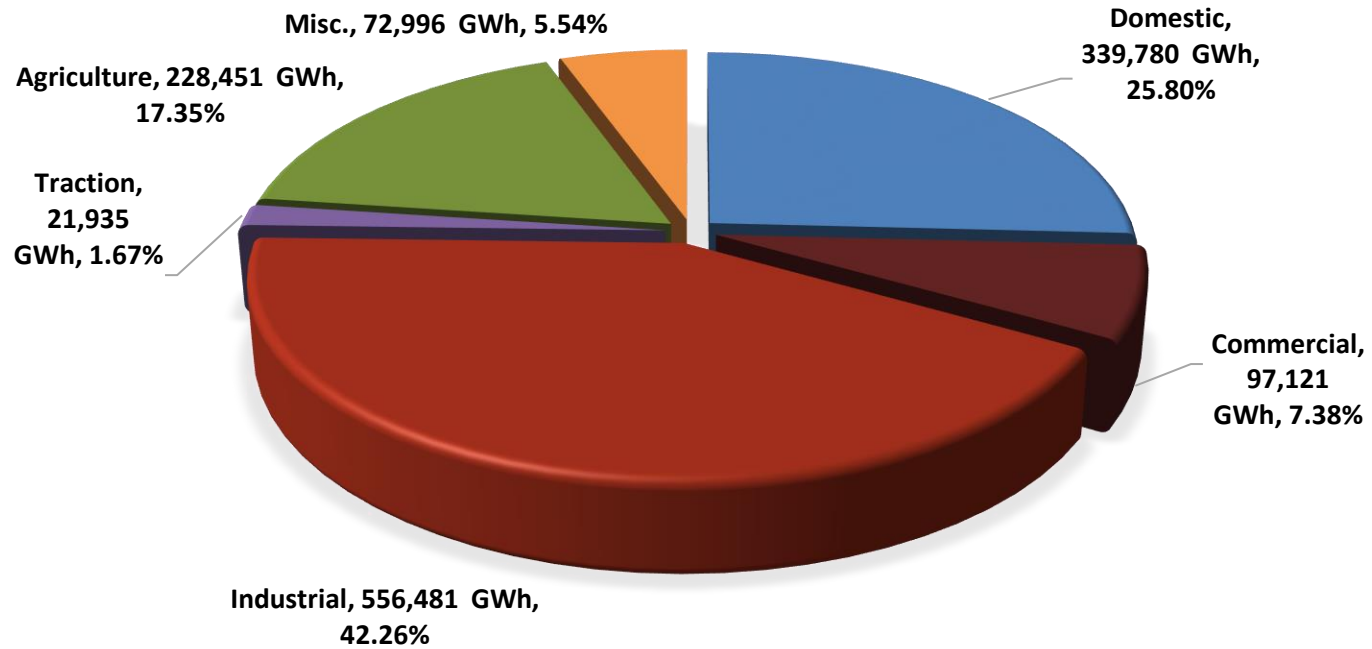


**TOTAL = 1403400 GWh**

@ Estimated

■ Domestic ■ Commercial ■ Industrial ■ Traction ■ Agriculture ■ Misc.

### All India Electricity Consumption Sector-wise Utilities & Non-Utilities 2021-22

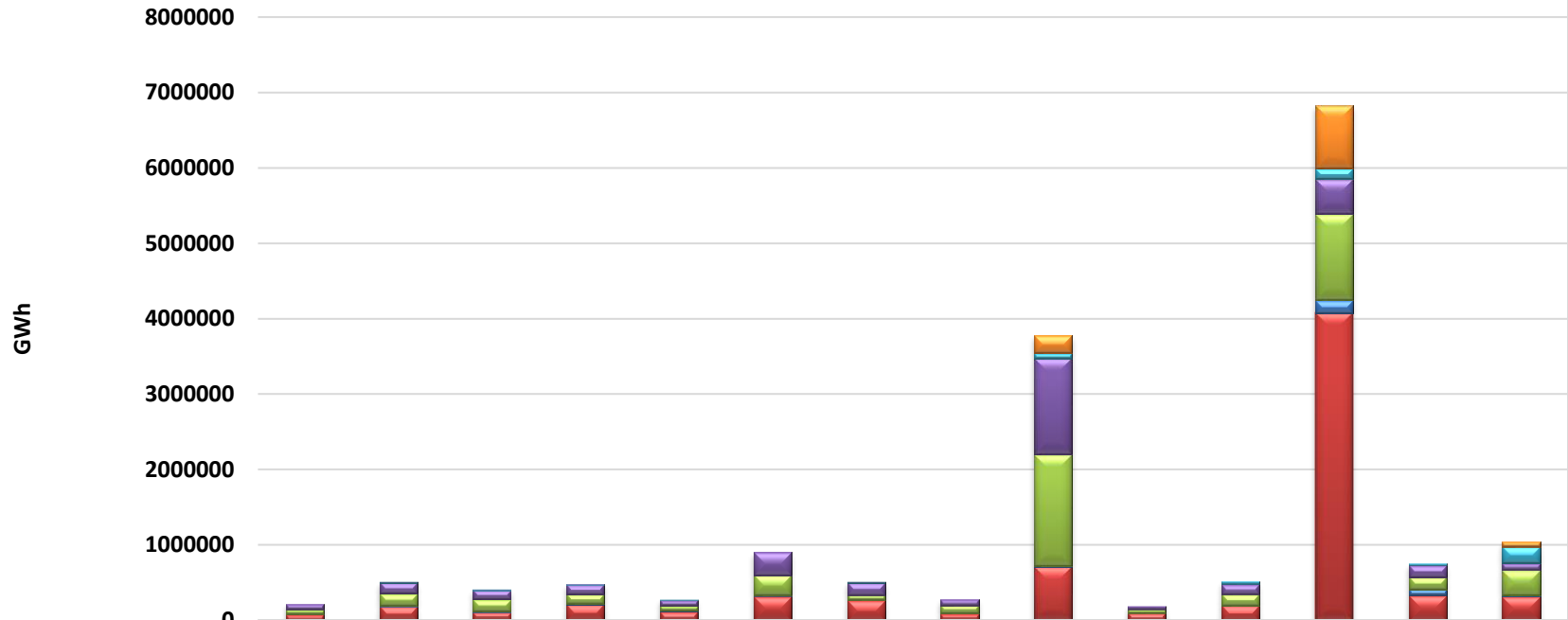


**TOTAL = 1316765 GWh**

■ Domestic ■ Commercial ■ Industrial ■ Traction ■ Agriculture ■ Misc.

Chart : 27

### Category-wise Electricity Consumption in various Countries -2020

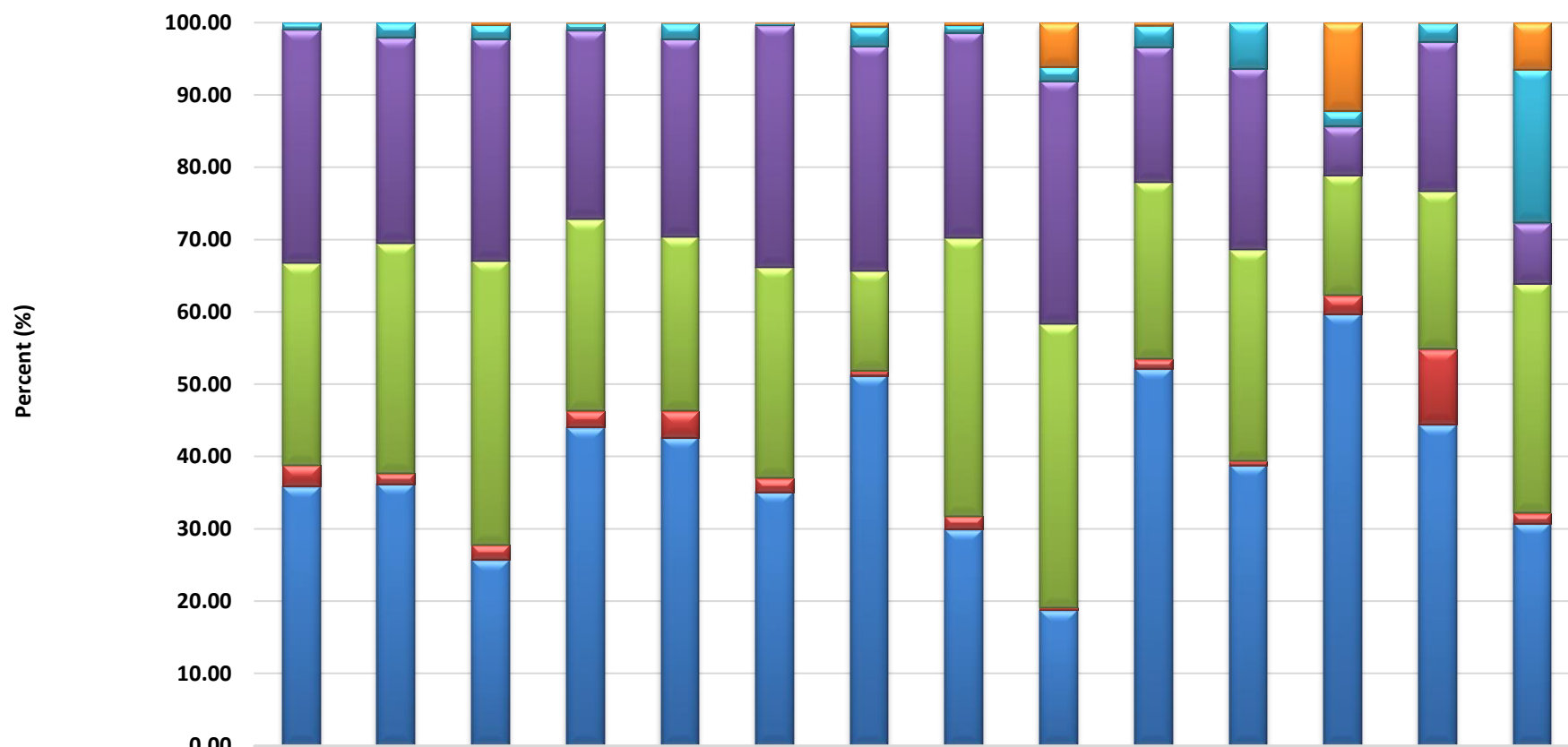


	Australia	Canada	France	Germany	Italy	Japan	Korea	United Kingdom	United States	South Africa	Brazil	People's Republic of China	Russian Federation	India
Non-specified (other)	0	0	1331.012	73	163	421	2984	1006	232356	713	0	835748	305	67701
Agriculture/forestry	2033	10557	7906	5130	6147	2878	13838	3019	73487	5701	32525	142211	19434	221303
Commercial and public services	70132	144625	126483	125353	75259	304068	159346	79700	1270589	35343	127619	460541	155914	86950
Residential	60489	161499	161499	127032	66212	264563	70880	107847	1480810	46350	148845	1139648	163424	330809
Transport	6388	7569	8338	11137	10114	17304	3271	5014	10248	2380	2790	174030	77401	14668
Industry	77643	183720	105803	211089	117305	318169	262376	83904	710300	98659	197545	4076017	333135	320224

Source: - International Energy Agency (IEA) except India

Chart : 28

Category-wise % Shares in Electricity Consumption in various Countries -2020



	Australia	Canada	France	Germany	Italy	Japan	Korea	United Kingdom	United States	South Africa	Brazil	People's Republic of China	Russian Federation	India
Non-specified (other)	0.00	0.00	0.32	0.02	0.06	0.05	0.58	0.36	6.15	0.38	0.00	12.24	0.04	6.50
Agriculture/forestry	0.94	2.08	1.92	1.07	2.23	0.32	2.70	1.08	1.95	3.01	6.39	2.08	2.59	21.25
Commercial and public services	32.37	28.47	30.75	26.13	27.35	33.51	31.08	28.41	33.63	18.69	25.06	6.74	20.80	8.35
Residential	27.92	31.79	39.26	26.48	24.06	29.16	13.82	38.45	39.20	24.50	29.22	16.69	21.80	31.76
Transport	2.95	1.49	2.03	2.32	3.68	1.91	0.64	1.79	0.27	1.26	0.55	2.55	10.33	1.41
Industry	35.83	36.17	25.72	43.99	42.63	35.06	51.18	29.91	18.80	52.16	38.79	59.69	44.44	30.74

Source: - International Energy Agency (IEA) except India

**Table 5**  
**Per Capita Electricity Consumption and T&D Losses**  
**of various Countries in 2019 & 2020**

Sl. No.	Per Capita Consumption (kWh)			Sl. No.	T & D Losses (%)		
	Name of the Country	2019	2020		Name of the Country	2019	2020
1	Canada	15,018	14,760	1	Korea	3.63	3.63
2	USA	12,744	12,450	2	Japan	4.75	5.10
3	Australia	9,897	9,890	3	Germany	5.50	5.39
4	Japan	7,935	7,730	4	Italy	6.10	6.31
5	France	7,043	6,630	5	Australia	6.05	5.16
6	Germany	6,606	6,330	6	South Africa	12.24	13.69
7	Korea	10,878	10,810	7	France	8.82	8.73
8	UK	4,750	4,510	8	China	5.11	4.74
9	Russia	6,954	6,590	9	USA	6.37	5.24
10	Italy	5,207	4,970	10	Canada	6.38	6.29
11	South Africa	3,835	3,540	11	UK	9.05	9.38
12	Brazil	2,585	2,540	12	Russia	13.11	12.75
13	China	5,119	5,260	13	Brazil	20.56	20.76
14	India*	1,208	1,161	14	India	20.46	20.73
15	World	3,265	3,210	15	World	8.81	7.53

Note :-

Basic data obtained from IEA Website (except) India.

