



जुलाई, 2013
July , 2013



भारत के विद्युत क्षेत्र का 1947 से
2013 तक का संवर्धन

Growth of Electricity Sector in India from 1947-2013

GOVERNMENT OF INDIA
CENTRAL ELECTRICITY AUTHORITY
MINISTRY OF POWER
NEW DELHI

भारत सरकार
विद्युत मंत्रालय
केन्द्रीय विद्युत प्राधिकरण
नई दिल्ली



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अध्यक्ष
केन्द्रीय विद्युत प्राधिकरण
एवं पदेन सचिव
भारत सरकार

प्राक्कथन

केन्द्रीय विद्युत प्राधिकरण द्वारा वार्षिक रूप से प्रकाशित पुस्तिका "भारत में विद्युत क्षेत्र की संवृद्धि" विभिन्न वर्षों में भारतीय विद्युत क्षेत्र की संवृद्धि का विस्तृत परिदृश्य उपलब्ध कराती है। प्रासंगिक सूचना और सांख्यिकी आलेखों, पाई-चार्ट, मानचित्रों और सारणियों के रूप में प्रस्तुत की गई हैं। पंचवर्षीय योजनावार विकास के आरंभ होने के बाद से भारतीय विद्युत क्षेत्र ने बहुत प्रगति की है। यह प्रकाशन महत्वपूर्ण विकास संकेतकों जैसे स्थापित उत्पादक क्षमता, विद्युत ऊर्जा उत्पादन, पारेषण और संवितरण नेटवर्क, कैप्टिव विद्युत संयंत्रों और विद्युत खपत के पैटर्न आदि की संवृद्धि के विवरण उपलब्ध कराता है।

इस प्रकाशन के लिए आंकड़े सभी युटिलिटियां और गैर-युटिलिटियों से प्राप्त किए गए हैं। प्रति व्यक्ति विद्युत खपत, खपत की विभिन्न श्रेणियों का प्रतिशतांक हिस्सा, पारेषण और संवितरण हानियों आदि जैसी महत्वपूर्ण सांख्यिकी की कुछ विकसित और विकासशील राष्ट्रों के आंकड़ों के साथ तुलना की गई है। आशा है कि यह पुस्तिका भारतीय विद्युत क्षेत्र पर संक्षिप्त और लाभदायक सूचना उपलब्ध कराने में बहुत उपयोगी सिद्ध होगी।

जुलाई 2013

(ए.एस. बक्शी)



A.S. Bakshi
Chairperson
Central Electricity Authority
& Ex Officio Secretary,
Govt. of India

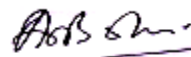


FOREWORD

The booklet “Growth of Electricity Sector in India” published annually by Central Electricity Authority provides panoramic view of growth of the Indian Power Sector over the years. The relevant information and statistics have been presented in the form 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 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 all utilities and non -utilities. 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 the Indian Electricity Sector.

July, 2013



(A.S. Bakshi)



मैजर सिंह

सदस्य (योजना)

केंद्रीय विद्युत प्राधिकरण

एवं पदेन अतिरिक्त सचिव

भारत सरकार

प्रस्तावना

भारत ने स्वतंत्रता से लेकर अब तक विद्युत क्षेत्र में स्थापित उत्पादित क्षमता व पारेषण तथा वितरण प्रणाली दोनों में ही तेजी से प्रगति की है। कुल विद्युत उत्पादन क्षमता (युटिलिटीयों एवं गैर युटिलिटीयों) 1947 में 1362 मेवा से बढ़कर मार्च 2013 के अंत तक 223344 मेवा हो गई है। मांग की बढ़ती ने विद्युत आपूर्ति को पीछे छोड़ दिया है और हमारा देश इन वर्षों में कई गुना वृद्धि करने के बावजूद विद्युत की कमी का सामना कर रहा है। भारत सरकार सीमित संसाधनों के इष्टतम उपयोग के लिए पारेषण एवं वितरण के हानियों में कमी और मांग पक्ष के प्रबंधन पर विशेष जोर देती है। नीतिगत पहलों, निजी क्षेत्र की भागीदारी तथा अल्ट्रा मेगा पावर प्रोजेक्ट्स (यूएमपीपी) के विकास के माध्यम से मांग और आपूर्ति के अंतर को पूरा करने के लिए सुदृढ़ प्रयास किए जा रहे हैं।

के.वि.प्रा. ने विद्युत के विभिन्न विशिष्ट क्षेत्रों में विकास के राष्ट्रीय प्रयास में अग्रणी भूमिका निभायी है एवं काफी योगदान दिया है जैसे कि नई टेक्नोलॉजी की शुरुआत करना, परियोजनाओं की तकनीकी-आर्थिक स्वीकृति, उत्पादन एवं पारेषण योजना एवं विकास का कार्य निष्पादन, परियोजनाओं के प्रचालन एवं निर्माण की मॉनिटरिंग करना, आंकड़ों व सांख्यिकी के अभिकल्पन व अभियांत्रिकी तथा उसका प्रेषण।

के.वि.प्रा. द्वारा नियमित रूप से प्रकाशित की जाने वाली इस वर्तमान पुस्तिका में ग्राफों, पाइचार्ट, मानचित्र व तालिकाओं के रूप में विद्युत क्षेत्र के विकास की महत्वपूर्ण सूचनाएं दी गई हैं। इन जानकारियों में सम्मिलित विभिन्न महत्वपूर्ण संकेतकों जैसे संस्थापित विद्युत उत्पादन क्षमता, विद्युत ऊर्जा उत्पादन, पारेषण एवं वितरण नेटवर्क, कैप्टिव विद्युत संयंत्र और विद्युत खपत पैटर्न इत्यादि के विकास को योजनावार क्रम से दर्शाया गया है। यह पुस्तिका राज्यवार स्थापित उत्पादन क्षमता को प्रदर्शित करने वाले मानचित्रों को भी शामिल करती है जो विद्युत क्षेत्र का विस्तृत परिदृश्य प्रस्तुत करता है। इस पुस्तिका में 18वीं विद्युत सर्वेक्षण के भाग के रूप में के.वि.प्रा. द्वारा आयोजित बड़े शहरों की 12वीं एवं 13वीं पंचवर्षीय योजनाओं की समाप्त होने वाली अवधि के लिए विद्युत मांग के पूर्वानुमान से संबंधित सूचना को भी शामिल किया गया है।

यह आशा की जाती है कि यह लघु पुस्तिका सभी हितधारकों के लिए एक उपयोगी सूचना के तौर पर काम आएगी।

जुलाई, 2013

मैजर सिंह

(मैजर सिंह)



Major Singh
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PREFACE

Power Sector in India has made rapid progress both in the installed generating capacity and transmission and distribution system since independence. The total power generating capacity of (utilities & non utilities) has increased from meagre 1362 MW in 1947 to 223344 MW at the end of March, 2013. The growth of demand has overtaken the power supply and our country has been facing power shortages in spite of the manifold growth over the years. Government of India lays special emphasis on reduction of transmission and distribution losses and demand side management to optimally utilize the limited resources. Concerted efforts are going on to bridge this gap of demand and supply through policy initiatives, private sector participation and development of the Ultra Mega Power Projects (UMPP).

CEA has taken a lead and immensely contributed in the national endeavour of development of power sector in various specific areas such as introduction of new technologies, techno-economic clearance of projects, generation & transmission planning and development performance, operation and construction monitoring of projects, design & engineering and dissemination of data & statistics.

The present booklet brought out by CEA is the regular feature which contains vital information on growth of electricity sector in the form of graphs, pie charts, maps and tables. The information covers plan wise pattern of growth accomplished for various important indicators like installed generating capacity, electrical energy generation, transmission and distribution network, captive power plants, pattern of electricity consumption etc. The booklet also contains maps showing State-wise Installed Generating Capacity, thus affording a panoramic view of the electricity sector. The information regarding electricity demand forecast for period ending 12th & 13th five year plans of mega cities conducted by CEA as part of 18th Power Survey has also been included in this booklet.

It is hoped that the handy booklet would serve as useful information to all stakeholders.

Major Singh

(Major Singh)

July, 2013

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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	1362	N.A.	23238	16.3
2	31.12.1950	1713	3061	29271	18.2
3	31.03.1956(End of the 1st Plan)	2886	7294	85427	30.9
4	31.03.1961(End of the 2nd Plan)	4653	21754	157887	45.9
5	31.03.1966 (End of the 3rd Plan)	9027	45148	541704	73.9
6	31.03.1969(End of the 3 Annual Plans)	12957	73739	886301	97.9
7	31.03.1974(End of the 4th Plan)	16664	156729	1546097	126.2
8	31.03.1979(End of the 5th Plan)	26680	232770	2145919	171.6
9	31.03.1980(End of the 2 Annual Plans)	28448	249799	2351609	172.4
10	31.03.1985(End of the 6th Plan)	42585	370332	3211956	228.7
11	31.03.1990(End of the 7th Plan)	63636	470838	4407501	329.2
12	31.03.1992(End of the 2 Annual Plans)	69065	487170	4574200	347.5
13	31.03.1997(End of the 8th Plan)	85795	498836	5141413	464.6
14	31.03.2002(End of the 9th Plan)	105046	512153	6030148	559.2
15	31.03.2007 (End of 10th Plan)	132329	482864	6939894	671.9
16	31.03.2012 (End of 11th Plan)	199877	556633 [^]	8726092	883.6
17	31.03.2013(End of 1st year of 12th Plan)	223344	593732 [^]	8970112 [*]	917.2 [*]

N.A. Not Available.

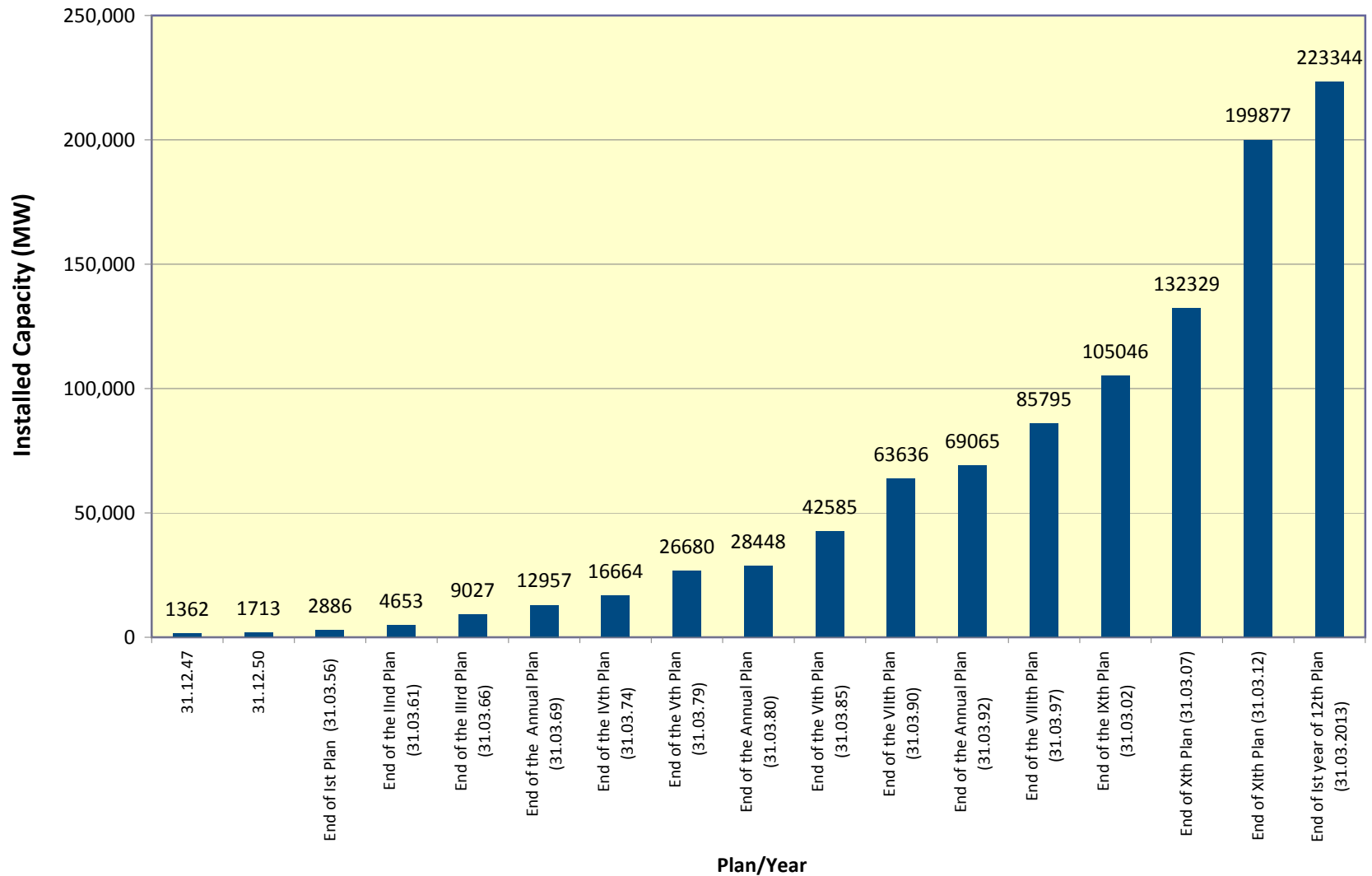
(*) Provisional.

([^]) As per revised definition of village electrification and 2001 Census.

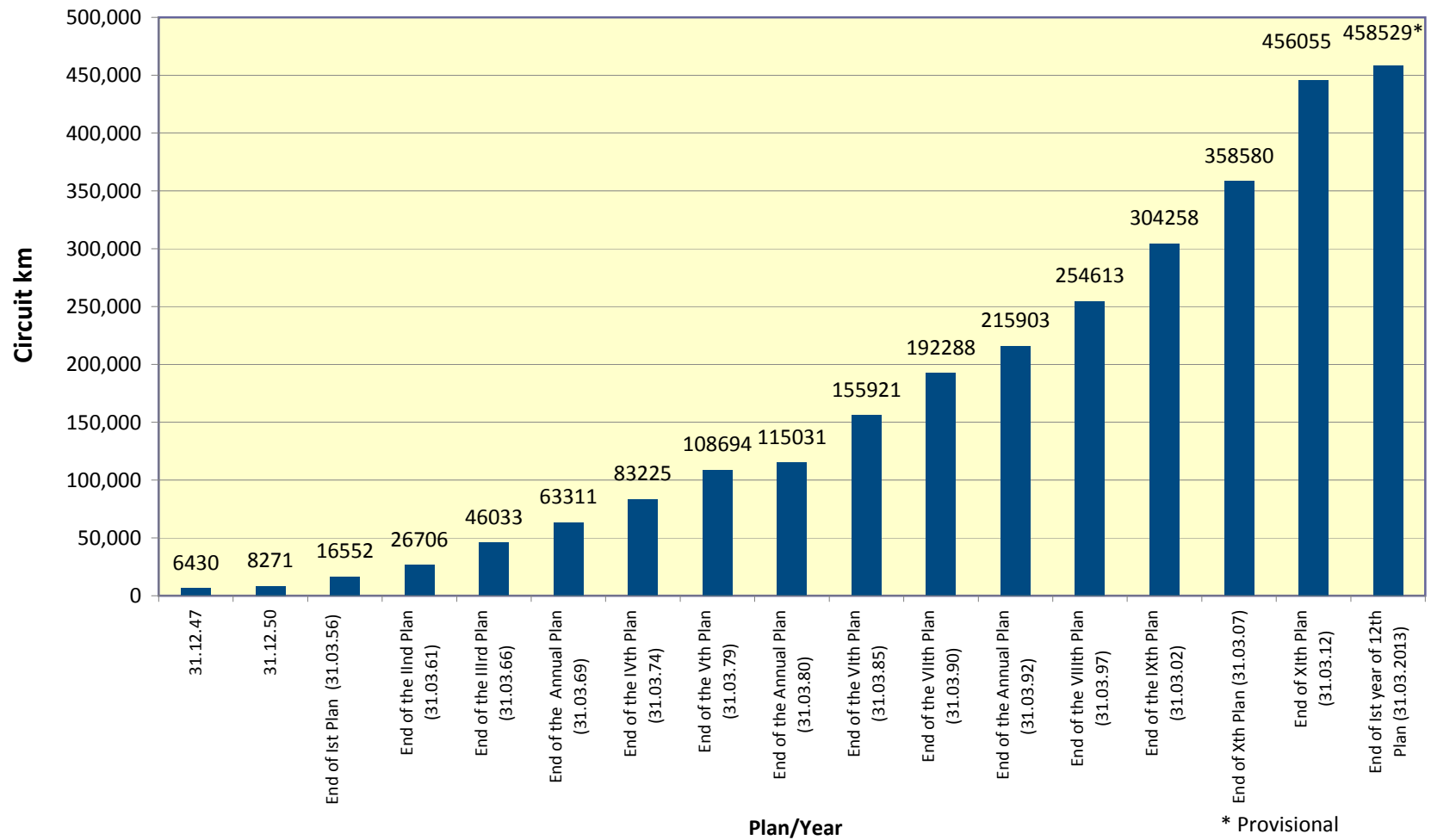
\$ Per Capita Consumption=Gross Electrical Energy availability/Mid year Population

(#) Includes 440 Volts Distribution Lines.

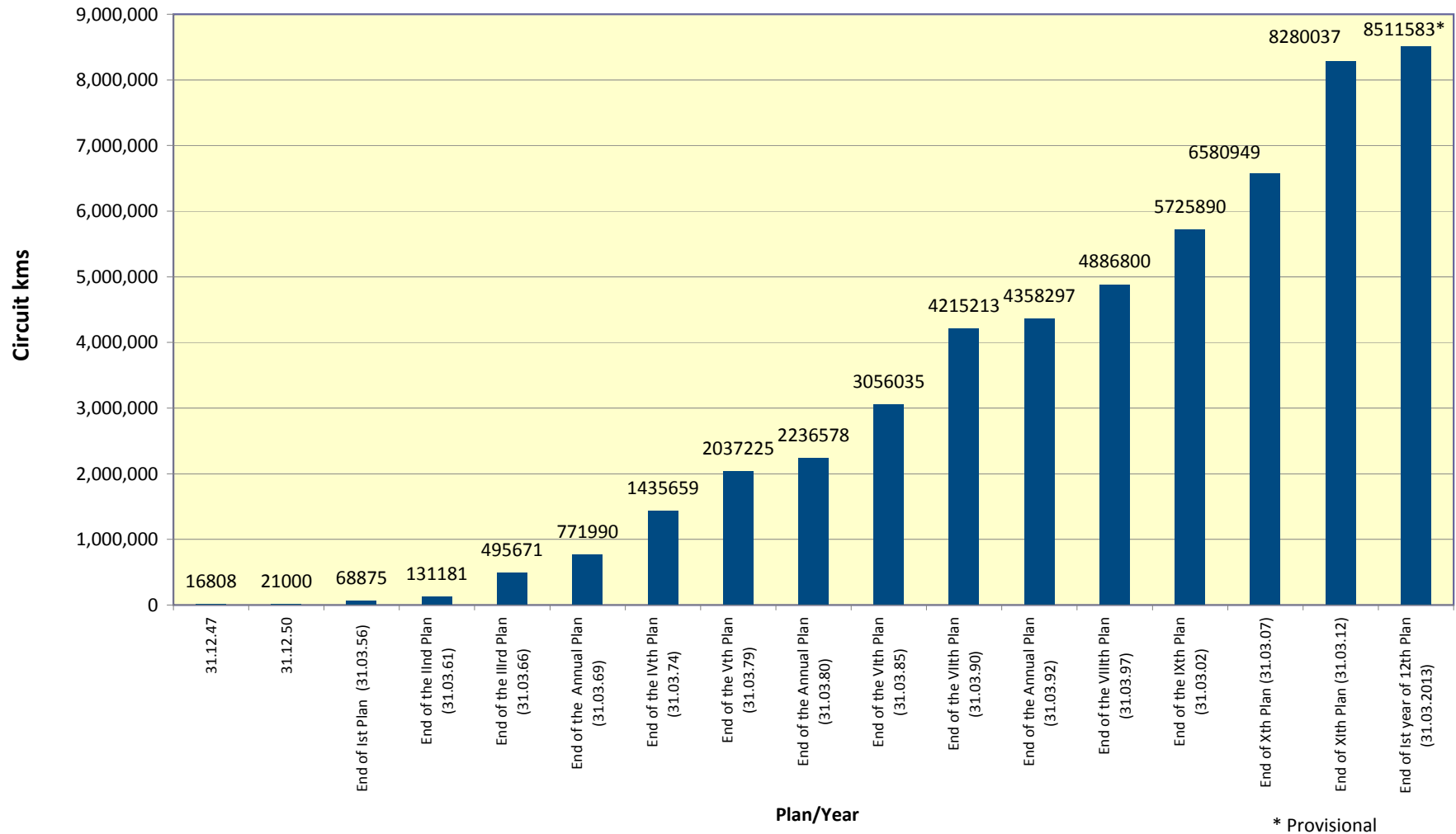
Planwise Growth of Installed Generating Capacity in the Country (Utilities)



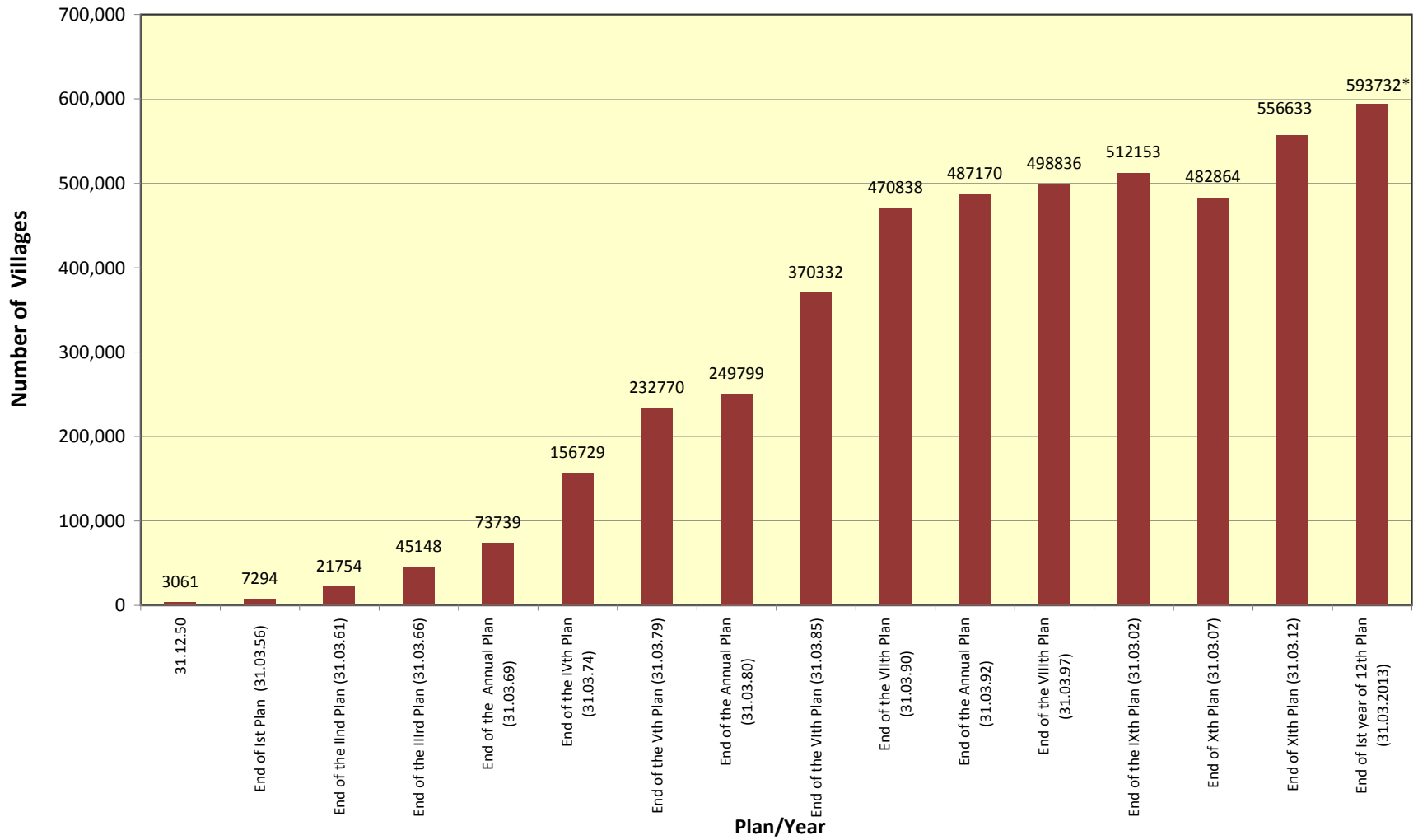
Planwise Growth of Transmission Lines in the Country 66 kV and above



Planwise Growth of Transmission Lines in the Country below 66 kV



Planwise Growth of Number of Villages Electrified in the Country

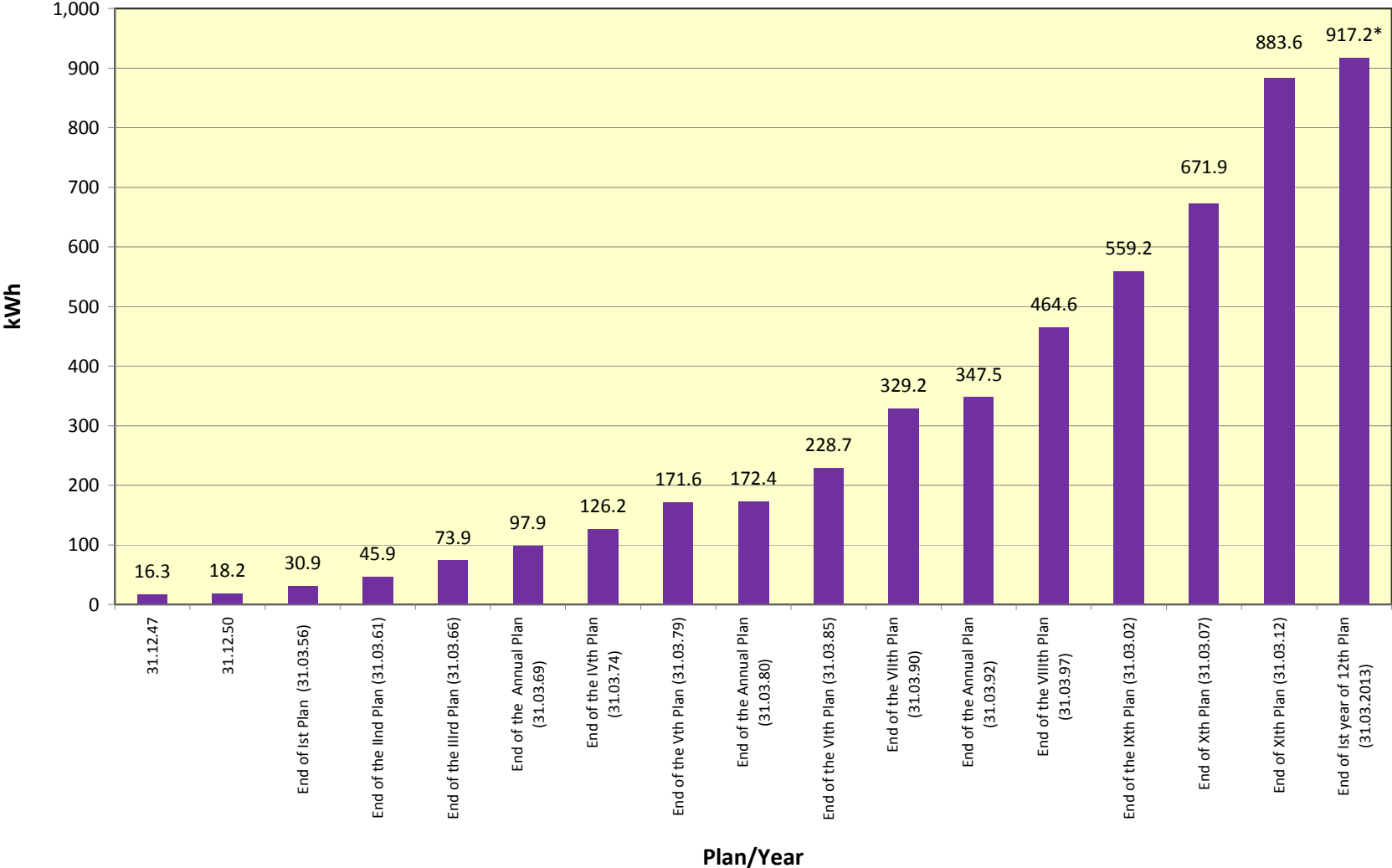


Number of Villages Elelctrified w.e.f. Xth Plan onwards are as per revised definition of Villages Electrification .

* Provisional

Planwise Growth of per Capita Consumption of Electricity in the Country

Chart : 4



Per Capita Consumption = (Gross Electrical Energy available /Mid year Population)

* Provisional

PER CAPITA ELECTRICITY CONSUMPTION IN VARIOUS COUNTRIES IN 2009 & 2010

Chart : 5



Source : IEA publication 'Key World Energy Statistics 2012 website.

