CHAPTER 4

POWER DEMAND FORECAST AND GENERATION AND TRANSMISSION SYSTEM DEVELOPMENT PLANS

CHAPTER 4



4.1 Basic Concept of Power Demand Forecast

The power system must supply electric power of good quality with high reliability, satisfying the demand, to all consumers in the country in an impartial manner. The power system consists of the three major components of power generating plants, transmission system and distribution system. Each of these three components must be expanded and reinforced so as to meet the demand in adequate and coordinated manners with technical and economic soundness.

Normally, different planning methods are applied individually to each component of the power system. The power demand forecast is the most important element in planning a power system, and items to be taken into account in demand forecasting vary according to planning objectives and purposes of use as given below:

Development Plan	Items of Power Demand
(a) Generation expansion	All power requirement, i.e.
	1) Station service power of power station
	2) Transmission loss (line and transformer)
	3) Distribution loss (line and transformer)
	4) Demand (sold energy or power)
(b) Transmission extension	Sending out power from substations, i.e.
	1) Distribution loss (line and transformer)
	2) Demand (sold energy or power)
(c) Distribution extension Po	ower consumption of consumers, i.e.
	1) Demand (sold energy or power)

For transmission system extension planning, substation loads need to be determined to identify the demand at the substation level. Such substation loads shall be well coordinated with the nation-wide demand forecast as the basis of the upstream generation expansion plan.

4.2 Economic Scenarios for Power Demand Forecast

4.2.1 Historical Records of GDP

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Historical records of GDP (at 1982 constant), generated energy, energy sales, their average annual growth rate and its elasticity against the GDP growth rate for the period of 1982 to 1994 are given below, and details are shown in Table 4.2.1-1.

	1982	1994	Inc. Rate	Elasticity
(a) GDP	94,679 Rs. M	159,327 Rs. M	4.08%	gerianian kalen maaren apar esa mom
(b) Generation	2,065.7 GWh	4,386.8 GWh	6.48%	1.59
(c) Energy Sales	1,686.0 GWh	3,564.8 GWh	6.44%	1.58

There is good correlation between growth rates for GDP and power demands. As seen above, the energy sales has grown at a rate of nearly 1.6 times the GDP growth rate. A high elasticity is forecast to be maintained through the plan period to 2015 reflecting expected increase in industrial consumption.

4.2.2 Economic Scenario for Power Demand Forecast

CEB prepared a nation-wide long-term (20 years) power demand forecast for the purpose of power generation expansion planning, financial planning, fund programming (mainly for receiving financial assistance), etc., and reviewed it every year to meet changes in situation.

The econometric model has been used mainly to prepare this demand forecast. In this model, assumed figures of total GDP and per capita GDP are used and these constitute the basis for power system development planning. In the 1994 demand forecast, the actual 1993 GDP growth rate of 6.9% in the Central Bank Annual Report - 1993, and the 4 year (1994, 5, 6 and 7) growth rates in the Public Investment Plan, 1993 - 1997; 6.0% for 1994, 6.0% for 1995, 6.5% for 1996 and 7.0% for 1997 were referred to. For the period after 1998, a growth rate of 7.0% was assumed.

4.3 Power Demand Forecast of CEB

4.3.1 Nation-Wide Demand Forecast

The nation-wide power demand forecast of CEB is prepared every year by the Load Forecasting and Tariff Branch of the Planning Division.

For forecasting nation-wide energy sales, the Econometric Software Package consisting of the Time Trend Analysis Model and Econometric Method Model is used. Further for forecasting generation energy and maximum demand at the generation end the following assumptions were used:

System loss

From the 1994 actual value of 18.3%, the loss factor is assumed to be improved at a rate of 0.5 to 0.7% per annum and becomes 12.0% in 10 years by 2004. After 2005, the loss factor is assumed to remain the same at 12.0%.

Annual load factor

The peak demand of the present power system appeared at around 19:00 o'clock in the evening (old time, summer time is applied from summer 1996), and the annual load factor was 55.7% in 1995. With the growth in the industrial and commercial demand, the annual load factor is assumed to become higher at a rate of 0.2 to 0.8% per annum and becomes 58.0% in 10 years time by 2004. As same as the loss factor, the annual load factor is also assumed to remain constant at 58.0% thereafter.





In the 1994 demand forecast, the high and low scenario forecasts were defined as the forecast values for the case that the energy sales in 1993, the base year of demand forecast, was increased or decreased from the base value by 3.15%. Actually, the forecast was further adjusted taking the historically highest growth of 1993 (12.4%), actual result of energy sales in the first quarter of 1994 (10.4% growth over the previous year), expectation for rapid growth in the Northern and Eastern Provinces, etc., into consideration.

The 1994 demand forecast was finally reviewed by the board of directors. The forecast was finalized by obtaining energy sales, generation energy and maximum demand using the annual growth rate recommended by them. The finally recommended demand forecast is summarized below:

1994 Energy and Maximum Demand Forecast

	Genen	ated Energy	(GWh)	<u>Maxin</u>	num Demand	(<u>MW</u>)
	Base	High	Low	Base	High	Low
1994	4,376	4,455	4,296	890	910	877
1999	6,799	7,576	6,096	1,360	1,520	1,222
2004	10,506	12,881	8,584	2,071	2,526	1,691
2009	16,164	21,587	12,039	3,181	4,249	2,370
2014	24,870	26,375	16,886	4,895	7,159	3,323

The results of power demand forecasts based on various models mentioned in the Power and Energy Demand Forecast Studies, 1994 - 2014, are tabulated in Table 4.3.1-1.

According to Table 4.3.1-1, in the base case forecast the energy sales is estimated to grow at the rate of 10% per annum during the initial 10 years and 9% for the next 10 years (as shown in the above table this corresponds to about 9% growth in the generated energy during the plan period), and this forecast is used mainly for preparation of medium to long term financial planning and fund programming. This forecast was judged to be reasonable for using to transmission system planning of the Study taking into account the actual growth of 8.4% per annum for the recent 5 years after 1990. The generation expansion plan of CEB explained in Clause 4.5 was prepared based on this base case forecast demand.

4.3.2 CEB's Demand Forecast Revised for the Study

Regarding the nation-wide power demand forecast as the basis of the long-term transmission system development study, CEB proposed revisions of the 1994 demand forecast taking into account recent changes in situation and presented the following forecast values. The forecast demands of each year are shown in Table 4.3.2.-1 and summarized below:

Energy and Maximum Demand Forecast (Base Case)

	Requir	ed Energy (C	GWh)	Maxii	num Deman	d (MW)
	Base	High	Low	Base	High	Low
1994	4,364	4,364	4,364	910	910	910
1999	6,805	7,119	6,501	1,365	1,428	1,304
2004	10,194	11,162	9,300	2,010	2,201	1,834
2009	15,684	17,977	13,665	3,087	3,538	2,690
2014	24,132	28,952	20,079	4,757	5,698	4,268

In this Study, the area-wise and substation-wise demand forecasts were prepared and the transmission system planning was carried out, based on the base case forecast demand among the above-mentioned alternatives.

4.3.3 Power Demand Forecast at Grid Substations

For the purpose of formulating a transmission system development plan, CEB prepared a forecast of substation-wise demands, and the applied methods are explained below.

(1) Area-Wise Energy Sales Forecast

The arithmetic average of annual growth rates of demand in the period was calculated for each of the CEB's areas based on the annual records, Sales and Generation Data Book, and the energy sales for the period of 15 years up to 2009 was forecast using the obtained annual rates.

The forecasting calculations of energy sales were performed using a computer program and not with spread sheet. Therefore, calculation process becomes complicated in case that special considerations are required for each area, and the current method does not work efficiently for yearly review.

Important considerations which were taken into account in demand forecasting are explained below.

CEB's areas

Sri Lanka is administratively divided into 9 provinces, but CEB divided the Western Province into three regions of Colombo City, Western Province - North and Western Province - South due to large consumption in the area. A provincial office is established for each province, and these offices are carrying out operation of their distribution systems and power sales to consumers. The provinces are further divided into 40 areas (called CEB's Areas in this report) in total as of the end of 1995.

The CEB's Areas do not fully coincide with the administrative divisions of Districts or Divisions. In preparing extension plans for the transmission and distribution systems, there are difficulties in keeping coordination with official figures of population, number of households, production quantity, area development plans, etc., as such official figures are prepared based on administrative divisions.

Average annual growth rate of energy sales

The annual growth rates used for demand forecasting were determined based on the growth rate of each year in the actual sales records for the past 9 years and their averages taking into account specific

features of each area and area development plans. The CEB's Areas do not have fixed boundaries, and their boundaries have been modified taking into account actual growth in demand and times of boundary change are irregular. This makes calculation of area-wise growth rate very difficult.

Coordination with the nation-wide demand forecast

The sum of the separately calculated demand of all the areas naturally does not coincide with the nation-wide forecast demand. The balance of two forecast values is distributed in proportion to areawise forecast values so as to attain coordination of two forecasts.

(2) Substation-Wise Demand Forecast

The sending out energy from each substation including those of the new additions during the period of 8 years from 1995 to 2002 was forecast from the area-wise forecast energy obtained above and expected supply share of each substation including new additions. After 2003, it is assumed that the supply share in 2002 is kept unchanged through the plan period, which means the future growth of demand is assumed to be proportional to the forecast substation demands in 2002.

The annual maximum demand of each substation was calculated from the above forecast energy and the estimated annual load factor. The 1994 annual load factors used by CEB were in the range of 41.6% of Kilinochchi and 75% of Kolonnawa. These figures considerably differ from the 1995 annual load factors collected in relation to the Study.

CEB's demand forecast for energy sales and maximum demand for areas and grid substations are shown in Tables 4.3.3-1, 4.3.3-2 and 4.3.3-3.

4.4 Power Demand Forecast of the JICA Team

4.4.1 General

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To work out a development plan of the transmission system, it is required to prepare and understand the trend of load variation of each substation. It is a widely applied practice to estimate area-wise power demand according to the ratio method (developed as a forecasting model of trend of area-wise population), i.e. application of changing rates of the past composition of demand to the total of each area.

However, as explained in the preceding clause the past records of energy sales, the most important component for demand forecast, has been collected and compiled only for the CEB's Areas. On the other hand, social indices which are required to verify the result of demand forecast such as, (a) trend of population shift including classification for occupations, (b) trend of change in industrial framework, (c) actual status of regional development, etc., are available only for the administrative divisions, and not estimated for the CEB's Areas.

Therefore, it was decided to adopt the CEB's demand forecasting method for this Study. In actual application, major items which were pointed out as doubtful have been reviewed for improvement. Further, utmost attention has been given to reflect the past trend of demand to the demand forecast.

The block diagram of the area-wise demand forecast and substation-wise demand forecast which were used in the Study are presented in Fig. 4.4-1.

As shown in Fig. 4.4-1, the demand forecast of each substation was prepared in the following process; (1) review of overload of each grid substation, (2) review of the method to mitigate overload problems by shifting a certain amount of load to other substations by changeover of the distribution network, (3) review of possibility of transformer addition and/or replacing with larger units, and if the overload problem can not be solved, (4) review of construction of a new substation as the final solution.