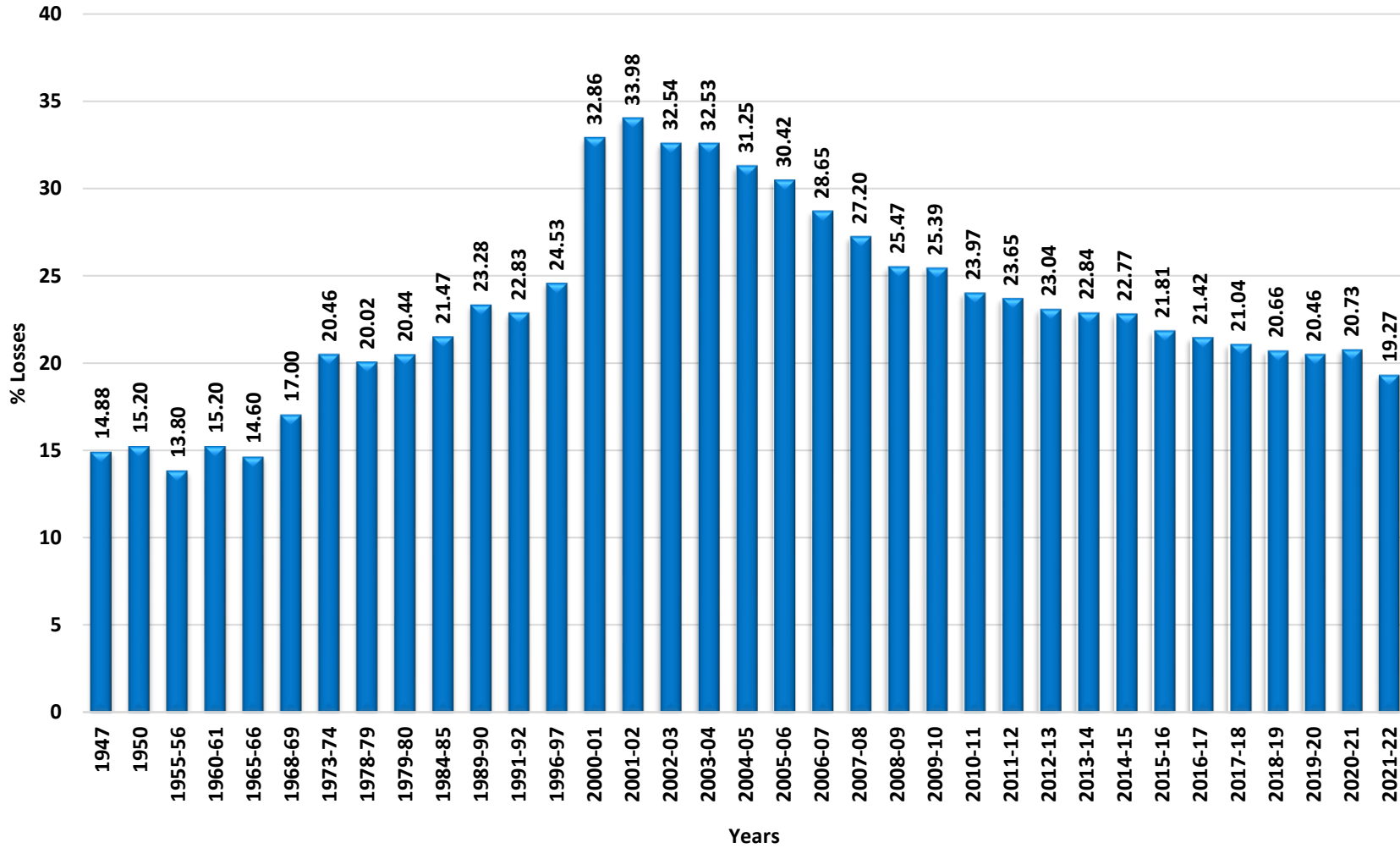
\* Per Capita Consumption= (Gross Electrical Energy Availability/Midyear Population).

Per Capita Consumption of India during the year 2021-22 & 2022-23 is 1255 & 1327 respectively.

T&D Losses of India during the year 2021-22 is 19.27%

# All India Transmission and Distribution Losses (%)

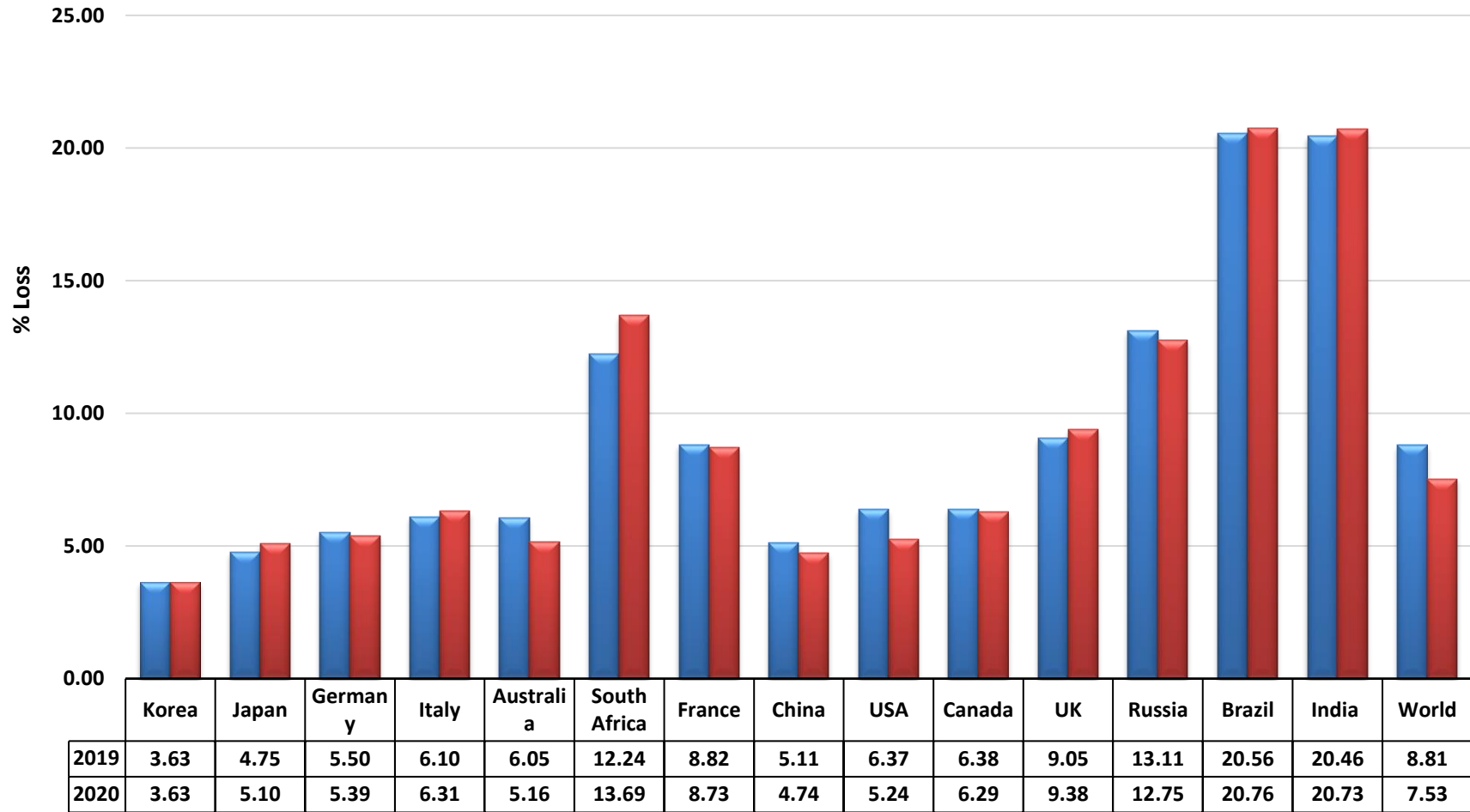
Chart : 29





T & D Losses of Various Countries in 2019 & 2020(%)

Chart : 30



Source: - International Energy Agency (IEA) (except India)

■ 2019 ■ 2020

**Table 6**  
**Plan-wise Growth of Installed Capacity of Captive Power Plants in Industries having**  
**Demand of 1 MW & Above - Mode-wise**

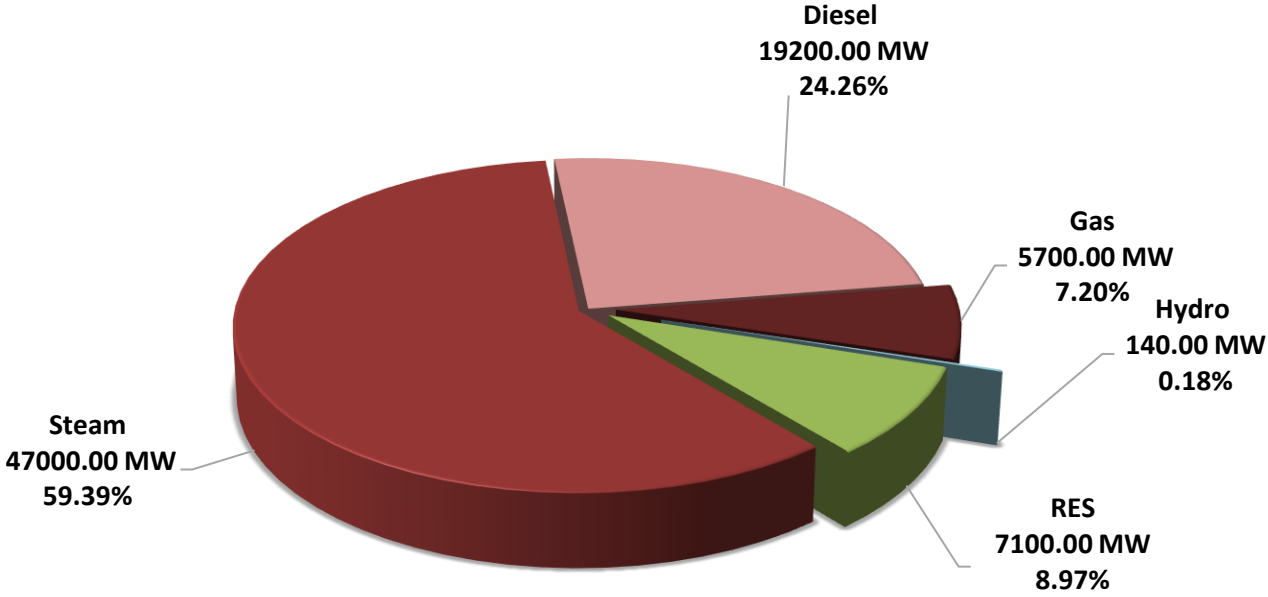
(MW)

