LIST OF TABLES

Table 1.1. Per capita national income & per capita energy consumption in selected countries (1966)
Table 1 2 Growth of commercial energy consumption by region (in TW)
Table 1 3 Global distribution of energy use & population (1978)
Table 1 4 World energy resource reserves-1996 (Region wise)
Table 1 5. World electricity production – 1971 and 1990
Table 1 6. Generating capacity & generation of electricity in selected countries-1970 to 1990 (MW & MU)
Table 1 7. Energy productivity of selected countries 1970-1990 (MU/MW)
Table 3.1 Proven energy resources
Table.3 2 Geological, mineable & recoverable reserves of coal (1-1-1991)
Table 3 3 Hydro power potential in TWh
Table 3 4. Type wise coal production (Mt)
Table 3.5. Plan-wise outlays & expenditure (Rs. Million)
Table 3 6 Plan wise slippage in additional installed capacity (M W)
Table 3 7. Growth of installed capacity during plan periods (M W)
Table 3 8. Trends in installed capacity using semi log linear model (Case-I)
Table 3.9. Trends in installed capacity using semi log linear model (Case-II)
Table 3.10. Changes in power source mix (Percentage) 1969-70 to 1995-96
Table 3.11. Growth of power generation (MU) (1950 to 92/97)
Table 3.12 Trends in power generation using semi log linear model - Case-I
<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 3.13</td>
<td>Trends in power generation using semi log linear model - Case-II</td>
</tr>
<tr>
<td>Table 3.14</td>
<td>Elasticity coefficient of generation – Case – I</td>
</tr>
<tr>
<td>Table 3.15</td>
<td>Elasticity coefficient of generation – Case – II</td>
</tr>
<tr>
<td>Table 3.16</td>
<td>Trends in operational efficiency of power plants (kWh/kW)</td>
</tr>
<tr>
<td>Table 3.17</td>
<td>Trends in energy consumption during the plan periods – Category wise (1950 to 1995-96)</td>
</tr>
<tr>
<td>Table 3.18</td>
<td>Growth of energy consumption during the plan period (1950-1996-97)</td>
</tr>
<tr>
<td>Table 3.19</td>
<td>Trends in the relative share of power consumption –1950-1996/97(%)</td>
</tr>
<tr>
<td>Table 3.20</td>
<td>Sector wise demand elasticities</td>
</tr>
<tr>
<td>Table 3.21</td>
<td>Trends in per capita energy consumption – kWh (Sector wise) - 1970/71-1993/94</td>
</tr>
<tr>
<td>Table 3.22</td>
<td>Trends in the growth of consumers (in thousands) (Sector wise) 1970/71-1993/94</td>
</tr>
<tr>
<td>Table 3.23</td>
<td>Trends in the rate of growth of connected load (MW) 1970/71-1993/94</td>
</tr>
<tr>
<td>Table 3.24</td>
<td>All India demand and supply of electricity - 1985-95</td>
</tr>
<tr>
<td>Table 3.25</td>
<td>State wise power requirements, supply and deficit surplus 1991-92 to 1994-95</td>
</tr>
<tr>
<td>Table 3.26</td>
<td>State wise transmission and distribution losses (in percentage) in SEBs and Eds. 1980-81 to 1993-94</td>
</tr>
<tr>
<td>Table 3.27</td>
<td>Energy GDP relationship during the plan periods - 1950-1996</td>
</tr>
<tr>
<td>Table 3.28</td>
<td>Financial position of SEBs 1984-1992 (Rs. In Crores)</td>
</tr>
<tr>
<td>Table 4.1</td>
<td>Growth of power stations in Kerala (1940-95)</td>
</tr>
<tr>
<td>Table 4.2</td>
<td>Trends in the growth of installed capacity, demand, generation T&amp;D loss, distribution lines, transformers and sales during the plan periods</td>
</tr>
<tr>
<td>Table 4.3</td>
<td>Ratio of HT &amp; LT lines during the plan periods</td>
</tr>
<tr>
<td>Table 4.4</td>
<td>Number of transformers per '000 consumers &amp; per MW of connected load</td>
</tr>
</tbody>
</table>
Table 4.5  Growth rate of power system variables on the supply side 1957-1995
Table 4.6  Trends in the growth of demand side variables during the plan periods
Table 4.7  Consumption and connected load per consumer during plan periods
Table 4.8  Rate of growth of power system variables (Demand Side)
Table 4.9  Trends in the growth of revenue, expenditure and agricultural connections during the plan periods (1950-95)
Table 4.10 Growth rates of revenue, tariff, expenditure, and agricultural connection during the plan periods (1957-95)
Table 5.1  Post energy surplus period (1969-1996)
Table 5.2  Cost overrun and time overrun of hydel projects
Table 5.3  Plan wise investment & expenditure on power sector
Table 5.4  Details of hydro power potential of Kerala
Table 5.5  Projections of installed power capacity (MW)
Table 5.6  Generation, design value and capacity utilisation of Hydro stations – 1981 to 1995-96
Table 5.7  Trends in the PLF of hydel stations- 1985-86 to 1994-95
Table 5.8  Energy productivity of hydel stations (1980-95)
Table 5.9  The trends in maximum demand and load factor
Table 5.10 The demand factor of the state power system (1950-95)
Table 5.11 Ratio of transformers per consumption, consumers, connected load and consumer per circuit kilometres (1950-95)
Table 5.12 Number of substations (1981- 1995)
Table 5.13 Unit Loss & revenue loss (1970-95)
Table 5.14 Additional transmission facilities required
Table 5.15. Cost per unit sent out at different voltage ends (Paise/kWh) 1978-95

Table 5.16 Growth in average tariff - category wise (Paise/unit) 1985-86 to 1995-96

Table 5.17. Cost-tariff differences of categories of consumers (Paise/unit) 1985-1995

Table 5.18 Cost-revenue differences in South Indian SEBs (Paise/unit) 1990-95

Table 5.19 Comparison of cost structure in South Indian SEBs (Paise/Unit) 1995-96

Table 6.1 The trends in the rate of changes of connected load in MW (1970 to 1995)

Table 6.2 Trends in the percentage share of connected load

Table 6.3 Customer categories wise consumption of energy (MU) – All India (1995-96)

Table 6.4 Trends in energy consumption – Sector wise (MU) 1970-95

Table 6.5 Percentage share of energy consumption 1970-95

Table 6.6. Growth rate of consumers (1970-95)

Table 6.7 Consumption consumer elasticity

Table 6.8. Per capita consumption (Sector wise and Total) – kWh (1970-95)

Table 6.9 Growth rates of consumption, consumers and connected load (1970-95)

Table 6.10 Consumption per connected load (kWh/W)

Table 6.11 GDP - Energy relationship in Kerala – 1980-95 (Constant Price)

Table 6.12 Details of models employed

Table 6.13 Demand forecast for selected terminal years