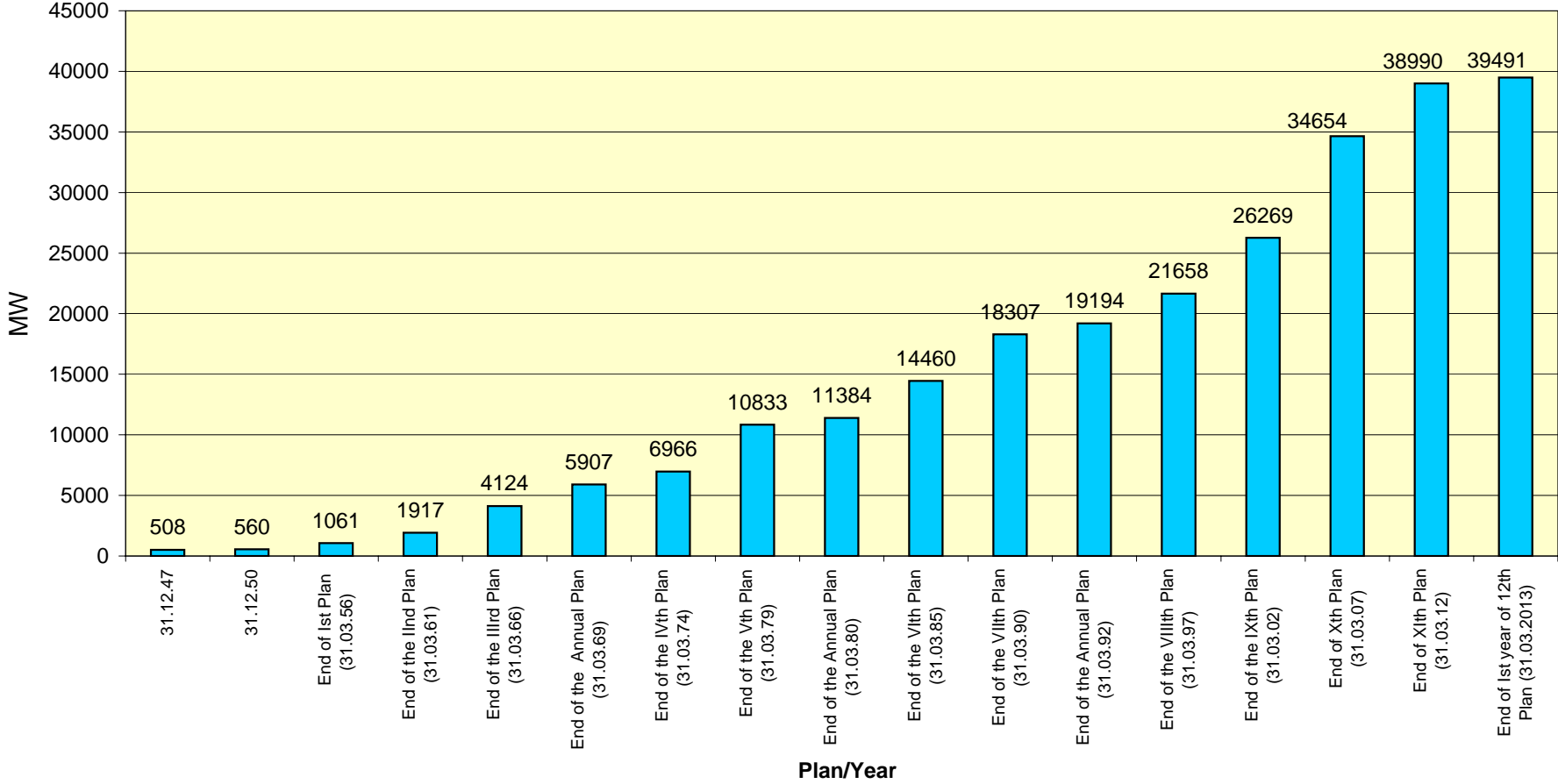
\$- India data pertains to 2010-11 & 2011-12. The provisional figure for 2012-13 is 917.2 kWh.

Table 2
PLANWISE GROWTH OF INSTALLED GENERATING CAPACITY IN INDIA - MODE-WISE
Utilities

SL.No	As on	Hydro	Thermal				Nuclear	RES #	Total
			Coal/Lignite	Gas	Diesel	Total			
1	31.12.47	508	756	0	98	854	0	0	1362
2	31.12.50	560	1004	0	149	1153	0	0	1713
3	31.03.56 (End of the 1st Plan)	1061	1597	0	228	1825	0	0	2886
4	31.03.61 (End of the 2nd Plan)	1917	2436	0	300	2736	0	0	4653
5	31.03.66(End of the 3rd Plan)	4124	4417	134	352	4903	0	0	9027
6	31.03.69 (End of the 3 Annual Plans)	5907	6640	134	276	7050	0	0	12957
7	31.03.74 (End of the 4th Plan)	6966	8652	165	241	9058	640	0	16664
8	31.03.79(End of the 5th Plan)	10833	14875	168	164	15207	640	0	26680
9	31.03.80 (End of the 2 Annual Plans)	11384	15991	268	165	16424	640	0	28448
10	31.03.85 (End of the 6th Plan)	14460	26311	542	177	27030	1095	0	42585
11	31.03.90 (End of the 7th Plan)	18307	41236	2343	165	43764	1565	0	63636
12	31.03.92 (End of the 2 Annual Plans)	19194	44791	3095	168	48054	1785	32	69065
13	31.03.97 (End of the 8th Plan)	21658	54154	6562	294	61010	2225	902	85795
14	31.03.02 (End of the 9th Plan)	26269	62131	11163	1135	74429	2720	1628	105046
15	31.03.07 (End of 10th Plan)	34654	71121	13692	1202	86015	3900	7760	132329
16	31.03.12 (End of 11th Plan)	38990	112022	18381	1200	131603	4780	24504	199877
17	31.03.13 (End of 1st year of 12th Plan)	39491 #	130221	20110	1200	151531	4780	27542	223344

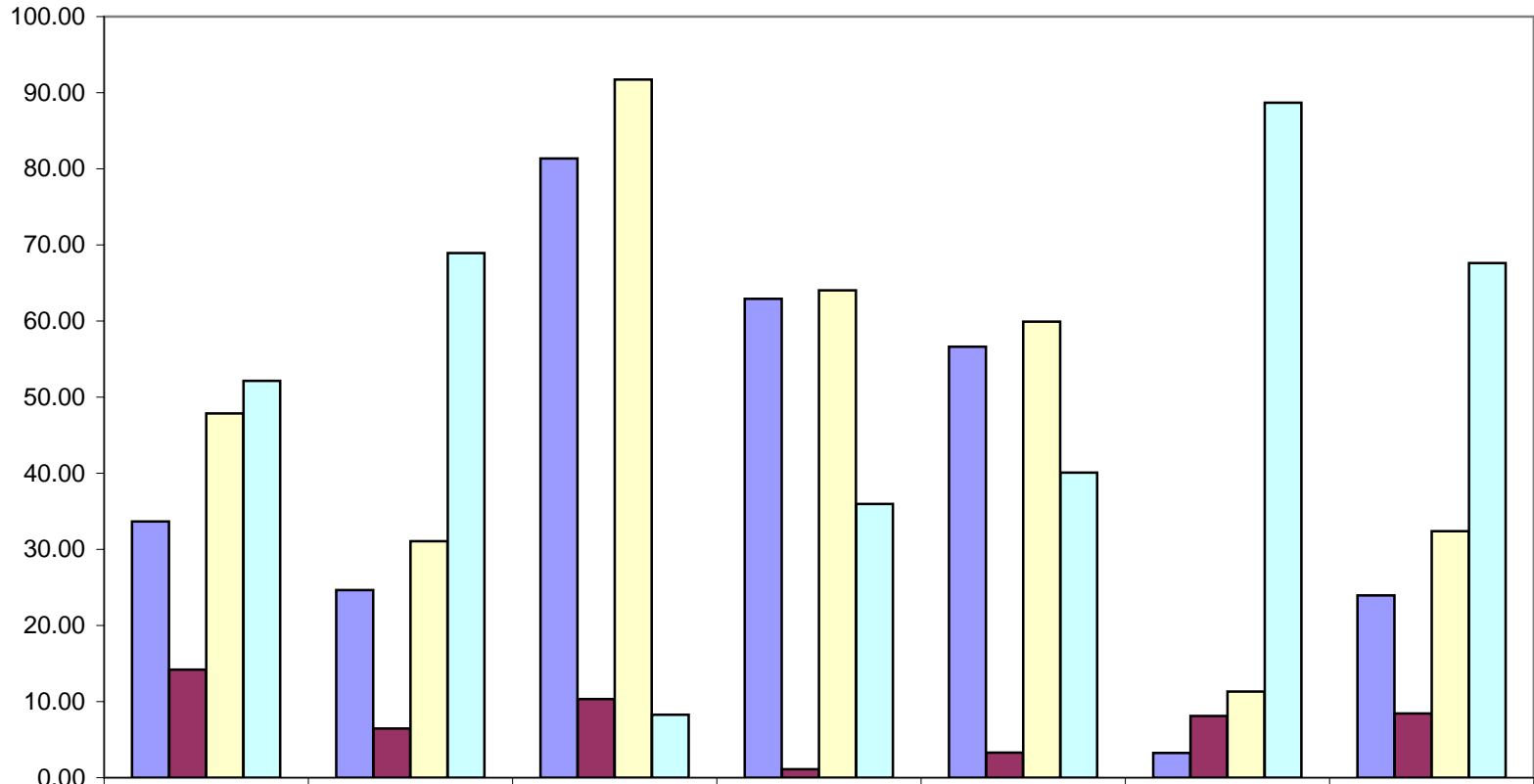
(#) RES:-Renewable Energy Sources includes Hydro capacity of 25.00 MW and below .

PLANWISE GROWTH OF INSTALLED GENERATING CAPACITY IN INDIA HYDRO ELECTRIC POWER STATIONS



Basinwise Status of Hydro Electric Potential Development
In terms of Installed Capacity above 25 MW
% wise (As on 30.06.2013)

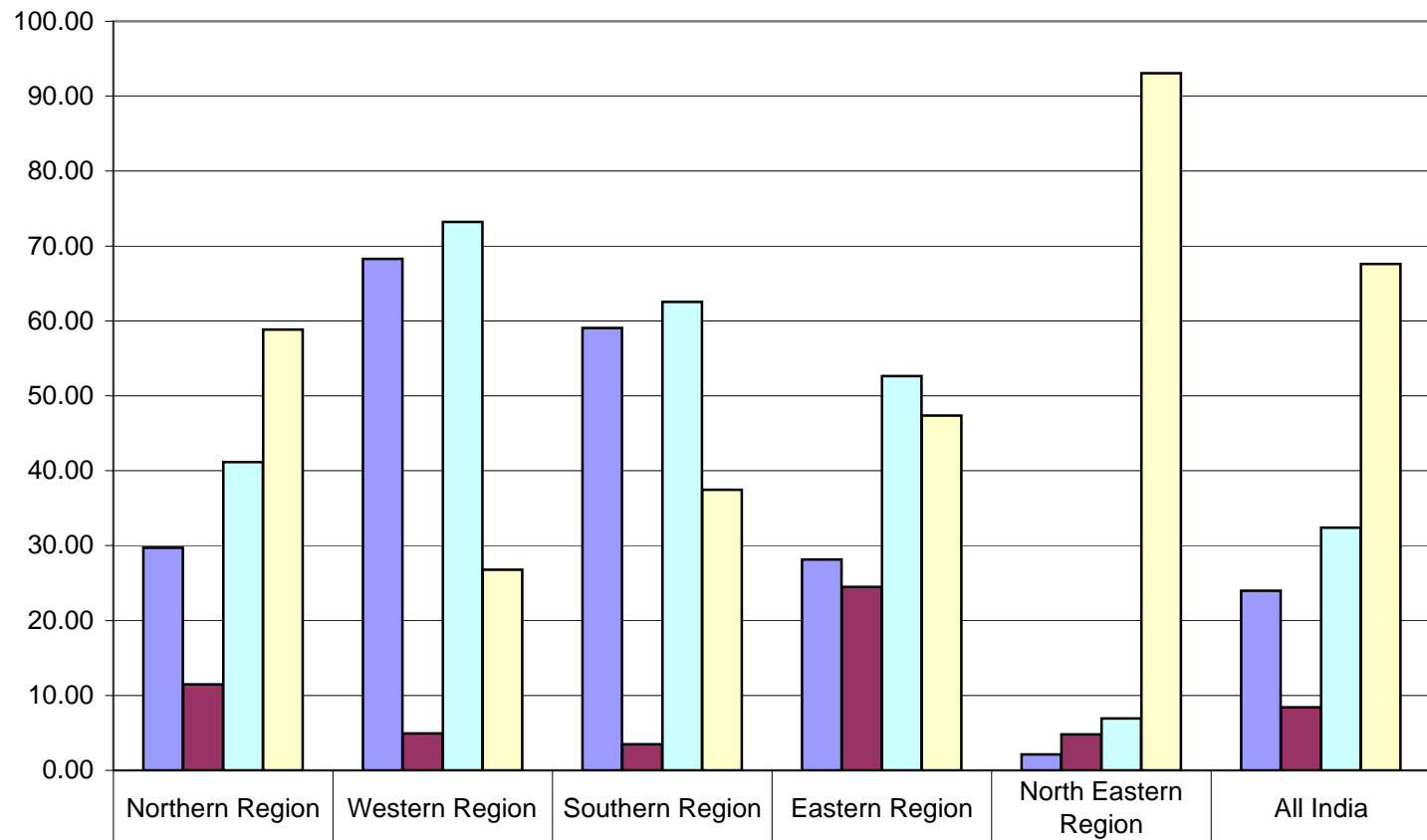
Chart :6 A



	Indus	Ganga	Central Indian Rivers	West Flowing Rivers	East Flowing Rivers	Brahmaputra Basin	All India
■ % Capacity Developed	33.68	24.63	81.37	62.92	56.61	3.24	23.97
■ % Cap. Under Construction	14.19	6.45	10.34	1.11	3.30	8.09	8.42
■ % Cap. Dev. + Under Con.	47.87	31.08	91.71	64.03	59.91	11.33	32.40
■ % Balance Potential	52.13	68.92	8.29	35.97	40.09	88.67	67.60

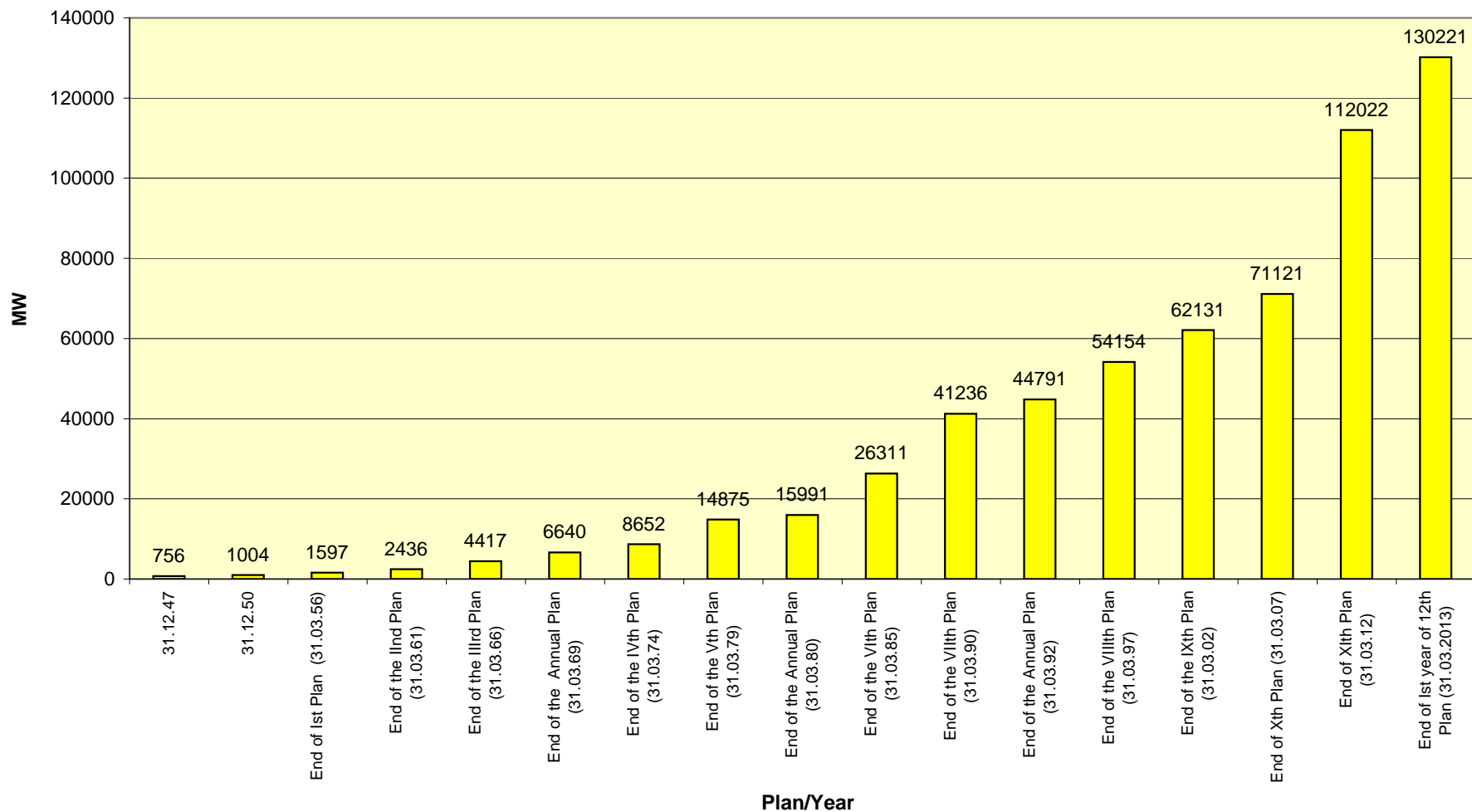
Regionwise Status of Hydro Electric Potential Development In terms of Installed Capacity above 25 MW % wise (As on 30.06.2013)

Chart :6 B

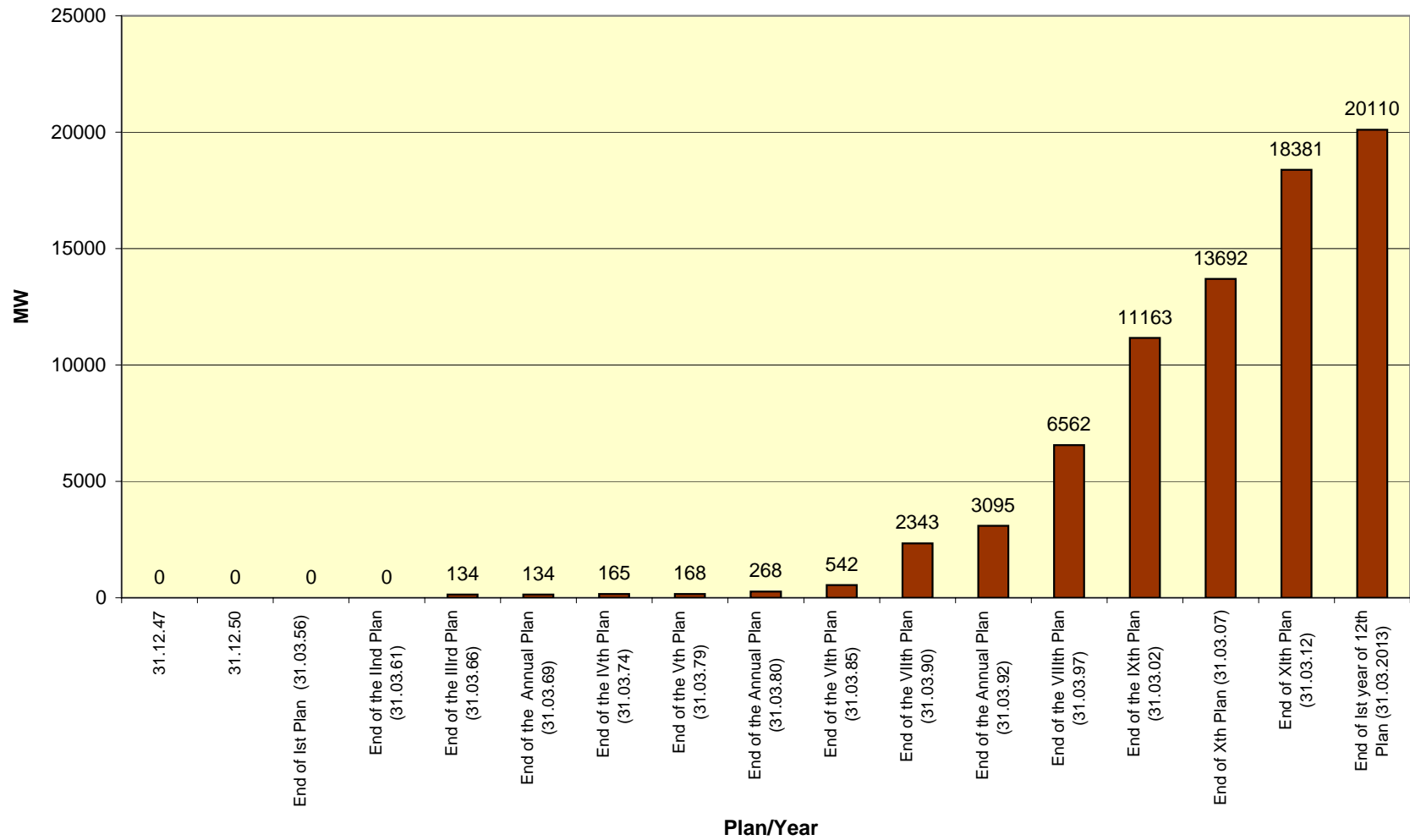


■ % Capacity Developed	29.70	68.28	59.04	28.15	2.13	23.97
■ %Cap. Under Construction	11.47	4.92	3.49	24.48	4.82	8.42
■ %Cap. Dev. +Under Construction	41.17	73.20	62.54	52.63	6.94	32.40
■ % Capacity yet to be Developed	58.83	26.80	37.46	47.37	93.06	67.60

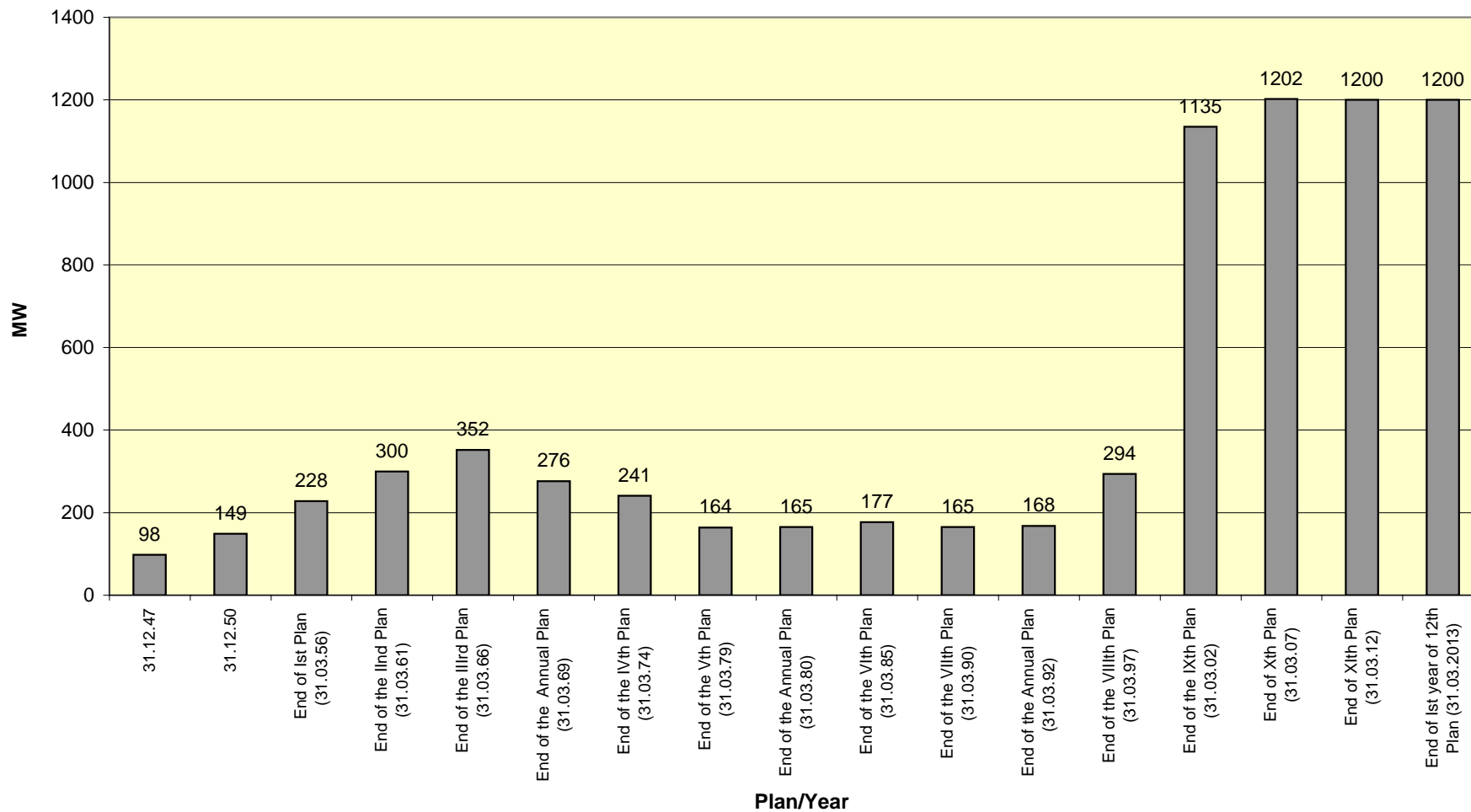
PLANWISE GROWTH OF INSTALLED GENERATING CAPACITY IN INDIA COAL/ LIGNITE BASED PLANTS



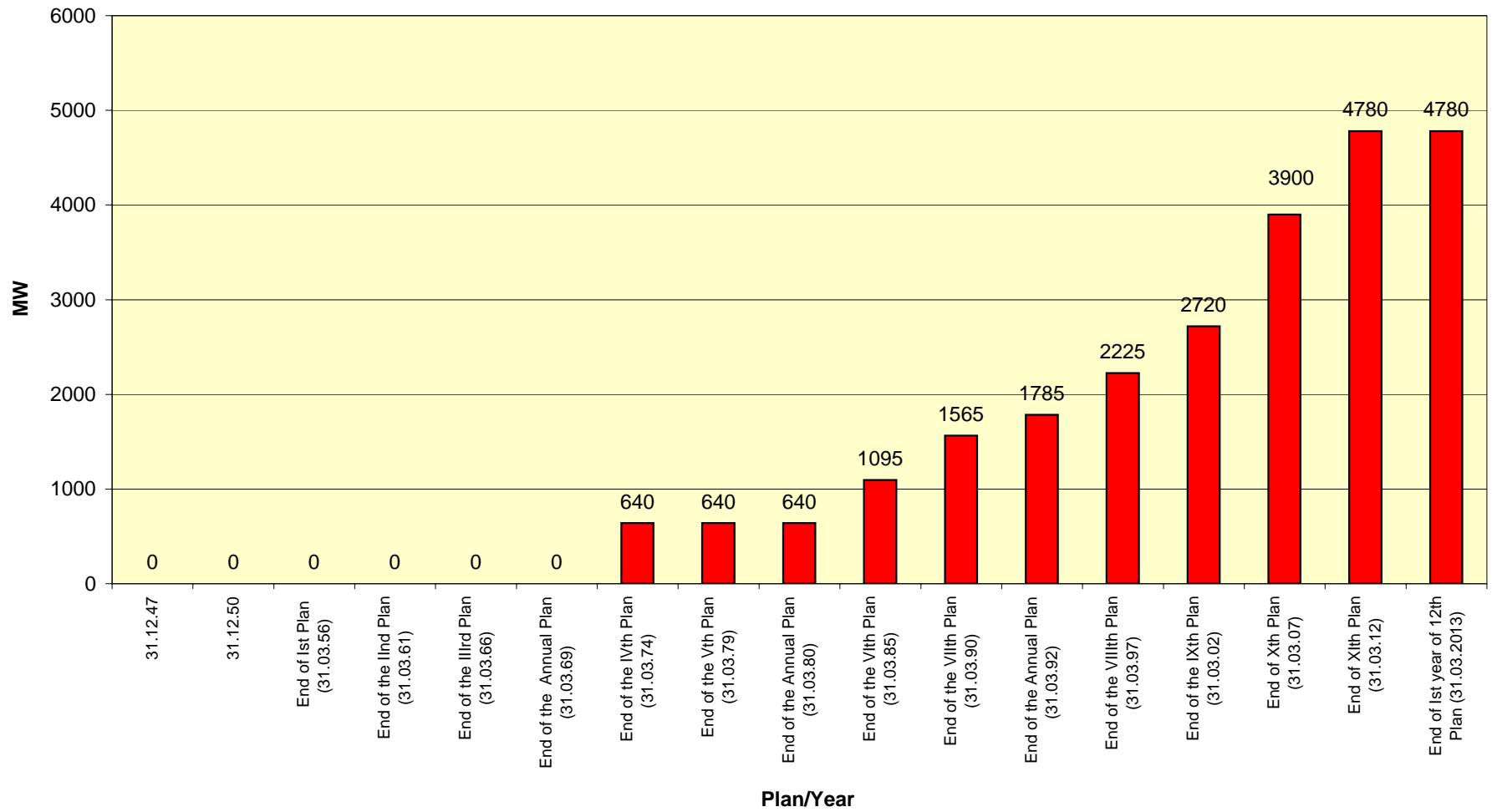
PLANWISE GROWTH OF INSTALLED GENERATING CAPACITY IN INDIA GAS/LIQUID BASED PLANTS



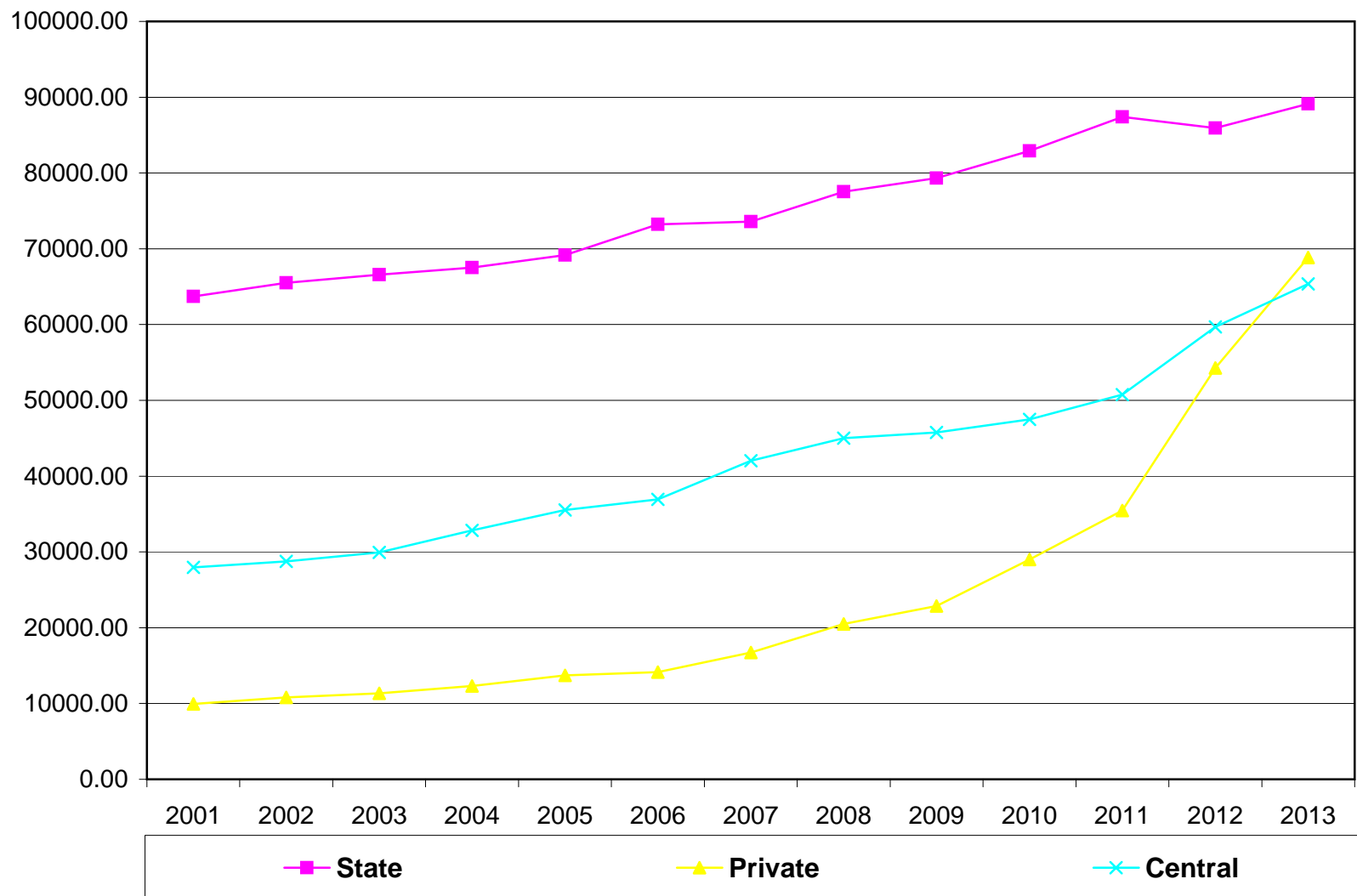
PLANWISE GROWTH OF INSTALLED GENERATING CAPACITY IN INDIA DIESEL ENGINE BASED PLANTS