Sl. No.	As on	Steam	Diesel	Gas	Hydro	RES	Railways	Total
1	2	3	4	5	6	7	8	9 (3+4+5+6+7+8)
1	31.12.1947	**	**	**	**	**	0.00	410.00
2	31.12.1950	**	**	**	**	**	0.00	587.85
3	31.03.1956 (End of the 1st Plan)	**	**	**	**	**	0.00	759.65
4	31.03.1961 (End of the 2nd Plan)	**	**	**	**	**	0.00	1,001.37
5	31.03.1966(End of the 3rd Plan)	**	**	**	**	**	0.00	1,082.36
6	31.03.1969(End of the 3 Annual Plans)	**	**	**	**	**	0.00	1,277.47
7	31.03.1974(End of the 4th Plan)	**	**	**	**	**	0.00	1,732.70
8	31.03.1979(End of the 5th Plan)	1,949.23	559.17	44.27	2.61	0.00	62.31	2,617.59
9	31.03.1980(End of the 2 Annual Plans)	2,021.61	720.58	54.27	2.61	0.00	60.44	2,859.51
10	31.03.1985 (End of the 6th Plan)	2,803.18	2,077.06	155.31	2.91	0.00	81.80	5,120.26
11	31.03.1990 (End of the 7th Plan)	4,822.85	2,754.48	425.51	3.60	0.00	109.29	8,115.73
12	31.03.1992 (End of the 2 Annual Plans)	5,377.10	3,291.06	495.72	4.30	0.00	133.23	9,301.41
13	31.03.1997(End of the 8th Plan)	6,151.69	4,529.91	1,166.38	3.50	64.83	162.62	12,078.93
14	31.03.2002(End of the 9th Plan)	8,354.03	6,521.95	2,125.91	51.10	92.21	0.00	17,145.20
15	31.03.2007 (End of 10th Plan )	11,397.52	7,723.35	2,976.00	60.50	177.67	0.00	22,335.04
16	31.03.2012(End of 11th Plan)	22,615.39	9,955.23	5,884.95	47.59	872.21	0.00	39,375.37
17	31.03.2017 (End of 12th Plan)	30,571.95	13,349.69	6,109.21	65.29	1,433.06	0.00	51,529.19
18	31.03.2018	32,854.41	13,144.60	7,156.37	50.96	1,726.17	0.00	54,932.51
19	31.03.2019	47,679.04	15,570.97	8,787.13	103.39	3,066.59	0.00	75,207.13
20	31.03.2020	51,542.77	12,774.66	7,315.87	130.77	4,475.29	0.00	76,239.36
21	31.03.2021	47,759.52	17,562.86	7,361.11	130.70	5,693.78	0.00	78,507.97
22	31.03.2022	45,302.73	18,648.78	5,685.25	134.60	6,961.08	0.00	76,732.43
22	31.03.2023 @	47,000.00	19,200.00	5,700.00	140.00	7,100.00	0.00	79,140.00

\*\* Breakup Not Available

@ Estimated

### Installed Generating Capacity of Captive Power Plants in Industries having Demand of 1MW & Above - Mode-wise (As on 31.03.2023)@

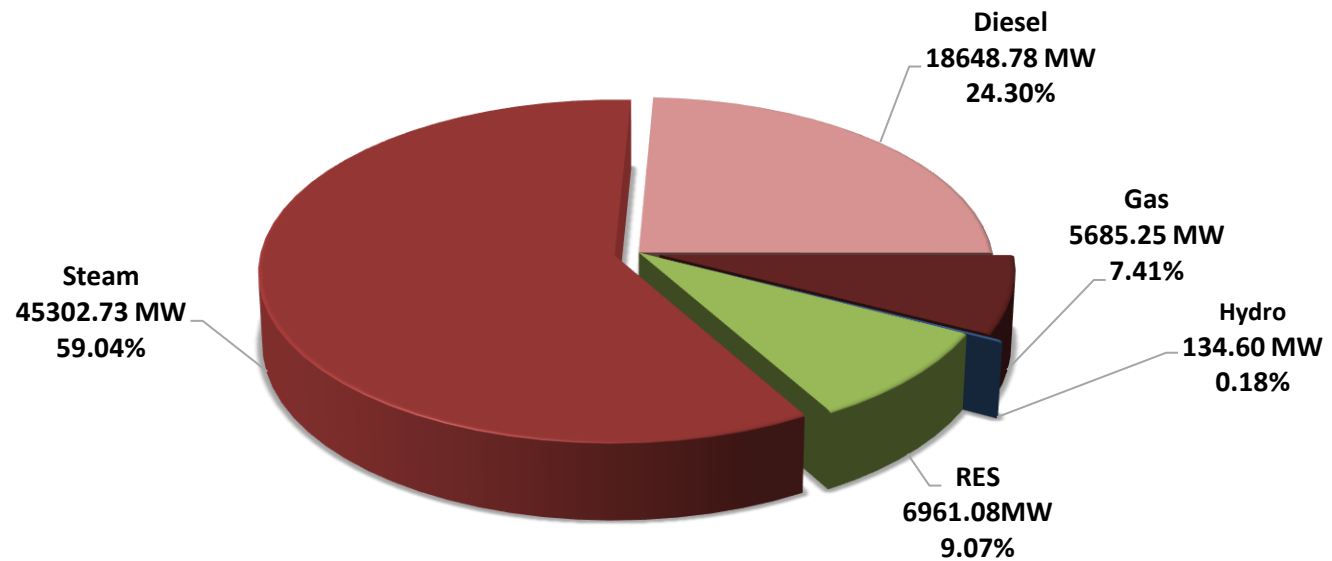


@-Estimated

**TOTAL = 79140 MW**

Steam Diesel Gas Hydro RES

**Installed Generating Capacity of Captive Power Plants in Industries having Demand of 1MW & Above - Mode-wise (As on 31.03.2022)**

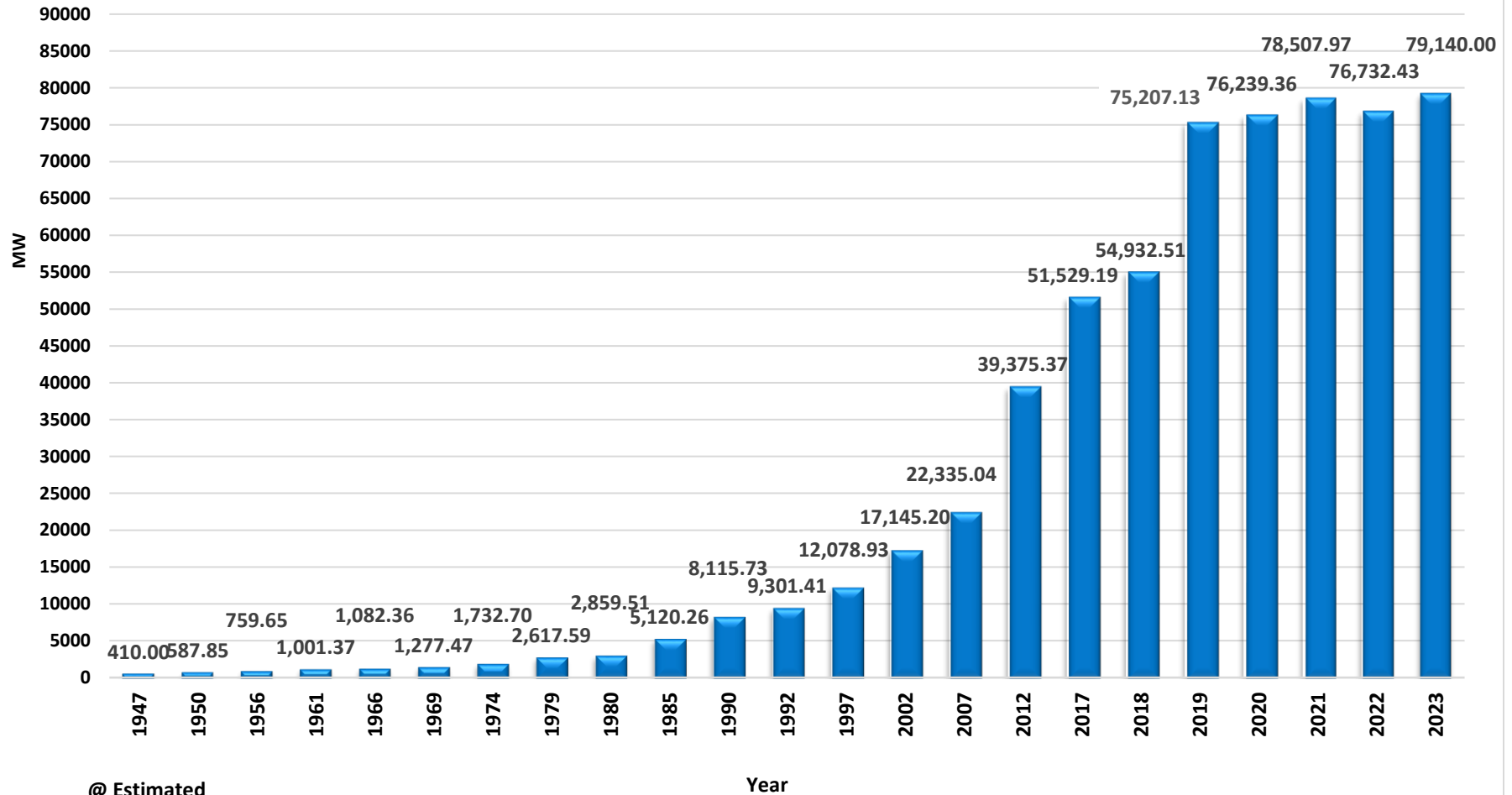


**TOTAL = 76732.43MW**

Steam Diesel Gas Hydro RES

## Plan-wise Growth of All India Installed Generating Capacity of Captive Power Plants in Industries having Demand of 1MW & Above

Chart : 32



Note: 1. Figures for the years 1947 & 1950 are as on 31st December.  
 2. Figures for the year 1955-56 & onward are as on 31st March.

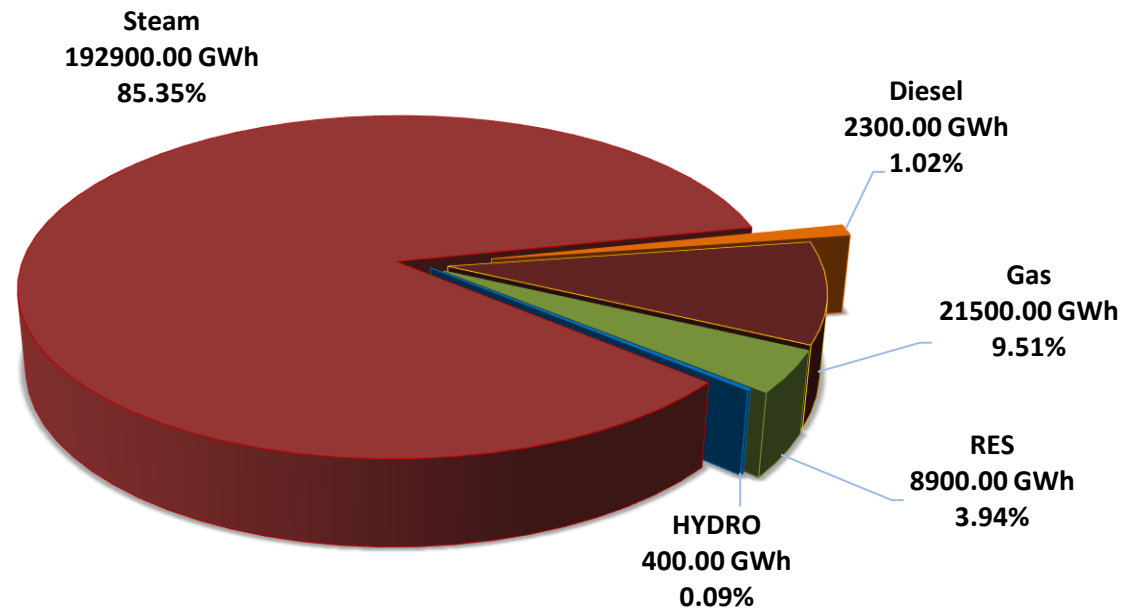
**Table 7**  
**Plan-wise Growth of Energy Generated by Captive Power Plants in Industries**  
**having Demand of 1MW & Above - Mode-wise**