The forecasting methods in general including the one adopted in the Study are based on an assumption that the past trends of demand is to remain unchanged even in the future. It is to be kept in mind that this method is appropriate for application to a short-term forecast, and may create problems when applied to a long-term forecast. Therefore, review of forecasting method according to variation in situation is necessary.

4.4.2 Area-Wise Energy Demand Forecast

As the demand forecasting method basically same as the CEB's method, explained in the foregoing clause, has been adopted in the Study, only modifications made for use in general purpose and points which were rearranged and clarified are explained in this clause.

(1) Actual Average Growth Rates by Area

- (a) In this Study, the average annual growth rate of each area was calculated based on the energy sales record for the recent 10 years. In case that short-term records of around five years are used, values for low demand density area are much distorted by emerging of large consumers like large manufacturing plant. Therefore, such abnormality can be mitigated by extending the period.
- (b) A CEB's area is normally divided into two smaller areas with growth in area demand. Its time is arbitrary and not fixed. Therefore, there is possibility that the calculated figures of area growth rates do not reflect true status of the area. Therefore, in this Study the growth rate of old area was calculated for a few years period, and applied the obtained growth rate to the divided two areas. The area-wise records of sales energy for 10 years and average annual growth rates are tabulated in Tables 4.4.2-1 and 4.4.2-2.

(2) Growth Rates Used for Power Demand Forecast

The following problems are noted in applying the past growth rates to demand forecasting.

- (a) The recent past trend is assumed to be maintained to the near future, and this is the basic idea of this forecast. However, it is quite doubtful to apply this assumption for a long period of 20 years.
- (b) The sum of small demand in each area is much affected by a high growth in a certain portion. This trend become conspicuous with time and the overall growth rate becomes larger year by year.

To mitigate the above-mentioned problems to some extent, both basic growth rates (constant throughout the plan period) and adjusting growth rates (decreasing gradually year by year) were applied.









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The assumed growth rates are shown in Table 4.4.2-4, and the forecast sales energy of the CEB's areas which were calculated using the above growth rates are shown in Table 4.4.2-3.

(3) Coordination with Nation-Wide Sales Energy Forecast

To attain coordination between the sum of area-wise energy sales forecast and the nation-wide forecast, the balance of two forecast values was distributed in proportion to the area forecast values. Adjusted area-wise demand forecast and growth rates of each year are presented in Tables 4.4.2-5 and 4.4.2-6.

(4) Area-Wise Energy Demand at Grid Substation Level

In the nation-wide demand forecast, the required energy for generation and annual maximum demand are calculated for each year from the energy sales, and assumed power system loss and annual load factor.

For preparing a transmission system development plan, energy requirements at the grid substations as the basis to calculate the substation loads at the system peak time are required, and these were obtained with assumptions mentioned below.

The System Control Center prepares the Monthly Review Report for System Control and Operations. The power system loss for one year in 1995 as the sum of 12 monthly reports is reported as summarized below, and as to details Table 4.4.2-7 is referred to:

ì.	Power station service:	26.3 GWh	(0.5%)
2.	Transmission system loss:	335.8 GWh	(7.0%)
3.	Distribution system loss:	511.5 GWh	(10.7%)
4.	Overall loss:	873.7 GWh	(18.2%)
5.	Transmission maximum power loss:	62.1 MW	(6.6%)

Note: I to 4 are figures of one year in 1995 and 5 is calculated from the average value of monthly maximum demand.

From the above, very large loss value of the transmission system is noted. According to the result of the 1995 power flow calculation at the time of the maximum demand of the year the transmission system loss not including that of transformers was 3.7% and considerable difference with the above is noted. The energy loss is slightly smaller than the power loss at the time of the maximum demand. Theoretically the latter shall be over two times compared with the former. These discrepancy is considered to be caused by inaccuracy of metering apparatus.

On the other hand, in the nation-wide demand forecast the 1994 actual system loss of 18.3% is estimated to be improved at a rate of 0.5 to 0.7% per annum to 12.0% in 2004.

Under such circumstance, in this Study the future loss values are estimated based on the recorded values though there is problem of metering as given below:

- 1. Transmission loss: 7.0% in 1995 is assumed to decrease at a rate of 0.3% per annum for the initial 5 years and 0.25% per annum thereafter and become 4.5% in 2004.
- 2. Distribution loss: 10.5% in 1995 is assumed to decrease at a rate of 0.35% per annum for the initial 6 years and 0.3% per annum thereafter and become 7.5% in 2004.

The required energy sales (sending out energy from the grid substations) of each CEB's area, obtained by adding the above assumed distribution loss on the energy sales, are shown in Table 4.4.2-8.

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4.4.3 Power Demand Forecast of Substations

In preparing demand forecast of each grid substation, the nation-wide demand is required to be allocated to each substation. Therefore, such demand forecast is required to be reviewed at each occasion of new construction of substations. In this clause, various factors which affect maximum load of each substation are explained.

The Monthly Review Reports for System Control and Operations provide useful information on the power system, and the following factors are worked out from the reported figures in the 1995 reports.

(1) Annual Load Factor

The 1995 maximum demand was recorded on 28th November. However, the annual maximum demand of each substation should be based on the annual maximum demand of the substation obtained from the Monthly Review Reports of whole the year, and the results are presented in Table 4.4.3-1.

The annual load factor of each substation was calculated from the maximum demand and the annual sent out energy, and the estimated load factors up to 2015 are shown in Table 4.4.3-2.

(2) Conversion from Area-Wise Energy to Substation-Wise Energy

The table which clarifies power demand of each CEB area is to be supplied from which substations is in this Study called the power supply matrix. The matrixes have been prepared with cooperation of the system planning engineers of provinces. An example of matrix for the year 2000 is shown in Table 4.4.3-3. The other matrices for 2001 through 2010 and for 2015 are included in Appendix A6.3.

As there are some differences between the forecast values for each area of this Study and the forecast values of engineer in charge of each province, the presented figures differ from the values adjusted so as to avoid overloading as far as possible. Values which have been modified taking into account reallocation of load by inter-substation changeover operations of feeders, addition of substations, etc. are marked in the table with shade. The sent out energy of each year from each substation, which was calculated using the matrixes, is shown in Table 4.4.2-8.

(3) Load of Each Substation

The maximum load calculated using the sent out energy and annual load factor of each substation assumed in this clause is the annual maximum demand, and its time of occurrence does not always coincide with the time of system peak. As shown in Table 4.4.3-2, the sum of the annual maximum demand (the second from the right) is about 10% larger than the system peak demand. The result is shown in the right-end column of Table 4.4.3-4.

4.5 Generation Expansion Plans

Formerly, the generation expansion projects of Sri Lanka were financed mainly by soft loans from bilateral and multilateral funding institutions and partly from the Government and CEB funds. However, there are no more funds available abundantly to provide for the rapid expansion of the power sector. At



present only three projects, the Kukule hydropower (70 MW), Sapugaskanda diesel (40 MW) and Kelanitissa combined cycle (150 MW) are under execution utilizing official foreign fund. The Government therefore decided to seek for assistance of private investors to develop power projects by BOO and BOT schemes. Various proposals have been submitted to the Government for both thermal and hydro power projects. They include a coal thermal project, a combined cycle plant in the Colombo area, a diesel generation plant at Hambantota, the Broadland hydro power project, etc. At the present stage, only the 51 MW diesel plant of KHD at Sapugaskanda has been signed for execution.

It is not possible to anticipate far future regarding what type of private sector proposals will come out and what will be actually executed. The current problem for planning is that this trend makes the long term estimation of generation projects difficult.

4.5.1 Short Term Plans

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The total capacity of the existing generating facilities will not be sufficient to meet the demand of the country in 1996 and thereafter before commissioning of the planned major base-load coal thermal power plants. To meet such short-term necessity for increasing generating capability, CEB has plans to install diesel engine, gas turbine and combined cycle generators with relatively short delivery and construction periods in the Colombo area. The CEB plan up to the year 2000 comprises the following:

1)	Diesel engine génerators	131 MW
2)	Gas turbine generators	140 MW
3)	Combined cycle generators	2 x 150 MW

Among these projects, 40 MW (4 x 10 MW) diesel generators are under construction at Sapugaskanda utilizing the ADB loan with target commissioning in April, 1997. The second 40 MW diesel plan with the same specifications as the above ADB project is under negotiation to purchase from the same German contractor utilizing German loan. Installation plan of 51 MW diesel plant has been signed with KHD (Klöckner Humboldt Deutz AG) under the private enterprise of German-UK joint operation.

Construction of single unit 115 MW gas turbine plant at Kelanitissa is progressing with CEB's own fund and is expected to be commissioned in May, 1997.

Two sets of 150 MW combined cycle plant are planned to be installed. A loan from OECF of Japan has been agreed in June 1996 for the first plant at Kelanitissa with target completion of 100 MW gas turbine sets in 1998 and succeeding 50 MW steam turbine set in 1999. Generated power of this plant will be stepped up to 220 kV. The second 150 MW combined cycle plant will be located at Muthuragawella to the north of Kelanitissa. The site has already been arranged, however its financial arrangement has not yet been determined.

The existing refinery capacity at Sapugaskanda is adequate to provide residual fuel for about 290 MW of diesel plants to operate for base load. Naphtha, another by-product of the refinery, can also be used for firing gas turbines and is planned to be used for the 150 MW Kelanitissa combined cycle plant. This fuel has the advantage of less environmental impacts. Heavy diesel fuel will be fired for the second combined cycle plant.

4.5.2 Long Term Plans

(1) Hydro Power Development

Only the construction of the Kukule Hydroclectric Project (70 MW) is under execution as of 1996 utilizing the OECF loan from Japan and is planned to be commissioned by 2002.

The construction of the Upper Kotmale project (150 MW) was once committed for loan from OECF, Japan, but its execution has been suspended due to environmental concerns. This project will be revived if the environmental problems are settled.

Investigation of the Broadland project (40 MW) is in progress by a consortium of a foreign investor and a local firm.

The total capacity of economically promising hydro power projects available for development is estimated at approximately 400 MW and candidate projects are given below:

Promising Hydropower Projects

	Installed Capaçi	ty (MW)		Turbine	Ave. Annual
Plant Name	No. x Unit Cap.	Total	Period (yrs)	Туре	Energy (GWh)
Broadland	2 x 20	40	4	Francis	145
Uma Oya	2 x 75	150	5	Pelton	447
Ging Ganga	2 x 24.8	49.6	4	Francis	212
Belihuloya	2 x 8.5	17	4	Pelton	71
Moragolla	2 x 13.6	27.2	4	Francis	111
Upper Kotmale	2 x 150	300	5	Francis	530

Note: Feasibility study has been conducted for the Upper Kotmale and Broadland Projects, and pre-feasibility study for the Uma Oya Project. Detailed studies have not yet been performed for the other projects.

In addition to the above, there are several small hydropower projects currently under execution and investigation with private sector investment.