PLANWISE GROWTH OF INSTALLED GENERATING CAPACITY IN INDIA NUCLEAR POWER PLANTS

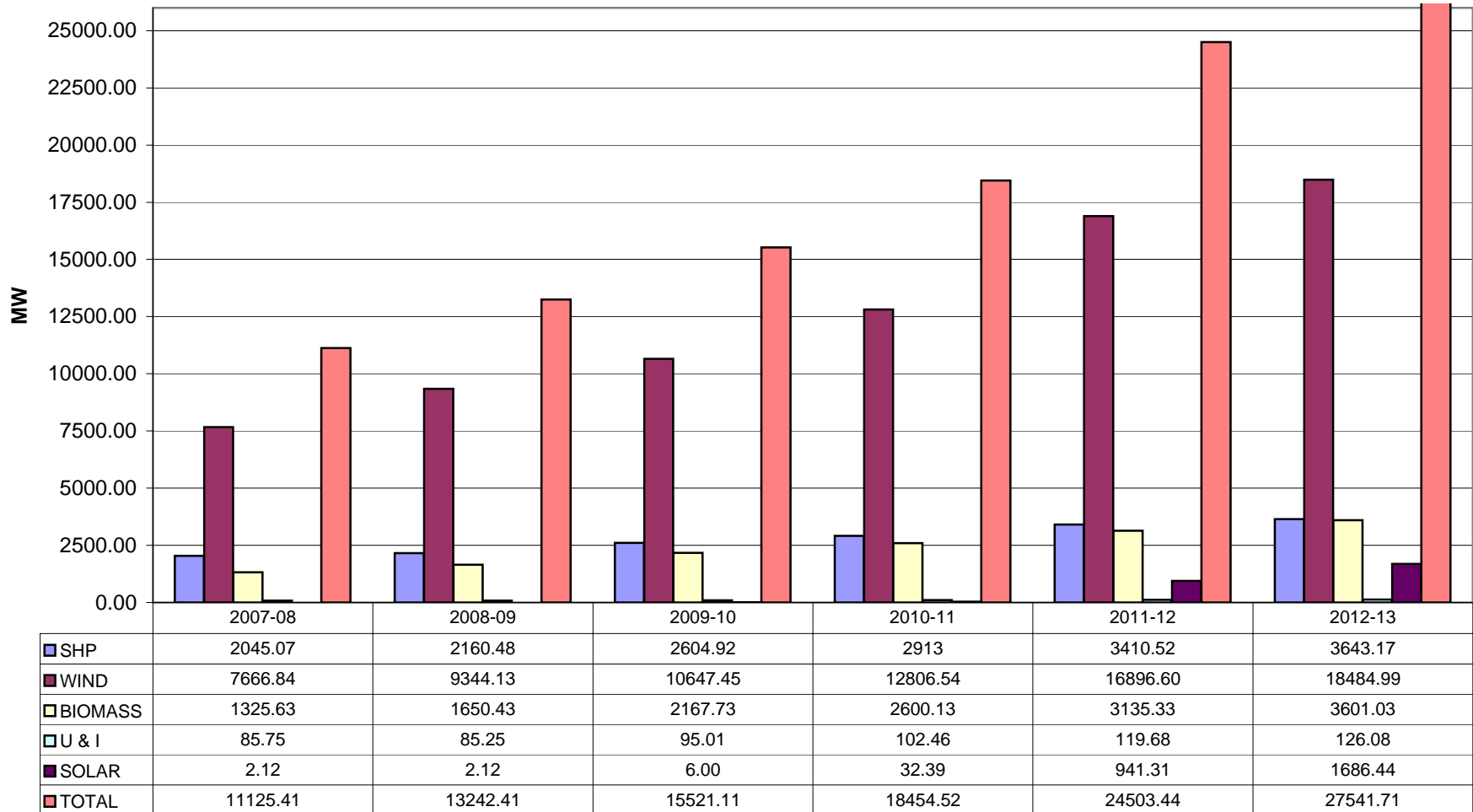


SECTORWISE GROWTH OF GENERATION CAPACITY (MW) 2000-01 TO 2012-13



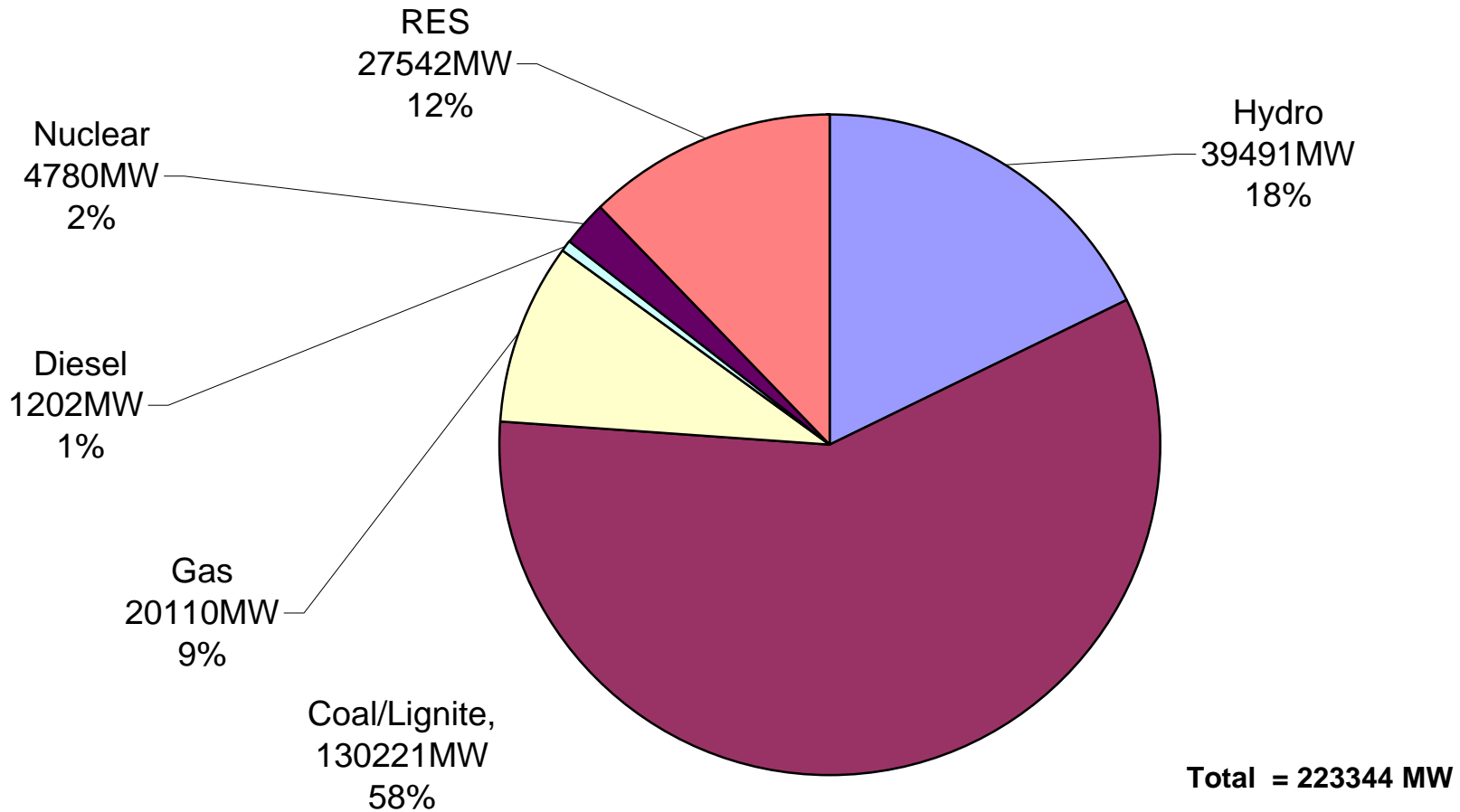
MODEWISE GROWTH OF GENERATING CAPACITY OF R.E.S. DURING 12TH PLAN

Chart :8 B



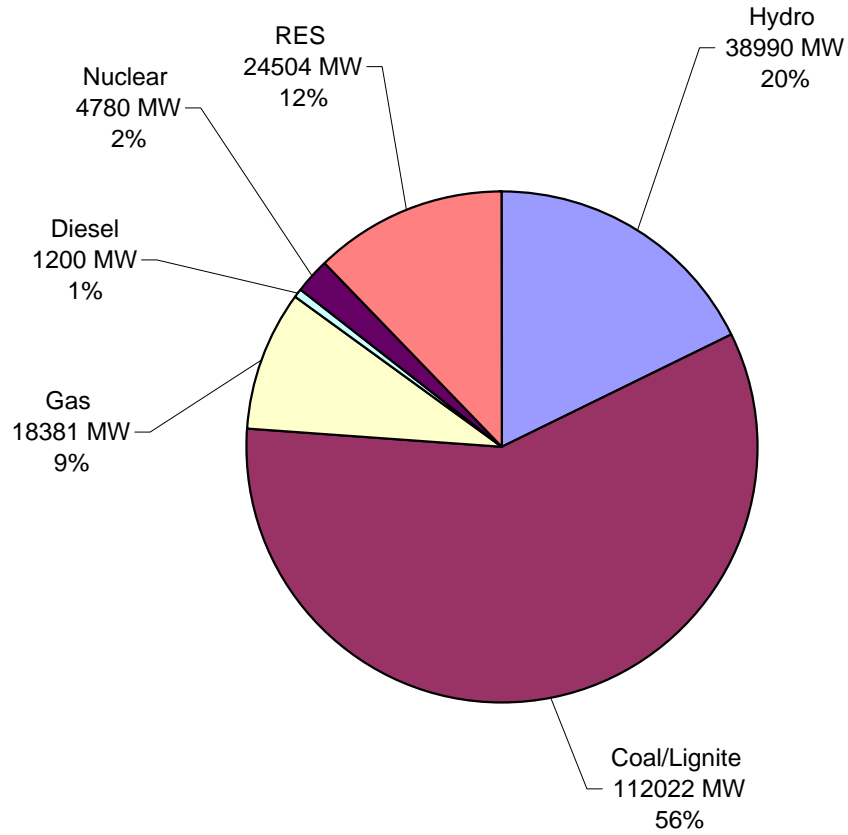
**ALL INDIA INSTALLED GENERATING CAPACITY- END OF 1st YEAR OF 12th PLAN
31.03.2013
UTILITIES**

Pie Chart : 9



**ALL INDIA INSTALLED GENERATING CAPACITY- END OF 11TH PLAN
(31.03.2012)
UTILITIES**

Pie Chart : 9A



Total = 19987.7 MW

Table 3
PLANWISE GROWTH OF GROSS ELECTRICITY GENERATION IN INDIA - MODE-WISE
UTILITIES

SL.No	During financial year ending with	Hydro	Thermal				Nuclear	RES	Total
			Coal \$	Gas	Diesel	Total			
1	1947	2195	1733	0	144	1877	0	0	4073
2	1950	2519	2587	0	200	2787	0	0	5106
3	1955-56 (End of the 1st Plan)	4295	5367	0	233	5600	0	0	9662
4	1960-61 (End of the 2nd Plan)	7837	9100	0	368	9468	0	0	16937
5	1965-66(End of the 3rd Plan)	15225	17765	69	324	18158	0	0	32990
6	1968-69(End of the 3 Annual Plans)	20723	26711	124	194	27029	0	0	47434
7	1973-74(End of the 4th Plan)	28972	34853	343	125	35321	2396	0	66689
8	1978-79(End of the 5th Plan)	47159	52024	515	55	52594	2770	0	102523
9	1979-80(End of the Annual Plan)	45478	55720	500	53	56273	2876	0	104627
10	1984-85 (End of the 6th Plan)	53948	96957	1834	45	98836	4075	0	156859
11	1989-90 (End of the 7th Plan)	62116	172643	5962	85	178690	4625	6	245438
12	1991-92(End of the 2 Annual Plans)	72757	197163	11450	95	208708	5525	38	287029
13	1996-97(End of the 8th Plan)	68901	289378	26985	679	317042	9071	876	395889
14	2001-02(End of the 9th Plan)	73579	370884	47099	4317	422300	19475	2085	517439
15	2006-07(End of the 10th Plan)	113502	461794	64157	2539	528490	18802	9860	670654
16	2011-12(End of the 11th Plan)	130511	612497	93281	2649	708427	32287	51226	922451
17	2012-13*(End of 1st year of 12th Plan)	113626	685857	71641	2278	759776	32871	57449	963722

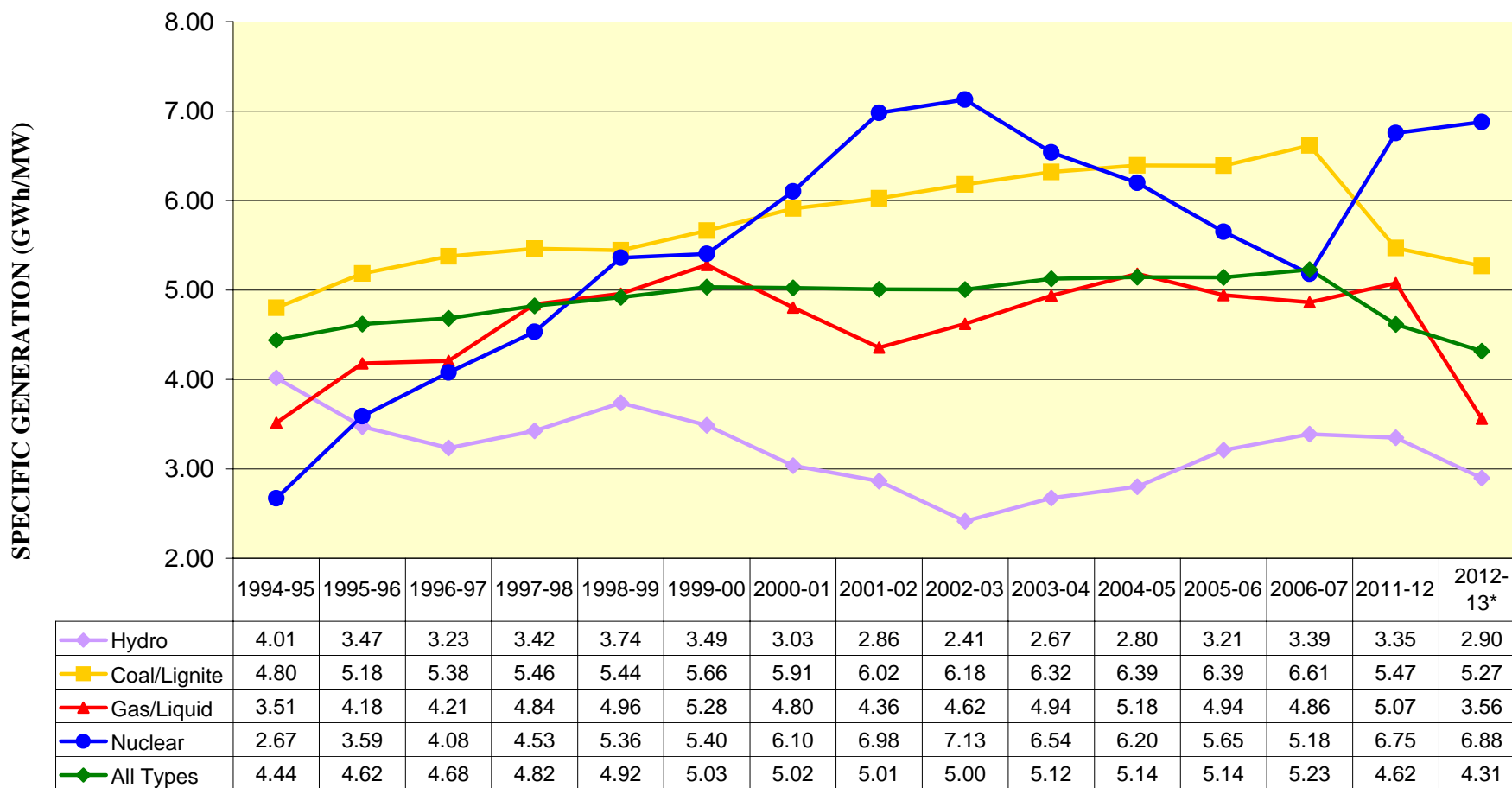
* Provisional

\$ Includes Lignite

RES : Renewable Energy Sources.

SPECIFIC GENERATION BY ALL INDIA POWER STATIONS MODE-WISE UTILITIES
1994 - 95 to 2012 - 13

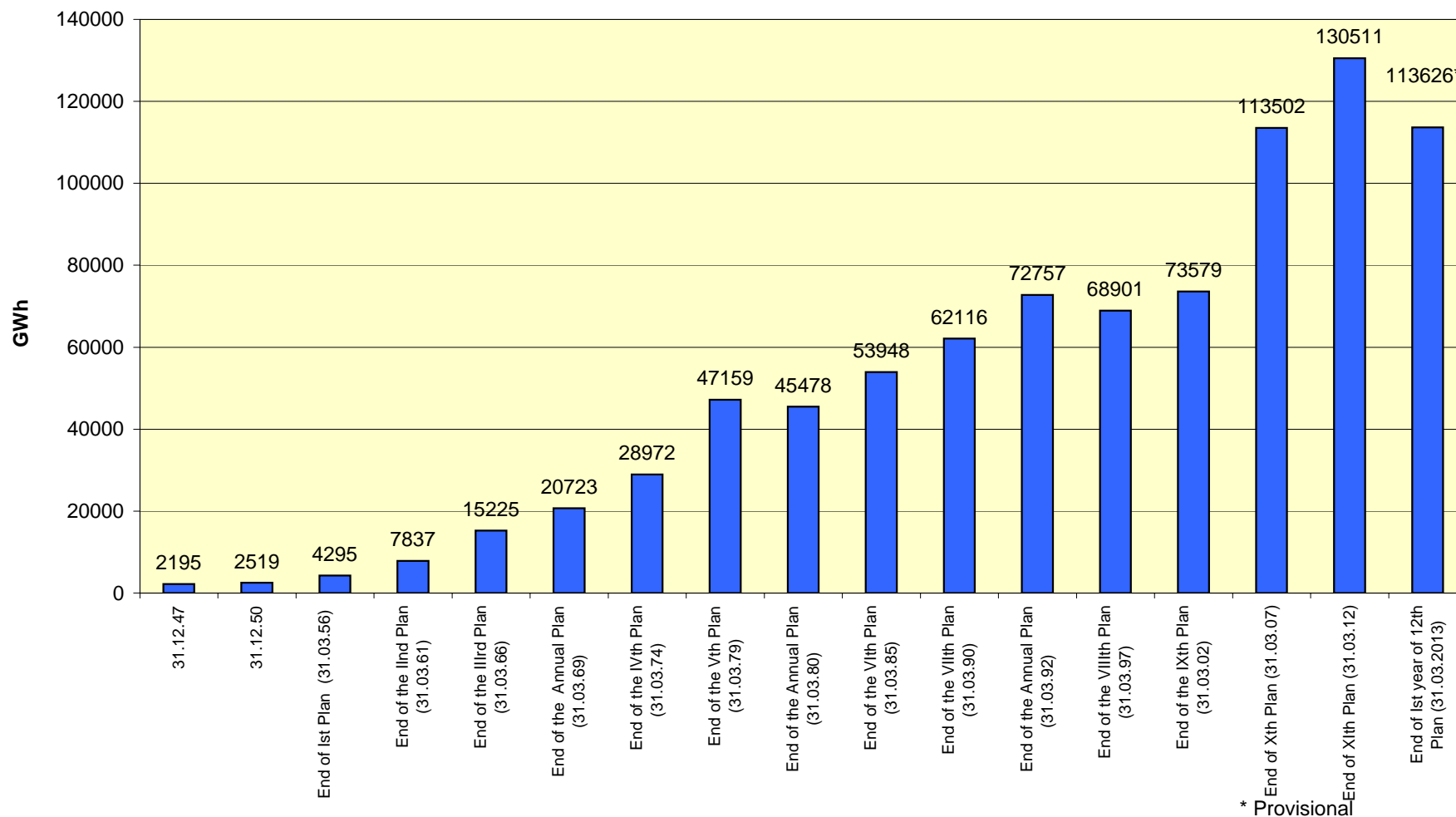
Chart : 10



Years

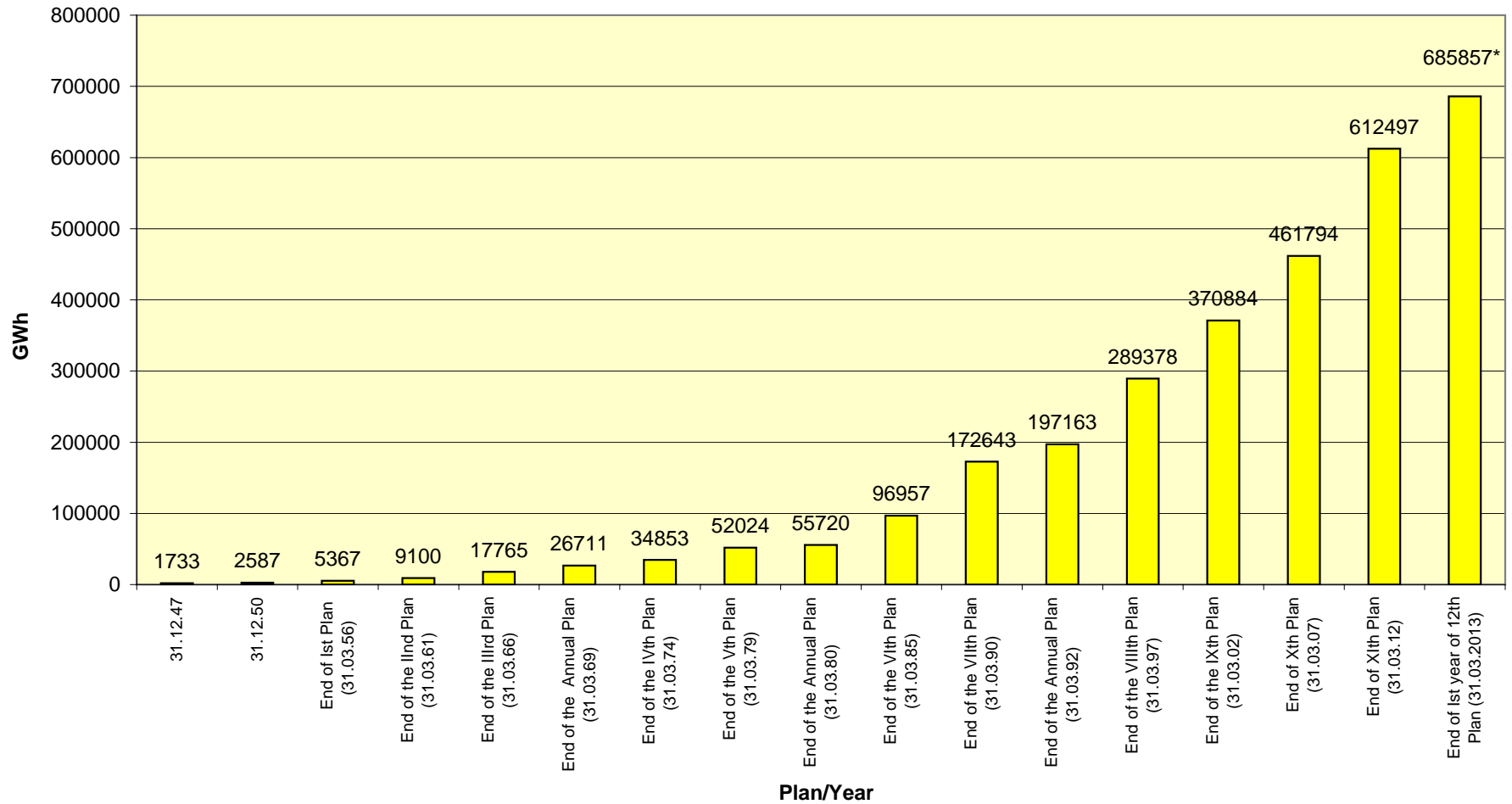
* Provisional

PLANWISE GROWTH OF ELECTRICITY GENERATION IN INDIA HYDRO ELECTRIC POWER STATIONS



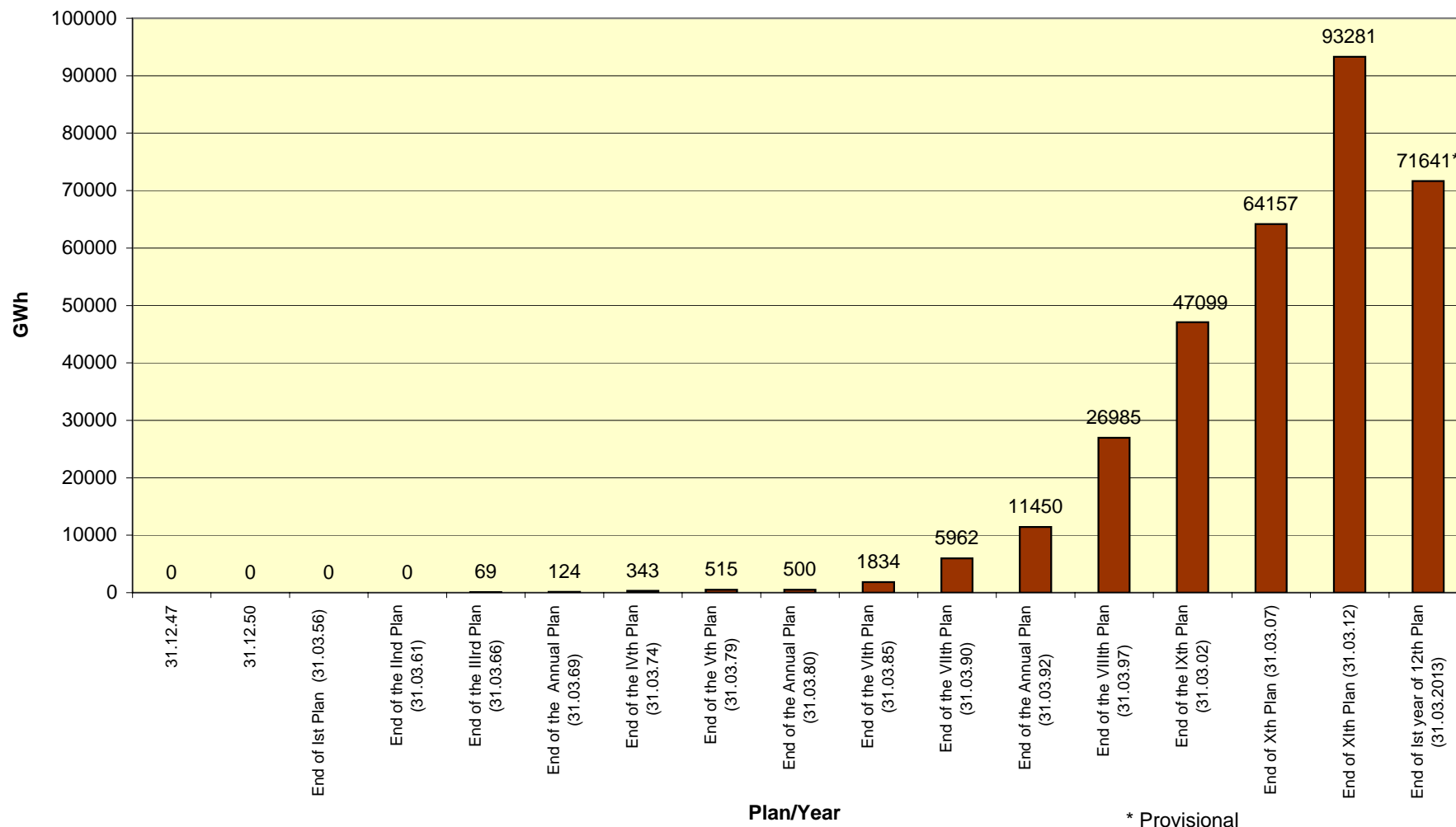
**PLANWISE GROWTH OF ELECTRICITY GENERATION IN INDIA
COAL/ LIGNITE BASED PLANTS**