Sl. No.	During financial year ending with	Hydro	Steam	Diesel	Gas	RES	Railways	Total
1	2	3	4	5	6	7	8	9 (3+4+5+6+7+8)
1	1947	**	**	**	**	**	**	856.91
2	1950	**	**	**	**	**	0.00	1,467.81
3	1955-56 (End of the 1st Plan)	**	**	**	**	**	0.00	2,184.82
4	1960-61 (End of the 2nd Plan)	**	**	**	**	**	0.00	3,186.10
5	1965-66(End of the 3rd Plan)	**	**	**	**	**	0.00	3,733.19
6	1968-69(End of the 3 Annual Plans)	**	**	**	**	**	0.00	4,136.06
7	1973-74(End of the 4th Plan)	**	**	**	**	**	0.00	6,067.47
8	1978-79(End of the 5th Plan)	13.22	7,211.30	299.13	48.97	0.00	34.47	7,607.09
9	1979-80(End of the 2 Annual Plans)	15.06	7,225.60	825.71	90.67	0.00	35.67	8,192.71
10	1984-85 (End of the 6th Plan)	18.29	9,966.55	2,001.18	317.03	0.00	42.80	12,345.85
11	1989-90 (End of the 7th Plan)	15.83	19,110.46	2,757.27	1,313.29	0.00	29.07	23,225.92
12	1991-92(End of the 2 Annual Plans)	17.57	23,409.35	3,247.81	1,905.24	0.00	22.52	28,602.49
13	1996-97(End of the 8th Plan)	28.84	29,127.94	6,573.38	5,039.22	45.63	25.07	40,840.08
14	2001-02(End of the 9th Plan)	116.59	41,853.85	10,719.66	8,835.19	155.53	0.00	61,680.82
15	2006-07(End of 10th Plan )	217.81	56,184.04	9,974.85	15,207.17	215.88	0.00	81,799.75
16	2011-12 (End of 11th Plan)	131.28	104,862.65	6,244.32	21,971.57	1,178.17	0.00	134,387.99
17	2016-17 (End of 12th Plan)	143.64	137,588.31	9,181.74	22,855.31	2,277.02	0.00	172,046.03
18	2017-18	112.48	143,867.68	8,106.89	25,362.17	2,328.17	0.00	179,777.39
19	2018-19	270.04	184,250.36	5,334.32	19,545.09	3,673.92	0.00	213,073.73
20	2019-20	348.04	205,545.78	1,919.32	25,443.15	6,310.47	0.00	239,566.76
21	2020-21	339.12	193,142.60	2,504.19	21,683.55	7,157.94	0.00	224,827.40
22	2021-22	356.66	179,235.45	2,104.51	20,801.17	6,812.98	0.00	209,310.77
23	2022-23 @	400.00	192,900.00	2,300.00	21,500.00	8,900.00	0.00	226,000.00

\*\* Breakup Not Available

@ Estimated

**All India Electrical Energy Generated by Captive Power Plants in Industries** Pie Chart : 33  
**having Demand of 1MW and Above - Mode-wise**  
**2022-23 @**

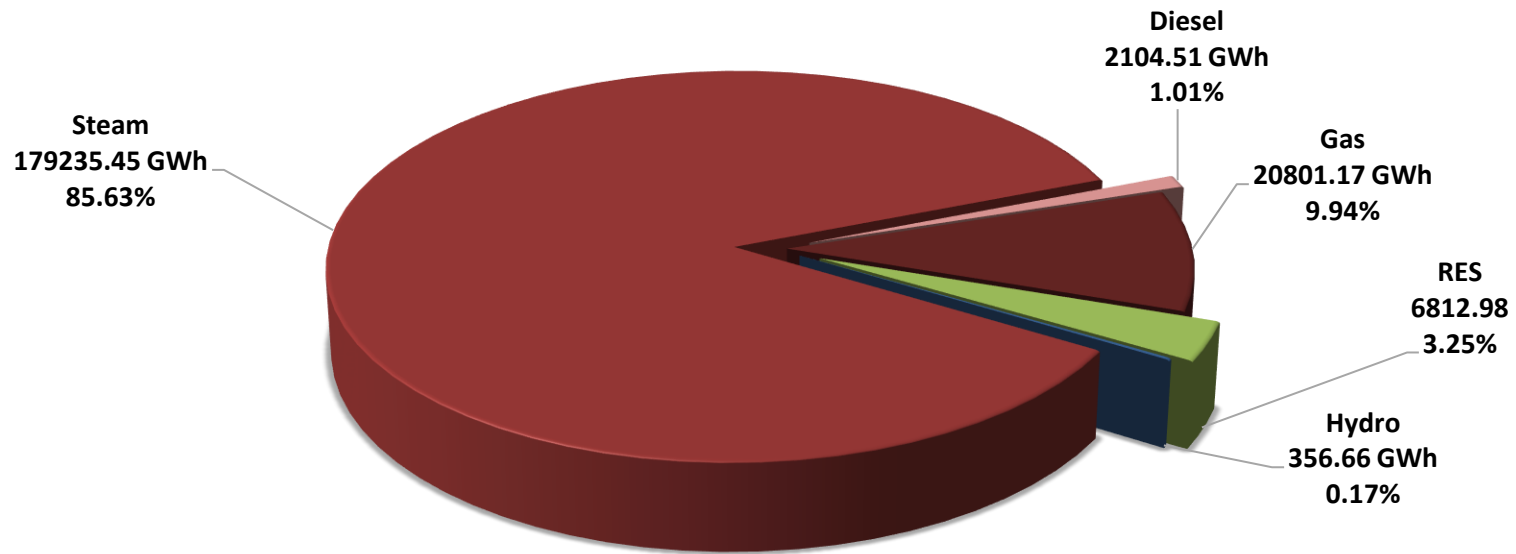


@ Estimated

**Total = 226000 GWh**

■ Hydro ■ Steam ■ Diesel ■ Gas ■ RES

**All India Electrical Energy Generated by Captive Power Plants in Industries  
having Demand of 1MW and Above - Mode- wise  
2021-22** **Pie Chart : 33A**



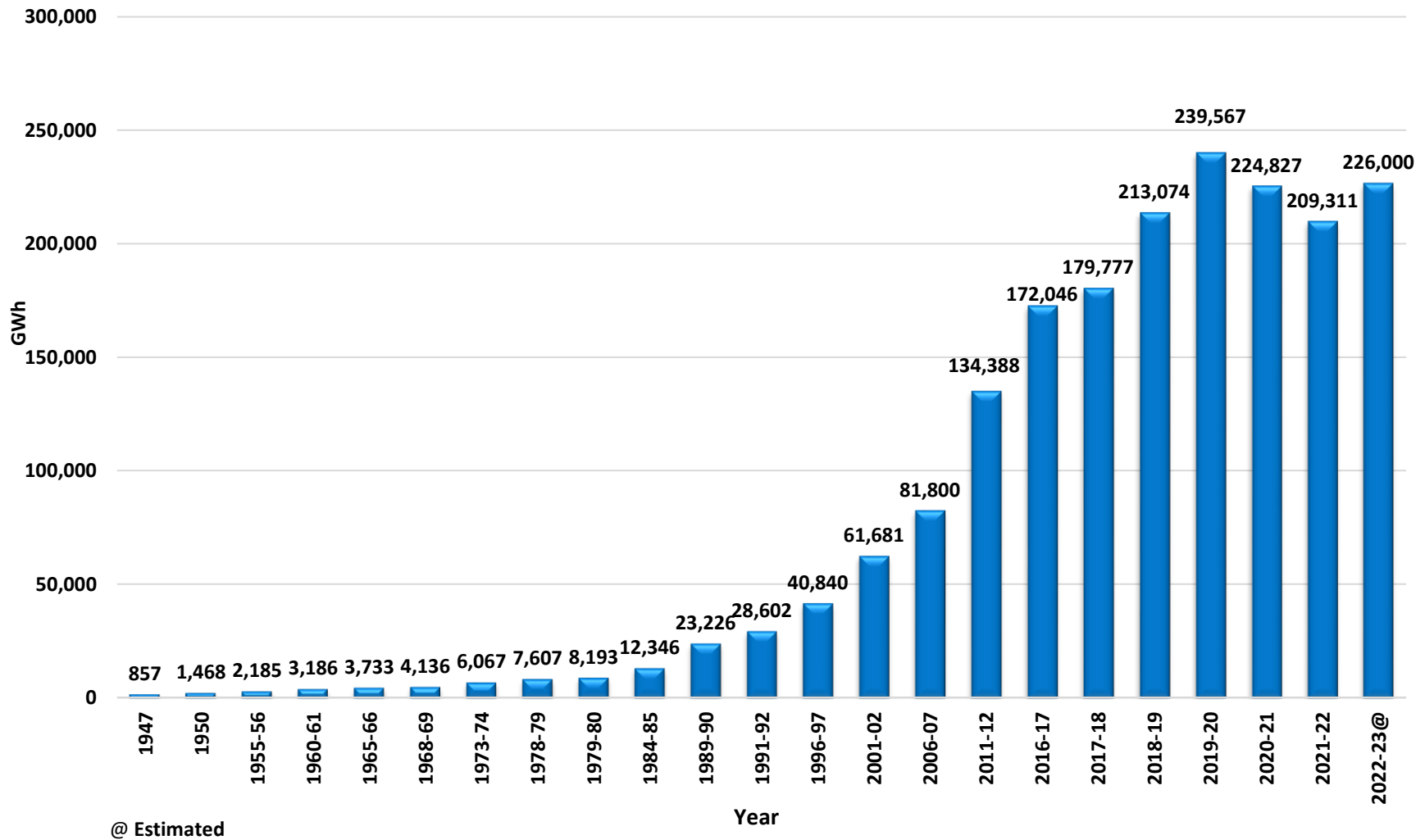
**Total = 209310.77GWh**

Hydro Steam Diesel Gas RES



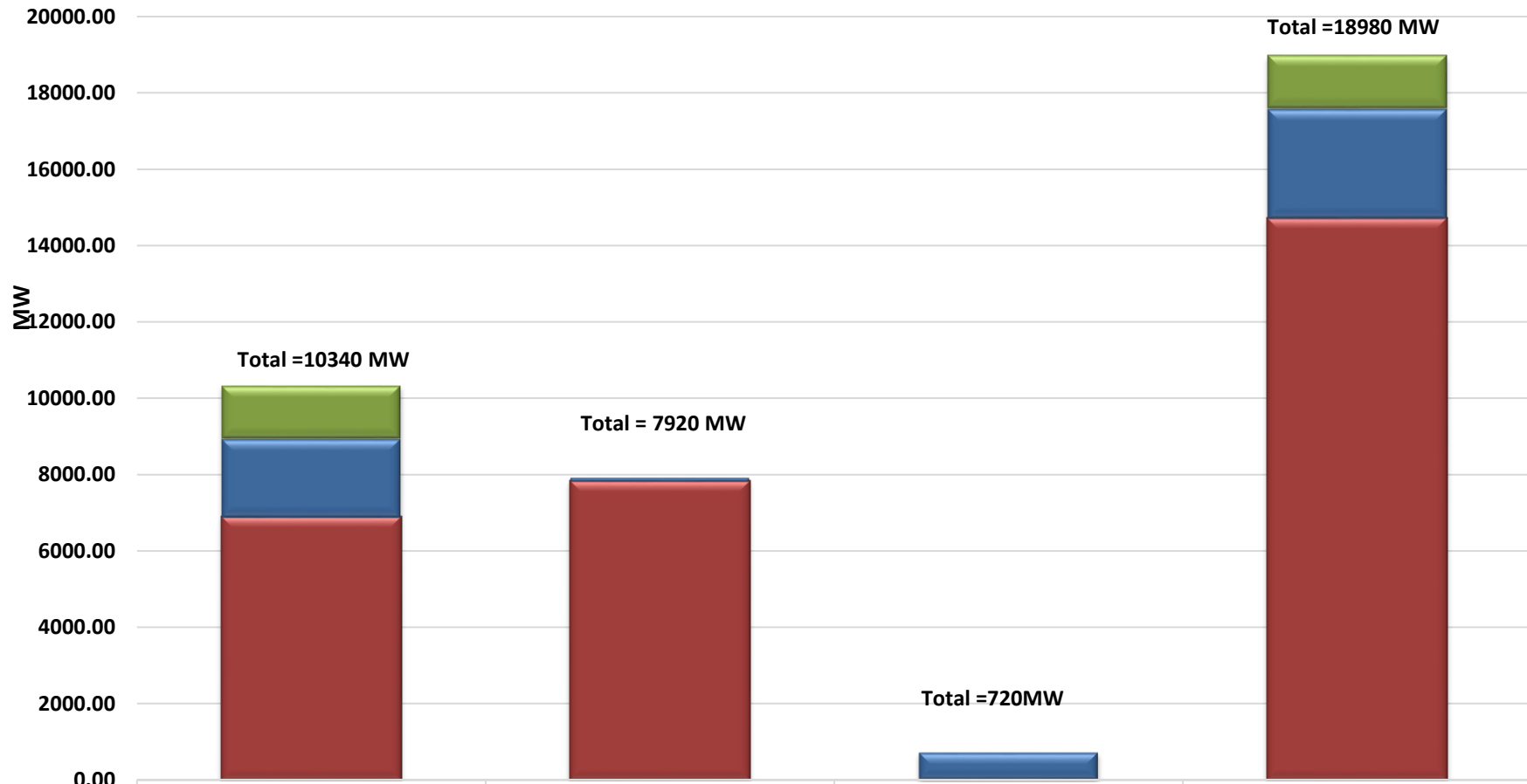
# Plan-wise Growth of Energy Generated by Captive Power Plants in Industries having Demand of 1MW & above