Further exploitation of hydropower resources is becoming increasingly difficult due to impacts on the environment and eco-system of the country.

(2) Thermal Power Development

Due to the tendency toward depletion of economical hydro development sites, CEB is obliged to consider the construction of thermal plants as base-load stations will become feasible after the base-load operation of these plants is economically justified.

Currently conceived thermal project sites are outlined below:

West coast site near Puttalam: Investigation of a site facing to the outside ocean near Puttalam has been carried out by a Japanese organization, Japan Consulting Institute (JCI). This site is considered to be suitable for development up to 900 MW of coal thermal plant. As sea is shallow, a 2 km long approaching bridge is required for the belt conveyer transportation of coal. Another alternative site in

the area is Mundal located to the south of Puttalam. This alternative site was recommended by a Swiss consultant.

Trincomalee site: A deep sea harbor suitable for coal unloading can be constructed at this site and it is estimated that the overall cost for plant construction is cheapest among the studied alternative coal thermal sites. Feasibility studies were conducted by a consultant of the USA. The final capacity of this site is considered to be at least 1,200 MW. The development activities of this site have been suspended due to the security situation prevailing in the area and environmental concern to atmospheric pollution. However, this site will be taken up again when the security problems are settled.

Southern coast site: A site suitable for coal thermal development has been identified at Mawella to the east of Matara.

Boossa site: This site is located about 7 km to the north-west of Galle and is considered as a suitable site for construction of a combined cycle plant up to 2 x 300 MW capacity.

Generation by Hambantota oil refinery: There is a plan to construct a diesel power plant of 300 MW capacity as an IPP scheme by an investor for an oil refinery project. Its particulars are uncertain.

<u>Jaffina site</u>: This area is far separated from the existing and planned major power stations. With the future growth of power demand in the northern area, construction of a thermal power station to meet the area demand will surely be required as the power transmission over too long distance will be inadequate. Type of the power station, coal or oil fired, diesel or gas turbine, etc., has not been studied yet.

35 MW gas turbines: To meet the requirement for peak generation, CEB has a plan to install a number of 35 MW gas turbine generators as required at selected local substation sites.

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At the present stage, the Puttalam site has been selected as the first site for the coal thermal development and a detailed design including review of the feasibility studies is planned to be commenced soon with the OECF fund from Japan.

The future sites for thermal power development are presumed to be selected from the above alternatives. The transmission system studies have to be carried out by allocating necessary output to these plants as agreed by CEB.

Due to the fact that the natural gas is free of polluting components such as sulfur, and in view of the high percentage of hydrogen content, and therefore produces the least amount of polluting gases for a given output, the Government is interested to utilize the natural gas for power generation by combined cycle or gas turbine plants. However, a lot of investment is required to arrange facilities to import and consume the natural gas. At the present stage, there is no concrete plan to use the natural gas. The Generation Planning branch of CEB has considered to use heavy diesel oil as fuel for the proposed combined cycle power plants

As Sri Lanka has no proven resources of fossil fuels, coal, oil or gas, or nuclear fuels, fuels for power generation must be imported from abroad.

(3) WASP Study by CEB

Based on the revised demand forecast to be used for the Study, CBB has recently revised their long-term generation expansion plan with the help of the WASP-III program and the results are presented in Fig. 4.5-1. This generation expansion plan is the basis of the transmission system planning of the Study.

4.6 Transmission System Extension Plans of CEB

The main objective of the transmission system is to connect power generating stations and demand centers with transmission lines to deliver necessary quantity of power of good quality with the minimum of supply interruption. As all the short-term power generation projects to be completed by 2000 are located in the Colombo area, in this period the transmission system in the Colombo area needs to be reinforced by converting the two existing 220 kV designed 132 kV lines to 220 kV operation and by extending and reinforcing the 132 kV system mainly. The construction of the Kotmale - Anuradhapura 220 kV line is also very important to strengthen the transmission system to the north.

At present, the 1995 - 97 transmission system extension plan as shown in Table 4.6-1 is in progress. Some of them have been completed by the middle of 1996. However, as of 1996 due to delay in financial arrangement there are projects, execution of which just have been commenced.

For the transmission system extension after 1997, a German consultant carried out a power system study in 1994 to identify system extension requirements to 2002 including the power transmission from the Trincomalee coal thermal power station, taking into account up to 600 MW development. The report concluded necessity of constructing two double circuit 220 kV lines, Trincomalee - Habarana - Kotugoda and Trincomalee - Kilinochchi, and some 132 kV system reinforcement. For construction after the above 1995 - 97 plan, financial arrangement has already been made for some priority projects as included in Table 4.6-1, and the other projects in the consultant's study and the CEB's extension plan are picked up as shown in Table 4.6-2. Among these, fund to priority projects has already been arranged.



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Table 4.2.1 - 1 Hisrotical Records of GDP, Genration and Sales Energy

Year	Population	GDP		Ω	Power Genaration	ration			Sales Energy	ergy	
		1982 Const	Rate		Rate	Elas-	Per Cap		Rate	Elas-	Per Cap
	(1000)	Rs.Mn	(%)	(GWh)	(%)	ticity	(kWh)	(GWh)	(%)	ticity	(kWh)
1982	15,060	94,679		2,065.7			137.2	1,686.0			112.0
1983	15,276	99,375	4.96	2,114.4	2.36	0.48	138.4	1,792.0	6.29	1.27	117.3
1984	15,496	104,395	5.05	2,260.7	6.92	1.37	145.9	1,877.0	4.74	0.94	121.1
1985	15,718	109,570	4.96	2,464.0	8.99	1.81	156.8	2,061.0	08.6	1.98	131.1
1986	15,944	114,261	4.28	2,651.8	7.62	1.78	166.3	2,232.0	8.30	1.94	140.0
1987	16,173	115,922	1.45	2,707.5	2.10	44.	167.4	2,253.0	0.94	0.65	139.3
1988	16,405	119,050	2.70	2,798.7	3.37	1.25	170.6	2,371.0	5.24	1.94	144.5
1989	16,641	121,766	2.28	2,858.1	2.12	0.93	171.8	2,447.0	3.21	1.41	147.0
1990	16,880	129,303	6.19	3,149.7	10.20	1.65	186.6	2,608.0	6.58	1.06	154.5
1991	17,122	135,255	4.60	3,376.6	7.20	1.56	197.2	2,742.0	5.14	1.12	160.1
1992	17,368	141,041	4.28	3,539.9	4.84	1.13	203.8	2,916.0	6.35	1.48	167.9
1993	17,617	150,856	96.9	3,978.6	12.39	1.78	225.8	3,270.0	12.14	1.74	185.6
1994	17,870	159,327	5.62	4,386.8	10.26	1.83	245.5	3,564.8	9.05	1.61	199.5
Average	1.436%		4.08%		2.96%	1.46			5.93%	1.45	

Population of each year is calculated by averaged annual increased rate worked out from 14,846,800 of 1981 census and 18,127,000 of 1995 estimated by government. (E)

Table 4.3.1 - 1 CEB's Power and Energy Demand Forecast 1994 - 2014 (1994)

<u></u>	T				т-		٠												-							
Perset	3	Case		(GWh)	3.167	3,484	3.834	4,219	4,562	4,935	5,331	5.754	6.209	6.685	7,197	7,742	8,323	8.943	9.604	10,307	11,058	11,857	12,709	13,617	14,586	15.625
Suggested Forecast	High	Case	-	(GWh)	3,373	3.711	4.084	4,494	4.860	5,257	5.680	6,130	6,615	7,122	7,667	8,248	8,867	9.527	10,231	10,980	11,780	12,631	13,539	14,507	15,539	16,645
Supply	Base	Case	-	(GWh)	3.270	3,597	3,959	4.356	4.711	5.096	5,505	5.942	6,412	6,903	7,432	7,995	8,595	9,235	9.917	10,643	11,419	12,244	13,124	14,062	15,063	16,135
pai	etric	Sis	Model E2	GWh)	3,270	3,603	3,971	4,377	4,821	5,211	5.628	6.071	6,547	7,044	7,576	8.141	8,744	9,383	0,065	0,789	11,559	12,378	13,249	4,175	15,161	6,213
Adjusted	Econometric	Analysis	Model E1	(GWh)	3,270	3,597	3,959	4,356	4,791	5,176	5,585	6.022	6,492	6,983	7.512	8,075	8.675	9.315	766.6	0.723	1,499	2,324	3,204	4.142	5,143	6,215
etric	Sis	Model E2	<u> </u>	GWh)	╀╴	3.543		4.157					6.247								1,259	2,078	2,949	3,875	4.861	5,913
Econometric	Analysis	Model El		GWb)	3,270	3.537	3,819	4.136	4,491	4.876	5,285	5.722	6,192	6,683	7,212	7.775	8,375				1.199	2,024	2.904	3,842	4.843	5.915
Time	Trend	تبا	(Sales)	(GWh)	3,270	3,492	3,727	3.977	4,248	4.534	4.841	5.168	5.517	5.890	6,288	6,713	7,167	7,651	8.199	8,720	9,310	9.938	0,610	1,327	2,092	2,910
Proof	Factor	Щ	_	(%)		55.9	56.1	56.3	56.5	56.7	56.9	57.1	57.3	57.5	57.9	58.0	28.0	58.0	58.0		58.0	28.0	58.0	58.0	58.0	58.0
System				(%)	<u> </u>	17.8	17.2	9.91	15.4	14.8	14.2	13.6	13.0	12.4	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
		Peak	Demand	(MW)		877	937	1,00,1	1,070	1,143	1,222	1.306	1,396	1,492	1,594	1.692	1,808	1,934	2,070	2,215	2,370	2.535	2.713	2,903	3,106	3,323
	Low Forecast	Required	Energy	(GWh)		4,296	4,606	4,939	5.296	5.679	6,090	6.532	7,005	7,514	8,059	8,584	9.185	9.828	10,516	11,252	12.039	12,882	13,784	14,749	15.781	16,886
	,or	Encrgy 1	Sales	(GWh)	3,270	3,532	3,814	4.119	4.449	4,805	5.189	5.604	6,053	6.537	7,060	7.554	8,083	8,648	9.254	9.902	10,595	11,336	12,130	12.979	13,887	14.860
orecast	it i	Peak	Demand	(MW)		910	3,00	1.117	1,238	1,371	1,520	1.684	1.867	2,069	2,294	2,526	2,799	3,107	3,448	3.828	4,249	4.716	5,235	5,811	6.450	7.159
Authrized CEB's Forecast	High Forecasi	Energy Required	Energy Deman	(GWb)		4.455	4,954	5,509	6,125	6.812	7,576	8,425	9.371	10,423	11,594	12,811	14,220	15,784	17,520	19,447	21.587	23.961	26,597	29,822	32,770	36,375
Authrize	His	Energy	Sales	(GWh)	3.270	3.662	4,102	4.594	5,145	5,763	6,454	7,229	8.096	890.6	10,156	11,273	12,513	13,890	15,418	17,114	18,996	21.086	23,405	25.980	28.838	32,010
	St.	Peak	Demand	(MW)		894	972	1.058	1.152	1.252	1,364	1,485	1,616	1.760	1.916	2,071	2.254	2,457	2.678	2,919	3,181	3.468	3,780	4,120	4.491	4.895
	Base Forecast	Energy Required		(GWh)		4.376	4.779	5.219	5.700	6,225	6.799	7,427	8,113	8.863	9.682	10,506	11.451	12,482	13,605	14,829	16,164	17.619	19,205	20,933	22,817	24.870
	Ba	Energy	Sales	(GWh)	3.270	3,597	3,957	4,352	4,788	5,266	5,793	6,372	7.010	7,710	8,482	9,245	10,077	10.984	11.972	13,050	14,224	15.505	906.9	18,421		21,886
	Year				1993	1984	1995	966	1997	866	8	 500 500 500	 500 500	2002	2003		2005	2006	2007	2008	5000	2010	2011	2012	2013	2014

