

MAJOR FINDINGS

INSTALLED CAPACITY

The installed capacity of all electricity establishments during the census year 1999-00 stood at 17,564 Mega watts (MW) as compared to 15,860 MW in the year 1998-99 showing an increase of 10.7% over the previous year. Year-wise installed capacity of electricity and percent change since 1990-91 to 1999-00 is given in Table: 1.

TABLE: 1. INSTALLED CAPACITY OF ELECTRICITY GENERATION (1990-91 to 1999-00)
(MW)

| YEAR | INSTALLED CAPACITY | PERCENT CHANGE | YEAR | INSTALLED CAPACITY | PERCENT CHANGE |
|---------|--------------------|----------------|---------|--------------------|----------------|
| 1990-91 | 9,094 | - | 1995-96 | 13,154 | 10.0 |
| 1991-92 | 9,533 | 13.3 | 1996-97 | 14,983 | 2.0 |
| 1992-93 | 10,192 | 4.8 | 1997-98 | 15,860 | 13.9 |
| 1993-94 | 11,721 | 6.9 | 1998-99 | 15,860 | - |
| 1994-95 | 12,894 | 15.0 | 1999-00 | 17,564 | 10.7 |

ELECTRICITY GENERATION

3.2 The generation of electricity during the census year 1999-00 stood at 66,562 GWH as against 65,871 GWH in the year 1998-99. It is 1.0% higher as compared to previous year. Year-wise electricity generation and annual percent change since 1990-91 is given in Table: 2.

TABLE: 2. ELECTRICITY GENERATION (1990-91 TO 1999-2000)
(GWH)

| YEAR | ELECTRICITY GENERATION | PERCENT CHANGE | YEAR | ELECTRICITY GENERATION | PERCENT CHANGE |
|---------|------------------------|----------------|---------|------------------------|----------------|
| 1990-91 | 41,918 | - | 1995-96 | 57,732 | 5.9 |
| 1991-92 | 45,876 | 10.3 | 1996-97 | 59,894 | 3.7 |
| 1992-93 | 48,912 | 5.8 | 1997-98 | 62,915 | 5.0 |
| 1993-94 | 51,474 | 5.2 | 1998-99 | 65,871 | 4.7 |
| 1994-95 | 54,530 | 5.9 | 1999-00 | 66,562 | 1.0 |

INSTALLED CAPACITY BY TYPE OF PLANT

3.3 Installed capacity by type of plant i.e. hydel, thermal and nuclear for the years 1990-91 to 1999-00 is given in Table:3

TABLE: 3. INSTALLED CAPACITY BY TYPE OF PLANT (1990-91 to 1999-00)
(MW)

| YEAR | TOTAL | HYDEL | THERMAL | NUCLEAR |
|-------------|--------------|--------------|----------------|----------------|
| 1990-91 | 9,094 | 2,898 | 6,059 | 137 |
| 1991-92 | 9,534 | 3,330 | 6,067 | 137 |
| 1992-93 | 10,192 | 3,761 | 6,294 | 137 |
| 1993-94 | 11,721 | 4,725 | 6,859 | 137 |
| 1994-95 | 12,894 | 4,826 | 7,931 | 137 |
| 1995-96 | 13,154 | 4,826 | 8,191 | 137 |
| 1996-97 | 14,983 | 4,826 | 10,020 | 137 |
| 1997-98 | 15,860 | 4,826 | 10,897 | 137 |
| 1998-99 | 15,860 | 4,826 | 10,897 | 137 |
| 1999-00 | 17,564 | 4,826 | 12,601 | 137 |

ELECTRICITY GENERATION BY TYPE OF PLANT

3.4 The electricity generation by type of plant i.e. hydel, thermal and nuclear for the years 1990-91 to 1999-00 is given in Table: 4.

TABLE:4 ELECTRICITY GENERATION BY TYPE OF PLANT (1990-91 to 1999-00)
(GWH)

| YEAR | TOTAL | HYDEL | THERMAL | NUCLEAR |
|-------------|--------------|--------------|----------------|----------------|
| 1990-91 | 41,918 | 18,298 | 23,235 | 385 |
| 1991-92 | 45,876 | 18,647 | 26,811 | 418 |
| 1992-93 | 48,912 | 21,112 | 27,218 | 582 |
| 1993-94 | 51,474 | 19,436 | 31,541 | 497 |
| 1994-95 | 54,530 | 22,858 | 31,161 | 511 |
| 1995-96 | 57,732 | 23,206 | 34,043 | 483 |
| 1996-97 | 59,894 | 20,858 | 38,690 | 346 |
| 1997-98 | 62,915 | 22,060 | 40,480 | 375 |
| 1998-99 | 65,871 | 22,449 | 43,138 | 284 |
| 1999-00 | 66,562 | 19,288 | 46,875 | 399 |

ELECTRICITY CONSUMPTION

3.5 The total consumption of electricity in the country was recorded as 46358 Giga Watt Hours (GWH) during the year 1999-00 as compared to 45756 GWH in the year 1998-99, showing an increase of 1.3 %.

