

अखिल भारतीय विद्युत सांख्यिकी ALL INDIA ELECTRICITY STATISTICS

सामान्य पुनर्विलोकन 2005
(2003-04 के आंकड़े समाविष्ट)

GENERAL REVIEW 2005
(CONTAINS DATA FOR 2003-04)



केन्द्रीय विद्युत प्राधिकरण

विद्युत मंत्रालय

भारत सरकार, नई दिल्ली

जनवरी, 2005

CENTRAL ELECTRICITY AUTHORITY

MINISTRY OF POWER

GOVERNMENT OF INDIA, NEW DELHI

JANUARY, 2005

(Published in fulfillment of CEA's obligation under Section 73 (i) & (j) of the Electricity Act 2003)

(विद्युत अधिनियम 2003 की धारा 73 (आई) एवं (जे) के तहत के.वि.प्रा. के दायित्व के पालन हेतु प्रकाशित)

First Edition : January, 2005
No. of Copies Printed : 700

Published by :
SECRETARY
Central Electricity Authority
Sewa Bhawan, R.K. Puram
New Delhi - 110 066
Tel.: 011-26108476, 26105619
For any clarification/query, please, contact Secretary, CEA

Printed at:
Chandu Press
D-97, Shakarpur
Delhi - 110092
Tel.: 22424396, 22526936

CONTENTS

1.	Prakkathan (Foreword).....	9
2.	Prastavana (Preface)	11

TABLES

Review of Growth of Indian Electricity Sector		15
0.1	Planwise growth of Electricity Sector (Utilities only)	17
0.2	Growth of Installed Electricity Generation Capacity : primemover-wise (Utilities only)	18
0.3	Growth of Gross electricity generation primemover-wise (Utilities only)	19
0.4	Growth of Electricity Consumption Pattern (Utilities only)	20
0.5	Growth of Installed Capacity of Captive Electricity Generation Units : modewise	21
0.6	Growth of Electrical Energy generated by Captive Electricity Generation Units : modewise	22
0.7	Growth of total electrical energy consumption by ultimate consumers Statewise (Utilities only)	23

CHAPTER - 1

Organisational Structure of Electricity Supply Industry in India

Review		27
1.1	State Electricity Boards existing in the country as on 31-03-2004.	28
1.2	Companies, Power Corporations, Management Boards under Central , State or Joint Partnership Existing in the country as on 31.03.2004 for electricity generation/transmission/distribution.	29
1.3	Classification of Licensees as on 31.03.2004	33
1.4	Classification of Municipal Undertakings as on 31.03.2004.	34
1.5	Acquisition of Electricity Supply Undertakings during 2003-04.	35
1.6	New Electricity Supply Undertakings reported / constituted during 2003-04.	36

CHAPTER - 2**Installed Electricity Generation Capacity (Utilities)**

Review	39
2.1 All India Installed Electricity Generation Capacity (Utilities & Non-Utilities) : Primemover-wise as on 31.03.2004	40
2.2 All India Installed Electricity Generation Capacity (Utilities only) Ownership wise & Primemover-wise as on 31.03.2004.	41
2.3 Installed Electricity Generation Capacity (Utilities only) State-wise as on 31.03.2004	42
2.4 Installed Electricity Generation Capacity (Utilities only) Primemoverwise/State-wise as on 31.03.2004.	43
2.5 Installed Electricity Generation Capacity of State Electricity Boards-Primemoverwise as on 31.03.2004.	44
2.6 Installed Electricity Generation Capacity of Electricity Departments/Government Undertakings & Private Sector, Primemover-wise as on 31.03.2004.	45
2.7 Addition in Electricity Generation Capacity (Utilities only) during the year 2003-04	47
2.8 Addition of Electricity Generation Capacity Primemover-wise/ Region-wise/State-wise during the year 2003-04.	49
2.9 Details of Installed Capacity retired /derated State-wise/ Primemover-wise during 2003-04.	50
2.10 Net Addition / Deletion of Electricity Generation Capacity during 2003-04.	51
2.11 Share of participating States in jointly owned power stations during 2003-04.	52

CHAPTER - 3**Electricity Generation**

Review	55
3.1 Gross Electrical energy generation in the country (utilities & non-utilities)Prime-mover-wise during the year 2003-04.	56
3.2 All India Gross electricity generation (utilities only) Ownership-wise and Primemover-wise during 2003-04.	57
3.3 All India Gross Electrical Energy Generation (Utilities only)	58

3.4	Gross Electrical Energy Generation (Utilities only) Prime-mover -wise/Region-wise/State-wise during 2003-04.	59
3.5	Gross Electrical Energy Generation by State Electricity Boards-Primemover-wise during 2003-04.	60
3.6	Gross Electrical Energy Generation by Electricity Departments, Government Undertakings, Central Sector, Municipalities and Private Sector-Primemover- wise during 2003-04.	61

CHAPTER - 4

Captive Electricity Generation Plants(Non-Utilities)