Authorized Forecast Ξ (a) Base: Growth rate - first 10 years 10%, next 10 years 9% and used for Financial Planning and Budgetary Proposes

(b) High: Growth rate - first 10 years 12%, next 10 years 11% and used for Generation Expansion Planning

(c) Base: Growth rate - first 10 years 8%, next 10 years 7%

Percent system losses and load factor were commonly applied to all study cases,

Time trend forecast: Ln(Et) = 6.5564E-02 " t - 122.558 (Et=Sales energy at year t) R-2=0.9778, DW=0.5258, SE of regression=5.159E-02 ପ ତ ହ ହ

Model E1: Et = 1.03787E-02 * GDPt+1 + 7.86161E-03 * GDPt-1 + 0.22631 * Ct - 1432.31 (Ct=GDP per capita) R^2=0.9950, DW=2.0255, SE of regression=51.690

Model E2: Et = 9.67108E-03 * GDPt+1 + 0.27518 * Ct 0.24254 * Et-1+ 1336.53 (Ct≈GDP per capita) R*2±0.9952, DW≠2.1757, SE of regression=50.795

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Table 4.3.2 - 1 National Demand Forecast of CEB's System for the Master Plan Study

	Grate Gene.			9.1	8.1	 		8.1	7.8	7.3	7.0	7.3	7.8	8.0	8.0	8.0	8.0	8.0	0.8 	8.0	8.0	8.0	8.0	8.0
	G.rate Sale			9.0	0.6	9.0	0.6	9.0	0:6	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8:0	8.0	8.0	8.0	8.0	80
			016	786	1,051	1.130	1,211	1,304	1.402	1,498	1.598	1,708	1,834	1.977	2,135	2,306	2,490	2.690	2,905	3,137	3.388	3,659	3,952	4.268
Case	Load Fact. D		74.7	55.1	55.9	56.2	56.7	56.9	57.1	57.3	57.5	57.7	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
(c) Low Case	Sys. Energy Load Max. Loss Product. Fact. Demand	4	205.4	4,762	5,147	5,563	6,013		7,011	7,520	8,047	8,631	9,300	10,044	10,848	11,716	12,653	13,665	14,759	15,939	17,214	18,592	20.079	21.685
9	Sys. E			17.9	17.2	16.5	5.8	15.1	4.2	3.6	12.8	2.2	12.0	12.0	12.0	12.0	12.0	12.0	2.0	12.0	12.0	12.0	12.0	12.0
	Energy Sales L	-}	7.26.5 1	3,910	4,262 1	4,645	5,063	5,519	6,016	6,497	7,017	7,578	<u> </u>	8,839	9,546	10.310	11,135	12,026	12,988	14,027	15.149 1	16,361	17,669	19,083
	L	1																						
	Year	3	4	1995	1996	1997	1988	1999	2000	<u>8</u>	2002	2003	2002	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
:	Gene.			11.1	10.1	10.1	10.1	10.1	8.6	9.2	0.6	9.2	9.7	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	G.rate	ļ		11.0	11.0	11.0	11.0	11.0	11.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
	Max. Comand		5 5	1,005	1,090	1,193	1,302	1,428	1,563	1,702	1.848	2,012	2,201	2,417	2,658	2,924	3,217	3,538	3.892	4,281	4,709	5.180	5,698	6,268
High Case	Load Fact. D	-+	¥ 	55.1	55.9	56.2	56.7	56.9	57.1	57.3	57.5	57.7	57.9	58.0	58.0	58.0	58.0	28.0	58.0	58.0	58.0	58.0	58.0	58.0
High	Energy Load Max. Product, Fact, Demand		4 4 4	4.850	5,338	5.875		7,119	7,820	8,542	9,310	10,171	11.162	12,279	3,506	14,857	16,343	17.977	19,775	21.752	23.928	26,320	28.952	31,848
(9)	Sys. E. Loss P.		Σ.δ.	6.71	17.2	16.5	15.8	5.1	14.2	13.6	12.8	12.2	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
	Energy Sales L		3,387	3,982 [1	4,420	4,906	5,445 1	6,044	6,709	7,380 1	8,118	8,930 1	9,823 1	10,805	11,886	13,074 1	14,382 1	5,820	17,402	19,142	21,056 1	23.162	25,478	28,026
	Year En				1996 4		1998 5		2000		2002 8		2004 9	S		2007	2008 14	_	2010 17		7	m	4	ᇄ
	<u> </u>		<u> </u>	- 2	-19	6.	6	62	8	8	<u>ጸ</u>	8	<u>잃</u>	500	2	8	<u>8</u>	200	8	201	201	201	201	[<u>2</u>
	G.rzte G.rate Sale Gene.			10.1	9.1	9.1	9.1	9.1	9.1	80.00	8.2	8.0	8.3	8.8	0.6	0.6	0.6	0.6	0.6	9.0	0.6	9.0	0.6	9.0
	G.rzte Sale			10.0	10.0	10.0	10.0	10.0	10.0	0.6	9.0	9.0	0.6	9.0	0.6	9.0	9.0	9.0	0.6	9.0	0.6	0.6	9.0	0.6
	Max. Demand		016	966	1,071	1,161	1,256	1.365	1,481	1.597	1,719	1,854	2,010	2,187	2,384	2,598	2,832	3,087	3,365	3,668	3,998	4,358	4,750	5.177
Case	Load Fact.		7.4.	55.1	55.9	56.2	56.7	56.9	57.1	57.3	57.5	57.7	57.9	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
(a) Base Case	Sys. Energy Load Max. Loss Product. Fact. Demand		4,304	4,806	5,242	5.718	6,238	6.805	7,407	8,017	8,659	9,373	10,194	11,111	12,111	13,201	14,389	15,684	17,096	18,635	20,312	22.140	24,132	26.304
	Sys.		 5.8	17.9	17.2	16.5	15.8	15.1	14.2	13.6	12.8	12.2	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
	Energy Sales 1	 	/85.5	3,946	4,341	4,775	5.252	5.777	6,355	6.927	7.550	8.230	8,971	9.778	10,658	11,617	12,663	13,802	15.044	16,398	17,874	19,483	21.236	23.148
	Year		<u>\$</u>	1995	9661	1997	1998	1999	2000	2001		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015

Source: CEB's Load Forecasting & Tariffs Branch, 1996-1-22

Remark: The above demand forecast has been modified for the Master Plan Study for Development of the Transmission System on 1st January of 1996 by CEB.

Table 4.3.3 - 1 CEB's Energy Demand Forecast by Area (1995 - 2009)