Chart : 34



## Capacity Addition Programme during 2023-24

Chart : 35

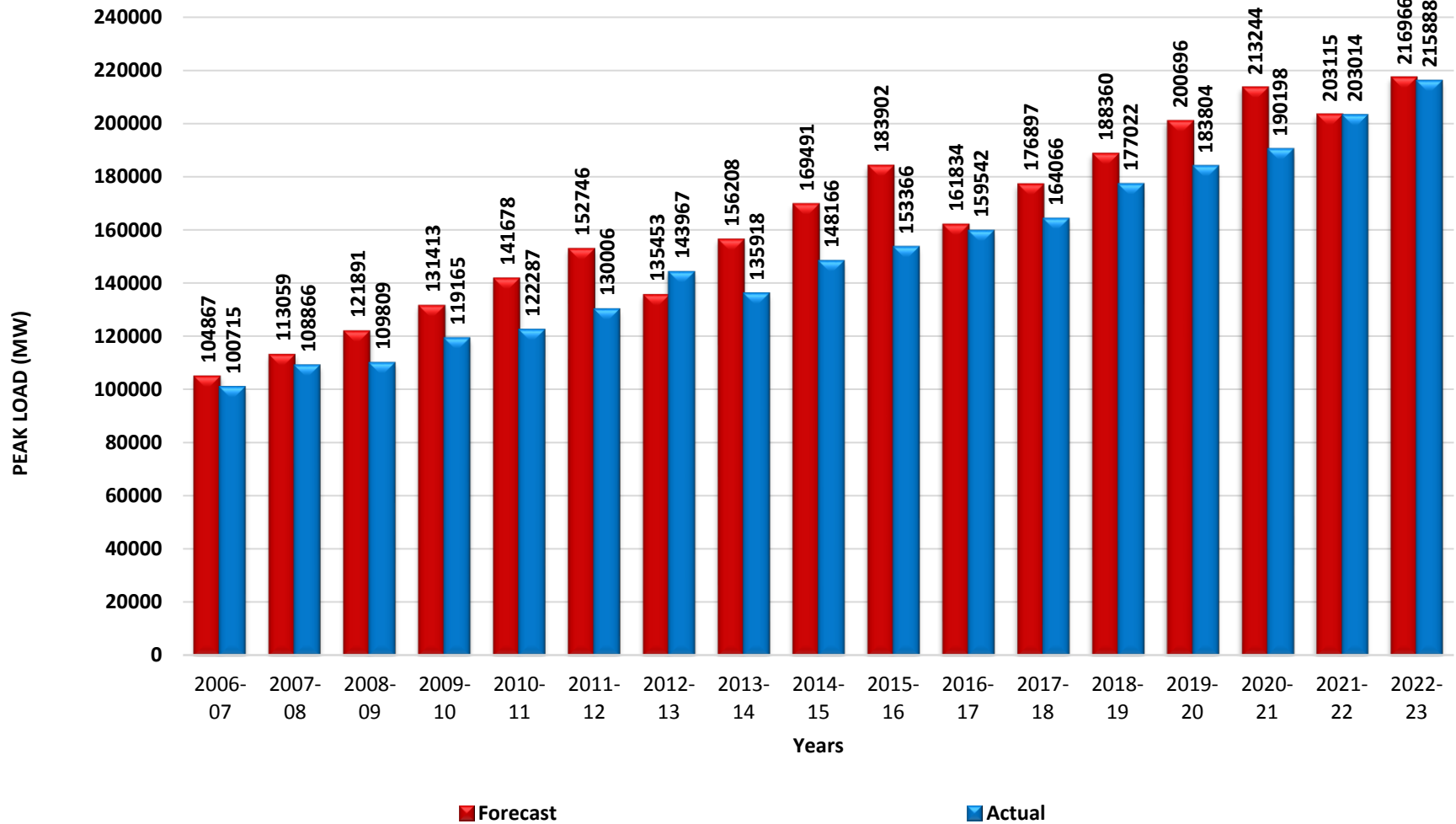


	CENTRAL	STATE	PRIVATE	TOTAL
■ NUCLEAR	1400.00	0.00	0.00	1400.00
■ HYDRO	2060.00	100.00	720.00	2880.00
■ THERMAL	6880.00	7820.00	0.00	14700.00

# Forecast of All India Peak Electricity Demand (Utilities)

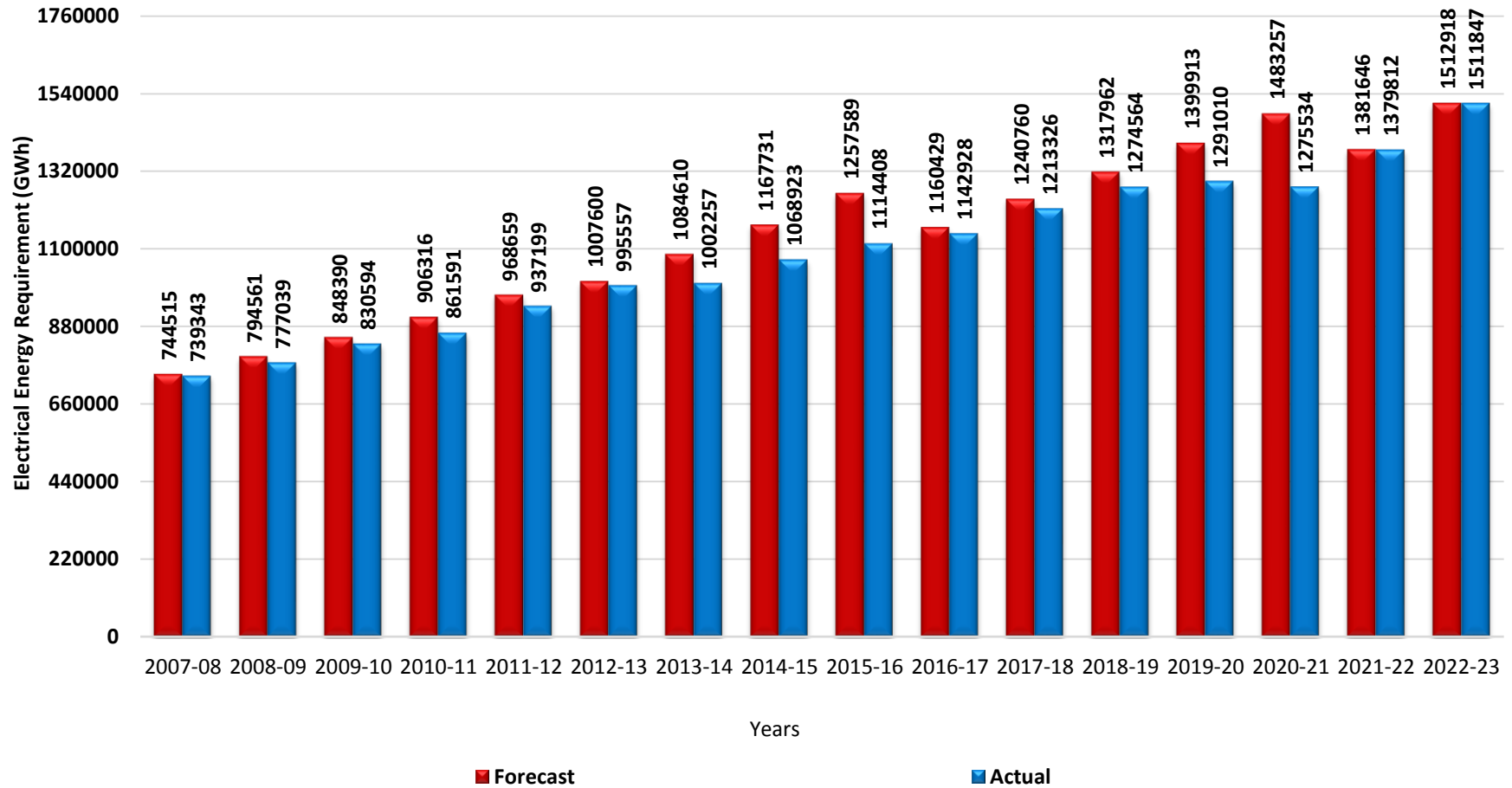
Chart : 36

## As Per 20th Electric Power Survey in MW



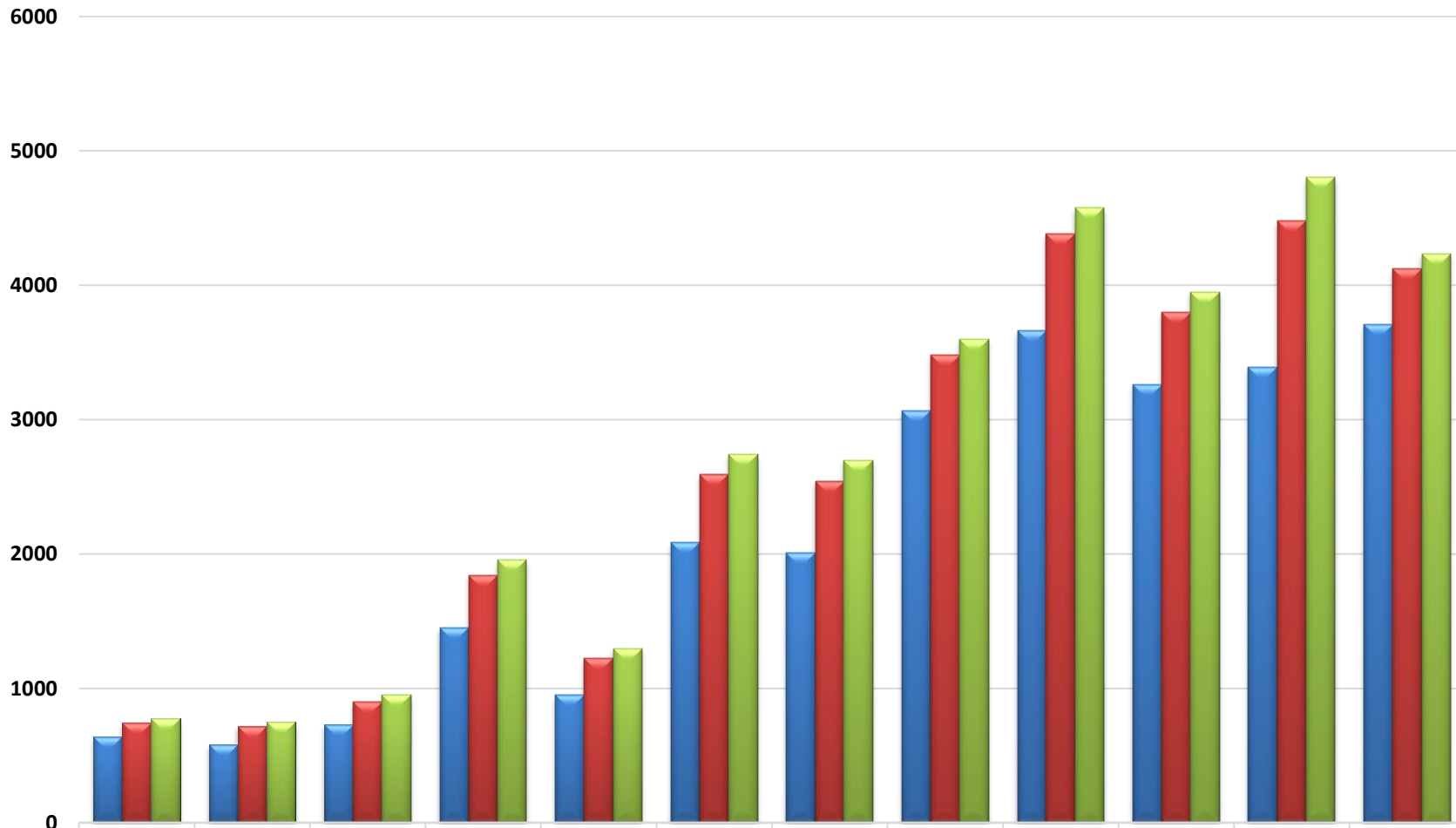
**Forecast of All India Energy Requirement  
(Utilities)  
As Per 20th Electric Power Survey  
in GWh**