Chart : 12A

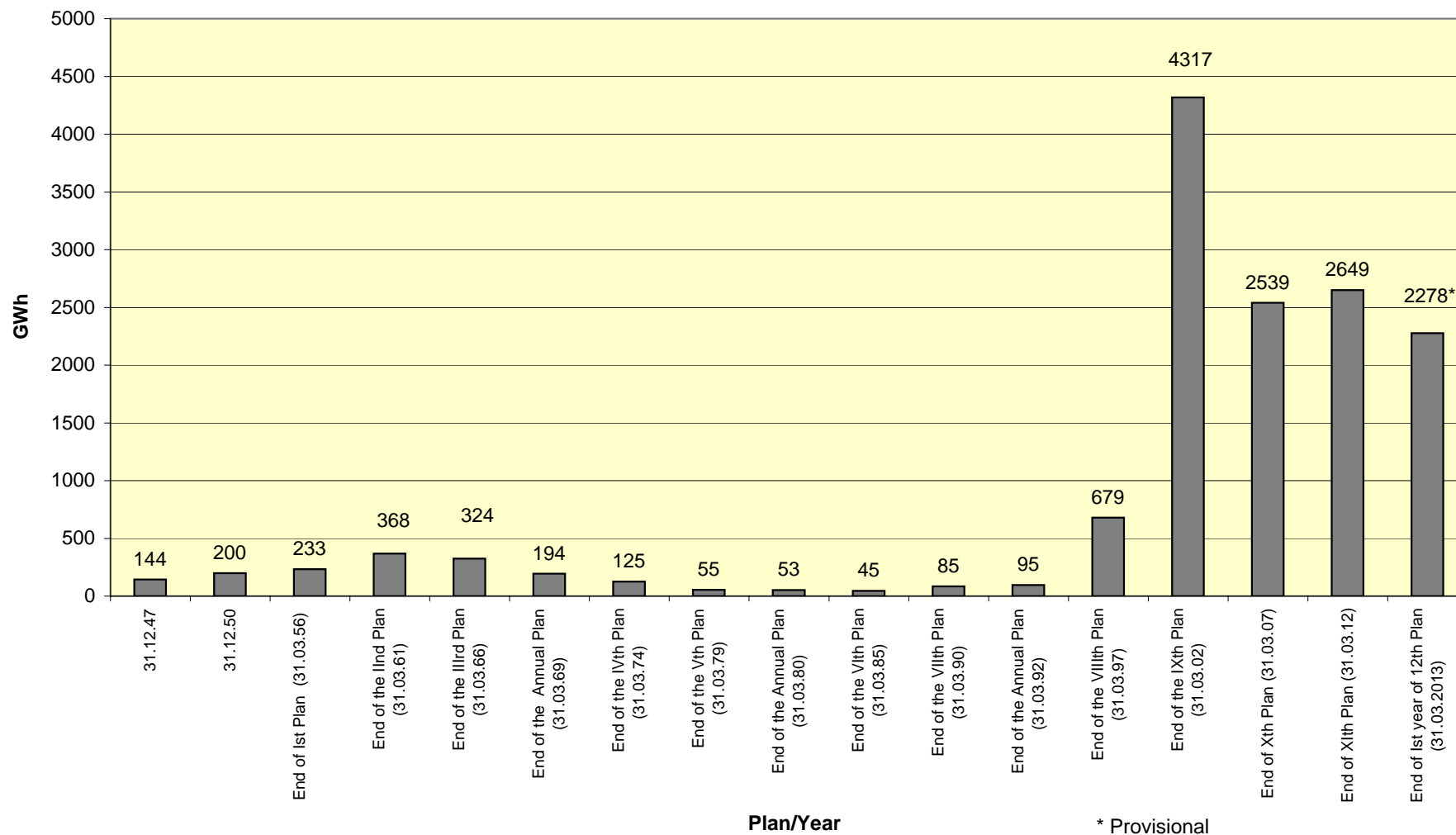


* Provisional

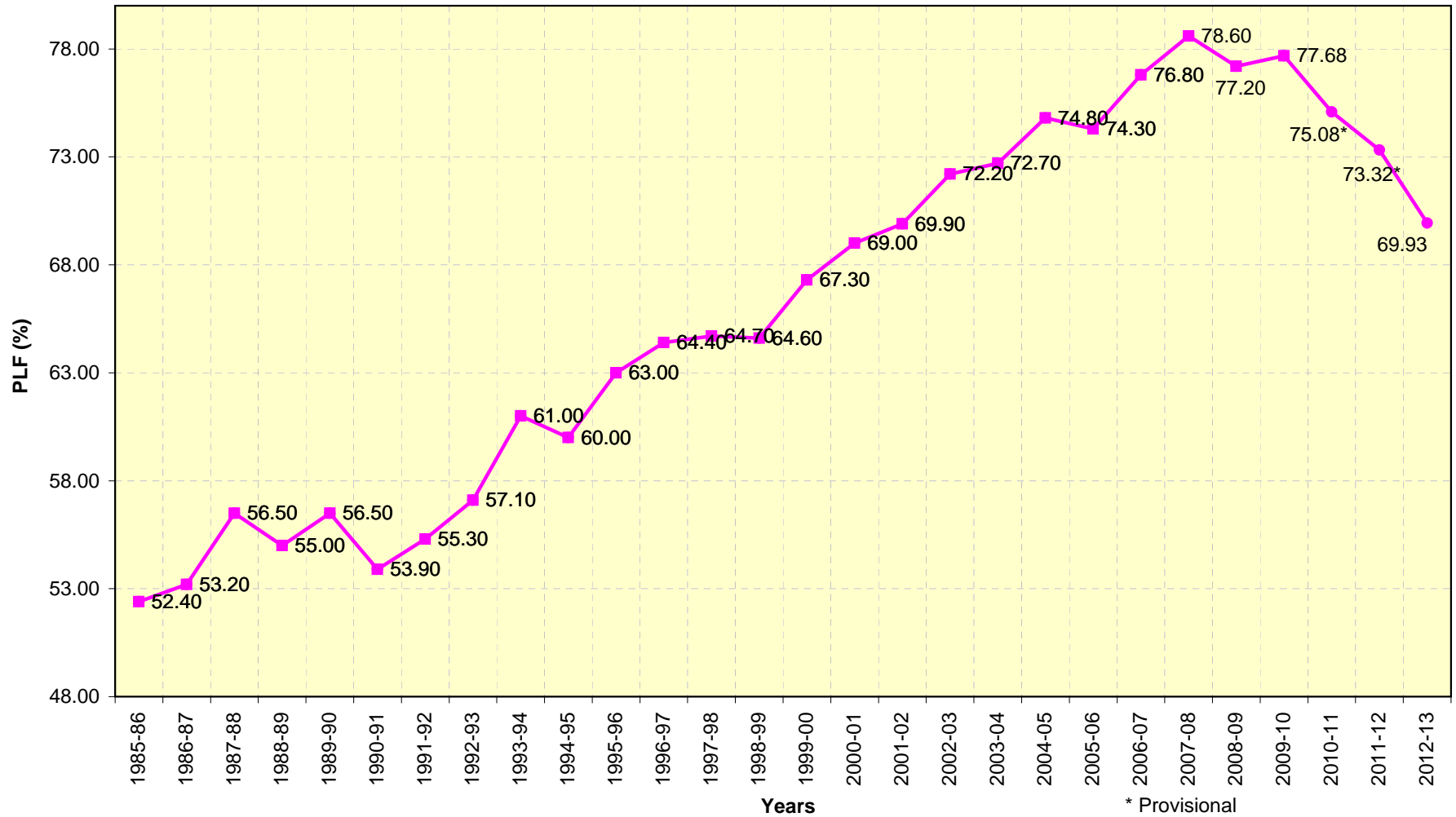
PLANWISE GROWTH OF ELECTRICITY GENERATION IN INDIA GAS / LIQUID FUEL BASED PLANTS



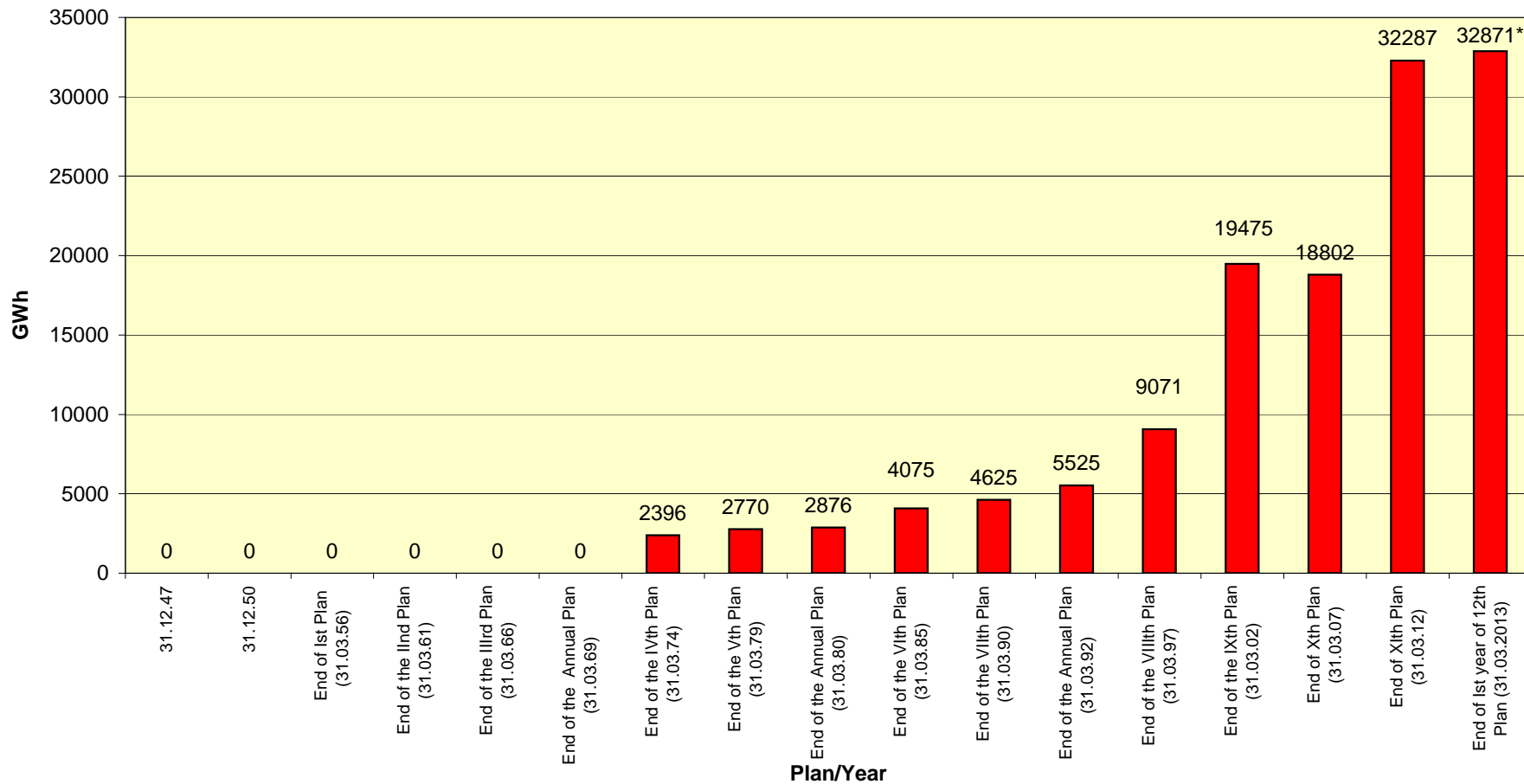
PLANWISE GROWTH OF ELECTRICITY GENERATION IN INDIA DIESEL BASED PLANTS



ALL INDIA PLF (%) OF THERMAL POWER STATIONS (COAL AND LIGNITE BASED)

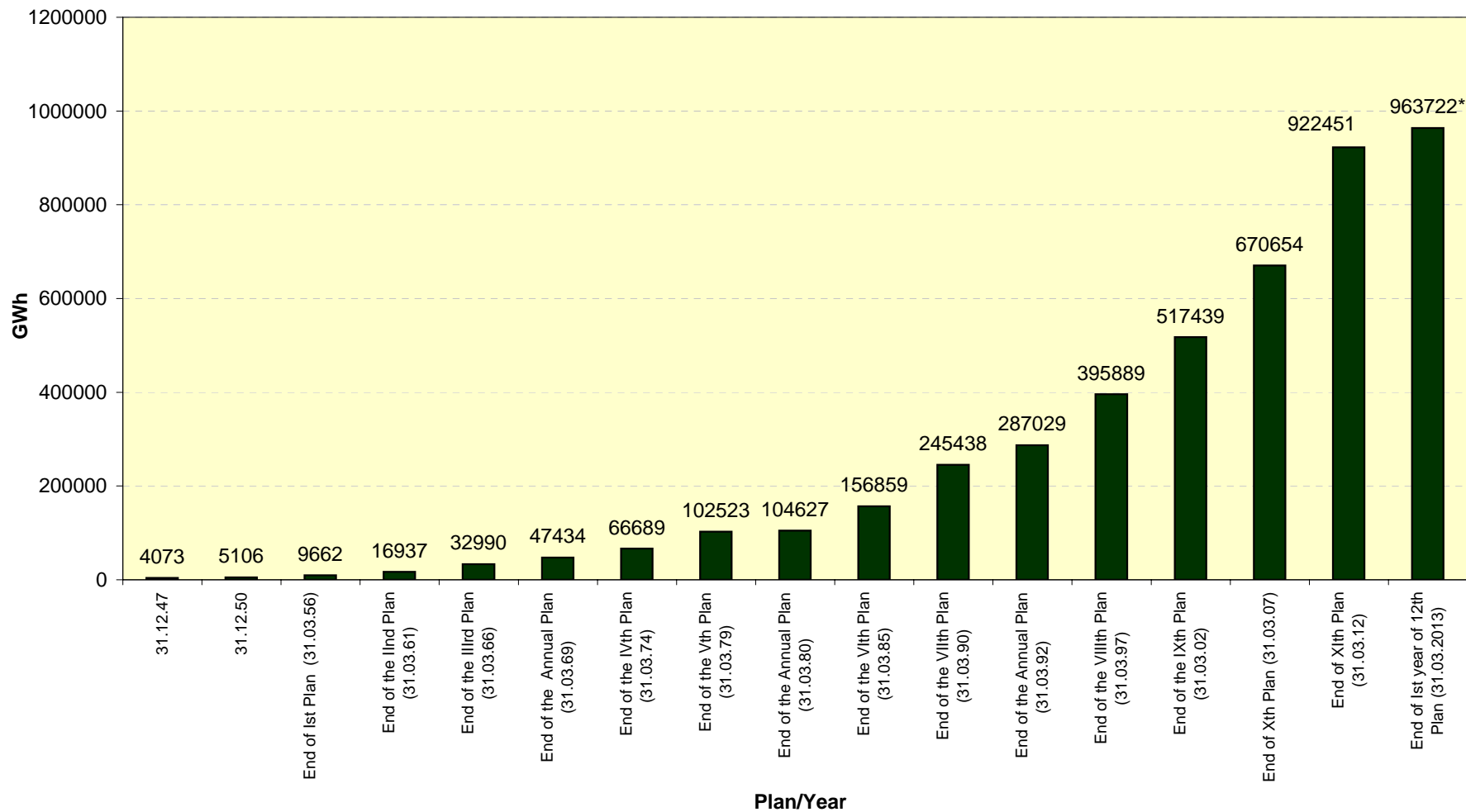


PLANWISE GROWTH OF ELECTRICITY GENERATION IN INDIA NUCLEAR POWER PLANTS



* Provisional

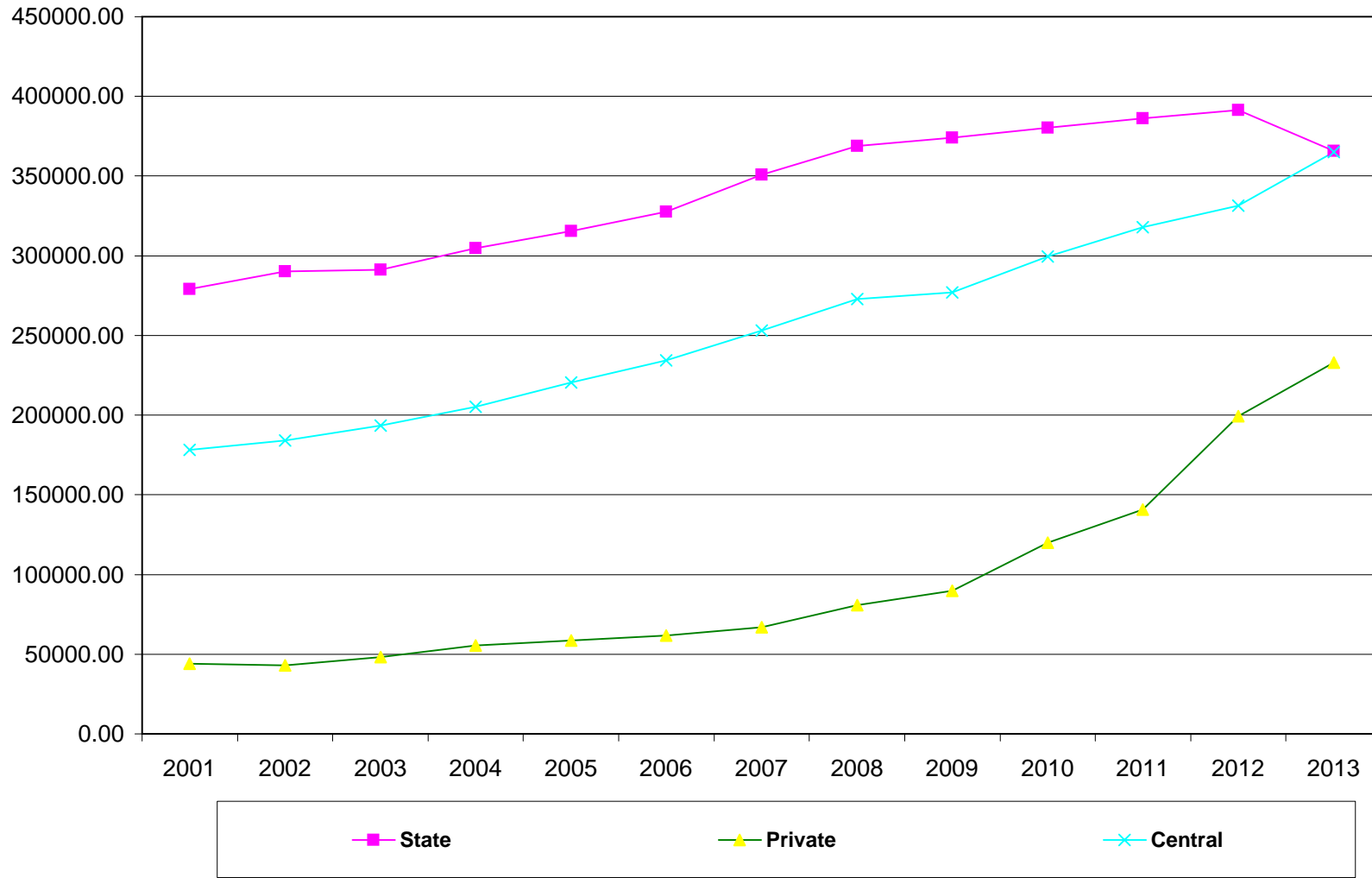
PLANWISE GROWTH OF ALL INDIA ELECTRICITY GENERATION UTILITIES



* Provisional

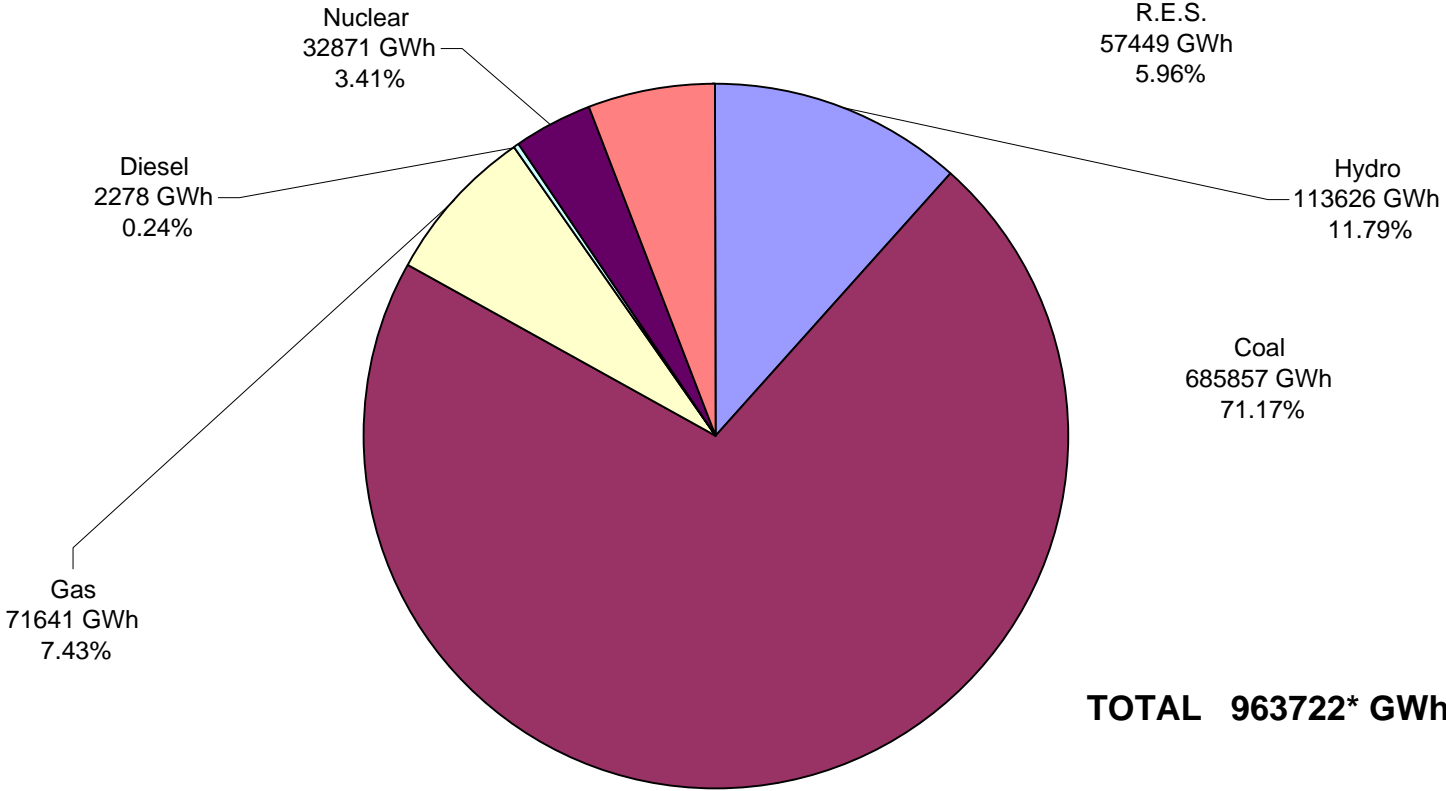
SECTORWISE GROWTH OF ENERGY GENERATION (GWh) 2000-01 TO 2012-13

Chart : 15A



GROSS ELECTRICITY GENERATION IN INDIA MODEWISE - END OF 1ST YEAR OF 12th PLAN
31.03.2013
UTILITIES

Pie Chart : 16



TOTAL 963722* GWh

* Provisional

GROSS ELECTRICITY GENERATION IN INDIA MODE-WISE END OF XITH PLAN (31.03.2012)
UTILITIES

Pie Chart : 16A

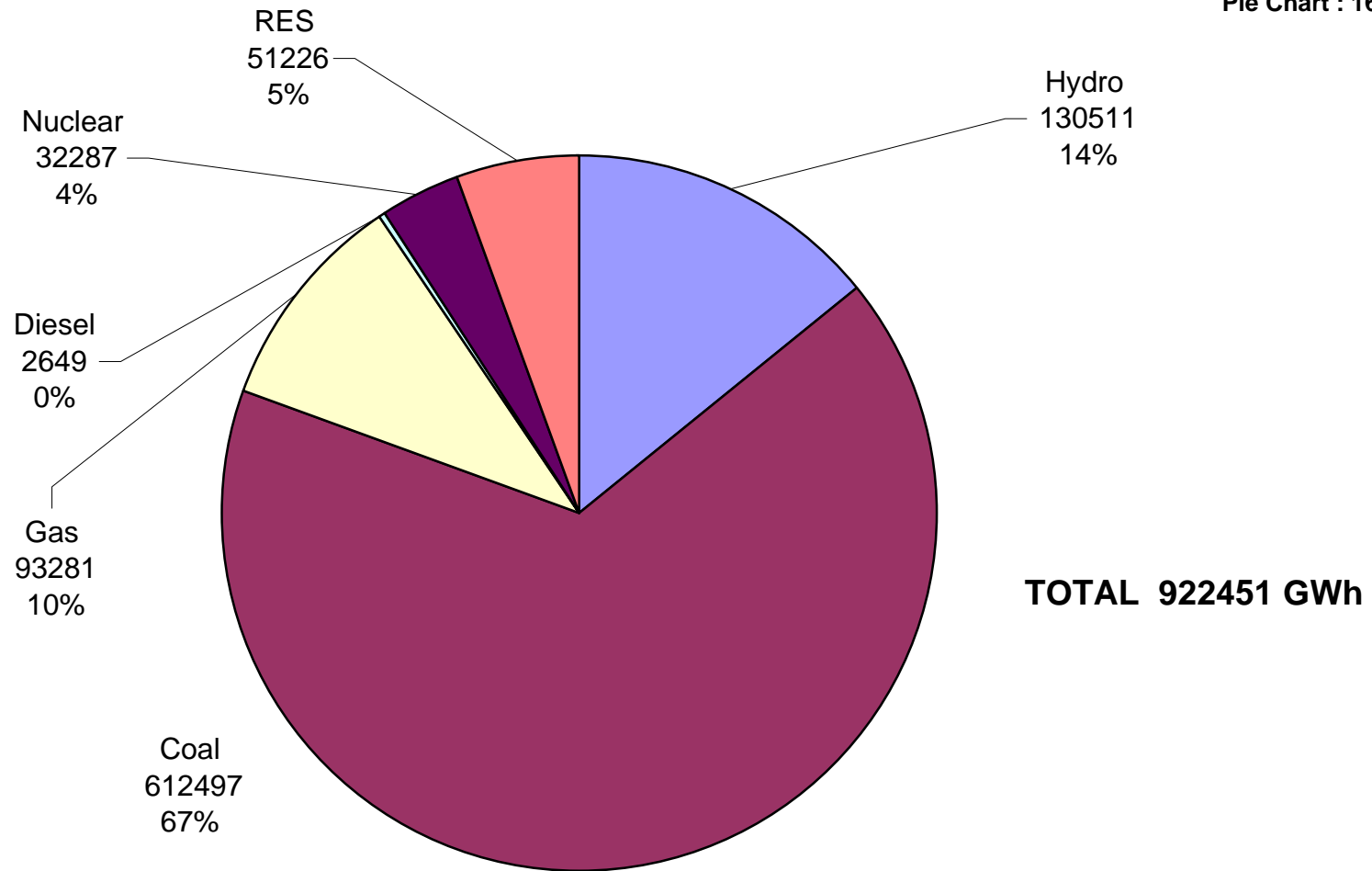
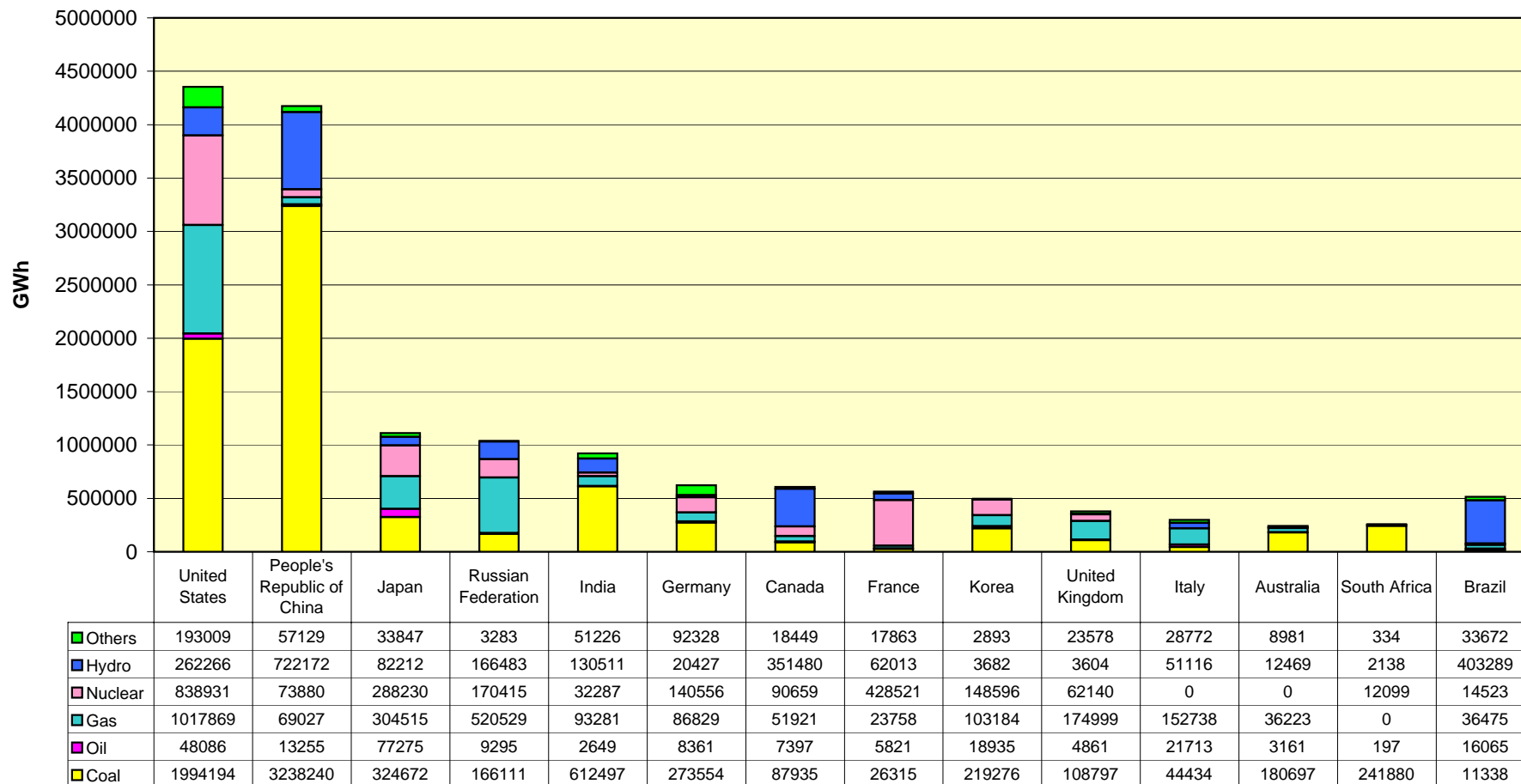


Chart : 17

**GROSS ELECTRICITY GENERATION IN VARIOUS COUNTRIES MODE- WISE
IN 2010**



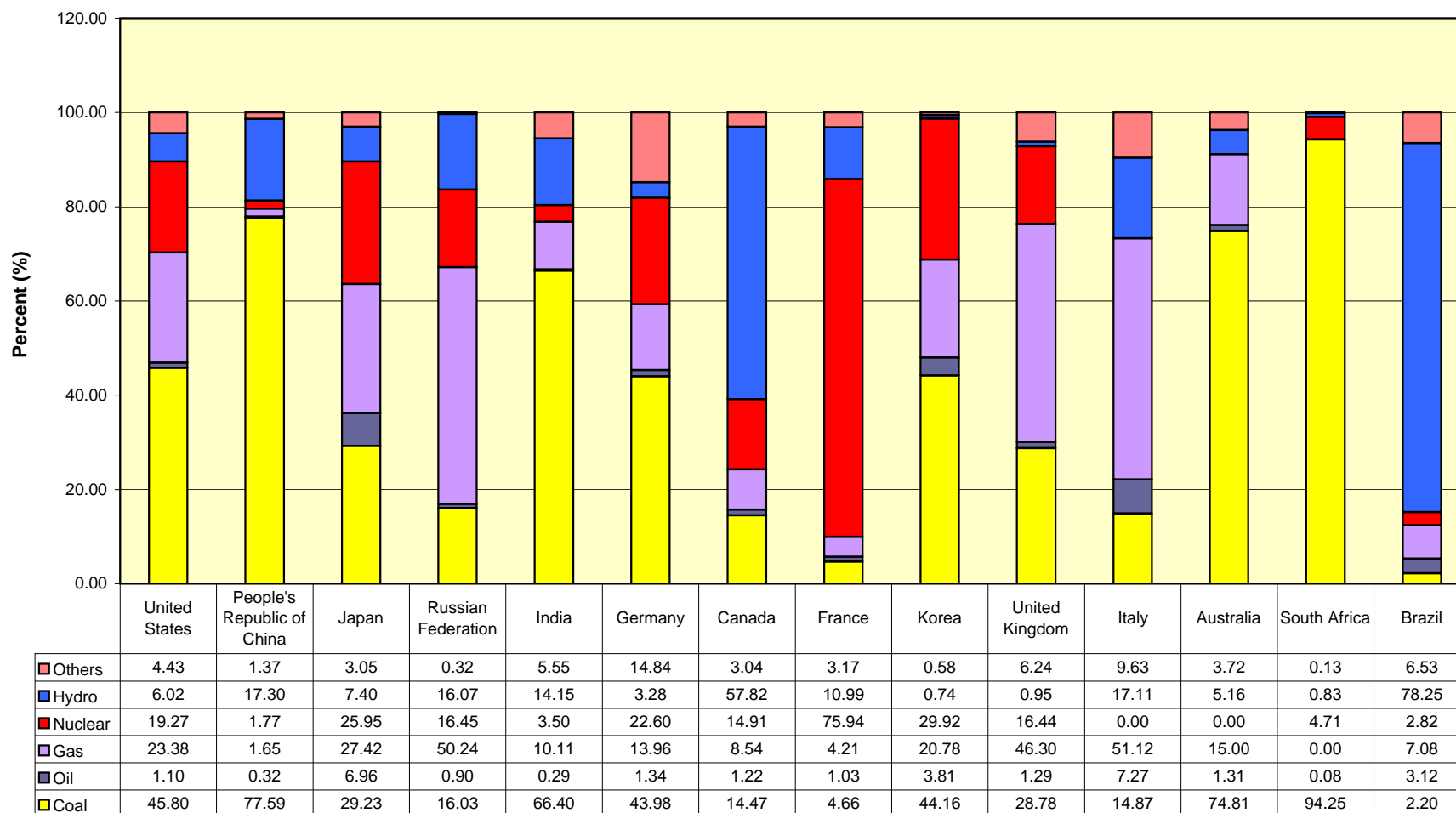
Source : - International Energy Agency (IEA).