18	ible 4.3.3 - 1 (_rd's	Ener	rgy D	eman	a For	ecast	by A	rea ()	1995 -	2005	')					nicGWh
	Sales Energy (GWh		1000	1000		Inne					T		4007	T	5000		
	Provinces/Area) Year's S Energy		1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
	NORTH CENTRAL	88.7	98.8	114.8	130.8	146.9	167.1	191.0	214.1	238.8	266.4	296.9	330.7	368.5	410.2	456.5	507.9
	1) Anuradhapura	53.8	59.9	69.6	19.3	89.1	101.3	115.8	129.8	144.8	161.5	180.0	200.5	223.4	248.7	276.8	307.9
-	2) Minneriya	34.9	38.9	45.2	51.5	57.8	65.8	75.2	84.3	94.0	104.9	1169	130.2	145.1	161.5	179.7	200.0
11.	NORTHERN	69.8	77.3	89.7	102.1	132.1	150 2	171.7	192.4	214.7	239.4	266.8	297.3	331.2	368.7	410.3	456.4
	3) Julina	60.0	64.3	74.6	84.9	112.7	128.2	146.5	164.2	183.2	204.3	221.7	253.7	282.6	314.6	350.1	389.5
	4) Kilinochchi	9.8	13.0	15.1	17.2	19.4	22.0	25.2	28.2	33.5	35.1	39.1	43.6	48.6	54.1	60.2	66.9
111	CENTRAL	263.8	291.9	331.2	375.0	415.1	465.3	523.6	578.4	635.5	698.1	766.6	841.3	923.3	1,012.7	1,110.4	1,217.2
	5) Nortonbridge			1						i			1	† -	†	<u> </u>	
	6) Kandy	99.8	110.1	125.6	140.5	155.0	173.2	194.3	213.9	234.2	256.5	280.7	307.0	335.8	367.1	401.3	438.2
l	7) Nuwara Eliya	73.5	81.1	92.5	103.5	114.2	127.6	143.1	157.6	172.6	188.9	206.8	226.2	247.4	270.4	295.5	3228
	8) Matale	41.8	46.5	53.6	60.5	67.4	76.0	85.0	95.6	105.6	116.7	128.9	142.3	157,1	173.3	191.1	210.7
	9) Kundasate	48.7	54.2	62.5	70.5	78.5	88.5	100.2	111.3	123.1	136.0	150.2	165.8	183.0	201.9	222.7	245.5
IV.	NORTH WESTERN	265.4	293.6	336.9	378.7	420.0	471.7	531.9	588.5	647.8	713.1	784.6	862.6	948.5	952.4	1345.2	1257.5
	10) Kurunegala	56.1	62.4	71.9	81.1	90.3	101.9	115.3	128.1	141.6	156.5	172.9	190.8	210.6	232.4	256.3	282.5
1	11) Жепларрима	47.6	52.4	60.3	67.9	75.5	85.0	96.0	106.5	117.5	129.6	142.9	157.4	173.5	191.0	210.3	231.4
l	12) Chilaw	109.7	120.9	138.0	154.4	170.3	190.3	213.5	235.0	257.3	283.8	308.4	337.3	368.9	403.3	440.7	431.4
L.	(3) Kuliyapitiya	52.0	57.9	66.7	75.3	83.9	94.5	107.1	118.9	131.4	145.2	160.4	377.1	195.5	125.7	237.9	262.2
٧.	WESTERN-NORTH	751.1	821.9	932.0	1036.1	1136.5	1262.6	1408.7	1542.7	1680.8	1831.3	1991.9	2172.4	2365.4	2575.0	2803.0	305().4
	(4) Gampaha	61.7	68.1	77.7	86.9	95.9	107.1	120,2	132.3	144,9	158.6	173.6	189.9	207.7	227.0	248.1	271.0
	15) Veyangoda	51.9	57.8	67.1	76.5	85.9	97.8	111.7	125.3	139.7	155.8	173.7	193.5	215.5	239.9	267.1	297.1
	16) Negombo	193.6	213.5	245.4	276.5	307.3	345.9	390.9	433.5	478.2	527.5	581.6	640.9	706.0	777.5	855.9	941.9
	13) Kelaniya	323.2	353.1	398.5	440.7	480.9	531.3	589.4	641.7	694.9	752.4	814.3	880.9	952.6	1029.8	11129	1202.2
	18) Ja-Ela	120.7	129.4	143.3	155.5	166.5	180.5	196.5	209.9	223.1	237.0	251.7	267.2	283.6	300.8	319.0	338.2
VI.	EASTERN	90.4	100.6	117.0	133.3	149.8	170.4	194.8	218.3	243.5	271.6	302 7	337.2	375.7	418.3	465.5	517.8
	19) Trincomatee	67.9	15.6	87.9	100.1	312.5	128.0	146.3	164.0	182.9	204.0	227.4	253.3	282.2	314.2	349.7	389.D
	20) Ampura	22.5	25.0	29.1	33.2	37.3	42.4	48.5	54.3	60.6	67.6	75.3	83.9	93.5	104.1	115.8	128.8
	21) Batticaloa																
	22) Kalmunai																
VH.	WESTERN SOUTH	782.1	849,5	954.7	1051.5	31431	1258.3	1391.4	1510.0	1630.7	1761.0	1901.1	2052.1	2214.9	2390.1	2579.0	2782.3
	23) Ratmalana	287.2	307.9	341.7	371.5	398.6	432.9	472.3	505.4	538.2	572.9	609.6	648.4	689.4	732.7	778.5	826.R
ļ	24) Homegama	51.5	57.3	65.9	74.2	82.5	92.8	104.9	116.3	128.3	141.6	156.1	172.0	189.5	208.7	229.7	252.8
	25) Sri Jaya pura	264.6	289.1	326.9	362.2	395.9	438 2	487.1	531.3	\$76.4	625.3	678.0	734.8	796.2	862 3	933.6	1010,4
	26) Kalutara	29.1	32.4	37.3	420	46.7	52.6	59.4	65.9	72.7	80.2	88.4	97.4	107.3	118.2	130.1	143.1
	27) Dehiwała	77.1	81.9	90,0	96.9	103.0	110.8	119.7	126.9	133.9	141.2	148.8	156.7	165.1	173.8	182.9	192.4
	28) Awissawelle	35.0	39.0	44.8	50.5	56.1	63.2	11,4	79.2	87.4	96.4	106.2	137.3	129.0	142 0	156.4	172.1
L	29) Horana	37.6	41.9	48.1	54.2	60.3	67.8	76.6	\$5.0	93.8	103,4	114.0	125.7	138.4	152.4	167.8	184.7
VIII.	SOUTHERN	261.8	290,4	336.0	381.1	426.5	483.3	549.8	613.9	682 0	757.3	840.7	933.0	1010.0	1147.8	1272.6	1410.5
	30) Galle	8,501	118.9	138.2	157.4	176.9	201.3	230.0	257.8	287.6	320.7	357.4	398 2	443.5	493.8	549.6	611.5
	31) Amhalangoda	41.4	45.4	51.8	57.9	63.9	71.4	80.1	88.2	96.6	105.7	115.7	326.6	113.4	151.3	165.3	180.6
	32) Hambantota	32.1	35.7	46,4	47.1	52.8	60.0	68.4	76.6	85.2	94,9	105.6	117.4	130.5	345.0	161.1	178.9
	33) Matara	43.8	48.8	56.7	64.6	72.6	82.6	94.4	105.8	118.1	131.6	146.7	163.5	182.1	202.7	225.6	251.0
<u></u>	34) Weligama	37.7	41.6	47.9	54.1	60.3	68.0	76.9	85.5	94.5	104.4	115.3	127.3	140.5	155.0	171.0	188.5
IX	UVA	85.9	95.7	111.2	126.9	1429	1629	186.6	209.8	234.7	262.6	293.8	328.6	367.5	411.1	459.8	514 2
	35) Badulla	45.L	50.7	59.9	69.5	79.5	92.1	107.2	122.4	139.0	157.8	179.1	203.1	230.3	261.1	295.9	335.1
	36) Diyatalawa	40.8	45.0	31.3	57.4	63.4	70.8	79.4	87.4	95.7	104.8	114.7	125.5	137.2	150.0	163.9	179.1
X.	SABARAGAMUWA	1(4.1	126,9	145.9	(64.4	E82 8	205.7	232.4	257.8	284.4	313.7	345.8	381.1	419.9	462.4	509.0	560.1
	37) Kegalle																
	38) BalangoJa/Ratnapura	47.4	52.7	60.6	68.3	75.9	85.4	96.5	107.1	118.1	130.3	143.6	158.3	174.4	192.0	211.4	232.6
	39) Kahawatta	66.7	74.2	65.3	96.1	106.9	120.3	135.9	150.7	166.3	183.4	202.2	222.8	245.5	270.4	297.6	327.5
ΧL	40) COLOMBO CITY	627.1	666.0	731.9	788.3	837.6	901.2	973.7	1032.2	1088.6	1147.9	12098	1274.5	1342.2	1413.0	1487.1	1564.3
	TOTAL	3400.2	37126	4204.3	4668.2	5133.3	5698.7	6355.6	6958.1	7581.5	8262.4	9003.7	9810.8	10667.1	11561.7	12698.4	13838.6









	6 4.5.5 · 2 · CE						3, 01	···			· 		<u> </u>		(Un	it.GWh)
D	Year Grid				1000		3000	2021	-		200.2		2/24	2012		1000
rovinc es	Substitutions	1995	1996	1997	1998	1999	2000	2001	2002	2003	50074	2005	2006	2007	2008	20(2)
ienh	(1) Anuradhapura	88.4	76.9	87.6	68.1	77.5	96.1	133.7	163.6	182.5	203.4	226.6	252.4	281.0	3127	347,9
cotral.	(2) Habarana	53.9	62.8	71.3	8,401	118.9	131.6	129.8	129.6	143.8	159.5	176.8	196.0	217.2	240.5	266.3
Nothern	(3) Chunnakam	.0	74.6	84.9	1127	128.2	146.5	164.2	183.2	204.3	227.7	253.7	282 6	314.6	350.1	389.5
	(4) Kilinochchi	.0	14.4	16.4	19.4	22.0	25.2	28.2	38.5	35.1	39.1	43.6	48.6	54.1	602	66.9
Сепеза	(S) Kiribathkambura	140.6	163.5	181.0	176.0	197.6	210.5	232.2	261.0	286.5	314.3	344.6	317.8	414.0	453.6	196.7
	(6) Likuwcia	91.2	121.7	136.B	145.3	162.9	170.8	t69.9	180,8	198.8	218.5	240.1	263.8	289.7	318.0	348.9
	(7) Rantembe	17.7	21.0	24.3	27.8	32.3	37.5	42.8	48.6	55.2	62.7	71.1	80.6	91,4	103.6	117.3
	(8) Nuwara Eliya	52.7	67.9	75.9	98.3	109.8	123.2	131.3	139.0	152.2	166.6	182.2	199.2	217.8	238.0	260.0
	(9) Wimalasurondra	79.7	91.0	101.7	124.9	139.6	156.6	172.4	188.8	206.7	226.2	247.4	270.6	295.8	323.3	353.1
North	(10) Kurunegala	105.9	1043	117.7	131.1	147.8	180.3	214.6	237.2	262.1	289.5	319.7	352.8	389.2	429.3	473.3
Western	(11) Puttalam	72.6	65.7	73.5	81.2	85.0	101.8	112.2	122.9	134.6	147,4	161.3	176.5	193.1	211.1	230.7
	(12) Bolawatta	195.2	132.9	149.9	[62.0	167.8	201.8	223.7	270.7	298.5	329.1	362.6	349.5	439.9	484.2	532.8
	(13) Chilaw	.0	115.3	129.3	143.2	166.1	180.5	199.4	219.0	240.6	264.1	289.8	318.0	348.7	382 3	419.0
Weskins-	(14) Ketugoda	294.5	334.9	373.2	256.0	286.8	296.9	322.3	330.7	363.8	400.2	439.9	485.5	531.3	583.6	640.9
North	(15) Sapogaskanda	331.0	373.0	411.8	440.3	463.9	460.5	393.8	361.3	389.4	419.6	451.9	486.7	523.9	563.8	606.6
	(16) Biyagama	234.4	264.6	292 8	275.8	304.8	314.0	283.2	306.B	332 2	359.6	389.1	420.9	455.0	491.8	531.4
	(17) Veyangoda	.0	Ω	.0	76.7	135.2	153.4	177.0	196.1	217.2	240.5	266.2	294.5	325.8	360.3	398.3
	(LR) Aniyakanda	.0	.0	.0.	98.6	102.6	124.5	166.8	214.6	231.5	249.7	269.3	290.3	312.8	337.1	363.1
Eastern	(19) Trincomake	60.5	70.3	80.1	95.6	108.8	124.4	139.4	155.5	173.4	193.3	215.3	239.8	267.0	297.2	330.7
	(20) loginiyagala	75.1	84.5	.0	.0	.0.	.0.	.0	.0	.0	.0	.0	.0	.0	o.	0,
	(21) Valaichehenai	.0	13.5	20.5	28.4	32.1	36.4	40.5	44.9	49.7	55.0	60.8	67.3	74.4	82.3	91.0
	(22) Ampara		.0	90.6	101.5	96.7	106.2	214.3	126.8	140.6	155.9	172.8	191.4	212.1	234.9	260.2
Western-	(23) Ratmatuna	189.3	207.8	225.3	241.2	217.5	272.1	278.1	289.2	307.6	327.1	347.7	369.5	392.4	416.7	442.3
South	(24) Pannipitiya	260.6	255.1	281.1	246.3	293.1	298.9	350.0	283.9	305.5	328.6	353.5	380.3	409.1	440.1	473,4
34-247	(25) O.D.S S(Kolonnawa)	301.7	332.6	359.4	416.4	449.7	487.7	519.0	549.5	581.8	615.7	651.3	688.9	728.4	769.9	813.6
	(26) Matugama	172.7	174.4	193.6	183.7	205.4	181.1	198.7	216.8	236.6	258.1	281.5	307.0	334.8	365.0	397.9
		81.4	96.7	108.8	126.8	142.5	153.8	133.0	137.7	151.6	166.8	183.4	201.6	221.5	243.3	267.2
	(27) Avissawella		56.8	62.0	107.1	117.4	129.3	139.8	150.3	161.6	173.8	186.8	200.9	215.9	232.1	249.4
	(28) Panadura		30.0			117	*****									
	(29) Sithawaka				30.3	109.6	170.5	212.5	288.2	312.6	339.0	367.4	398.1	431.1	466.8	505.2
	(30) Athorogidya	.0		.0	79.2			184.8	270.7	292.5	315.8	340,9	368.D	397.0	428.3	461.9
	(31) Sri Jaya'pura	.0.	.0	.0	.0	.0	85.0	280.2	311.8	346.9	385.8	428,9	476.7	529.6	588.3	653.1
Southern	(31) Galle	145.6	161.8	159.9	184.9	199.6	239.0			101.9	1126	124.5	137.5	151.8	167.6	184.9
	(32) Deniyaya	96.7	118.9	90.7	90.0	93.0	86.4	83.3	92.1		254.3	282.4	313.6	348.0	386.1	428.2
	(33) Matara	.0		77.3	103.0	138.8	165.8	185.3	205.9	228.9	234.3	202.4	313.0	343.17	Jeec 1	
	(34) New Galle											2116	****	2/64	205.6	328.7
Uva	(35) Badulla	60.2	61.6	69.7	74.5	102.7	197.1	135.5	155.6	173.2	192.8	214.5	238.7	265.5	295.5	
Sahuraga	(36) Balangoda	76.4	87.9	94.4	104.9	118.2	184.3	113.3	138.2	152.6	168.3	185.6	204.6	225.4	248.3	213.4
muwa	(37) Thulhiriya	143.4	157.3	176.7	187.3	175.9	182.3	200.8	220.2	241.6	264.8	290.2	318.0	348.3	381.3	417.3
	(38) Embilipitiya	60.8	70.3	74,9	73.0	82.7	94.0	104.9	87.3	97.1	107.9	119.9	133.2	147.9	164.2	182.2
	(39) Ratnagura	.0	.0	.0	.0,	.0	31.3	85.4	120.7	133.1	146,8	161.7	178.2	196.2	216.0	237.7
Coffen	(40) Kelanitissa(KTS)	199.8	219.6	236.5	251.3	270.4	292.1	309.7	326.6	344.4	362.9	382.3	402.7	423.9	446.1	469.3
ho	(41) Sub-E(Kollipitiya)		 							 						
	(42) Sub-F(Fori)	L			ļ				<u> </u>		ļ		L			<u> </u>
	Total	3682.0	4251.6	4729.6	5075.1	5802.3	6165.2	6973.0	7538.3	8468.2	9243,0	10087.3	10694.3	11560.6	12897.5	13891.3