**Chart : 37**



**19th Electric Power Survey of India (Volume - III)**  
**Annual Electric Peak Load (in MW) of Mega Cities at Power Station Bus Bar**  
**For the year 2019-20, 2023-24 & 2024-25**

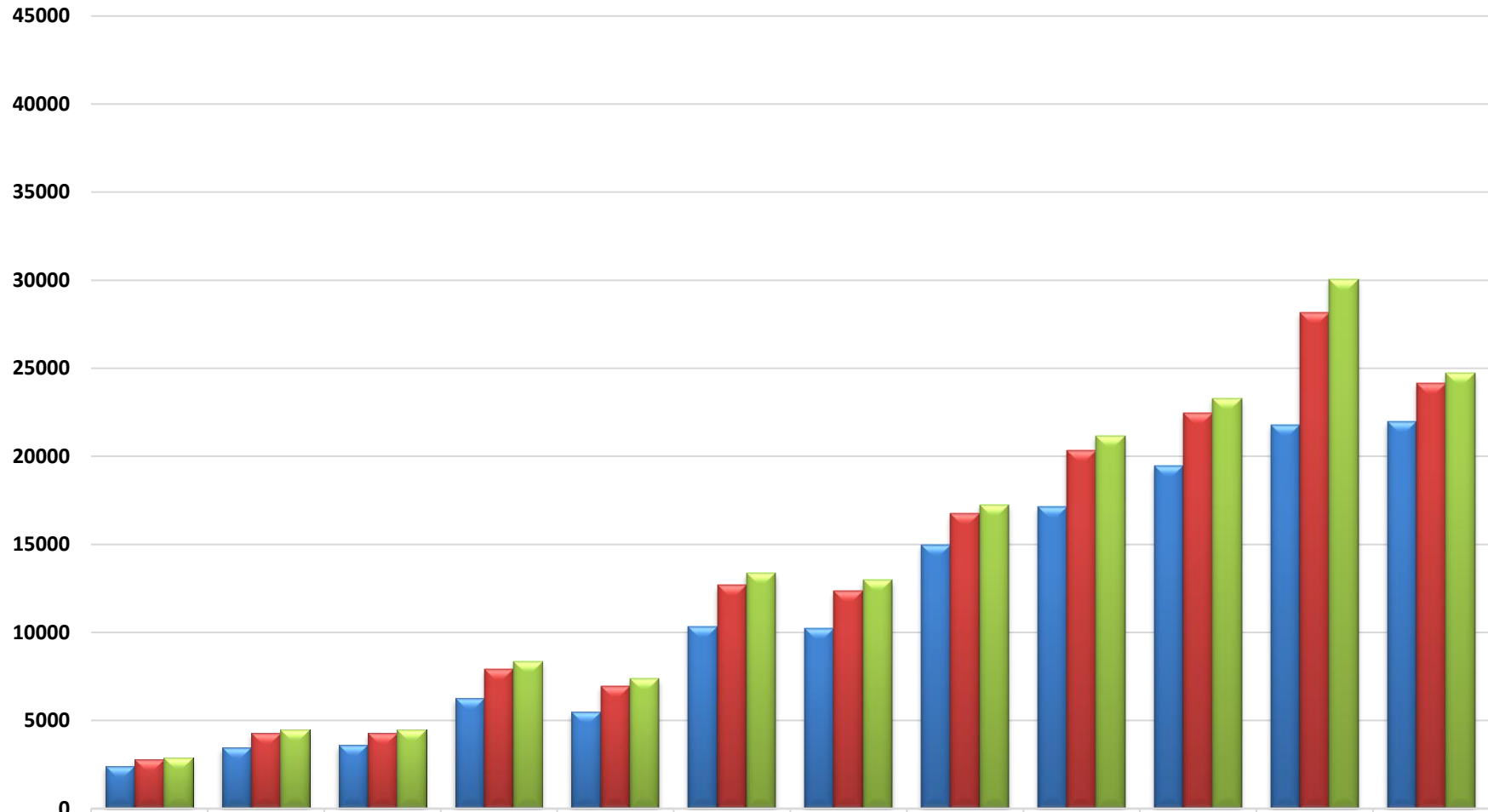
**Chart :37A**



	Nagpur	Indore	Kanpur	Lucknow	Jaipur	Surat	Pune	Bengaluru	Chennai	Kolkata	Hyderabad	Mumbai
2019-20	642	578	732	1450	952	2086	2011	3067	3666	3263	3390	3710
2023-24	746	719	900	1842	1222	2594	2543	3482	4383	3801	4479	4123
2024-25	775	753	949	1955	1295	2741	2698	3599	4576	3950	4805	4234

**19th Electric Power Survey of India (Volume - III)**  
**Electrical Energy Requirement (in MU) of Mega Cities**  
**For the year 2019-20, 2023-24 & 2024-25**

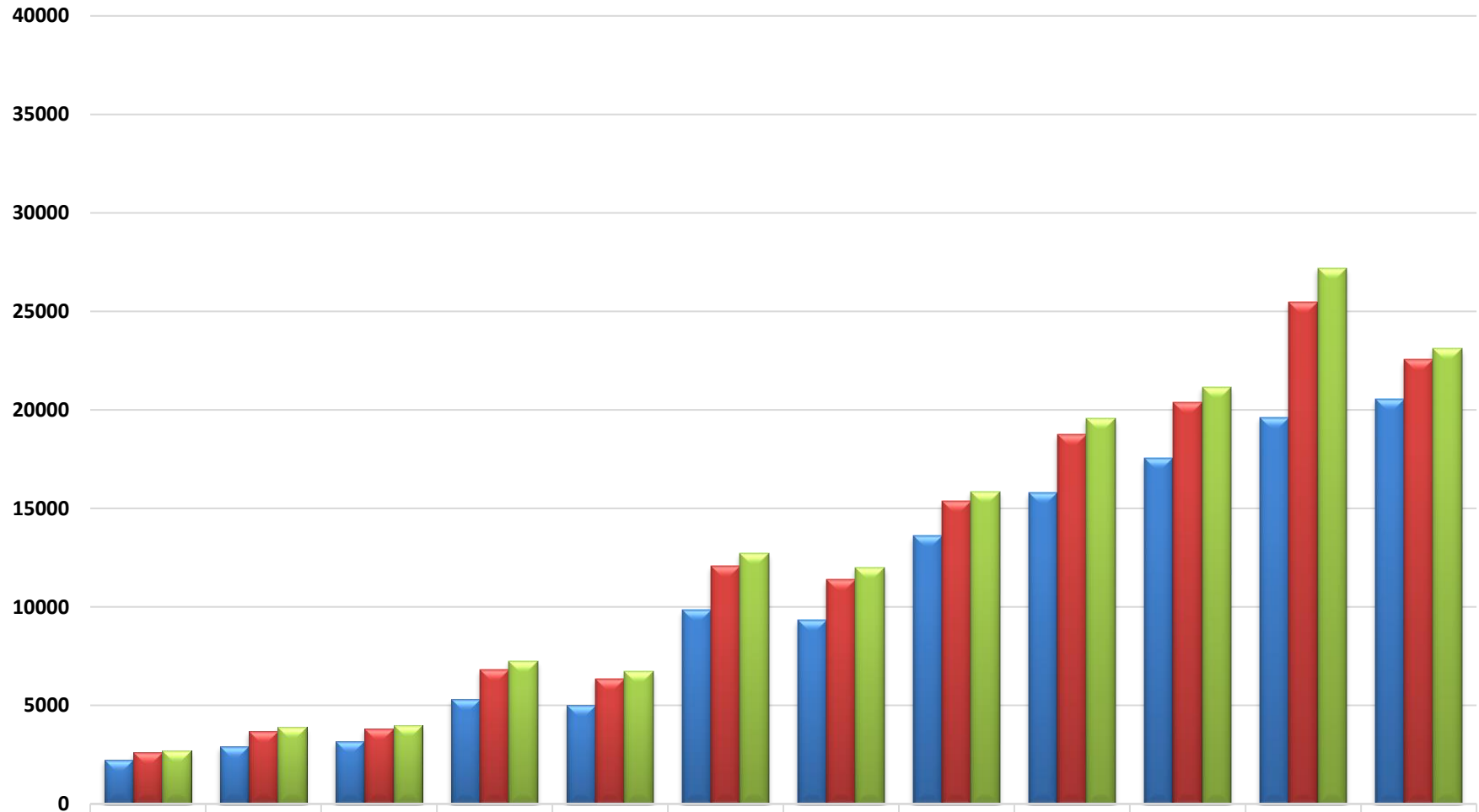
**Chart : 37B**



	Nagpur	Indore	Kanpur	Lucknow	Jaipur	Surat	Pune	Bengaluru	Chennai	Kolkata	Hyderabad	Mumbai
2019-20	2418	3445	3605	6257	5502	10354	10204	14983	17115	19450	21799	21977
2023-24	2792	4282	4274	7900	6958	12692	12368	16766	20313	22460	28173	24131
2024-25	2894	4486	4465	8371	7372	13362	12980	17267	21166	23284	30054	24709

**19th Electric Power Survey of India (Volume - III)**  
**Electrical Energy Consumption (in MU) of Mega Cities**  
**For the year 2019-20, 2023-24 & 2024-25**

**Chart : 37C**



	Nagpur	Indore	Kanpur	Lucknow	Jaipur	Surat	Pune	Bengaluru	Chennai	Kolkata	Hyderabad	Mumbai
2019-20	2235	2894	3162	5318	4990	9845	9317	13599	15783	17549	19620	20540
2023-24	2592	3682	3799	6810	6339	12073	11391	15351	18756	20363	25469	22563
2024-25	2691	3880	3982	7241	6723	12711	11980	15844	19551	21136	27200	23106

**Table No.8**  
**All India Power Supply Position Energy-wise & Peak-wise (Utilities)**  
**1985-86 to 2022-23**

Year	Energy				Peak Demand			
	Requirement	Availability	Deficit	Deficit	Demand	Availability	Deficit	Deficit
	(GWh)	(GWh)	(GWh)	(%)	(MW)	(MW)	(MW)	(%)
1985-86	170,746	157,262	13,484	7.90	28,090	24,215	3,875	13.79
1986-87	192,356	174,276	18,080	9.40	30,850	26,924	3,926	12.73
1987-88	210,993	187,976	23,017	10.91	31,990	28,242	3,748	11.72
1988-89	223,194	205,909	17,285	7.74	36,245	31,713	4,532	12.50
1989-90	247,762	228,151	19,611	7.92	40,385	33,658	6,727	16.66
1990-91	267,632	246,560	21,072	7.87	44,005	37,171	6,834	15.53
1991-92	288,974	266,432	22,542	7.80	48,055	39,027	9,028	18.79
1992-93	305,266	279,824	25,442	8.33	52,805	41,984	10,821	20.49
1993-94	323,252	299,494	23,758	7.35	54,875	44,830	10,045	18.31
1994-95	352,260	327,281	24,979	7.09	57,530	48,066	9,464	16.45
1995-96	389,721	354,045	35,676	9.15	60,981	49,836	11,145	18.28
1996-97	413,490	365,900	47,590	11.51	63,853	52,376	11,477	17.97
1997-98	424,505	390,330	34,175	8.05	65,435	58,042	7,393	11.30
1998-99	446,584	420,235	26,349	5.90	67,905	58,445	9,460	13.93
1999-00	480,430	450,594	29,836	6.21	72,669	63,691	8,978	12.35
2000-01	507,216	467,409	39,807	7.85	74,872	65,628	9,244	12.35
2001-02	522,537	483,350	39,187	7.50	78,441	69,189	9,252	11.79
2002-03	545,674	497,589	48,085	8.81	81,492	71,547	9,945	12.20
2003-04	559,264	519,398	39,866	7.13	84,574	75,066	9,508	11.24