Note :- India data pertains to 2011-12.

MODE- WISE SHARE IN ELECTRICITY GENERATION IN VARIOUS COUNTRIES

Chart : 18

IN %
2010



Source : - International Energy Agency (IEA).

Note :- India data pertains to 2011-12.

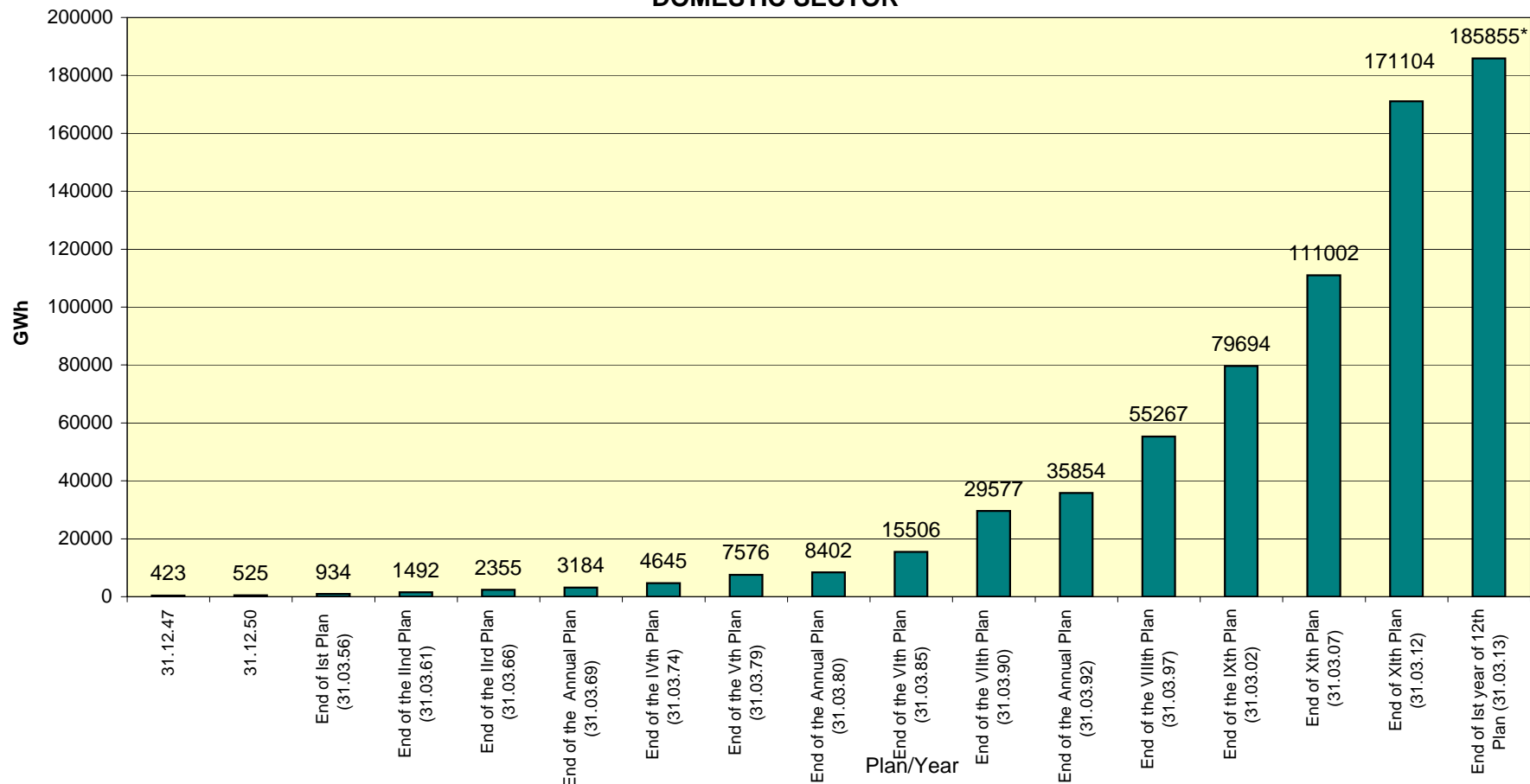
Table: 4
PLAN/CATEGORY-WISE GROWTH OF ELECTRICITY CONSUMPTION IN INDIA
UTILITIES & NON-UTILITIES

(GWh)

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	2960	70.78	277	6.62	125	2.99	219	5.24	4182
2	1950	525	9.36	309	5.51	4057	72.32	308	5.49	162	2.89	249	4.44	5610
3	1955-56 (End of the 1st Plan)	934	9.20	546	5.38	7514	74.03	405	3.99	316	3.11	435	4.29	10150
4	1960-61 (End of the 2nd Plan)	1492	8.88	848	5.05	12547	74.67	454	2.70	833	4.96	630	3.75	16804
5	1965-66(End of the 3rd Plan)	2355	7.73	1650	5.42	22596	74.19	1057	3.47	1892	6.21	905	2.97	30455
6	1968-69(End of the 3 Annual Plans)	3184	7.69	2126	5.14	29931	72.31	1247	3.01	3465	8.37	1439	3.48	41392
7	1973-74(End of the 4th Plan)	4645	8.36	2988	5.38	37791	68.02	1531	2.76	6310	11.36	2292	4.13	55557
8	1978-79(End of the 5th Plan)	7576	9.02	4330	5.15	54440	64.81	2186	2.60	12028	14.32	3445	4.10	84005
9	1979-80(End of the 2 Annual Plans)	8402	9.85	4657	5.46	53206	62.35	2301	2.70	13452	15.76	3316	3.89	85334
10	1984-85 (End of the 6th Plan)	15506	12.45	6937	5.57	73520	59.02	2880	2.31	20961	16.83	4765	3.83	124569
11	1989-90 (End of the 7th Plan)	29577	15.16	9548	4.89	100373	51.45	4070	2.09	44056	22.58	7474	3.83	195098
12	1991-92(End of the 2 Annual Plans)	35854	15.51	12032	5.20	110844	47.94	4520	1.96	58557	25.33	9394	4.06	231201
13	1996-97(End of the 8th Plan)	55267	17.53	17519	5.56	139253	44.17	6594	2.09	84019	26.65	12642	4.01	315294
14	2001-02(End of the 9th Plan)	79694	21.27	24139	6.44	159507	42.57	8106	2.16	81673	21.80	21551	5.75	374670
15	2006-07(End of 10th Plan)	111002	21.12	40220	7.65	241216	45.89	10800	2.05	99023	18.84	23411	4.45	525672
16	2011-12 (End of 11th Plan)	171104	21.79	65381	8.33	352291	44.87	14206	1.81	140960	17.95	41252	5.25	785194
17	2012-13* (End of 1st year of 12th Plan)	185858	21.79	71019	8.33	382670	44.87	15431	1.81	153116	17.95	44809	5.25	852903

(*) Estimated

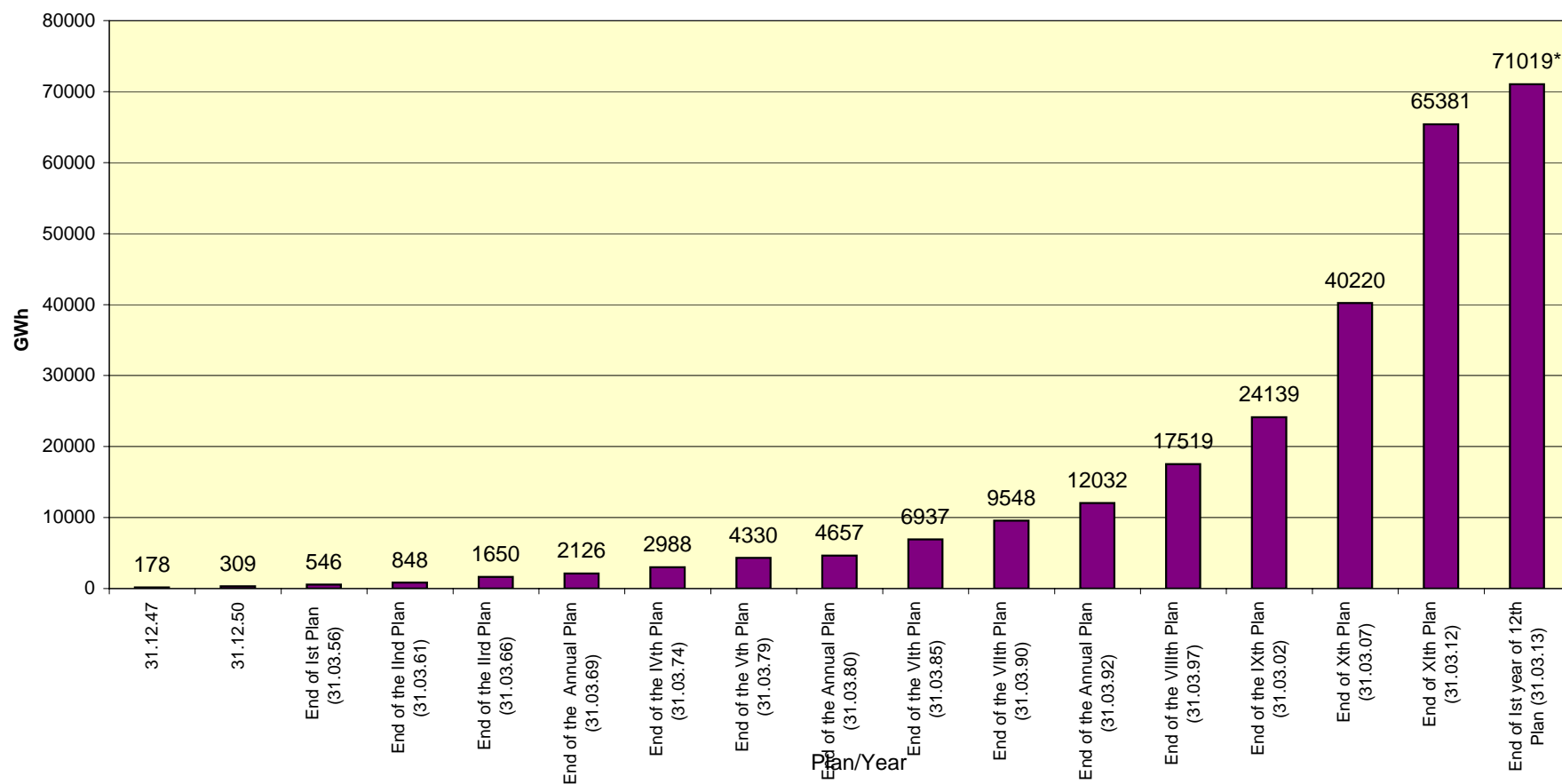
PLANWISE GROWTH OF ELECTRICITY CONSUMPTION IN INDIA DOMESTIC SECTOR



Year	1947-50	1950-60	1960-70	1970-80	1980-90	1990-2000	2000-10	2010-13
% Growth	11.87	10.14	9.73	9.18	13.41	9.08	7.21	9.34

* Estimated

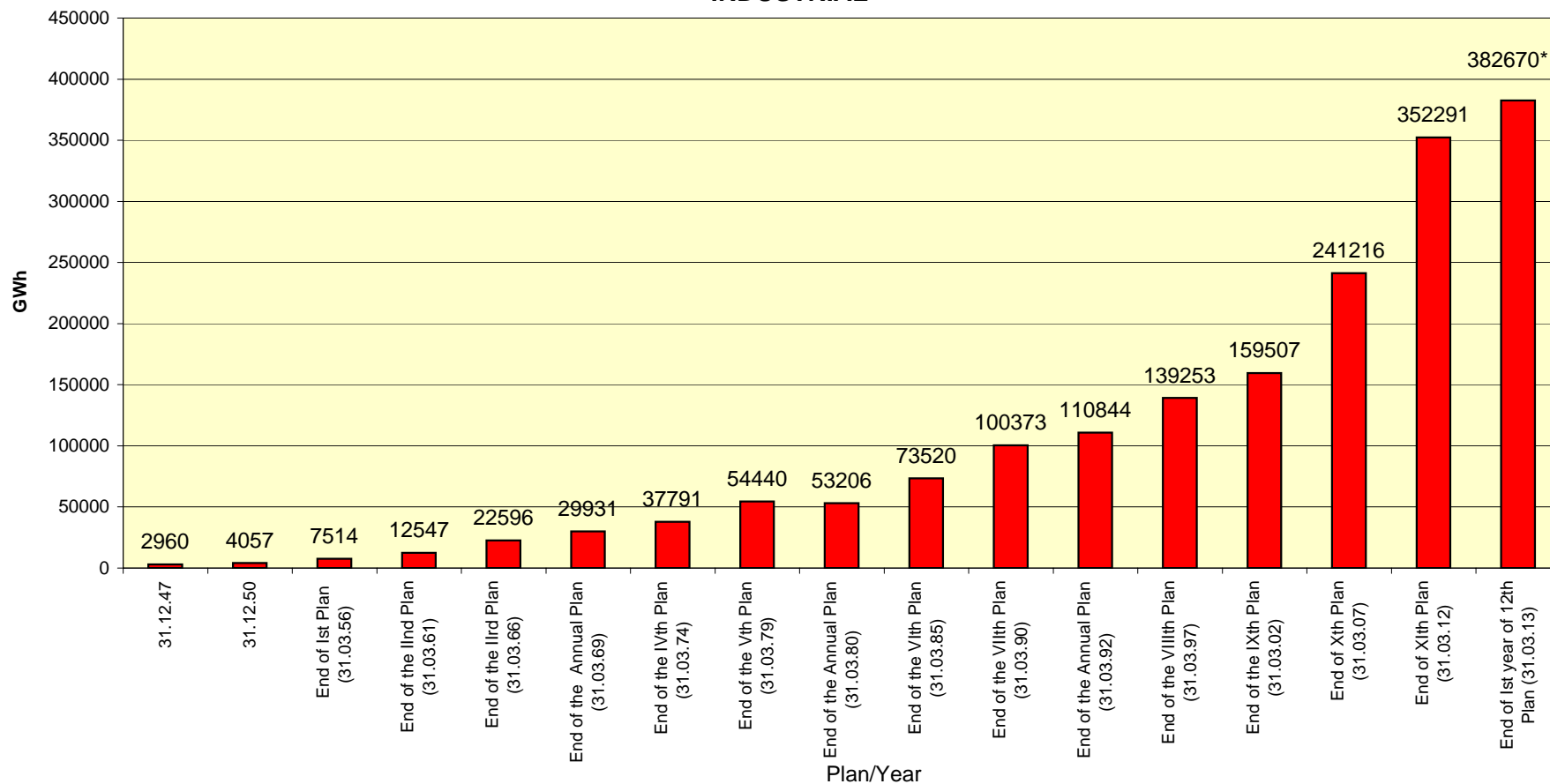
PLANWISE GROWTH OF ELECTRICITY CONSUMPTION IN INDIA COMMERCIAL



Year	1947-50	1950-60	1960-70	1970-80	1980-90	1990-2000	2000-10	2010-13
% Growth	3.18	9.50	11.78	7.15	7.45	8.28	11.47	7.32

* Estimated

PLANWISE GROWTH OF ELECTRICITY CONSUMPTION IN INDIA INDUSTRIAL

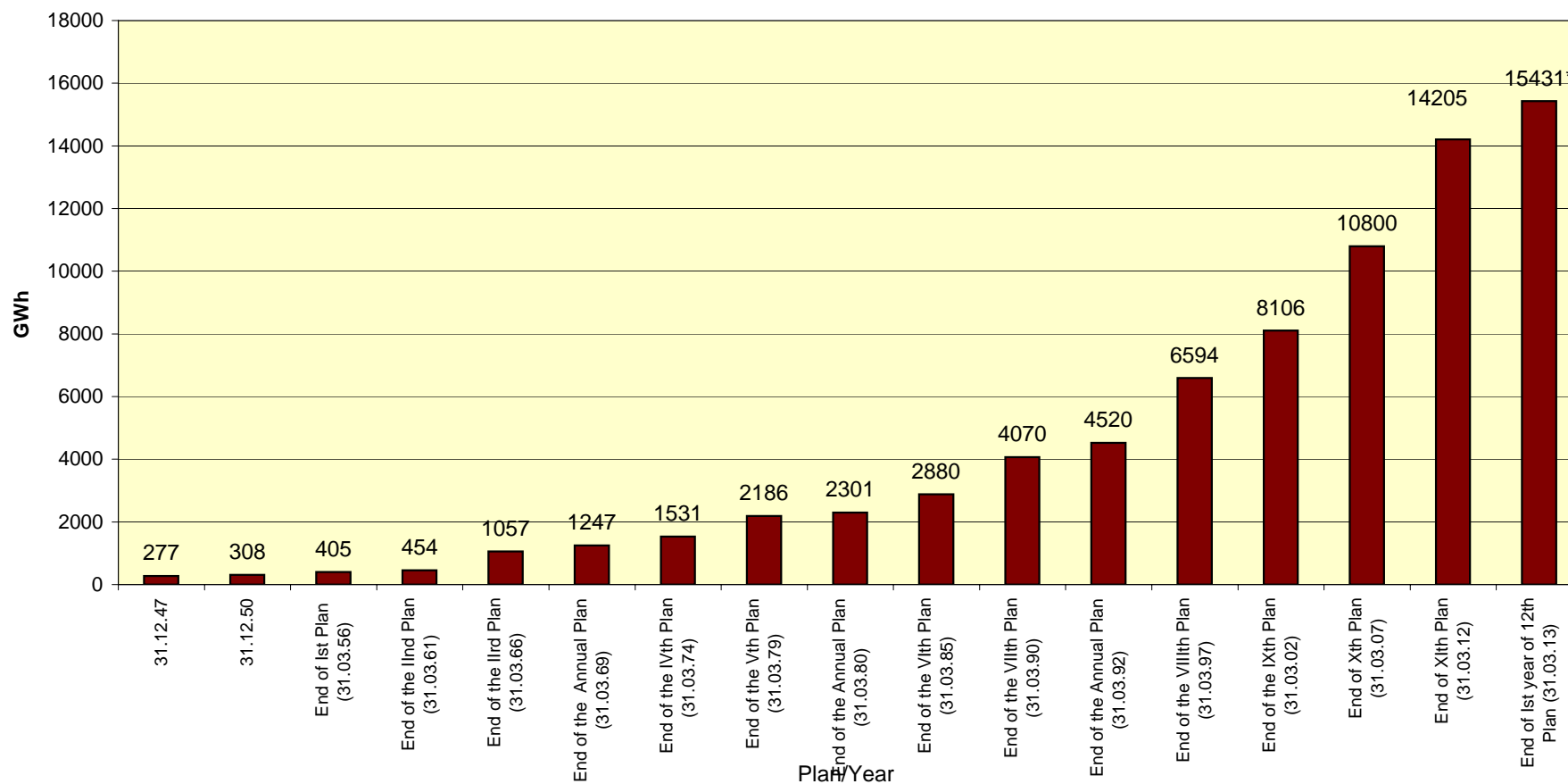


* Estimated

Year	1947-50	1950-60	1960-70	1970-80	1980-90	1990-2000	2000-10	2010-13
% Growth	11.08	10.40	11.57	5.02	6.55	4.43	10.36	8.16

PLANWISE GROWTH OF ELECTRICITY CONSUMPTION IN INDIA TRACTION

Chart : 22

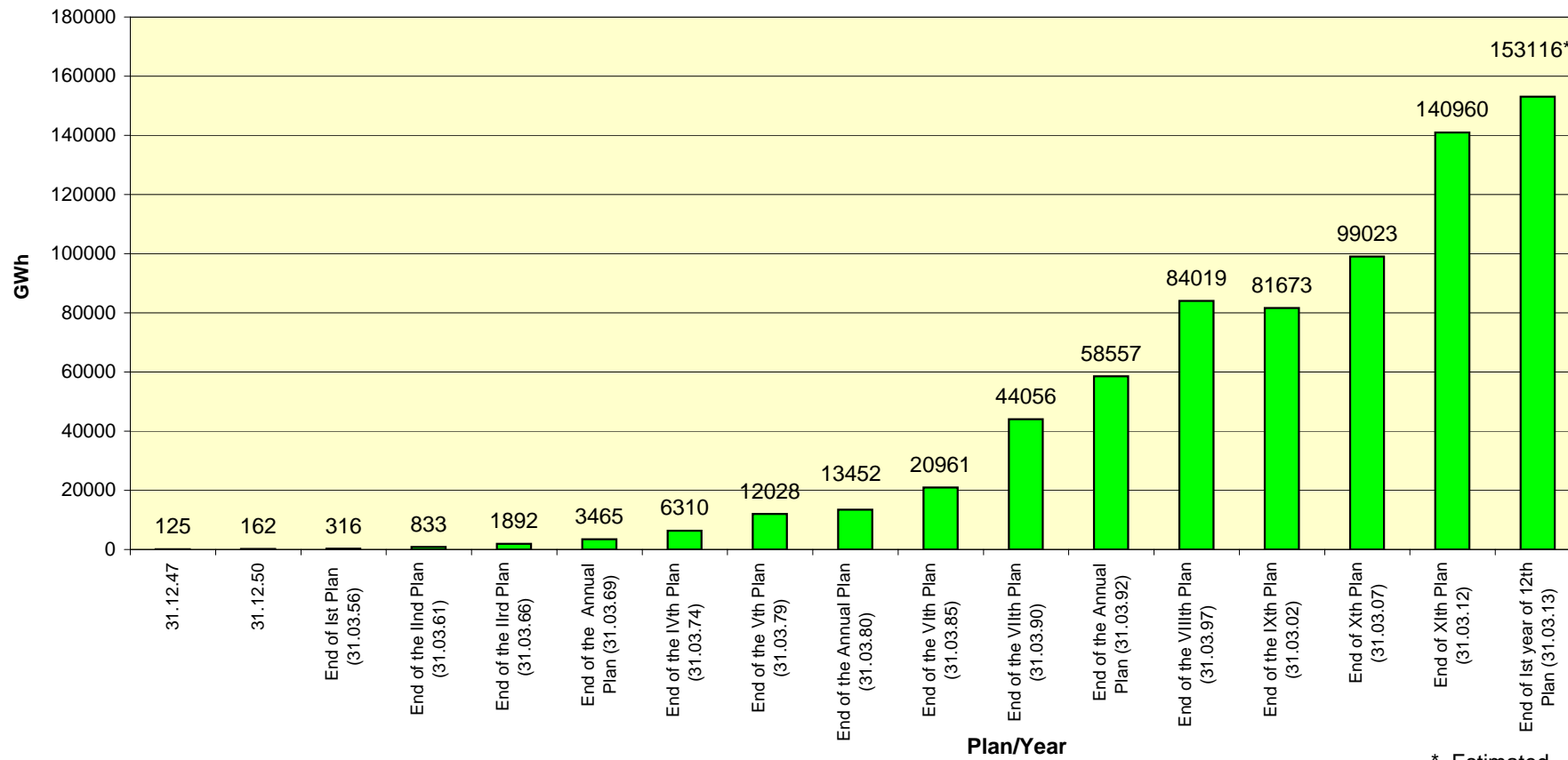


Year	1947-50	1950-60	1960-70	1970-80	1980-90	1990-2000	2000-10	2010-13
% Growth	3.60	12.71	48.63	4.74	5.87	7.10	4.33	6.92

* Estimated

PLANWISE GROWTH OF ELECTRICITY CONSUMPTION IN INDIA AGRICULTURE

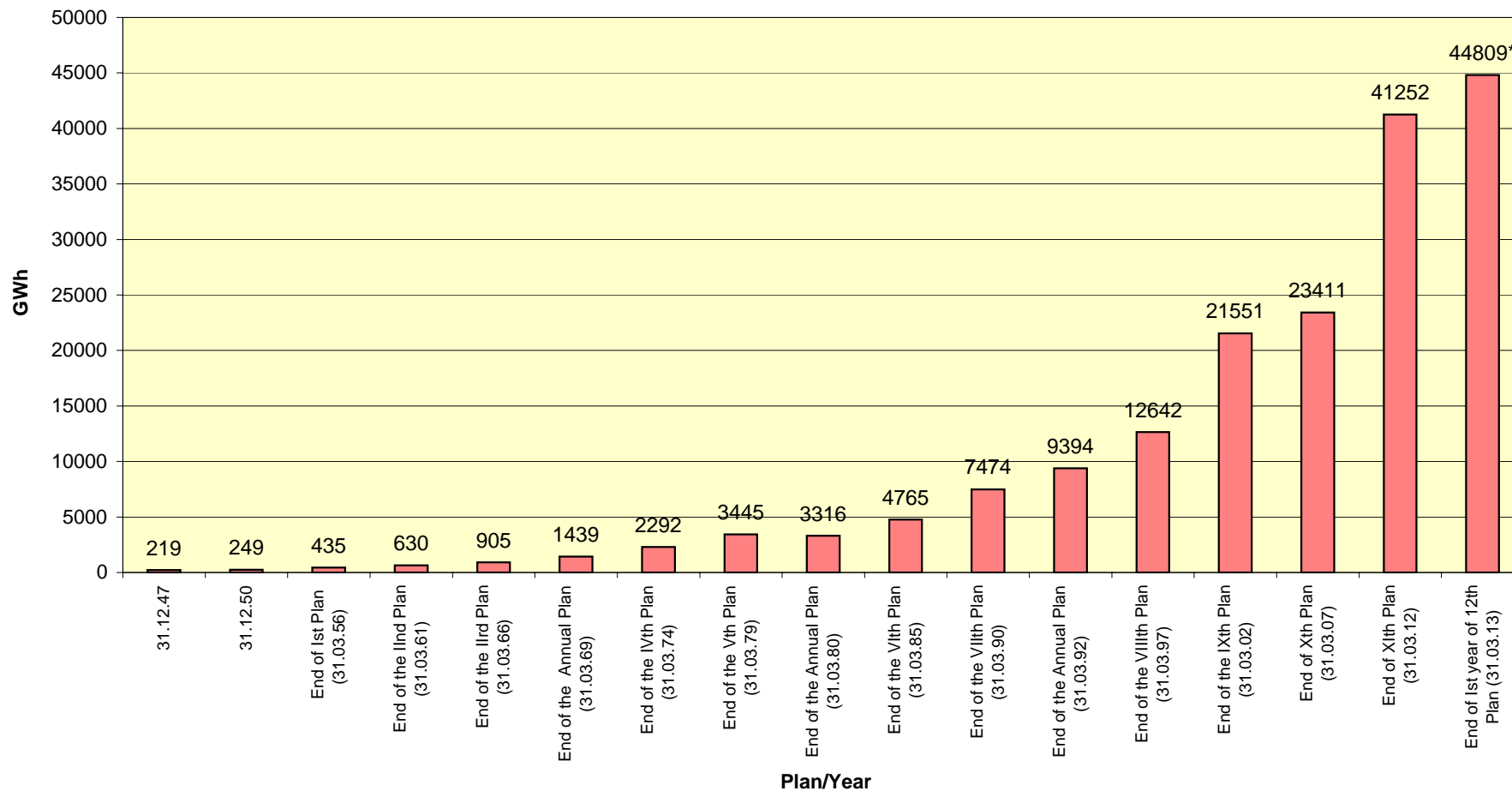
Chart : 23



* Estimated

Year	1947-50	1950-60	1960-70	1970-80	1980-90	1990-2000	2000-10	2010-13
% Growth	9.03	66.96	71.06	13.55	12.60	7.52	2.05	9.18

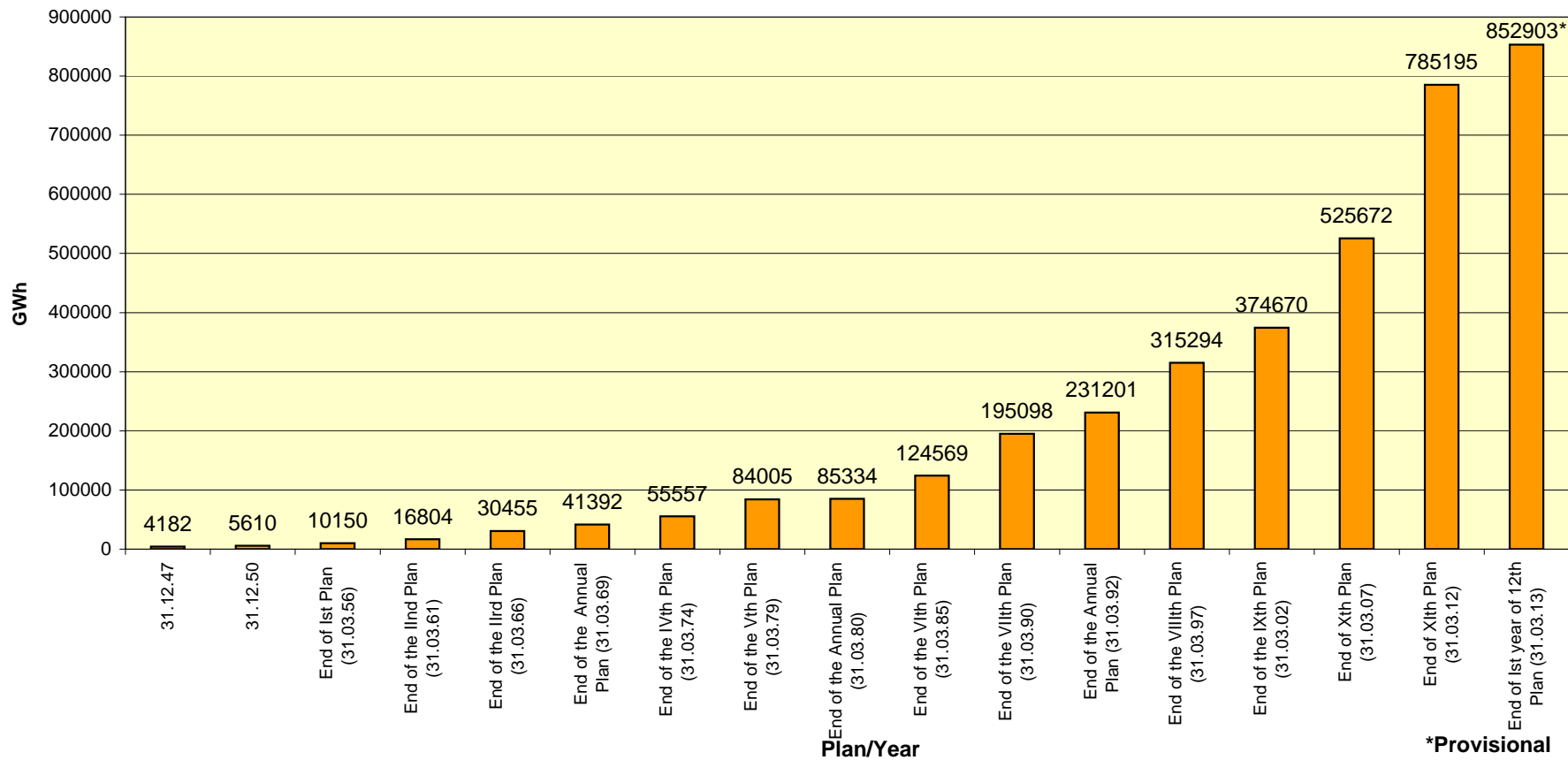
PLANWISE GROWTH OF ELECTRICITY CONSUMPTION IN INDIA MISCELLANEOUS CATEGORY



Miscellaneous category includes Public Lighting, Public Water Works & sewage Pumping.