Table 4.3.3 - 3 CEB's Power Demand Forecast of Grid Substation (1994 - 2009)

	Year		1	1		T	7		1			T	,		<u>, (U</u>	nit:MW
Provin		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
North	(I) Anuradhapera	28.7	24.2	25.6	18.7	20.5	24,4	32.6	39.1	41.9	47.4	52.7	58.7	65.3	72.7	80.9
Central	(2) Habarana	15.3	17.5	19.5	27.6	30.6	33.1	31.9	31.2	33.3	37.2	41.1	45.6	50.5	55.9	61.9
Nothern	(3) Chunnakam	.0	21.7	24.2	28.3	31.5	35.2	38.7	42.2	45.4	53.0	59.0	65.7	73.2	83.4	90.6
	(4) Kilinochchi	.0	4.6	4.9	5.5	5.9	6.6	7.1	7.6	8.1	9.1	10.1	11.3	12.6	14.0	15.6
Cenual	(5) Kiribathkumbura	37.5	420	45.5	41.5	41.4	45.7	48.3	53.3	56.7	73.2	80.I	87.9	96.3	105.5	115.5
	(6) Ukuwela	25.6	33.6	37.1	37.8	41.5	42.6	41.4	43.1	45.7	50.9	55.8	61.3	67.4	73.9	81.1
	(7) Rantembe	4.7	5.4	6.1	6.7	7.6	8.6	9.6	10.7	11,7	14.6	16.5	18.7	21.2	24.1	27.3
	(8) Nuwara Etiya	15.6	19.9	21.7	27.0	29.4	32.2	30.9	320	33.8	38.8	42.4	46.3	50.6	55.3	60.5
	(9) Wimalasurendra	20.1	226	24.9	29.5	32.2	35.7	38.6	41.4	43.8	52.7	57.5	62.9	68.8	75.2	82.1
North	(10) Kurunegala	26.0	25.6	28.8	32.0	36.0	43.9	52.1	57.5	63.4	69.7	77.0	85.0	93.7	103.4	114.0
Western	(11) Puttafam	19.0	16.8	18.3	19.3	19.6	22.9	24.3	25.7	26.8	34.3	37.5	41.1	44.9	49.1	53.7
	(12) Bolawatta	46.5	31.5	35.3	38.0	39.1	47.0	52.1	63.1	69.5	76.7	84.3	92.9	102.3	112.6	123,9
	(13) Chilaw	.0	27.5	30.3	32.9	37.6	40.2	43.2	46.5	48.6	51.7	55.1	60.4	66.2	72.6	79.6
Western-	(14) Kotugoda	77.0	86.2	94.6	62.0	66.8	66.6	69.8	69.2	72.5	79.5	87.3	95.9	105.4	115.8	127.1
North	(15) Sapugaskanda	63.8	71.9	77.1	82.5	86.9	86.1	73.5	67.2	72.2	77.8	83.5	89.9	96.8	104.2	112.1
	(16) Biyagama	47.1	53.2	58.8	55.4	61.3	63.1	58.8	64.6	71.1	78.2	86.0	93.1	100.6	108.7	117.5
	(17) Veyangoda	.0	.0	.0	20.0	33.8	36.9	40.9	43.7	46.0	56.0	61.9	68.5	75.8	83.8	92.6
	(18) Aniyakanda	.0	.0	.0	23.9	23.9	27.9	36.1	41,9	46.1	49.6	53.4	57.6	62.0	66.9	72.0
Eastern	(19) Trincomalee	15.5	17.6	19,6	22.6	24.9	27.7	30.2	33.0	35.6	45.0	50.1	55.8	62.1	69.1	76.9
	(20) Inginiyagala	19.6	21.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	(21) Valaichchenai	.0	3.6	5.2	6.8	7.5	8.4	9.1	9.9	10.6	12.8	14.1	15.7	17.3	19.1	21.2
	(22) Ampara	.0	.0	23.0	24.6	22.7	24.0	25.2	26.9	28.6	36.3	40.2	44.5	49.3	54.6	60.5
Western-	(23) Ratmalana	49.5	51.5	55.1	56.9	49.8	60.5	60.2	60.9	61.7	76.2	80.9	85.9	91.3	96.9	102.8
South	(24) Pannipitiya	59.0	57.4	63.5	55.6	66.0	68.3	79.6	61.4	68.8	76.5	80.8	85.9	93.5	100.6	108.2
	(25) O D.S.S(Kolonnawa)	54.3	59.8	64.6	74.9	82.0	90.1	97.2	104.4	112.1	118.6	125.5	132.7	140.3	148.3	156.8
	(26) Mategama	47.2	47.4	520	47.9	52.1	41.7	48.0	51.3	53.9	60.1	65.5	71.4	77.9	84.9	92.5
	(27) Avissawella	23.5	27.8	30.4	33.7	36.3	37.6	31.9	32.3	34.2	38.8	42.6	46.9	51.5	56.6	62.1
	(28) Panadura	.0	14.6	15.3	25.0	26.9	29.0	30.8	32.4	33.7	40.5	43.4	46.7	50.2	54.0	58.0
	(29) Athurogiriya	.0	.0	.0	18.7	25.1	37.9	46.0	60.3	623	71.6	84.0	91.0	98.6	106.7	115.5
	(30) Sri Jaya'pura	.0	.0	.0	.0	0	18.9	40.0	56.6	58.3	723	77.9	84.1	90.8	97.9	105.6
Southern	(30) Gatle	44.5	48.6	42.1	47.3	50.0	59.6	67.4	74.4	81.9	90.5	99.7	110.9	123.2	136.8	151.9
	(31) Deniyaya	22.5	27.5	20.9	20.6	21.3	19.5	19.1	21.2	23.6	26.1	28.9	32.0	35.3	39.0	43.0
:	(32) Maiara	.0	.0	18.7	24.9	33.4	39.7	44.1	48.8	54.1	59.8	65.7	72.9	80.9	89.8	99.6
Uva	(33) Badulla	17.4	17.5	19.7	20.4	27.5	28.2	31.9	35.9	38.5	44.9	49.9	55.5	61.7	68.7	76.4
Saharaga	 	19.4	22.0	23.5	25.2	27.8	26.3	25.6	30.6	32.6	39.2	43.2	47.6	52.4	57.7	63.6
muwa	(35) Thelbiriya	41.5	45.2	48.4	43.9	44.0	43.8	46.4	49.1			67.5	73.9	81.0	88.7	97.0
	(36) Embilipitiya	15.3	17.3	18.0	16.8	18.5				51.1	61.7			34.4		
		~-·					20.4	22.4	18.3	19.6	25.1	27.9	31.0		38.2	42.4
Collors	(37) Ratnapura	.0	.0	.0	.0	.0	7.2	19.3	26.7	28.4	34.2	37.6	41.4	45.6	50.2	55.3
1	(38) Kelanitissa(KTS)	41.5	45.6	49.1	52.1	56.1	60.6	64.3	67.8	71.5	75.3	79.3	83.6	88.0	92.6	97.4
bo	(39) Sub-E(Kollipitiya)															
	(40) Sub-F(Fort)	000	1030			1335					2000		2153 5	2453.5	2007	
	Total	897.6	1029.1	1121.8	1211.5	1320.5	1451.1	1568.6	1688.2	1797.7	2061.9	2245.9	2453.2	2678.9	2925.5	3194.7