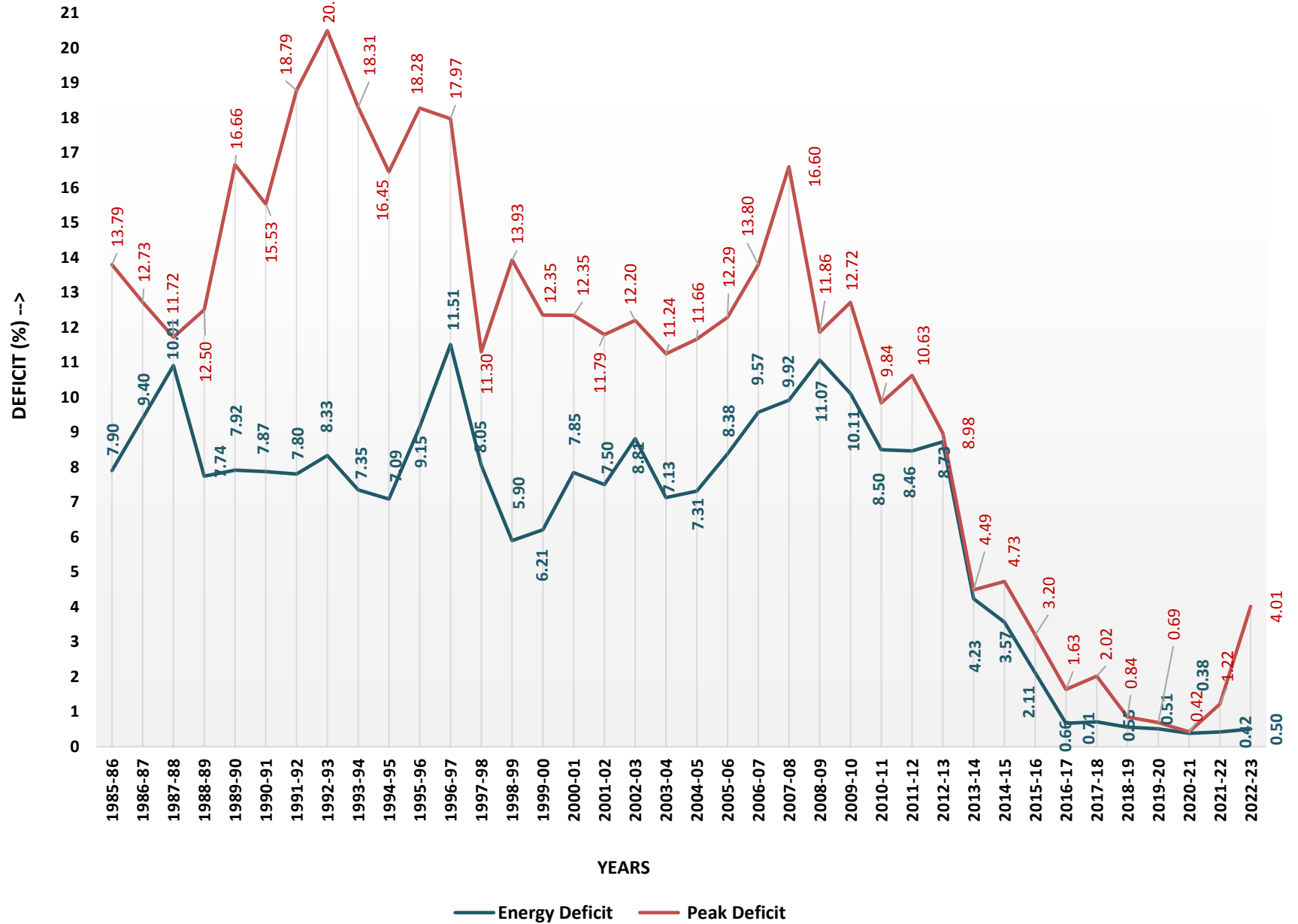


**Table No.8 (Contd.)**  
**All India Power Supply Position Energy-wise & Peak-wise (Utilities)**  
**1985-86 to 2022-23**

Year	Energy				Peak Demand			
	Requirement	Availability	Deficit	Deficit	Demand	Availability	Deficit	Deficit
	(GWh)	(GWh)	(GWh)	(%)	(MW)	(MW)	(MW)	(%)
2004-05	591,373	548,115	43,258	7.31	87,906	77,652	10,254	11.66
2005-06	631,757	578,819	52,938	8.38	93,255	81,792	11,463	12.29
2006-07	690,587	624,495	66,092	9.57	100,715	86,818	13,897	13.80
2007-08	739,343	666,007	73,336	9.92	108,866	90,793	18,073	16.60
2008-09	777,039	691,038	86,001	11.07	109,809	96,785	13,024	11.86
2009-10	830,594	746,644	83,950	10.11	119,166	104,009	15,157	12.72
2010-11	861,591	788,355	73,236	8.50	122,287	110,256	12,031	9.84
2011-12	937,199	857,886	79,313	8.46	130,006	116,191	13,815	10.63
2012-13	995,557	908,652	86,905	8.73	135,453	123,294	12,159	8.98
2013-14	1,002,257	959,829	42,428	4.23	135,918	129,815	6,103	4.49
2014-15	1,068,923	1,030,785	38,138	3.57	148,166	141,160	7,006	4.73
2015-16	1,114,408	1,090,850	23,558	2.11	153,366	148,463	4,903	3.20
2016-17	1,142,928	1,135,332	7,596	0.66	159,542	156,934	2,608	1.63
2017-18	1,213,326	1,204,697	8,629	0.71	164,066	160,752	3,314	2.02
2018-19	1,274,595	1,267,526	7,070	0.55	177,022	175,528	1,494	0.84
2019-20	1,291,010	1,284,444	6,566	0.51	183,804	182,533	1,271	0.69
2020-21	1,275,534	1,270,663	4,871	0.38	190,198	189,395	802	0.42
2021-22	1,379,812	1,374,024	5,787	0.42	203,014	200,539	2,475	1.22
2022-23	1,511,847	1,504,264	7,583	0.50	215,888	207,231	8,657	4.01

# All India Peak and Energy Deficit (Utilities) 1985-86 to 2022-23

Chart : 38



**Table 8A**  
**Region-wise Summary of Electrical Energy Requirement (MU) & Peak Electricity Demand (MW)**  
**projections for the Year 2023-24 and 2024-25 As Per 20th EPS (Volume-I)**

Region/Year	Electrical Energy Requirement (MU)		Peak Electricity Demand (MW)	
	2023-24	2024-25	2023-24	2024-25
Northern	499,239	528,394	82,688	87,457
Western	498,665	528,152	74,704	79,137
Southern	388,055	410,587	67,143	71,362
Eastern	193,179	205,240	30,479	32,544
North East	21,076	22,261	4,029	4,284
<b>All India Total</b>	<b>1,600,214</b>	<b>1,694,634</b>	<b>230,144</b>	<b>244,565</b>

NOTE : EPS - Electric Power Survey

**Table 8B**  
**Category-wise Forecast of Electrical Energy Consumption**  
**For the Year 2023-24 and 2024-25**  
**As Per 20th EPS (Volume-I)**

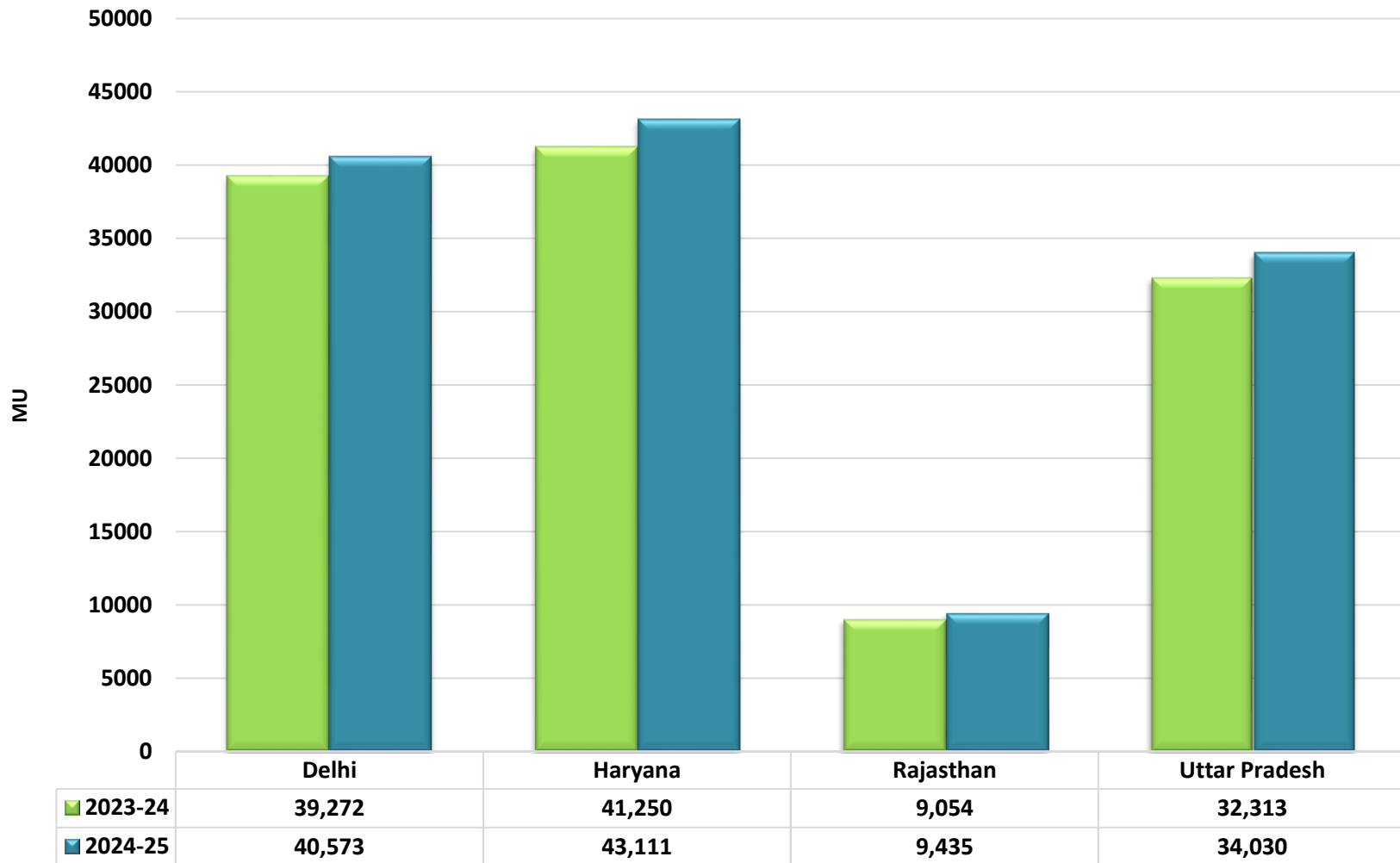
Category	GWh	
	Year 2023-24	Year 2024-25
<b>Domestic</b>	404,754	431,417
<b>Commercial</b>	115,555	122,022
<b>Irrigation</b>	279,256	291,750
<b>Industries</b>	365,205	397,141
<b>Others</b>	165,645	173,657
<b>Total</b>	<b>1,330,415</b>	<b>1,415,987</b>

**Table 8C**  
**Forecast of Electrical Energy Requirement (in MU) of NCR**  
**For the Year 2023-24 and 2024-25**  
**As Per 19th EPS (Volume-II)**

		GWh
<b>NCR Sub Region</b>	<b>2023-24</b>	<b>2024-25</b>
Delhi	39,272	40,573
Haryana	41,250	43,111
Rajasthan	9,054	9,435
Uttar Pradesh	32,313	34,030
<b>NCR - Total</b>	<b>121,889</b>	<b>127,149</b>