	Review	65
4.1	All India Industry-wise break-up of Installed Electricity Generation Capacity, electrical energy generation and consumption of electricity during 2003-04.	66
4.2	Installed Electricity Generation Capacity of Captive Plants (1.00 MW and above) Statewise/Industrywise as on 31.3.2004.	67
4.3	Gross Electrical Energy Generation by Captive Plants (1.00 MW and above) Statewise/Industrywise during 2003-04.	70
4.4	All India Industry-wise/Primemover wise Installed Electricity Generation Capacity of Captive Plants (1.00 MW and above) during 2003-04.	73
4.5	Industry-wise electricity generation & consumption by industries having Captive Plants(1.00 MW and above) during 2003-04.	74
4.6	State-wise Installed Electricity Generation Capacity of Captive Plants (1.00 MW and above) as on 31-03-2004.	76
4.7	State-wise Electricity Generation & Consumption by Industries having Captive Plants(1.00 MW and above) during 2003-04.	77
4.8	Statewise/Industrywise Electrical Energy Consumption by Industries having Captive Plants(1.00 MW and above) during 2003-04.	79
4.9	Classification of Captive Electricity Generation Plants of Industries Capacity-wise during 2003-04.	82
4.10	Progress of Installed Electricity Generation Capacity of Captive Plants(1.00 MW and above) in Industries.	83
4.11	Progress of Electrical Energy generated by Captive Plants(1.00 MW and above) of Industries	85

CHAPTER - 5**Electric Power Supply & System Losses**

Review	89
5.1 Electrical Energy generated, purchased, sold and lost (All India utilities) during 2003-04.	90
5.2 Electrical Energy lost in transmission & distribution system: Region-wise during 2003-04.	91
5.3 Statewise system losses during 2003-04.	92
5.4 System losses by State Electricity Boards, DVC & BBMB during 2003-04.	94
5.5 Auxiliary Consumption (Utilities only) Primemover-wise/Statewise during 2003-04.	96
5.6 Energy offtakes by States in jointly owned power stations during 2003-04.	102
5.7 Energy offtakes by States from Central Government plants, DVC & State Govt. plants during 2003-04.	103
5.8 Inter-State transfers of electrical energy during 2003-04.	110

CHAPTER - 6**Operating Data (Utilities)**

Review	115
6.1 Consumption of fossil fuels for electricity generation in thermal power plants(By kind of fuels) Statewise during 2003-04.	117
6.2 Classification of steam type electricity generation plants thermal efficiency-wise during 2003-04.	119
6.3 Salient operating data for steam type electricity generation plants (Utilities) during 2003-04.	120
6.4 Peak Electricity Demand met-Region-wise during 2003-04.	121
6.5 Manpower engaged in State Electricity Boards, DVC and Power Corporations as on 31.03.2004.	122
6.6 Plant Load factor of Thermal/Nuclear Electricity Generation Plants during 2003-04	124
6.7 Coal Consumption in Thermal Electricity Generation Plants during 2003-04	125

CHAPTER - 7**Electricity Transmission & Distribution System**

Review	129
7.1 Length of transmission & distribution lines State-wise as on 31.03.2004.	131
7.2 Length of transmission & distribution lines in State Electricity Boards as on 31.03.2004.	134
7.3 Number of transformers and their aggregate capacity (utilities only) State-wise as on 31.03.2004	137
7.4 Number of transformers and their aggregate capacity in State Electricity Boards as on 31.03.2004.	139

CHAPTER - 8**Electricity Utilisation**

Review	143
8.1 All India Electrical Energy Sales (Utilities only) categorywise during 2003-04.	145
8.2 Electrical Energy sales to Ultimate consumers (utilities only) Ownership-wise /Region-wise/State-wise during 2003-04.	146
8.3 Electrical Energy sales to Ultimate consumers(utilities only)-category-wise/state-wise during 2003-04.	147
8.4 Electrical Energy sales by State Electricity Boards-Category-wise & Stationwise during 2003-04.	149
8.5 Electrical Energy sales by private licensees - Category-wise/State-wise during 2003-04	151
8.6 Electrical Energy sales to ultimate consumers by electricity departments, central sector, corporations, govt. undertakings & municipalities-Category-wise State-wise during 2003-04.	153
8.7 Pattern of Electrical energy sales Category-wise State-wise during 2003-04. (Utilities only)	155
8.8 Annual per capita consumption of electricity (Utilities + Non-utilities)-Category-wise/State-wise during 2003-04	157
8.9 Annual per Capita Consumption of electricity during 2003-04	159

CHAPTER - 9**Electricity Consumers & Connected Load**

	Review	163
9.1	Classification of electricity consumers & connected electric load (Utilities only) Regionwise/ State-wise as on 31.03.2004	164

CHAPTER - 10**Urban & Rural Electrification**

	Review	169
10.1	Towns electrified as on 31.03.2004.	170
10.2	Villages electrified in various population groups and rural population benefited by electricity/State-wise as on 31.03.2004.	171
10.3	Irrigation pumpsets/tubewells energized-State-wise as on 31.03.2004.	173

Appendix A :

	List of Govt/Private Establishments/Organisations who had either not furnished 2003-04 Data or Data was not received within time.	175
--	---	-----

Appendix B:

	List of Govt./Private Establishments/Organizations who furnished tentative (Provisional) Data	176
--	--	-----

Appendix C:

	List of Utility-Organizations who have furnished 2003-04 Statistics	177
--	---	-----

Appendix D:

	List of Hydro Power Stations as on 31-03-2004	181
--	---	-----

Appendix E:

	List of Thermal Power Stations as on 31-03-2004	189
--	---	-----

Appendix F:

	List of Captive Power Plants (1MW & above) of Industries that have closed down	202
--	---	-----

Appendix G:

	List of Captive Power Plants (1MW & above) who have furnished the Data in 2003-04	206
--	--	-----