* Estimated

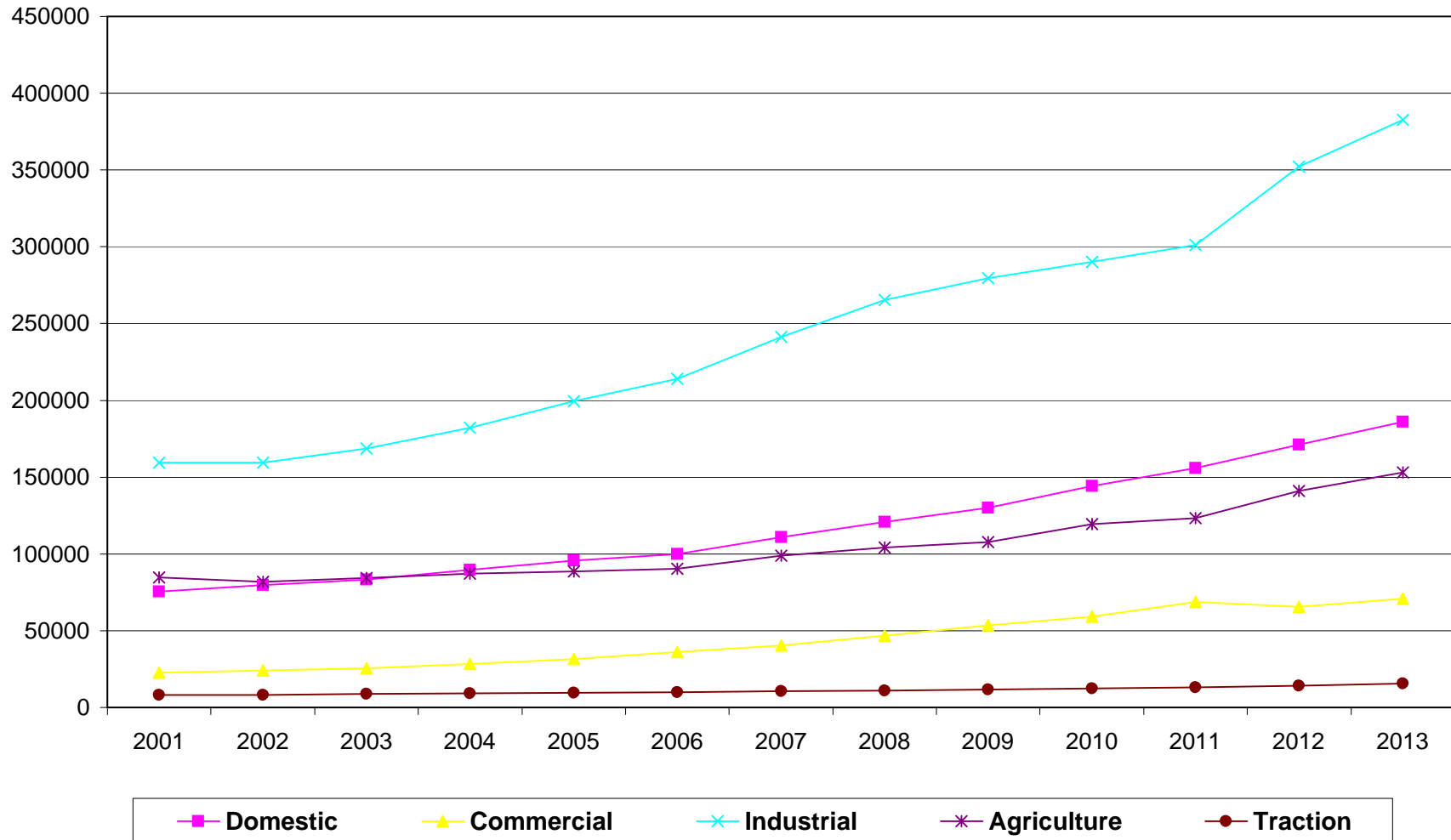
PLANWISE GROWTH OF ALL INDIA TOTAL ELECTRICITY CONSUMPTION UTILITIES & NON-UTILITIES



Year	1947-50	1950-60	1960-70	1970-80	1980-90	1990-2000	2000-10	2010-13
% Growth	10.29	38.38	44.97	6.54	8.62	6.35	8.26	8.26

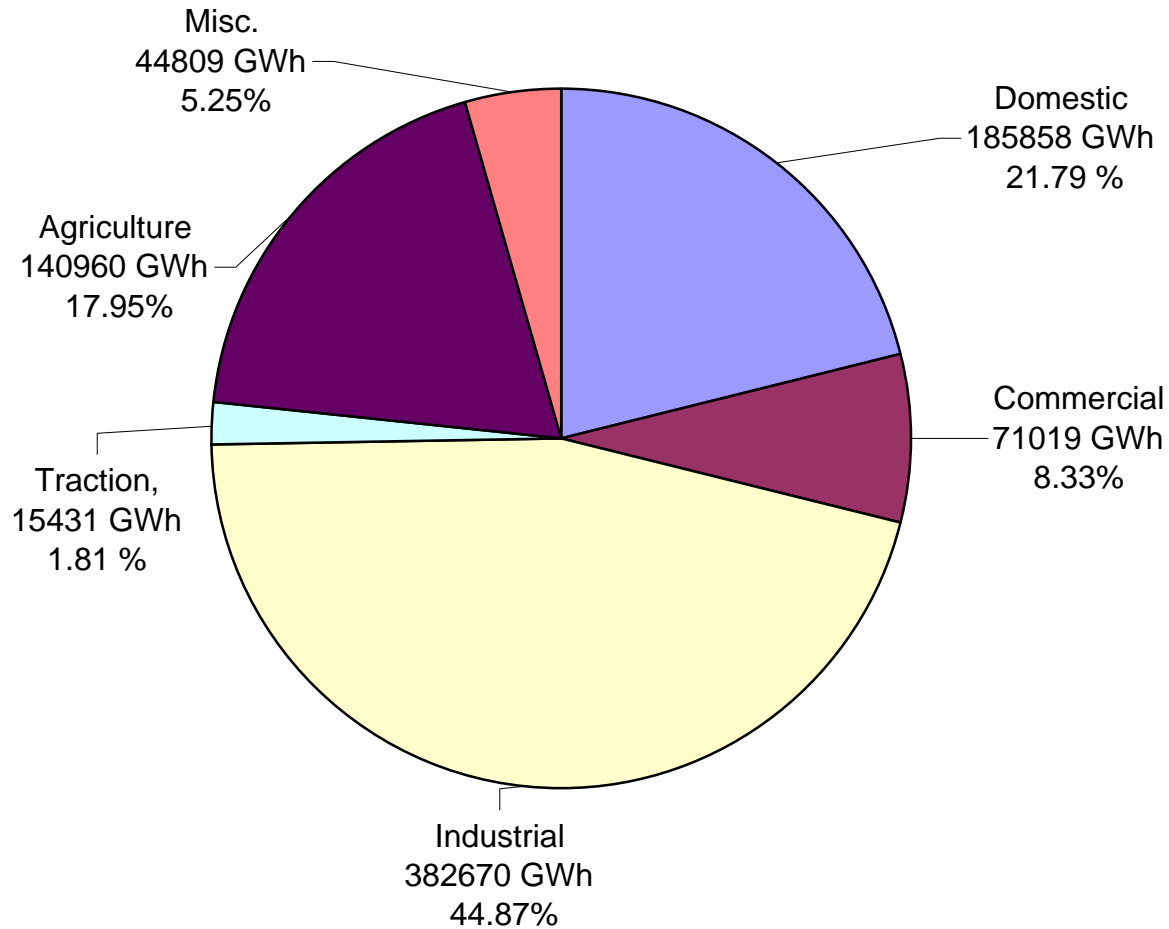
TREND OF CATEGORYWISE ENERGY CONSUMPTION 2000-01 TO 2012-13

Chart : 25A



**ALL INDIA ELECTRICITY CONSUMPTION SECTOR- WISE - END OF 1st YEAR OF 12th PLAN
UTILITIES & NON - UTILITIES
(31.03.2013)**

Pie Chart : 26

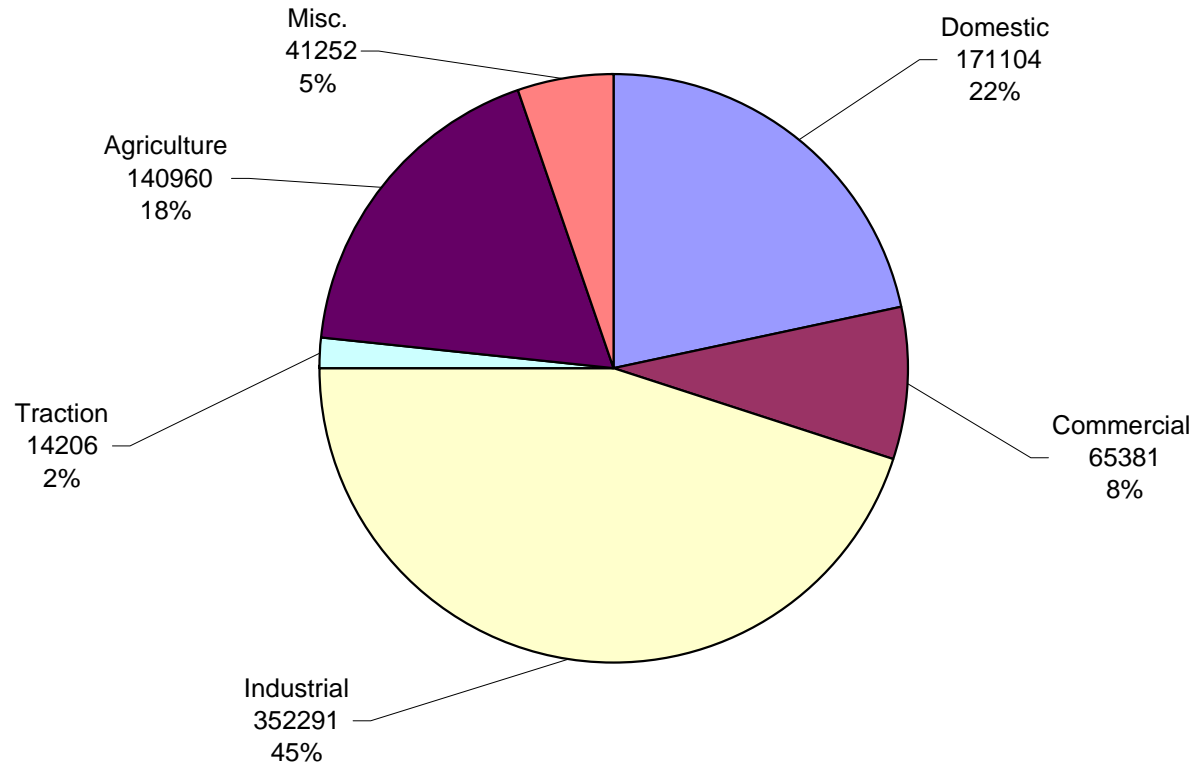


TOTAL = 852902 GWh*

*** Estimated**

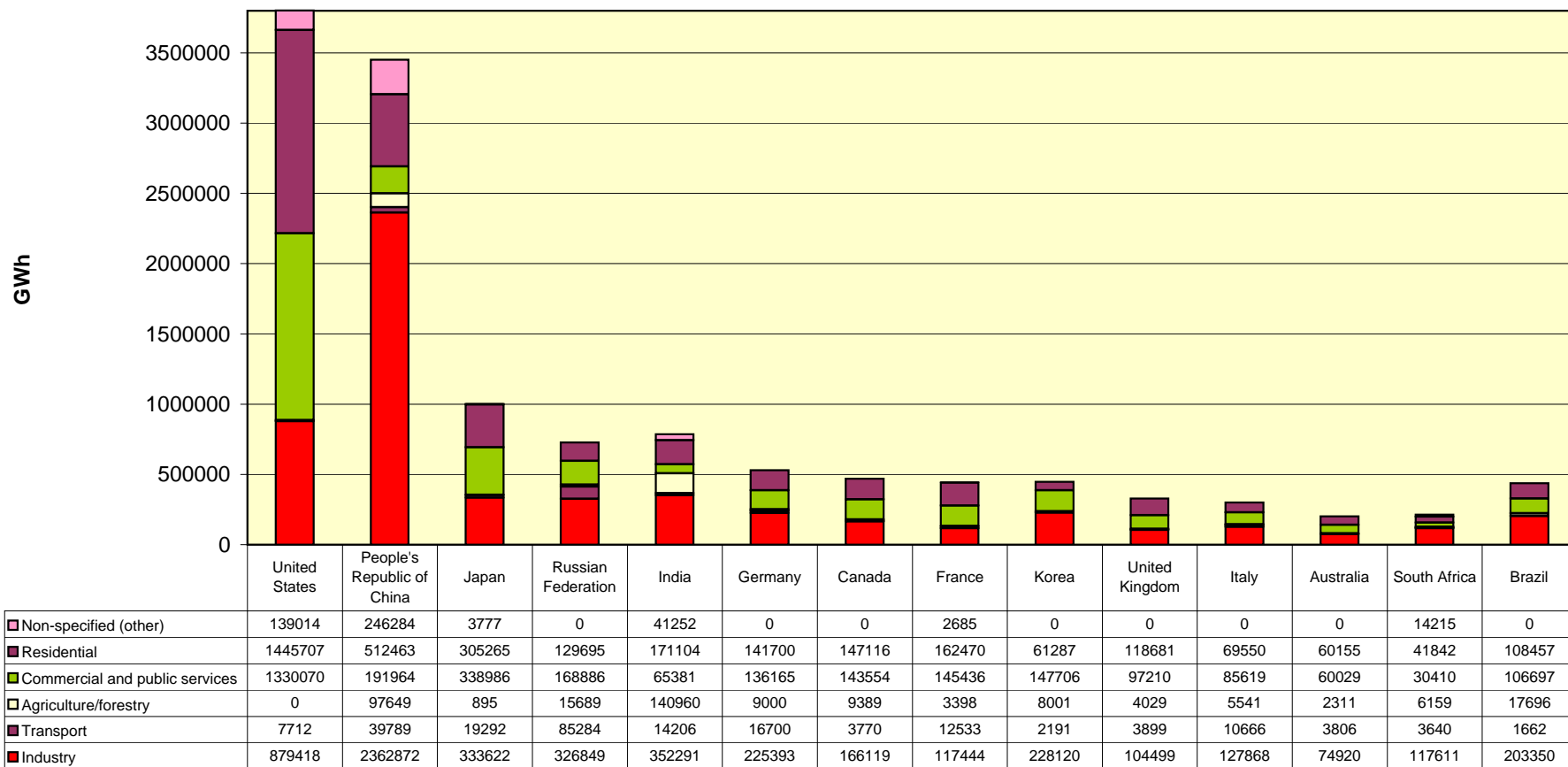
**ALL INDIA ELECTRICITY CONSUMPTION SECTOR WISE- END OF XITH
PLAN
UTILITIES & NON - UTILITIES
(as on 31.03.2012)**

Pie Chart : 26A



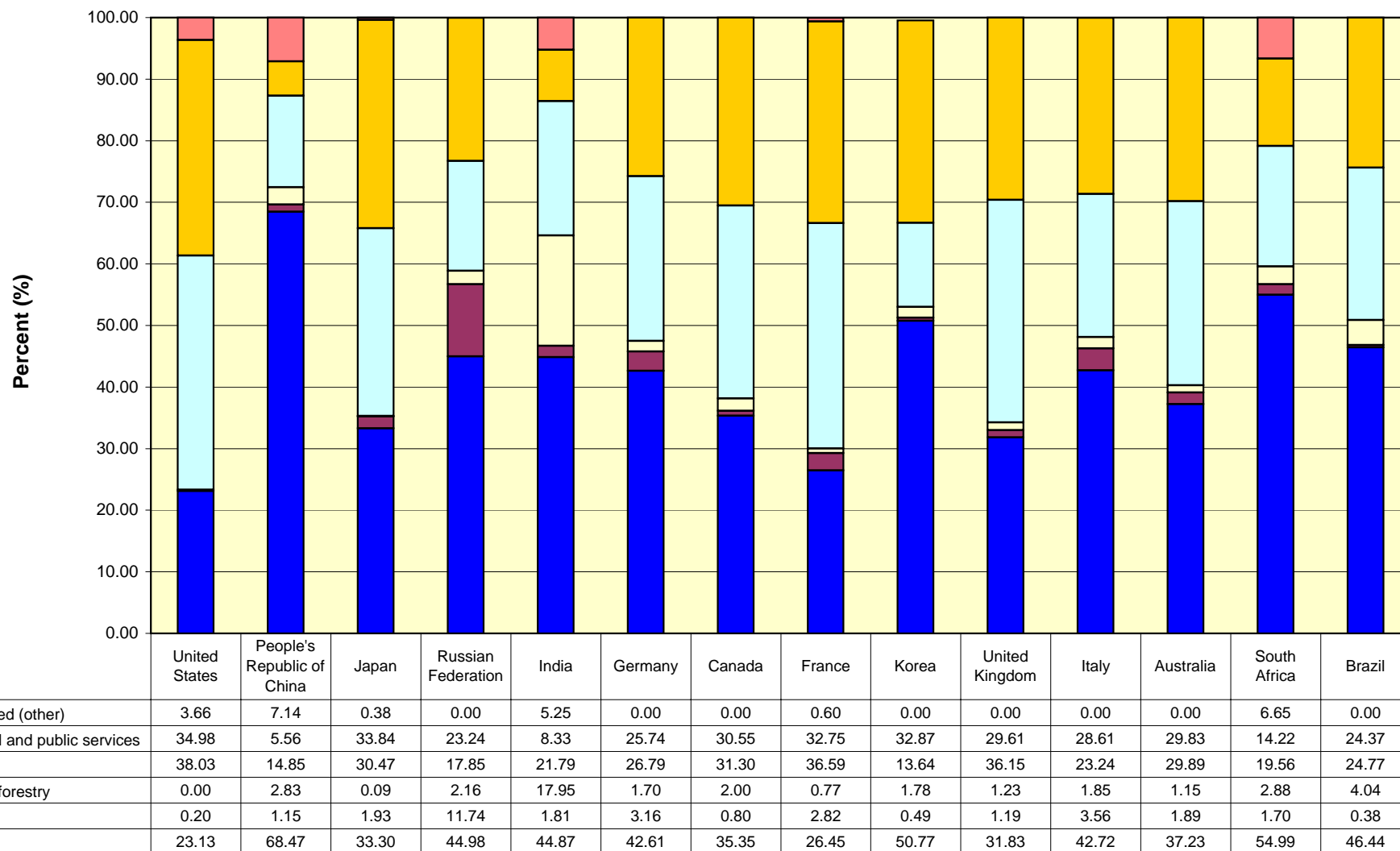
TOTAL = 785194 GWh

CATEGORY-WISE ELECTRICITY CONSUMPTION IN VARIOUS COUNTRIES 2010



Source: - International Energy Agency (IEA). Note :- India data pertains to 2011-12. The Estimated figure of total consumption during 2012-13 is 852902 GWh.

CATEGORY-WISE SHARES IN ELECTRICITY CONSUMPTION IN VARIOUS COUNTRIES -2010
(in %)



Source: - International Energy Agency (IEA).

Note :- India data pertains to 2011-12.

Table 5**PER CAPITA ELECTRICITY CONSUMPTION AND T & D LOSSES
OF VARIOUS COUNTRIES IN 2009 & 2010**

Sl. No.	Per Capita Consumption (kWh)			Sl. No.	T & D Losses (%)		
	Name of the Country	2009	2010			2009	2010
1	Canada	15467	15145	1	Korea	3.97	4.01
2	USA	12884	13361	2	Japan	5.23	5.04
3	Australia	11038	10063	3	Germany	4.80	4.53
4	Japan	7833	8399	4	Italy	6.56	6.87
5	France	7494	7756	5	Australia	7.37	7.27
6	Germany	6781	7217	6	South Africa	11.16	11.44
7	Korea	8980	9851	7	France	7.21	7.97
8	UK	5693	5741	8	China	5.58	6.45
9	Russia	6133	6460	9	USA	6.68	6.86
10	Italy	5271	5384	10	Canada	9.10	13.97
11	South Africa	4532	4803	11	UK	7.65	8.17
12	Brazil	2201	2384	12	Russia	13.47	14.44
13	China	2648	2942	13	Brazil	16.44	19.58
14	India(\$)*	819	884	14	India (\$)	23.97	23.65
15	World	2730	2892	15	World	9.17	9.80

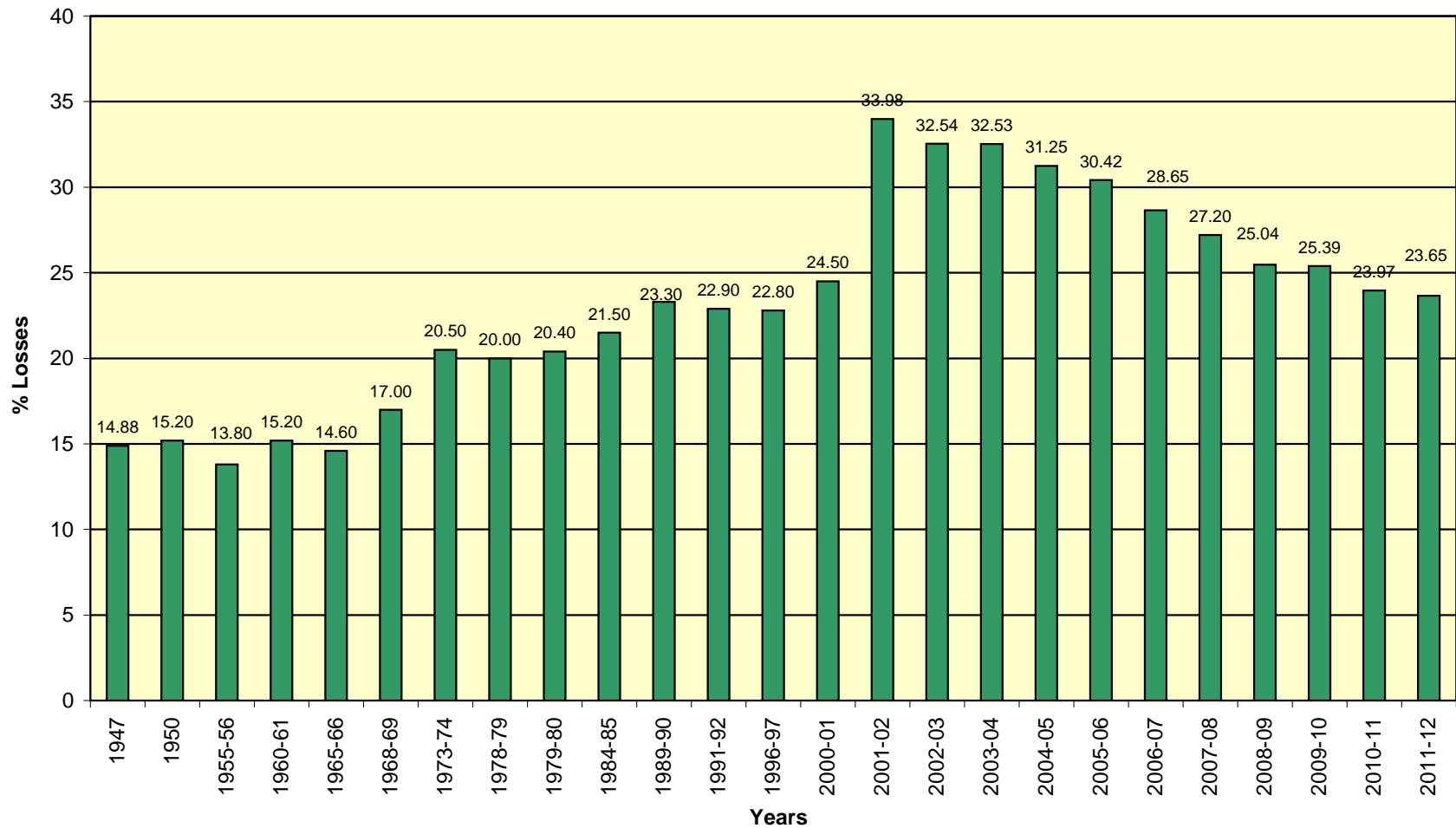
Note :-

Basic data obtained from IEA Website.

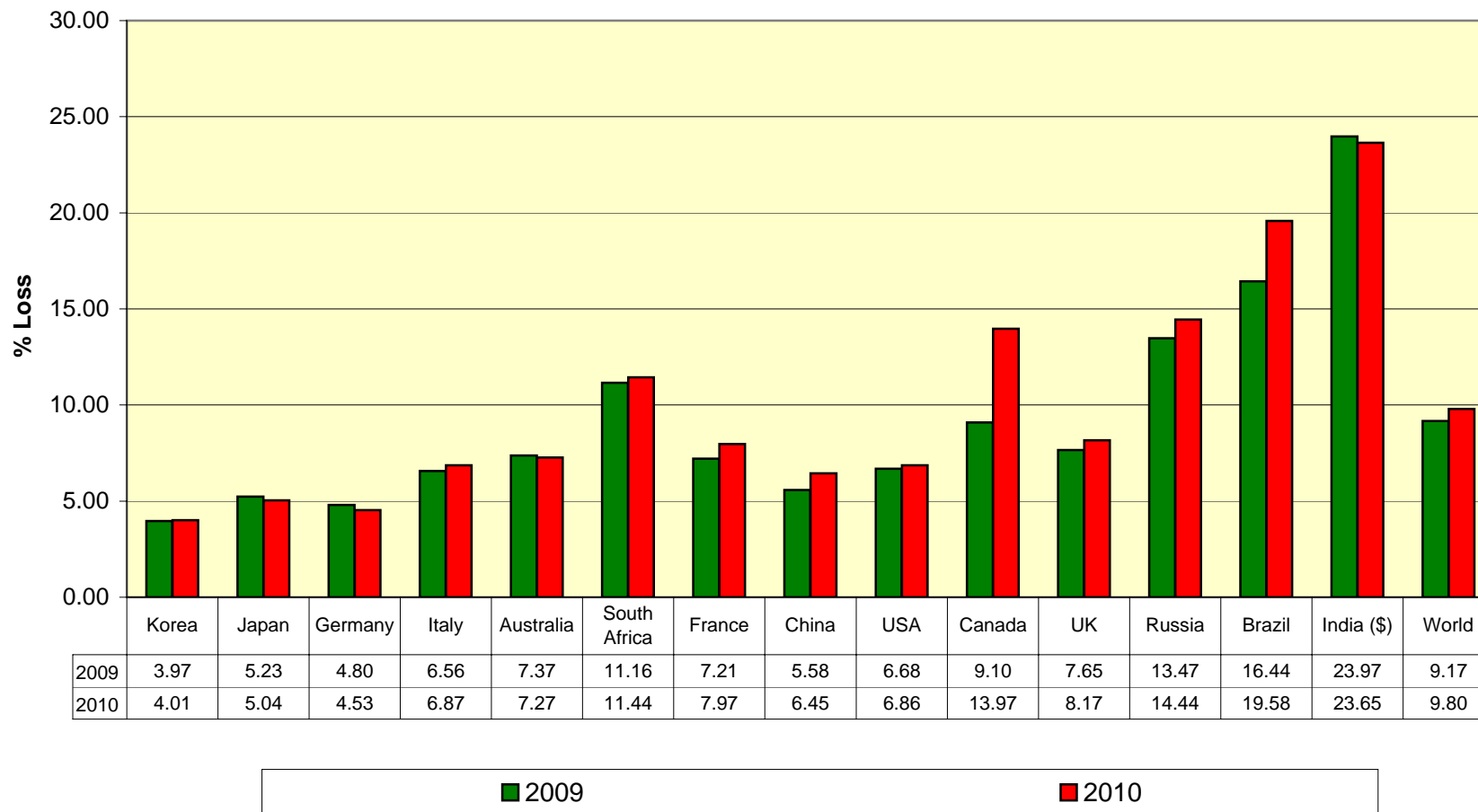
* :-Per Capita Consumption= (Gross Electrical Energy Availability/Midyear Population).