Chart : 39

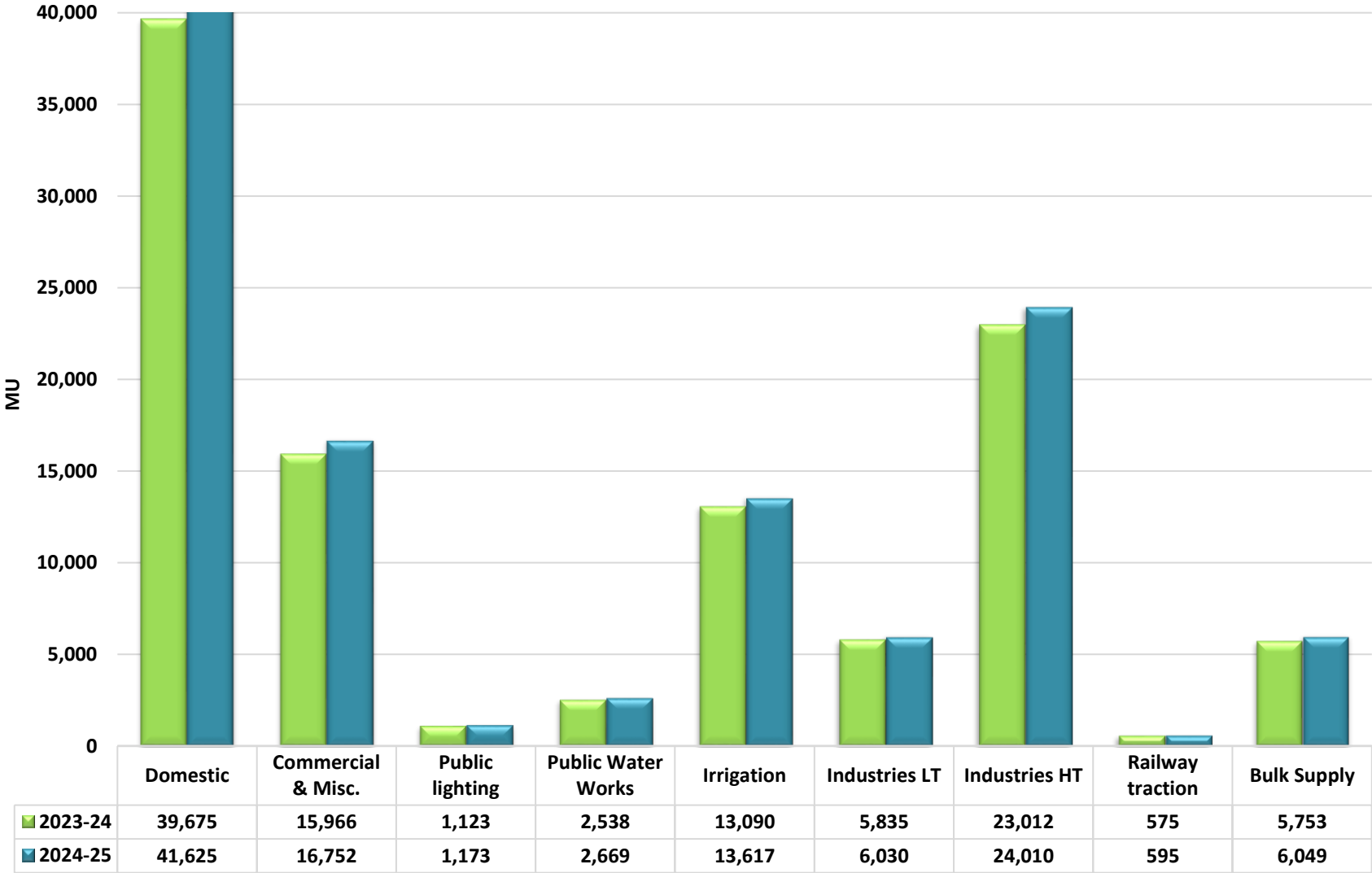
### Forecast of Electrical Energy Requirement (in MU) of NCR For the Year 2023-24 & 2024-25



**Table 8D**  
**Forecast of Electrical Energy Consumption (in MU) of NCR**  
**For the Year 2023-24 and 2024-25**  
**As Per 19th EPS (Volume-II)**

<b>Consumption Category</b>	<b>2023-24</b>	<b>2024-25</b>
Domestic	39,675	41,625
Commercial & Misc.	15,966	16,752
Public lighting	1,123	1,173
Public Water Works	2,538	2,669
Irrigation	13,090	13,617
Industries LT	5,835	6,030
Industries HT	23,012	24,010
Railway traction	575	595
Bulk Supply	5,753	6,049
<b>Total (Energy Consumption)</b>	<b>107,568</b>	<b>112,519</b>

### Forecast of Electrical Energy Consumption (in MU) of NCR For the year 2023-24 & 2024-25





# MAP OF INDIA

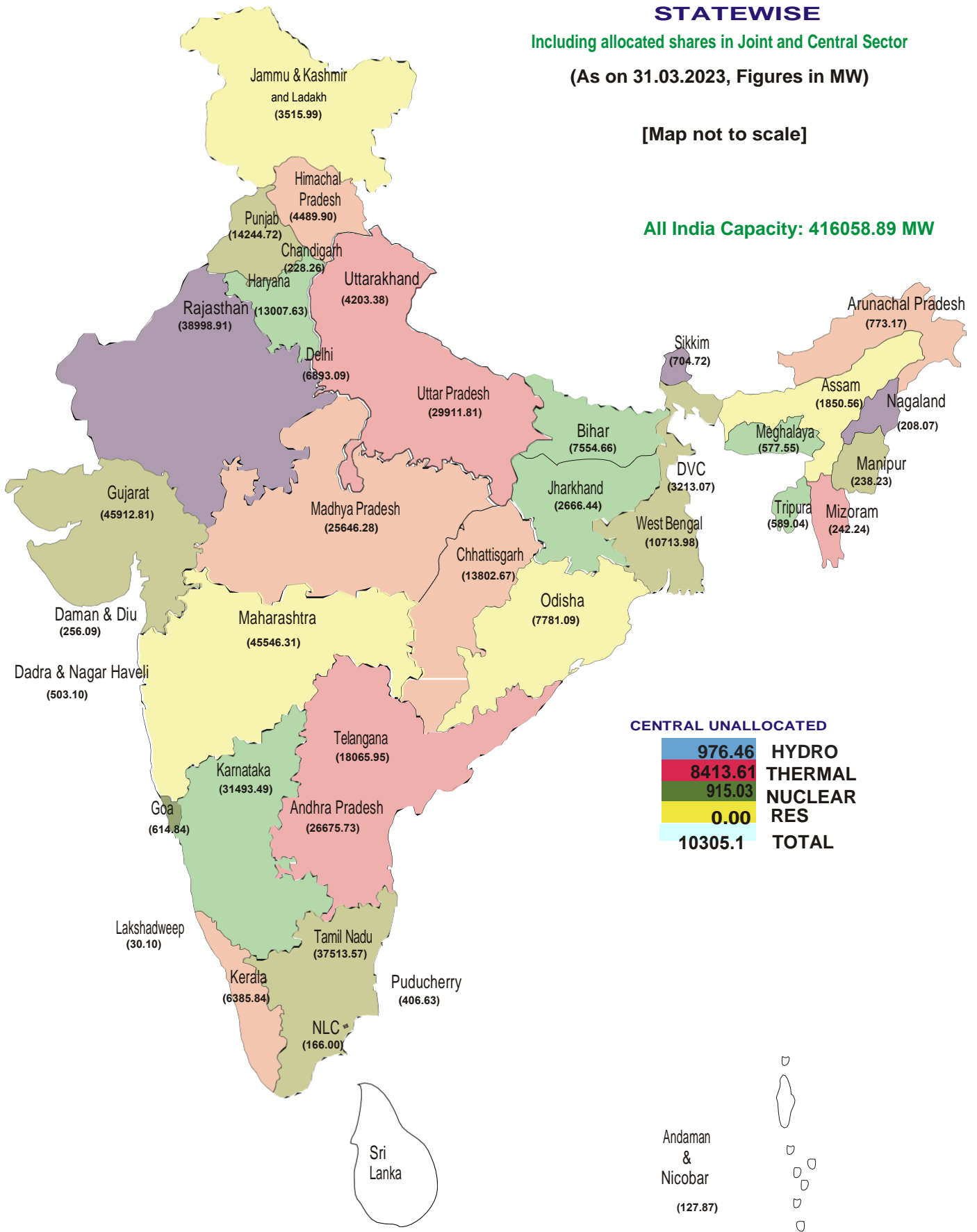
## SHOWING INSTALLED GENERATING CAPACITY STATEWISE

Including allocated shares in Joint and Central Sector

(As on 31.03.2023, Figures in MW)

[Map not to scale]

All India Capacity: 416058.89 MW



# MAP OF INDIA

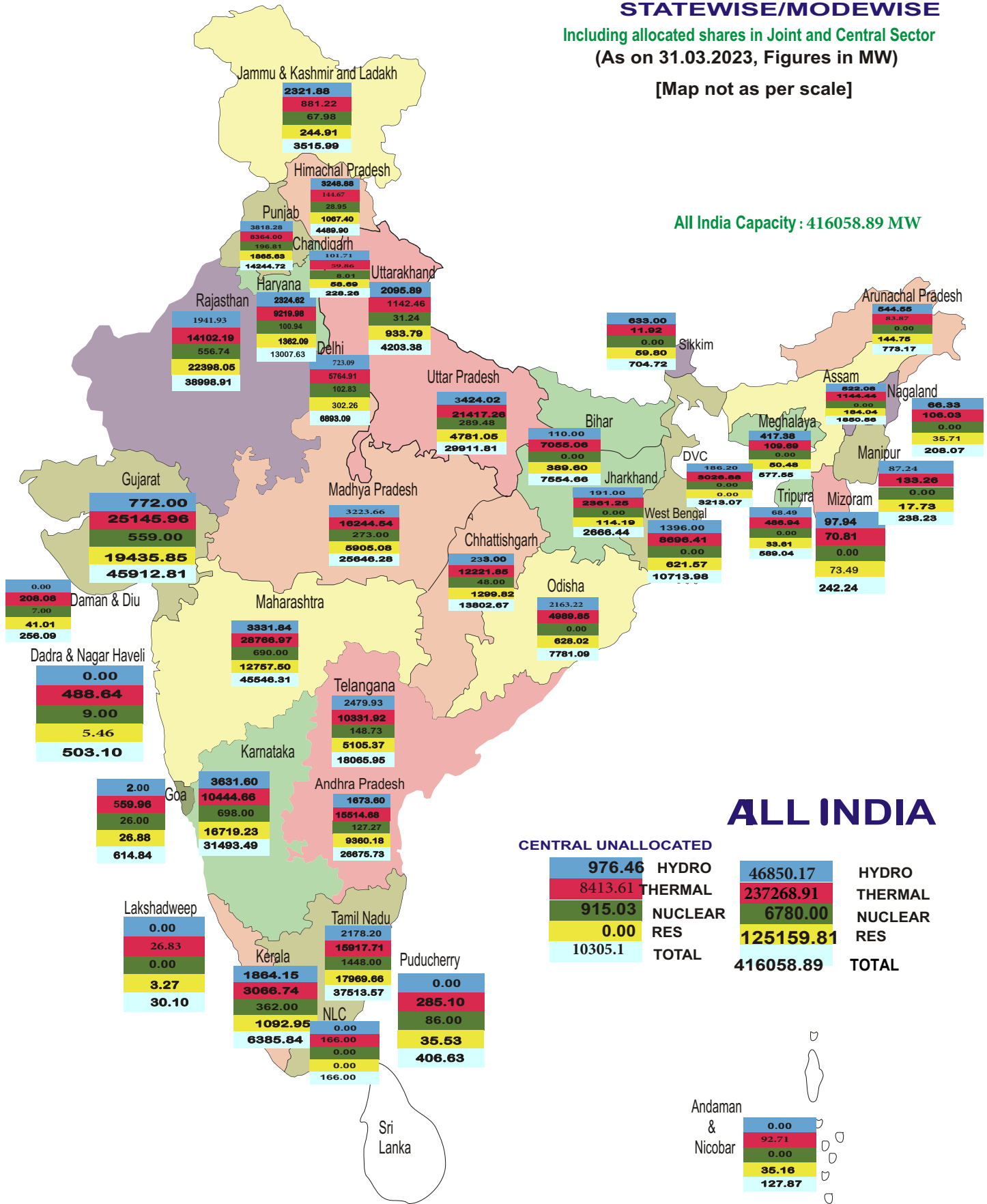
SHOWING

## INSTALLED GENERATING CAPACITY STATEWISE/MODEWISE

Including allocated shares in Joint and Central Sector (As on 31.03.2023, Figures in MW)

[Map not as per scale]

All India Capacity : 416058.89 MW



## ALL INDIA

### CENTRAL UNALLOCATED

976.46	HYDRO
8413.61	THERMAL
915.03	NUCLEAR
0.00	RES
10305.1	TOTAL

46850.17	HYDRO
237268.91	THERMAL
6780.00	NUCLEAR
125159.81	RES
416058.89	TOTAL