(Unit:GWh) Sales Energy 1992 1993 1001 1986 1987 1988 1989 1990 1991 1985 (GWh) Provinces/Area 57.53 68.61 88.72 53.81 51.37 42.27 45.38 44.83 45.15 38.87 NORTH CENTRAL 29.68 38.18 53.79 28.18 25.37 25.87 27.97 27.21 24.46 32.80 1) Anuradhapura 23.19 27.85 30.46 34.93 14.41 21.01 16.90 19.51 16.86 17.94 2) Minneriva 58.76 90.51 0.39 2.76 4.96 5.80 109.15 121.02 77.55 89.46 NORTHERN 56.23 0.00 86.08 86.85 0.14 0.01 0.00 104.05 116.81 73.75 3) Jaffna 3.66 4.95 5.80 2.53 0.26 2.75 4) Kilinochchi 5.10] 4.22 3.80 3.38 245.50 271.47 314.09 325.96 <u>233.</u>22 235.50 274.01 289.02 CENTRAL 214.66 228.94 49.02 46.12 60.98 62.07 52.42 56.45 58.87 48.65 49.52 5) Nortonbridge 44.21 94.83 99.83 84.49 79.84 89.78 85.05 86.56 91.61 6) Kandy 110.16 109.99 61.47 62.96 72.48 73.54 60.62 64.16 59.85 65.44 57.93 60.50 7) Nuwara Eliya 32.03 36.48 37.18 41.81 19.53 21.83 23.71 29.90 9.80 8) Matale 2.35 11.93 26.00 25.99 33.95 39.01 44.14 48.62 48.72 9) Kundasale 130.26 122.70 158.97 181.21 212.71 246.27 265.34 117.20 121.03 140.85 NORTH WESTERN I۷. 42.37 39.89 40.50 50.55 56.07 46.79 42.97 48.70 54.98 48.17 10) Kurunegala 14.93 31.76 36.92 40.96 45.73 47.55 11) Wennappuwa 83.47 59.08 68.88 74.18 97.42 109.12 109.67 69.04 85.88 78.06 12) Chilaw 15.98 30.22 33.83 40.87 52.04 13) Kuliyapitiya 751.01 416.52 491.43 532.80 589.35 662.42 ٧. 347.14 384.17 400.00 426.15 WESTERN-NORTH 59.49 69.69 89.42 56.48 52.63 61.73 63.73 68.16 68.46 56.62 14) Gampaha 51.90 30.76 42.84 46.29 15) Veyangoda 193.56 152.01 139.77 146.49 165.95 153.07 176.57 121.88 132.13 143.21 16) Negombo 273.11 323.17 103.90 118.05 132.86 135.59 120.74 248.26 98.99 108.79 17) Kelaniya 120.65 106.96 84.72 87.63 74.20 119.93 158.88 92.50 69.66 79.52 18) Ja-Ela 144.62 150.41 VI. EASTERN 117.16 107.65 91.94 86.97 76.75 68.43 84.20 126.72 75.35 56.05 67.95 19) Trincomalee 57.85 47.79 32.50 29.04 26.03 29.13 35.28 20.66 22.51 15.55 16.26 18.34 18.32 20} 16.40 15.36 15.59 15.69 Ampara 52.36 39.39 37.14 35.17 30.58 21) Batticaloa 42.91 44.51 43.86 42.24 23.04 15.00 17.02 22) Kalmunai 606.57 630.93 687.69 782.18 537.36 579.12 522.99 529.78 VII. WESTERN-SOUTH 460.26 493.45 287.21 174.48 225.94 243.42 139.86 126.48 127.19 23) Ratmalana 99.38 110.74 120.78 51.50 37.52 36.35 43.56 51.47 56.37 54.85 24) Homagama 51.27 57.32 59.78 264.59 203.26 222.24 236.35 129.71 191.89 127.49 25) Sri Jaya pura 110.36 108.81 116.58 29.15 72.87 25.66 28.85 72.72 84.78 74.58 26) Kalutara 81.35 72.65 75.22 77.13 66.01 69.39 73.58 102.00 64.88 91.20 92.25 271 Dehiwala 79.06 88.52 28.20 30.03 35.04 21.46 25.07 23.93 30.72 39.43 281 Awissawelle 38.04 38.47 31.91 37.60 19.99 24.76 27.32 27.42 21.90 22.68 16.95 29) Horana 0.81 239.55 261.62 155.70 174.97 191.35 204.46 174.04 VIII 166.26 168.26 SOUTHERN 141.74 81.23 92.84 106.81 48.10 56.98 63.11 44.71 46.75 30) Galle 38.00 44,04 29.47 35.14 41.15 29.25 30.66 39.80 42.64 26.46 28.28 31) Ambalangoda 21.47 33.09 24.14 21.58 21.55 26.65 29.78 32.06 36.25 29.06 36.05 32) Hambantota 43.85 61.79 52.81 56.61 46.85 37.10 45.03 59.71 62.18 33) Matara 53.21 37.75 36.76 17.21 30.02 34) Weligama 85.89 83.10 69.69 77.86 77.03 70.34 73.47 71.48 54.03 58.47 1X. UVA 45.02 45.10 35) Badulla 35.59 45.54 50.77 48.10 40.56 41.33 38.68 31.49 40.79 38.08 22.87 24.15 27.08 28.93 29.78 32.13 32.80 22.54 36) Diyatalawa 211.07 226.56 175.71 178.99 55.78 56.67 68.54 94.10 117.47 143.48 SABARAGAMUWA 112.50 103.06 85.23 37) Kegalle 33.96 33,44 41.66 40.45 41.91 49.29 75.37 42.97 47.36 36.33 53.15 38) Balangoda/Ratnapur 21.82 23.22 26.88 53.64 75.57 94.19 47.19 65.03 66.69 57.43 39) Kahawatta 601.92 627.12 571.34 552.36 40) COLOMBO CITY 411.28 429.48 445.60 480.92 484.40 537.29 XI. 2,352.83 2,608.07 2,742.41 2,916.31 3,270.10 3,564.82 2,070.67 2,232.32 2,252.86 2,370.95 TOTAL

Remarks:

Ĭ.

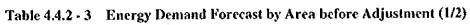
a) Shaded figures show that the annual increase rate is calculated together with the separated new Area and applied same values to both Areas.

Table 4.4.2 - 2 Annual Increase Rate of Energy Sales by Arca (1986 - 1994)

	TC.	· · · · · · · · · · · · · · · · · · ·	,				· · · · ·		,		·	(Unit:%)
l	Annual Increase Rate	1	I								Average	d G Rate
	(%)	1986	1987	1988	1989	1990	1991	1992	1993	1994	Arith-	(l+i)^a
	Provinces/Area		 _	ļ <u>.</u>	 	ļ		ļ	ļ		nietie	
1	NORTH CENTRAL	7.36		0.71	13.91	38.44	-4.55			29.25	9.71	8.59
	I) Anuradhapura	1.97	8.13	-2.73	-10.09	34.10	-14.11	5.34	28.65	40.88	10.24	8.71
	2) Minneriya	15.45			-19.69	45.81	10.38	20.08	9.38	14.68	9.88	8.40
III.	NORTHERN	10.88	-35.92	15.36		-35.08						
	3) Jaffna	12.26	************	16.72		-35.26						
<u> </u>	4) Kilinochchi	-17.25	-9.86	-11.13	8.40	-30.96						ļ
III.	CENTRAL	6.65	1.87	5.27	-4.07	15.27	0.93	5.48	8.68	3.78	4.87	4.75
	5) Nortenbridge	10,04	1.79	-1.01	-5.91	13.66	7.68	4.30	3.58	1.77	3.99	3.84
	6) Kandy	6.46	2.75	6.71	-4.22	12,45	-5.27	1.78	9.56	5.27	3.94	6.02
	7) Nuwara Eliya	4.43	0.20	5.84	-6.72	9.33	-6.06	2.43	15.12	1.45	2.89	2.69
	8) Matale	6.46	2.75	11.75	8.59	26.12	7.13	13.90		12.46	10.12	37.67
	9) Kundasale		2.75	6.71	-4.22	30.62	14.93	13.15	10.14	0.21	9.28	22.26
IV.	NORTH WESTERN	20.18	-7.52	-7.09	1.38	29.56	13.99	17.39	15.78	7.74	10.16	9.50
	10) Kurunegala	14.14	-14.89	-8.17	13.34	19.80	20.16	1.55	24.81	10.92	9.07	9.40
	11) Wennappuwa				-5.20	35.98	16.27	10.93	11.64	3.99	12.27	26.08
	12) Chilaw	24.39	-2.80	-6.48	-5.20	35.98	7.70	31.34	12.00	0.51	10.83	9.58
	13) Kuliyapitiya				(((((19.80	20.16	11.94	20.83	27.33	20.01	34.35
٧.	WESTERN-NORTH	10.66	4.12	6.54	-2.26	17.98	8.42	10.61	12.40	13.37	9.09	8.95
	14) Gampaha	12.55	6.96	0.44	1.80	28.31	-2.44	9.50	12.92	3.77	8.20	8.05
	15) Veyangoda		0.70				-2.44	9.50	8.07	12.11	6.81	19.05
	16) Negombo	8.41	8.38	6.14	-8.05	4.80	13.29	-7.76	15.35	9.62	5.58	
	17) Kelaniya	9.90	-4.49	13.62	12.54	2.06	-10.96	105.62	10.01	18.33	17.40	5.27
	18) Ja-Ela	14.16	6.54	3.43	-15.33	61.63	32.47			.,,.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		14.05
VI.	EASTERN	-8.12	-14.59	-5.41	-11.74	-10.85		-41.78	15.63	12.80	9.95	6.29
¥ 1.	19) Trincomalee						23.05	50.50	18.69	-3.85	4.19	2.37
	20) Ampara	-17.40	-31.99	-10.66	-10.34	11.90	21.10	58.90	34.42	-9.82	5,12	1.80
	21) Batticaloa	-6.37	1.48	0.67	-0.89	4.56	12.79	-0.15	12.81	8.93	3.76	3.58
		3.73	-1.46	-3.68	-16.74	-34.50	32.76	71.20	3.90	-0.43	6.09	2.62
VII.	22) Kalmunai	201	5.00						3.90	-0.43	1.74	13.46
VH.	WESTERN-SOUTH	7.21	5.99	1.30	1.43	7.77	4.74	4.02	9.00	13.74	6.13	6.07
	23) Ratmalana	11.43	9.06	4.72	0.56	9.96	24.75	29.49	7.74	17.99	12.86	12.52
	24) Homagama	11.81	4.30	-5.71	-2.70	-6.11	-27.14	-3,11	19.82	18.17	1.04	0.04
	25) Sri Jaya'pura	-1.41	7.15	9.35	1.75	47.93	5.93	9.34	6.35	11.95	10.93	10.20
	26) Kalutara	9.06	3.55	-0.86	-2.49	16.59	-14.04	-64.78	12.40	1.04	-4.39	-2.17
	27) Dehiwala	11.97	3.03	1.16	10.57	-36.40	1.80	5.07	6.03	4.82	0.89	-0.27
	28) Awissawette	1.12	2.51	-22.08	-8.21	-23.89	16.84	-4.58	25.50	16.68	0.43	-0.91
	29) Horana	9.06	17.93	9.51	3.60	9.15	10.36	0.35	16.36	17.86	10.47	53.24
VIII.	SOUTHERN	17.30	1.20	3.44	-10.54	12.38	9.36	6.85	17.16	9.21	· 7.37	7.05
	30) Galle	15.89	1.52	4.56	2.88	18.47	10.76	28.70	14.30	15.05	12.46	12.17
	31) Ambalangoda	23.20	6.89	3.43	4.81	29.81	7.13	-30.87	19.24	17.08	8.97	7.49
	32) Hambantota	24.07	-8.23	9.57	-33.43	-10.58	-0.16	23.67	11.73	7.68	2.70	1.10
	33) Matara	12.22	4.14	-0.61	-14.53	7.20	13.15	4.78	21.39	-2.62	5.01	4.87
	34) Weligama					l	13.15	4.78	22.45	2.70	10.77	29.93
IX.	UVA	8.21	19.20	11.71	-1.06	-8.69	4.45	-2.71	16.26	3.36	5.64	5.28
į	35) Badulla	13.03	27.96	11.48	-5.26	-15.68	1.91	-6.43	16.41	0.16	4.84	4.07
	36) Diyatalawa	1.47	5.58	12.15	6.80	2.95	7 .90	2.07	16.09	7.14	6.91	6.81
Χ.	SABARAGAMUWA	1.59	20.96	37.29	24.84	22.14	22.46	1.87	17.92	7.34	17.38	16.85
	37) Kegalie	-1.52	24.56	-2.89	3.59	17.62	52.90	13.09	20.91	9.17	15.27	14.24
	38) Balangoda/Ratnapura	6.42	15.76	99.54	40.87	24.64	6.53	-6.56	18.28	10.21	23.97	20.17
	39) Kahawatta				***************************************		6.53	-6.56	13.24	2.54	3.94	12.22
XI.	40) COLOMBO CITY	4.43	3.75	7.93	0.73	10.92	6.34	-3.32	8.97	4.19	4.88	4.80
	TOTAL	7.81	0.92	5.24	-0.76	10.85	5.15	6.34	12.13	9.01	6.30	6.22
					V V	v · v · ·		U.J.7	44.10	7.01	0.50	U.Z.K