\$: - The per capita and T&D Losses figs. for Indian data displayed under 2009 & 2010 pertains to 2010-11 and 2011-12 resp
The provisional figure of per capita for India for 2012-13 is 917 kWh.

ALL INDIA TRANSMISSION AND DISTRIBUTION LOSSES (in %)



T & D LOSSES OF VARIOUS COUNTRIES IN 2009 & 2010 in %age



Source: - International Energy Agency (IEA) \$:- Indian data indicated against years 2009 and 2010 pertains to 2010-11 and 2011-12 respectively.

Table 6

PLANWISE GROWTH OF INSTALLED GENERATING CAPACITY OF CAPTIVE POWER PLANTS (1MW & above) IN INDUSTRIES - MODE- WISE

								(MW)
Sl.No.	As on	Hydro	Steam	Diesel @	Gas	Sub - Total	Railways	Total
1	31.12.1947	*	*	*	*	410.00	0.00	410.00
2	31.12.1950	*	*	*	*	587.85	0.00	587.85
3	31.03.1956 (End of the 1st Plan)	*	*	*	*	759.65	0.00	759.65
4	31.03.1961 (End of the 2nd Plan)	*	*	*	*	1001.37	0.00	1001.37
5	31.03.1966(End of the 3rd Plan)	*	*	*	*	1082.36	0.00	1082.36
6	31.03.1969(End of the 3 Annual	*	*	*	*	1277.47	0.00	1277.47
7	31.03.1974(End of the 4th Plan)	*	*	*	*	1732.70	0.00	1732.70
8	31.03.1979(End of the 5th Plan)	2.61	1949.23	559.17	44.27	2555.28	62.31	2617.59
9	31.03.1980(End of the 2 Annual	2.61	2021.61	720.58	54.27	2799.07	60.44	2859.51
10	31.03.1985 (End of the 6th Plan)	2.91	2803.18	2077.06	155.31	5038.46	81.80	5120.26
11	31.03.1990 (End of the 7th Plan)	3.60	4822.85	2754.48	425.51	8006.44	109.29	8115.73
12	31.03.1992 (End of the 2 Annual	4.30	5377.10	3291.06	495.72	9168.18	133.23	9301.41
13	31.03.1997(End of the 8th Plan)	3.50	6151.69	4594.74	1166.38	11916.31	162.62	12078.93
14	31.03.2002(End of the 9th Plan)	51.10	8354.03	6614.16	2125.91	17145.20	0.00	17145.20
15	31.03.07 (End of 10th Plan)	60.50	11397.52	7901.02	2976.00	22335.04	0.00	22335.04
16	31.03.12(End of 11th Plan)	47.59	22615.39	10827.43	5884.95	39375.36	0.00	39375.36
17	31.03.13* (End of 1st year of 12th	52.00	24870.00	11906.00	6472.00	43300.00	0.00	43300.00

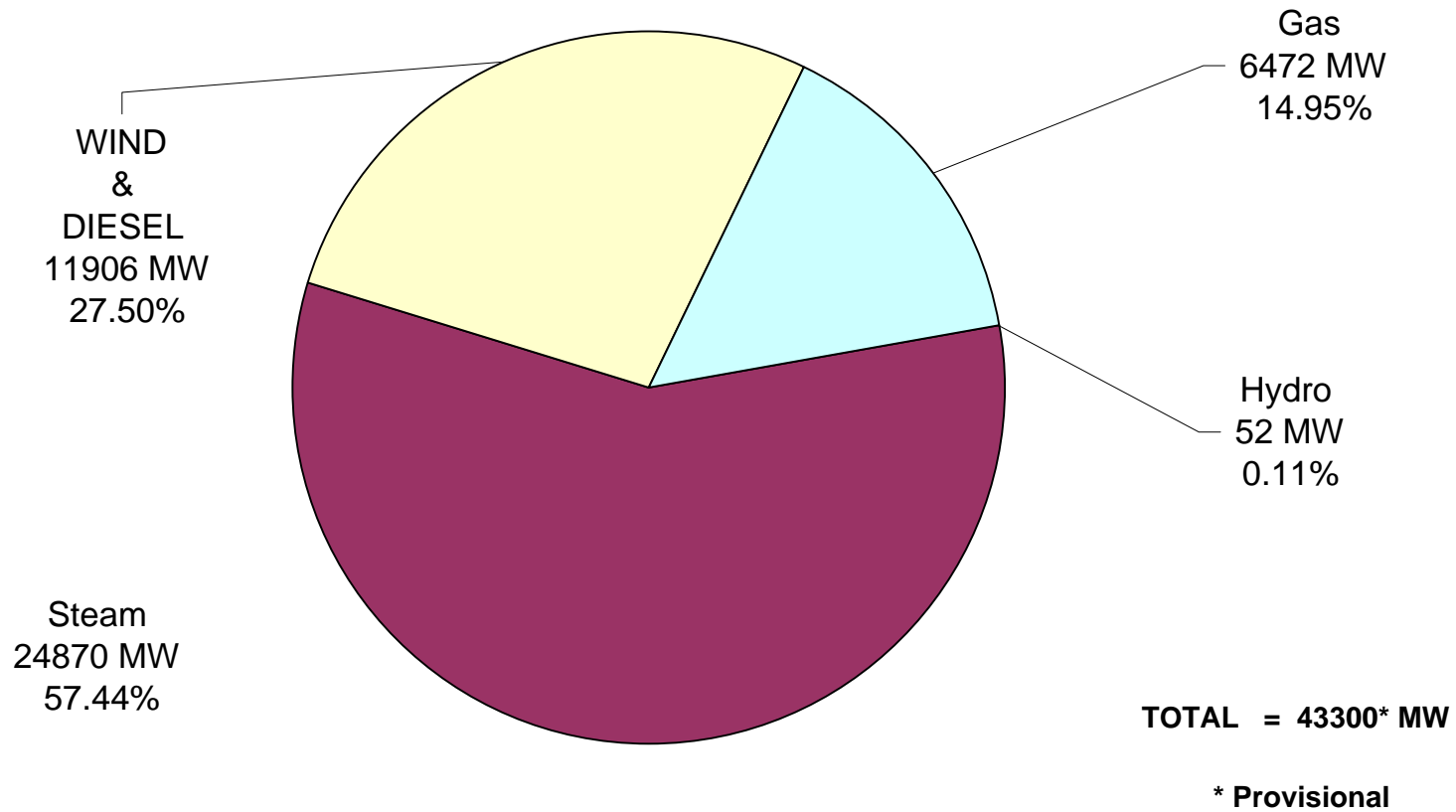
, @ Includes Wind power capacity

* Breakup Not Available

\$ Provisional

**INSTALLED GENERATING CAPACITY OF CAPTIVE POWER PLANTS IN
INDUSTRIES HAVING DEMAND OF 1 MW & ABOVE MODEWISE
END OF 1st YEAR OF 12TH PLAN
31.03.2013**

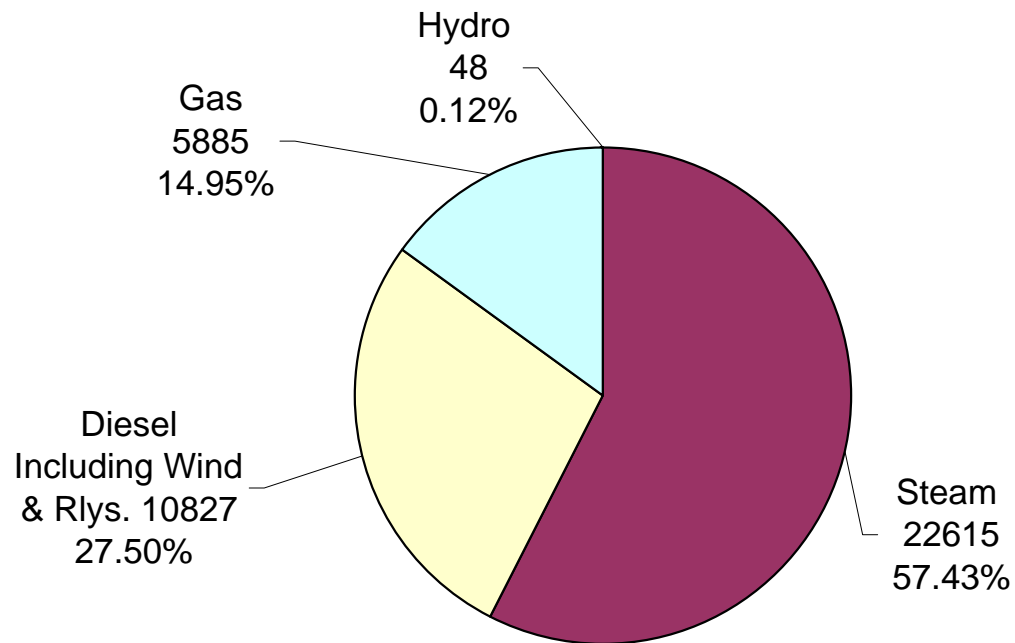
Pie Chart : 31



Note : The figs in respect of Steam & Gas based Captive power Plants have been reconciled.

**INSTALLED GENERATING CAPACITY OF CAPTIVE POWER PLANTS IN INDUSTRIES HAVING
DEMAND OF 1 MW & ABOVE - MODEWISE END OF XITH PLAN
31.03.2012**

Pie Chart : 31A



TOTAL = 39375.36 MW

**PLANWISE GROWTH OF ALL INDIA INSTALLED GENERATING CAPACITY OF CAPTIVE POWER PLANTS
IN INDUSTRIES HAVING DEMAND OF
1MW & ABOVE**

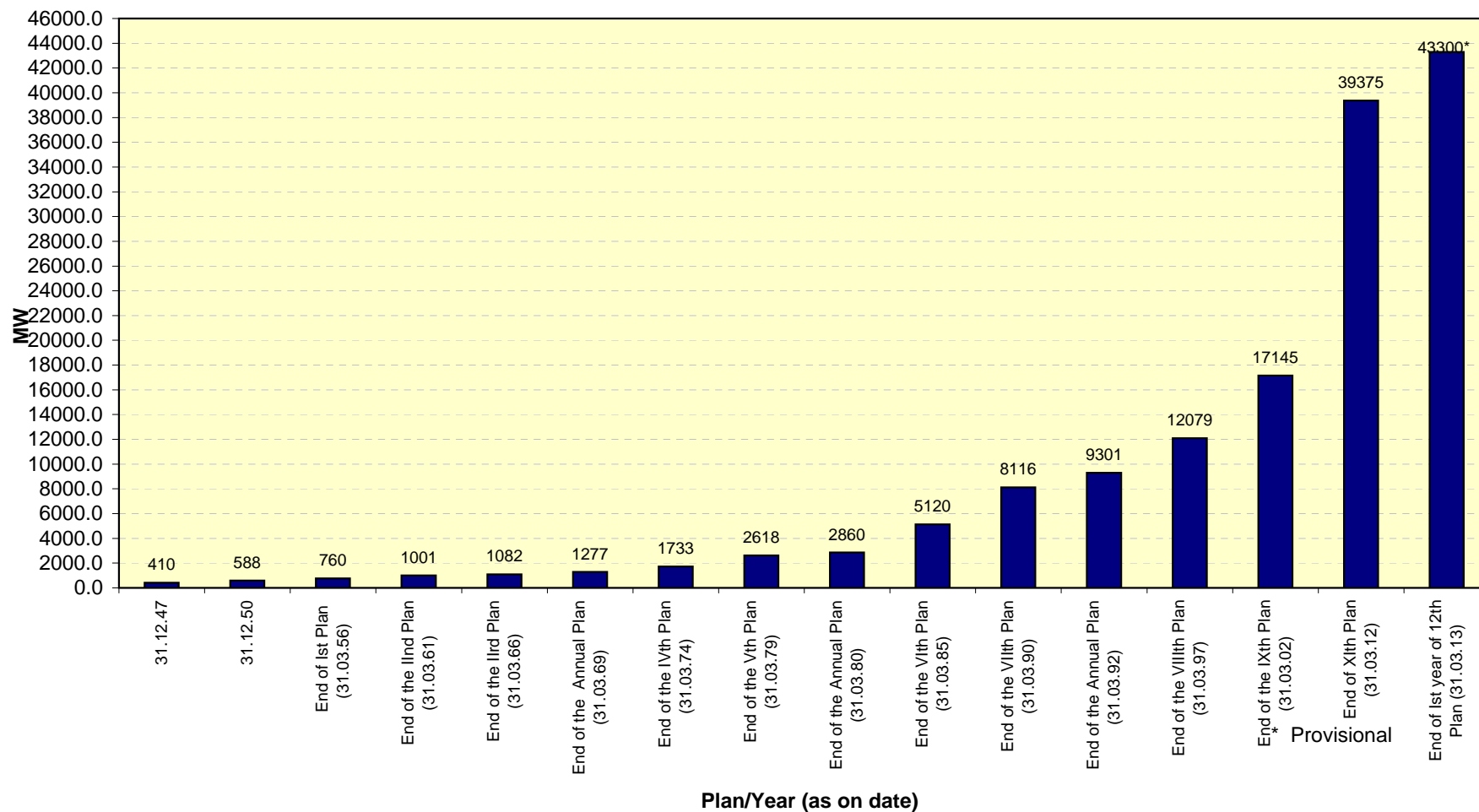
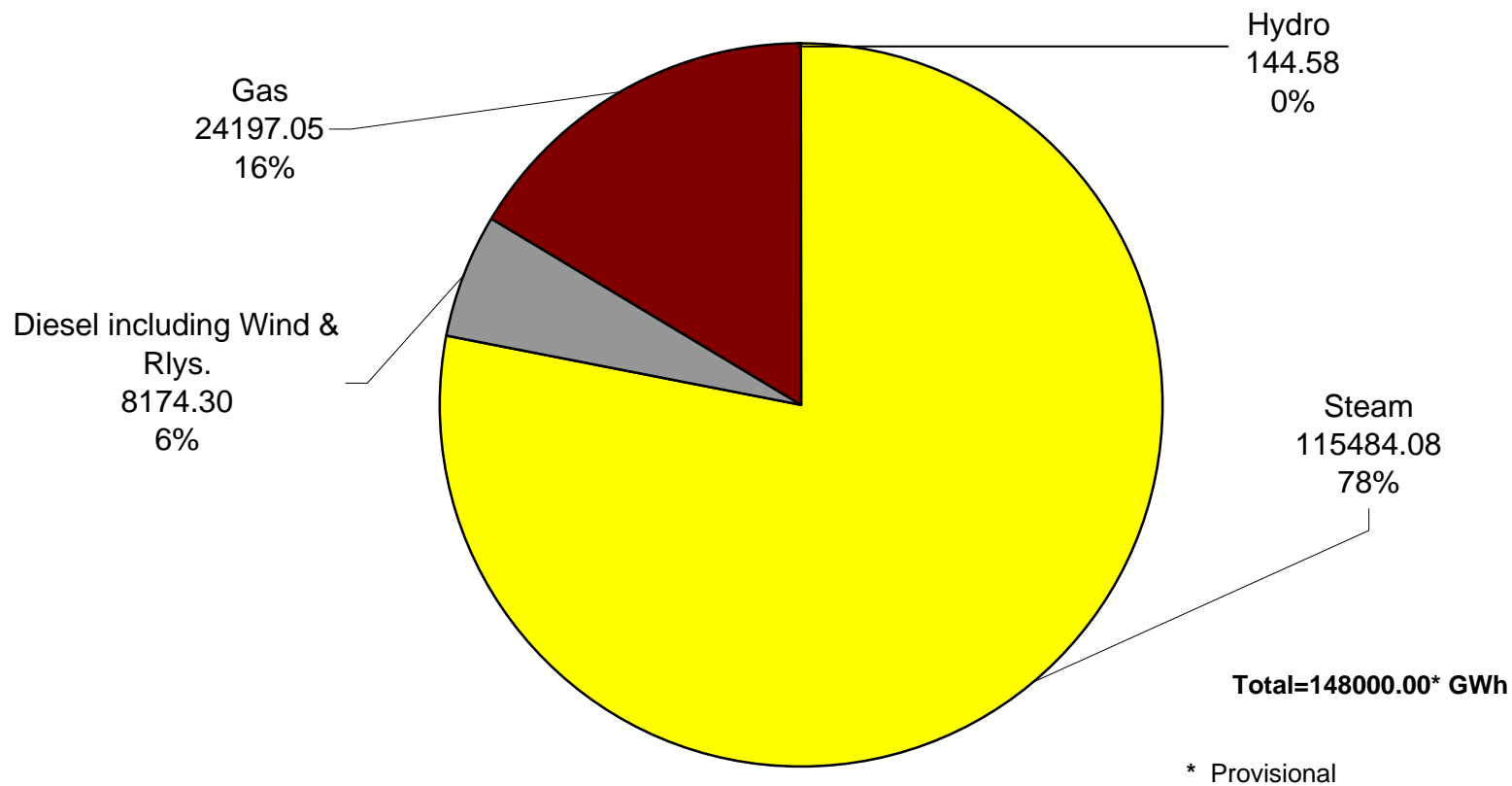


Table 7
PLANWISE GROWTH OF ENERGY GENERATED BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW & ABOVE MODE WISE

		(GWh)						
Sl.No.	During financial year ending with	Hydro	Steam	Diesel @	Gas	Sub - Total	Railways	Total
1	2	3	4	5	6	(4+5+6) 7	8	(3+7+8) 9
1	1947	*	*	*	*	856.91	*	856.91
2	1950	*	*	*	*	1467.81	0.00	1467.81
3	1956(End of 1st Plan)	*	*	*	*	2184.82	0.00	2184.82
4	1961(End of 2nd Plan)	*	*	*	*	3186.10	0.00	3186.10
5	1966(End of 3rd Plan)	*	*	*	*	3733.19	0.00	3733.19
6	1969(End of 3 Annual Plans)	*	*	*	*	4136.06	0.00	4136.06
7	1974(End of 4th Plan)	*	*	*	*	6067.47	0.00	6067.47
8	1979(End of 5th Plan)	13.22	7211.30	299.13	48.97	7572.62	34.47	7607.09
9	1980(End of 2 Annual Plans)	15.06	7225.60	825.71	90.67	8157.04	35.67	8192.71
10	1985(End of 6th Plan)	18.29	9966.55	2001.18	317.03	12303.05	42.80	12345.85
11	1990(End of 7th Plan)	15.83	19110.46	2757.27	1313.29	23196.85	29.07	23225.92
12	1992(End of 2 Annual Plans)	17.57	23409.35	3247.81	1905.24	28579.97	22.52	28602.49
13	1997(End of 8th Plan)	28.84	29127.94	6619.01	5039.22	40815.01	25.07	40840.08
14	2002(End of 9th Plan)	116.59	41853.85	10875.19	8835.19	61680.82	0.00	61680.82
15	2007 (End of 10th Plan)	217.81	56184.04	10190.74	15207.17	81799.76	0.00	81799.76
16	2012 (End of 11th Plan)	131.28	104862.65	7422.48	21971.57	134387.98	0.00	134387.98
17	2013 (End of 1st year of 12th Plan (31.03.13))	144.58 \$	115484.08 \$	8174.30 \$	24197.05 \$	148000.01 \$	0.00 \$	148000.01 \$

@ Includes Wind
 * Breakup Not Available
 \$ Provisional

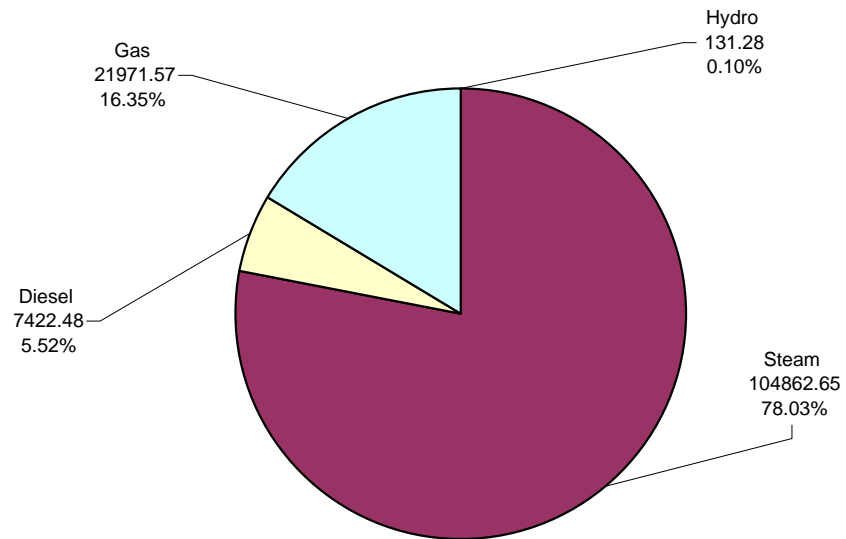
**ALL INDIA ELECTRICAL ENERGY GENERATED BY CAPTIVE POWER PLANTS IN INDUSTRIES
HAVING DEMAND OF 1 MW AND ABOVE MODE WISE
END OF 1st YEAR OF 12th PLAN
31.03.13**



ALL INDIA ELECTRICAL ENERGY GENERATED BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF 1 MW AND ABOVE MODEWISE END OF XITH PLAN

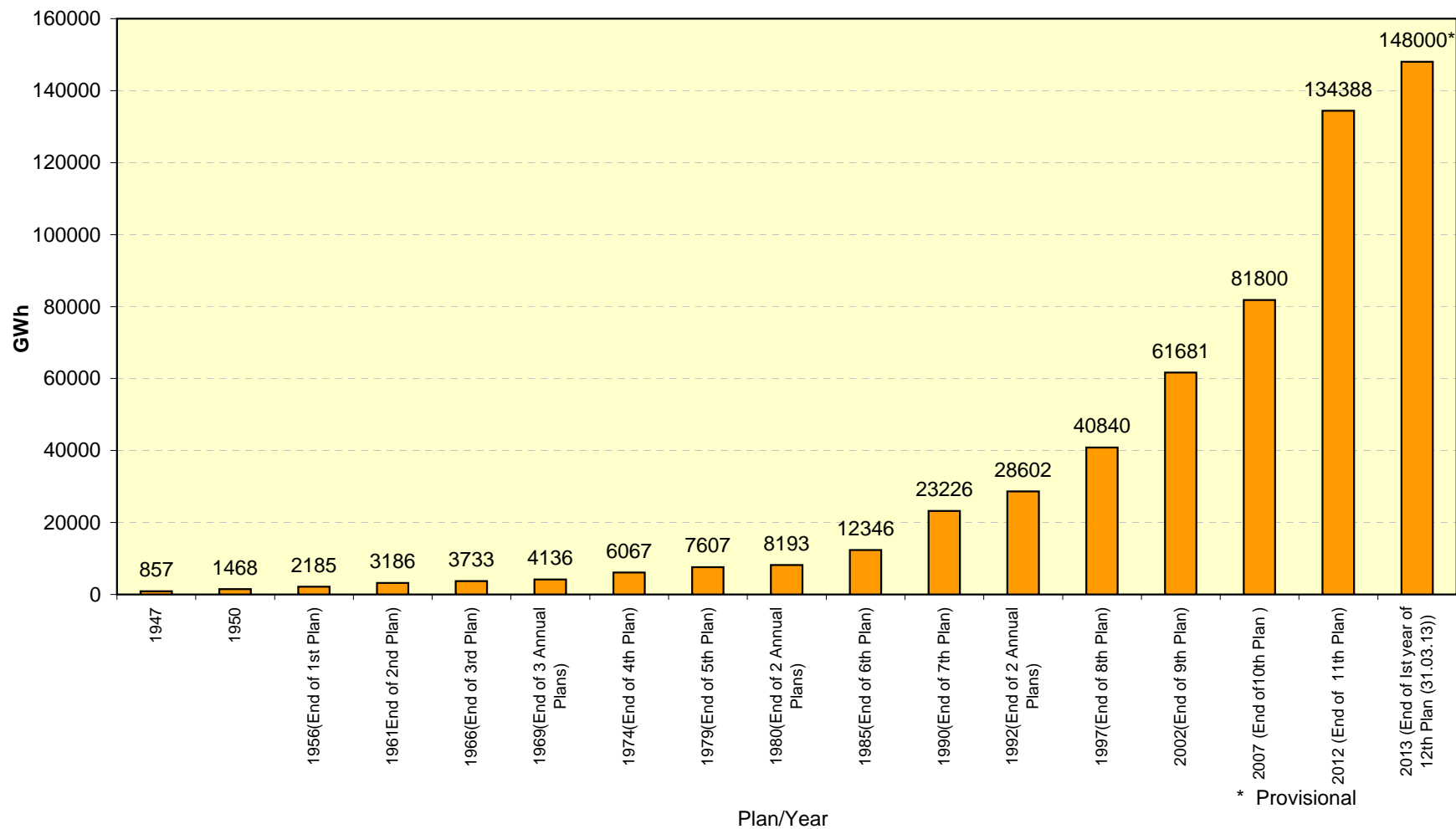
31.03.2012

Pie Chart : 33A

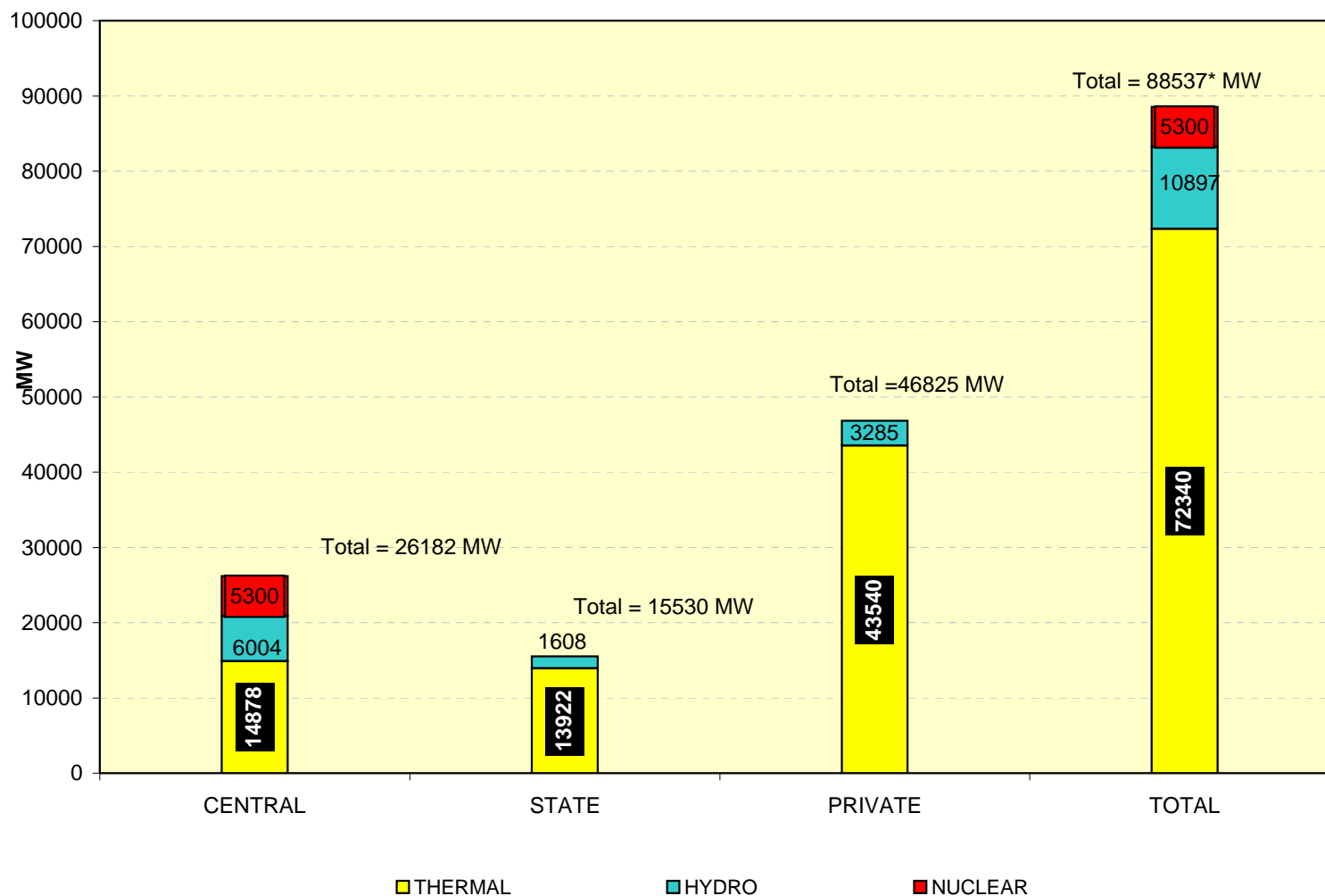


Total=134387.98 GWh

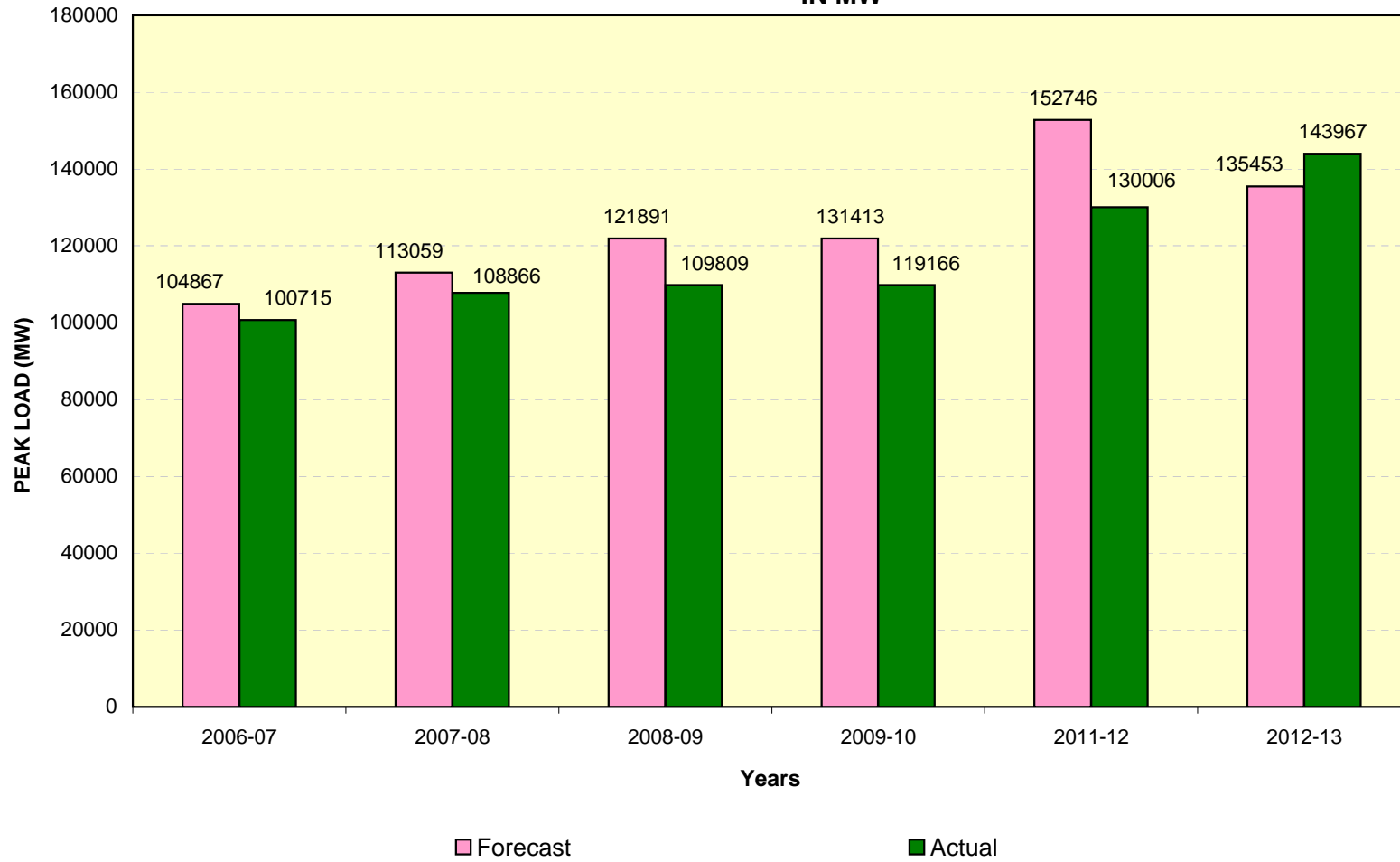
PLANWISE GROWTH OF ENERGY GENERATED BY CAPTIVE POWER PLANTS IN INDUSTRIES HAVING DEMAND OF 1MW & ABOVE