3.6 Sector-wise detail of electricity consumption during the years 1997-98 to 1999-00 is given in Table: 5.

TABLE: 5. ELECTRICITY CONSUMPTION BY SECTOR (1997-98 to 1999-00)
(GWH)

| SECTOR | 1997-98 | | 1998-99 | | 1999-00 | |
|-----------------|---------|-------|---------|-------|---------|-------|
| | Units | % | Units | % | Units | % |
| Total | 45112 | 100.0 | 45756 | 100.0 | 46358 | 100.0 |
| Domestic | 18670 | 41.4 | 19268 | 42.1 | 21485 | 46.4 |
| Commercial | 2334 | 5.2 | 2381 | 5.2 | 2544 | 5.5 |
| Industrial | 13042 | 28.9 | 12924 | 28.3 | 13972 | 30.1 |
| Agricultural | 6934 | 15.4 | 5620 | 12.3 | 4542 | 9.8 |
| Public Lighting | 387 | 0.9 | 225 | 0.5 | 239 | 0.5 |
| Bulk Supply | 3742 | 8.3 | 5338 | 11.6 | 3576 | 7.7 |

NUMBER OF CONSUMERS

3.7 The number of consumers during the year 1999-00 was recorded as 13,192 thousand as compared to 12,248 thousand in the year 1998-99 showing an increase of 7.7%. Sector-wise number of consumers during the years 1997-98 to 1999-00 is given in Table: 6

TABLE: 6. NUMBER OF CONSUMERS BY SECTOR (1997-98 to 1999-00)
(000 Nos.)

| SECTOR | 1997-98 | 1998-99 | 1999-00 |
|--------------|---------|---------|---------|
| Total | 11,605 | 12,248 | 13,192 |
| Domestic | 9,502 | 10,005 | 10,783 |
| Commercial | 1,708 | 1,840 | 2,001 |
| Industrial | 214 | 220 | 224 |
| Agricultural | 172 | 174 | 175 |
| Others | 09 | 09 | 09 |

Note: The category "Others" includes public lighting, bulk supply and traction.

ELECTRICITY CONSUMED IN AUXILIARIES AND SYSTEM LOSSES

3.8 The electricity consumed in auxiliaries of power stations was 2,540 GWH in 1999-00 as compared to 2,467 GWH in 1998-99. The electricity lost in the transmission and distribution process was 17,664 GWH in the year 1999-00 as against 17,179 GWH in the year 1998-99.

3.9 Data on electricity consumed in auxiliaries of power stations and system losses (transmission & distribution losses) for the years 1990-91 to 1999-00 is given in Table: 7.

TABLE: 7. ELECTRICITY CONSUMED IN AUXILIARIES AND SYSTEM LOSSES (1990-91 TO 1999 - 00)
(GWH)

| YEAR | AUXILIARIES CONSUMPTION | | SYSTEM LOSSES | |
|-----------|-------------------------|-----|---------------|------|
| | UNITS | % | UNITS | % |
| 1990 - 91 | 1,345 | 3.2 | 8,445 | 20.8 |
| 1991 - 92 | 1,480 | 3.2 | 9,434 | 21.2 |
| 1992 - 93 | 1,564 | 3.2 | 10,168 | 21.5 |
| 1993 - 94 | 1,768 | 3.4 | 11,460 | 23.0 |
| 1994 - 95 | 1,829 | 3.4 | 12,316 | 23.4 |
| 1995 - 96 | 2,094 | 3.6 | 13,159 | 23.7 |
| 1996 - 97 | 2,236 | 3.7 | 14,172 | 24.6 |
| 1997 - 98 | 2,350 | 3.7 | 15,453 | 25.5 |
| 1998-99 | 2,467 | 3.8 | 17,179 | 27.3 |
| 1999 - 00 | 2,540 | 3.8 | 17,664 | 27.6 |

3.10 The data of the above table shows that electricity consumed in the auxiliaries of power plants was 3.8% in the year 1999-00 as compared to 3.7% in the previous year. The data further shows that system losses were 27.6% during the year 1999-00 as compared to 25.5% during the year 1997-98 showing an increase of about 2.1%.

VALUE OF ELECTRICITY SOLD, INDUSTRIAL COST AND VALUE ADDED

3.11 The value of electricity sold i.e. energy charges billed (Revenue from sale of power and other charges) during the year 1999-00 stood at Rs.164, 895 million as against 148,620 million rupees during the year 1998-99 showing an increase of 11.0%.

3.12 The industrial cost incurred during the year 1999-2000 was 69,548 million rupees as compared to 61,534 million rupees during the year 1998-99. The industrial cost in the year 1999-00 showed an increase of 13.0% over the previous year.

3.13 The total value added during the year 1999-2000 stood at 95,347 million rupees as against 87,086 million rupees in the year 1998-99 showing an increase of 9.5%.

3.14 Data on value of electricity sold, industrial cost and value added for the years 1990-91 to 1999-2000 is given in Table: 8.

TABLE: 8. VALUE OF ELECTRICITY SOLD, INDUSTRIAL COST AND VALUE ADDED (1990-91 to 1999-00)

| YEAR | (Million Rs) | | |
|---------|---------------------------|-----------------|-------------|
| | VALUE OF ELECTRICITY SOLD | INDUSTRIAL COST | VALUE ADDED |
| 1990-91 | 38,928 | 12,750 | 26,178 |
| 1991-92 | 44,896 | 15,934 | 28,962 |
| 1992-93 | 49,345 | 18,761 | 30,584 |
| 1993-94 | 56,986 | 22,738 | 34,248 |
| 1994-95 | 68,654 | 27,862 | 40,792 |
| 1995-96 | 99,687 | 36,742 | 62,945 |
| 1996-97 | 113,746 | 48,315 | 65,431 |
| 1997-98 | 134,592 | 58,140 | 76,452 |
| 1998-99 | 148,620 | 61,534 | 87,086 |
| 1999-00 | 164,895 | 69,548 | 95,347 |