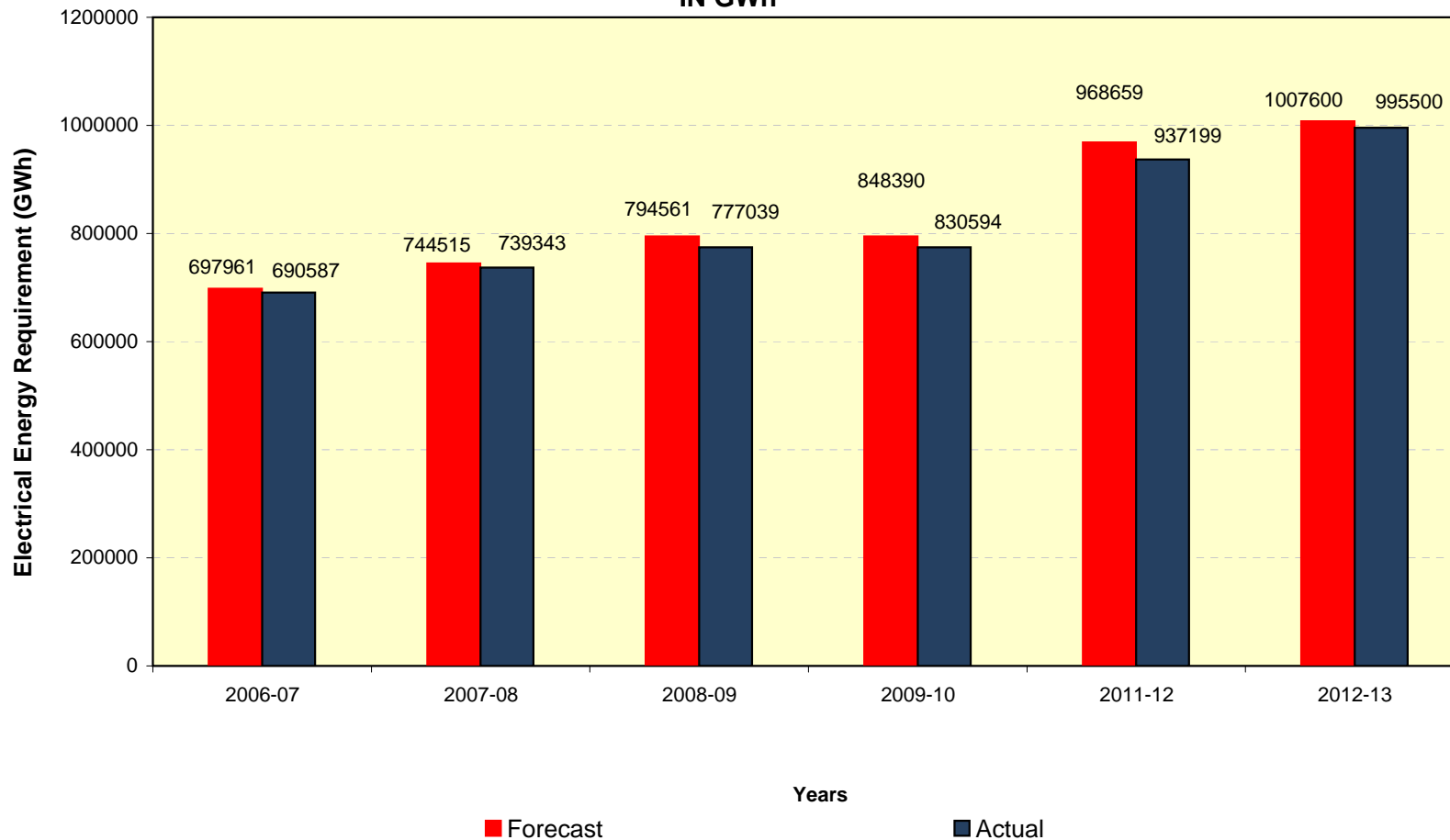
CAPACITY ADDITION PROGRAMME 12TH PLAN



**FORECAST OF ALL INDIA PEAK ELECTRICITY DEMAND UTILITIES
(AS PER 17TH ELECTRIC POWER SURVEY)
IN MW**



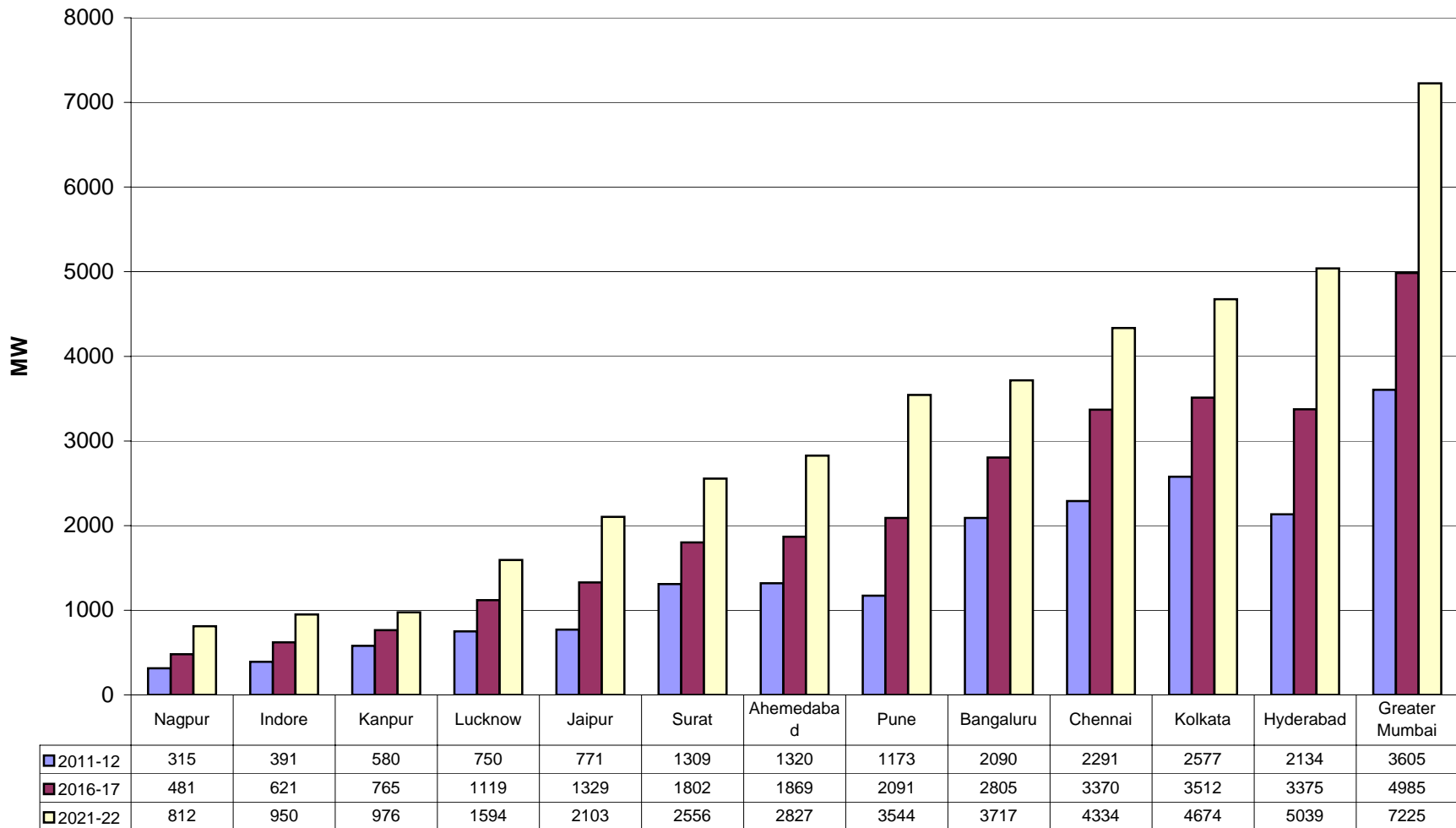
FORECAST OF ALL INDIA ELECTRICAL ENERGY REQUIREMENT UTILITIES
(AS PER 17TH ELECTRIC POWER SURVEY)
IN GWh



18th Electric Power Survey of India (Volume - II)

Annual Electric Peak Load (in MW) of Mega Cities at Power Station Bus Bar (In MW)

(At the terminal year of 11th, 12th & 13th Plans)



18th Electric Power Survey of India (Volume - II)

Chart : 37 B

Electrical Energy Requirement (in MU) of Mega Cities

(At the terminal year of 11th, 12th & 13th plan)

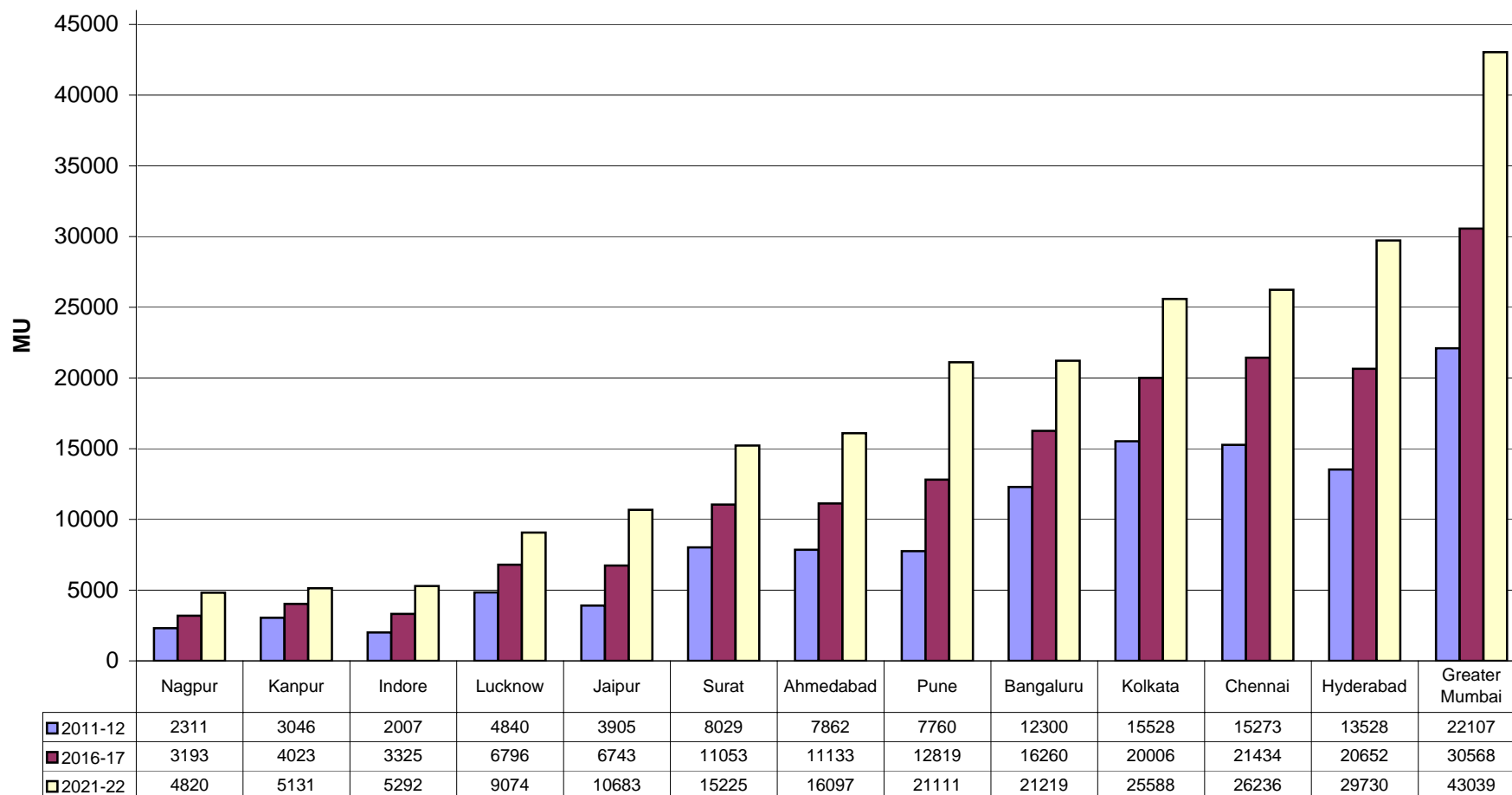


Table 8A
REGIONWISE SUMMARY OF EER & APEL BY END OF 12TH & 13TH PLAN
AS PER 18TH EPS

Region/Year	EER (MU)		APEL(MW)	
	2016-17	2021-22	2016-17	2021-22
Northern Region	422498	594000	60934	86461
Western Region	394188	539310	62015	86054
Southern Region	357826	510786	57221	82199
Eastern Region	163790	236952	24303	35928
North Eastern Region	16154	23244	2966	4056
A & N Island	366	505	67	89
Lakshdweep	52	65	11	18
All India Total	1354874	1904862	207517	294805

NOTE : EER : - Electrical Energy Reuirement
APEL : - Annual Peak Electric Load
EPS :- Electric Power Survey

Table 8B

**CATEGORYWISE FORECAST OF ELECTRICAL ENERGY CONSUMPTION
BY END OF 12TH & 13TH PLAN
AS PER 18TH EPS**

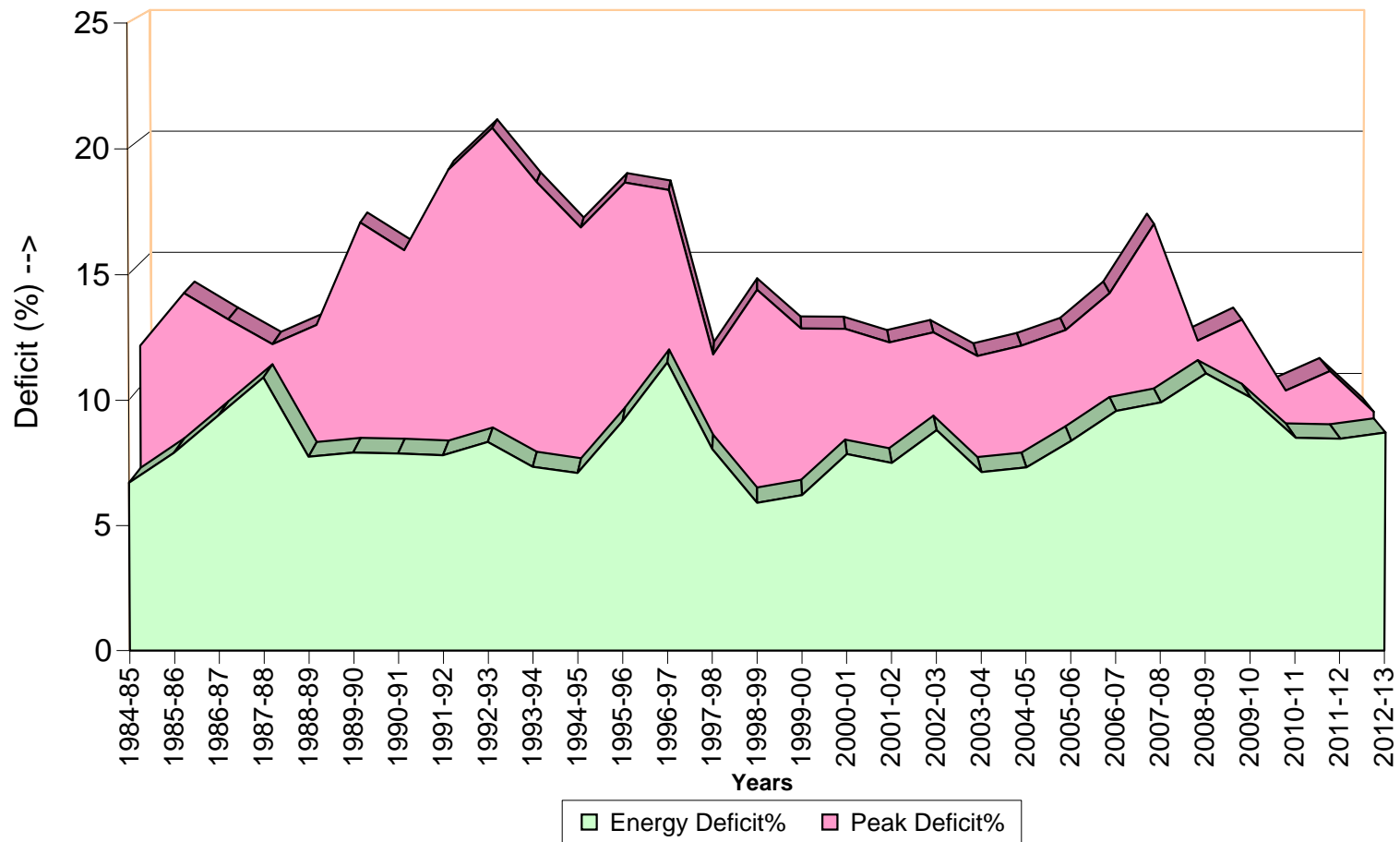
Category	Year 2016-17 End of 12th Plan	Year 2021-22 End of 13th Plan
Domestic	289924	426148
Commercial	116535	185722
Irrigation	210611	287926
Industrial	393306	585819
Others	88619	126193
Total	1098995	1611808

**Table No.9
ALL INDIA POWER SUPPLY POSITION ENERGY-WISE & PEAK-WISE (UTILITIES)**

1984-85 to 2012-13								
Year	Energy				Peak Demand			
	Requirement	Availability	Deficit	Deficit	Demand	Availability	Deficit	Deficit
	(GWh)	(GWh)	(GWh)	(%)	(MW)	(MW)	(MW)	(%)
1984-85	155432	145013	10419	6.70	25810	22800	3010	11.66
1985-86	170746	157262	13484	7.90	28090	24215	3875	13.79
1986-87	192356	174276	18080	9.40	30850	26924	3926	12.73
1987-88	210993	187976	23017	10.91	31990	28242	3748	11.72
1988-89	223194	205909	17285	7.74	36245	31713	4532	12.50
1989-90	247762	228151	19611	7.92	40385	33658	6727	16.66
1990-91	267632	246560	21072	7.87	44005	37171	6834	15.53
1991-92	288974	266432	22542	7.80	48055	39027	9028	18.79
1992-93	305266	279824	25442	8.33	52805	41984	10821	20.49
1993-94	323252	299494	23758	7.35	54875	44830	10045	18.31
1994-95	352260	327281	24979	7.09	57530	48066	9464	16.45
1995-96	389721	354045	35676	9.15	60981	49836	11145	18.28
1996-97	413490	365900	47590	11.51	63853	52376	11477	17.97
1997-98	424505	390330	34175	8.05	65435	58042	7393	11.30
1998-99	446584	420235	26349	5.90	67905	58445	9460	13.93
1999-00	480430	450594	29836	6.21	72669	63691	8978	12.35
2000-01	507216	467409	39807	7.85	74872	65628	9244	12.35
2001-02	522537	483350	39187	7.50	78441	69189	9252	11.79
2002-03	545674	497589	48085	8.81	81492	71547	9945	12.20
2003-04	559264	519398	39866	7.13	84574	75066	9508	11.24
2004-05	591373	548115	43258	7.31	87906	77652	10254	11.66
2005-06	631757	578819	52938	8.38	93255	81792	11463	12.29
2006-07	690587	624495	66092	9.57	100715	86818	13897	13.80
2007-08	739343	666007	73336	9.92	108866	90793	18073	16.60
2008-09	777039	691038	86001	11.07	109809	96785	13024	11.86
2009-10	830594	746644	83950	10.11	119166	104009	15157	12.72
2010-11	861591	788355	73236	8.50	122287	110256	12031	9.84
2011-12	937199	857886	79313	8.46	130006	116191	13815	10.63
2012-13	998114	911209	86905	8.71	135453	123294	12159	8.98

**ALL INDIA PEAK AND ENERGY DEFICIT
UTILITIES
1984 -85 to 2011-12**

Chart : 38



MAP OF INDIA

SHOWING

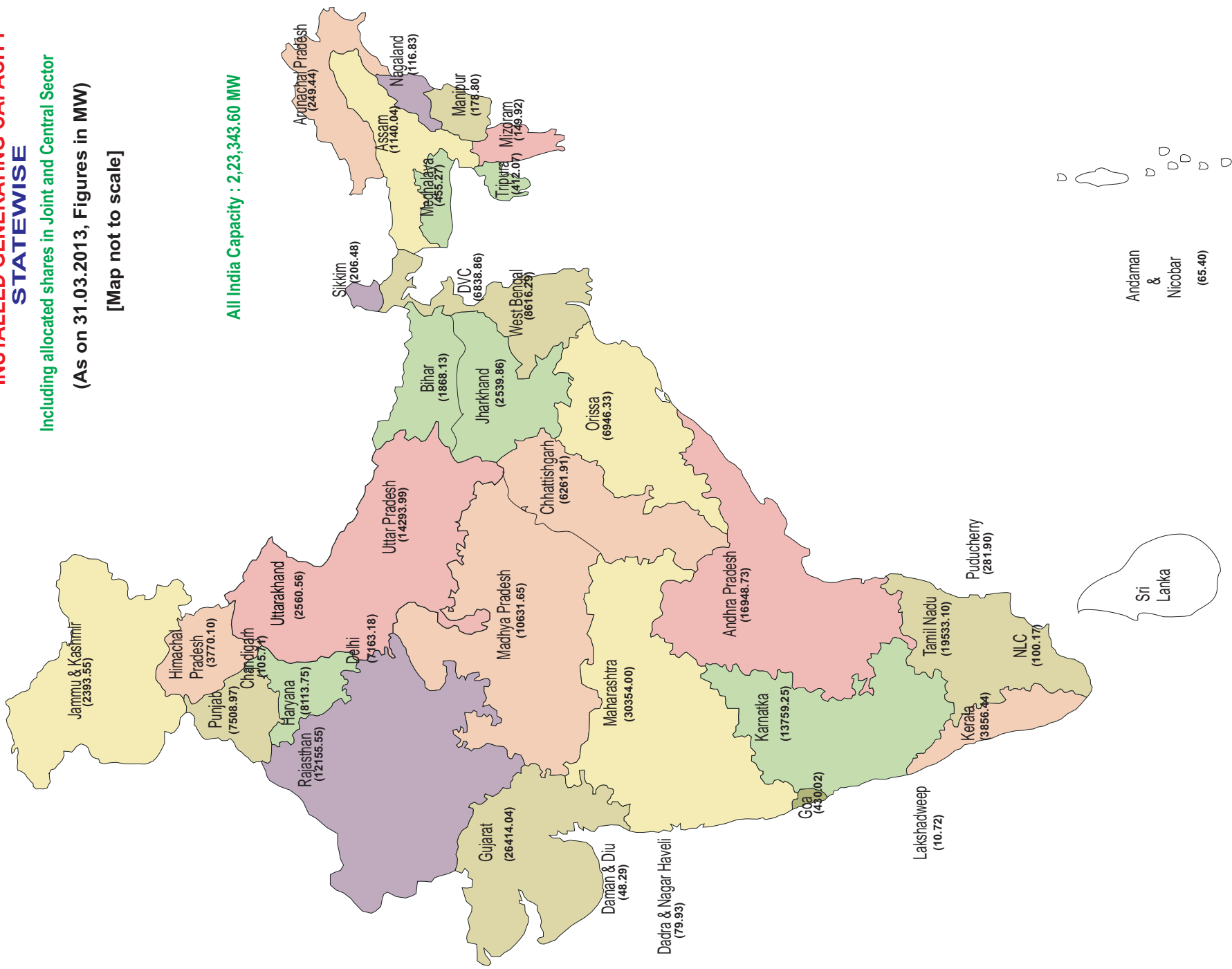
INSTALLED GENERATING CAPACITY STATEWISE

Including allocated shares in Joint and Central Sector

(As on 31.03.2013, Figures in MW)

[Map not to scale]

All India Capacity : 2,23,343.60 MW



MAP OF INDIA

SHOWING

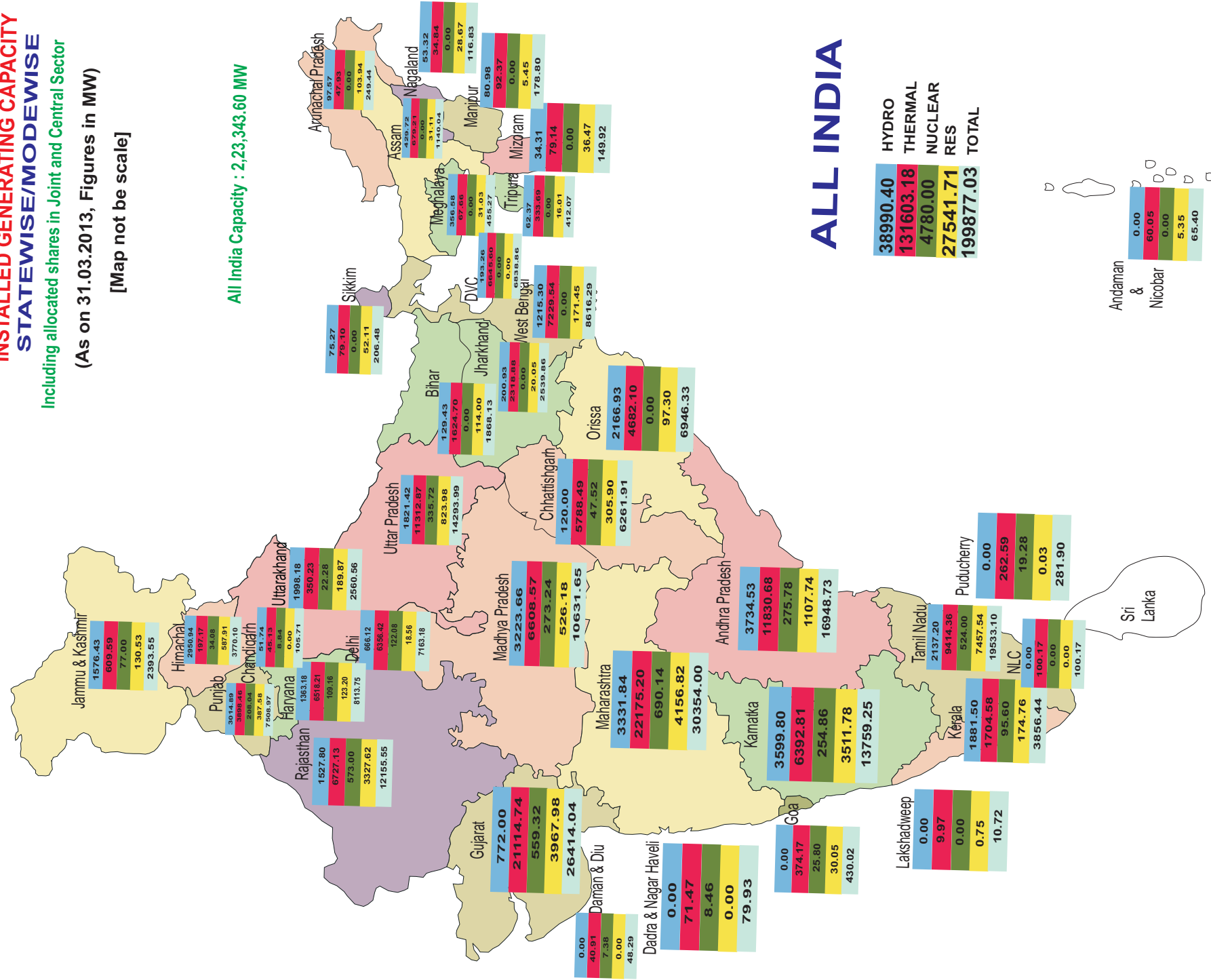
INSTALLED GENERATING CAPACITY STATEWISE/MODEWISE

Including allocated shares in Joint and Central Sector

(As on 31.03.2013, Figures in MW)

[Map not be scale]

All India Capacity : 2,23,343.60 MW



Energy Conservation is Energy Generation



Hydro Power : An Eco-Friendly Power