	Sales Energy (GWh) Provinces/Area		1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
 I.	NORTH CENTRAL	88.7	98.6	109.2	120.7	133.1	146.5	160.9	174.6	189.3	205.2	222.
	I) Anucadhapura	53.8	59.8	66.4	73.4	81.1	89.3	98.2	106.6	115.7	125.6	136
	2) Minneriya	34.9	38.7	42.8	47.2	52.0	57.1	62.7	67.9	73.6	79.1	86.
[].	NORTHERN	5.8	6.3	6.7	44.8	68.5	94.9	122.0	148.2	172.7	195.3	216
	3) Jaffna	0.0	0.0	0.0	35.0	54.3	76.0	98.5	120.3	140.7	159.6	177.
	4) Kilinochchi	5.8	6.3	6.7	9.8	14.2	18.9	23.5	27.9	32.0	35.7	39.
IJſ.	CENTRAL	326.0	346.6	368.3	391.2	415.4	440.9	467.7	493.6	521.0	550.0	580.
	5) Nortonbridge	62.1	65.2	68.3	71.6	75.0	78.5	82.1	85.5	89.0	92.7	96.
	6) Kandy	99.8	104.8	109.8	115.1	120.5	126.0	131.8	137.2	142.9	148.8	154.
	7) Nuwara Eliya	73.5	76.5	79.5	82.7	86.0	89.5	93.0	96.8	1.001	104.7	108.
	8) Matale	41.8	46.5	51.5	56.9	62.8	69.1	75.9	82.4	89.3	96.9	105.
	9) Kundasale	48.7	53.7	59.1	64.9	71.1	77.8	84.9	91.8	99.1	107.0	115.
IV.	NORTH WESTERN	265.3	299.6	337.4	379.1	425.0	475.6	531.3	584.8	643.8	708.6	779.
	(0) Kurunegala	56.1	61.7	67.8	74.3	81.3	88.7	96.7	104.4	112.6	121.5	130.
	11) Wennappuwa	47.6	53.9	60.8	68.4	76.7	85.8	95.7	105.0	115.2	126.3	138.
	12) Chilaw	109.7	122.6	136.7	152.0	168.6	186.5	206.0	224.3	241.2	265.8	289.
	13) Kuliyapitiya	52.0	61.4	72.2	84.5	98.5	114.6	132.8	151.1	171,7	195.1	221.
٧.	WESTERN-NORTH	751.0	840.7	939.8	1,049.3	1,170.3	1,304.0	1,451.7	1,595.3	1,753.5	1,927.5	2,119.
<u></u> -	14) Gampaha	61.7	67.4	73.5	79.9	86.8	94.2	102.1	109.6	117.7	126.4	135.
	15) Veyangoda	51.9	56.0	60.2	64.8	69.6	74.7	80.1	85.4	91.0	97.0	103.
	16) Negombo	193.6	206.3	219.7	233.8	248.7	264.4	280.9	297.5	315.1	333.3	352.
	17) Kelaniya	323.2	377.1	438.2	507.3	585.1	672.7	771.3	867.3	974.5	1,094.3	1,228.
	18) Ja-Ela	120.7	133.9	148.1	163.5	180.1	198.0	217.3	235.6	255.3	276.6	299.
VI.	EASTERN	144.6	153.2	162.1	171.5	181.4	191.8	202.7	213.5	225.0	237.0	249.1
	19) Trincomalee	68.0	72.1	76.5	81.1	85.9	91.0	96.4	101.7	107.4	113.4	119.
	20) Ampara	22.5	23.6	24.7	25.8	27.0	28.2	29.5	30.7	31.9	33.2	34.
	21) Batticaloa	37.1	39.8	42.5	45.5	48.6	51.8	55.3	58.7	62.3	66.2	70.
	22) Kalmunai	17.0	17.7	18.4	19.1	19.9	20.7	21.5	22.4	23.3	24.2	25.
VII.	WESTERN-SOUTH	782.2	865.6	956.4	1,055.3	1,162.9	1,279.9	1,407.0	1,527.5	1,658.3	1,800.2	1,954.
	23) Ratmalana	287.2	327.0	370.9	419.1	472.2	530.4	591.3	654.3	719.8	791.5	869.
	24) Homagama	51.5	53.5	55.7	57.9	60.2	62.6	65.1	67.7	70.4	73.3	76.
	25) Sri Jaya'pura	264.6	296.1	330.4	367.7	408.1	451.9	499.3	544.1	592.7	645.3	702.
	26) Kalutara	29.1	30.3	31.5	32.8	34.1	35.5	36.9	38.4	39.9	41.5	43.
	27) Dehiwala	77.1	80.2	83.4	86.8	90.2	93.8	97.6	101.5	105.6	109.8	114.
	28) Awissawelle	35.0	36.4	37.9	39.4	41.0	42.6	44.3	46.1	48.0	49.9	51.
·	29) Horana	37.6	41.9	46.6	51.6	57.1	63.0		75.5	82.0	89.1	96.
VIII.	SOUTHERN	261.6	288.5	317.6	349.2	383.4	420.5	460.7	498.9	540.2	585.0	
	30) Galle	8.601	121.2	137.0	154.3	173.3	194.1	216.9	238.3	261.6	287.1	314.
	31) Ambalangoda	41.1	45.2	49.6	54.4	59.4	64.8	70.6	76.2	82.2	88.5	95.
	32) Hambantota	32.1	33.3	34.7	36.1	37.5	39.0	40.6	42.2	43.9	45.6	47.
	33) Matera	43.9	46.5	49.3	52.2	55.2	58.5	61.8	65.2	68.8	72.6	76.0
	34) Weligama	37.7	42.2	47.0	52.2	57.9	64.1	70.7	77.0	83.8	91.1	99.
IX.	UVA	85.9	91.7	97.9	104.5	111.4	118.6	126.3	134.0	142.1	150.6	159.
	35) Badulla	45.1	47.7	50.5	53,4	56.5	59.7	63.1	66.5	70.1	73.9	77.
	36) Diyatalawa	40.8	44.0	47.4	51.1	54.9	59.0	63.3	67.5	72.0	76.7	81.3 694.
X	SABARAGAMUWA	226.6	256.0	288.8	325.5	366.5	412.1	463.0	512.1	566.7	627.3	
1.	37) Kegalle	112.5	130.1	149.8	171.8	196.3	223.7	254.1	283.0	315.0	350.4	389.
	38) Balangoda/Ratnapura	1112.2	55.9	65.7	76.9	89.7	104.3	120.9	137.5	156.3	177.5	201.
	39) Kahawatta	66.7	70.0	73.4	76.9	80.5	84.2	88.0	91.7	95.4 977.0	99.4 1,030.1	103.
XI.	40) COLOMBO CITY	627.1	664.0	702.8	743.5	786.3	831.4	878.8 6,271.93	926.6 6,809.15		8,016.85	
	TOTAL	3,564.8	3,910.61	4,287.13	4.734.66	5,201.17	5,716.07	0,2 (1.93)	0,007.13	1,367,33	0,010.03	D.070.4.

Table 4.4.2 - 3 Energy Demand Forecast by Area before Adjustment (2/2)

	Sales Energy		r	Ι	1	Γ		T	1	1	1	(Unit : GW1
	(GWh)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Provinces/Area					1	[1		
1	NORTH CENTRAL	241.0	261.0	282.7	306.0	330.7	357.3	386.1	417.2	450.7	497.0	526.2
	1) Anuradhapura	147.6	160.0	173,4	187.9	203.1	219.6	T	256.8			324.5
	2) Minneriya	93.4	101.0	109.3	118.2	127.5		1			2	201.
Π.	NORTHERN	235.9	254.9	273.5	291.9	306.5		1			391.1	410.7
	3) Jaffna	193.1	208.3	222.9	237.2	249.1	261.5	274.6			317.9	
	4) Kilinochchi	42.8	46.6	50.5	54.6	57.4	60.2		66.4	69.7	73.2	76.9
III.	CENTRAL	613.0	647.2	683.6	722.2		805.6	851.2	899.8		1,006.3	1,064.8
	5) Nortonbridge	100.4	104.4	108.6						137.4	142.8	1
	6) Kandy	161.1	167.5	174.2	181.2	188.4			211.9		229,2	238
	7) Nuwara Eliya	113.2	117.7	122.4	127.3	132.4		f				167.6
	8) Marate	113.8	123.2	133.5	144.5	156.2			197.0			248.6
	9) Kundasale	124.6	134.4	144.9	156.3	168.2	181.0		209.8	225.8	243.0	
٧.	NORTH WESTERN	858.4	944.9	1,040.2	1,145.2	1,258.3	1,383.0	1,520.7	1,672.8	1,840.9	2,026.8	2,232.
	t0) Kurunegala	141.1	152.1	163.9	176.5	189.8	204.1	219.5	236.1	253.9	273.0	293.6
	11) Wennappuwa	151.5	165.9	181.6	198.7	216.9	1	258.3	281.9	1	335.7	366.1
	12) Chilaw	314.4	341.7	371.4	403.5	437.5	474.3	514.1	557.4	604.3	655.1	710.2
	13) Kuliyapitiya	251.3	285.1	323.3	366.5	414.1	467.9		597.5	675.2	763.0	862.
<i>i</i> .	WESTERN-NORTH	2,330.8	2,564.1	2,821.6	3,105.8	3,412.5	3,751.3	4,125.7	4,539.6		5,503.8	6,064.2
	(4) Gampaha	145.5	156.1	167.5	179.6	192.4	206.0	1	236.3	253,1	271.1	290.3
	15) Veyangoda	110.1	117.3	124.9	132.9	141.4	150.5	160.1	170.3	181.2	192.8	205.2
	(6) Negombo	373.0	394.6	417.4	441.6	467.2	494.2	522.9	553.1	585.2	619.0	654.9
	17) Kelaniya	1,377.9	1,545.1	1,732.0	1,940.7	2,167.8	2,421.4	2,704.7	3,021.2	3,374.6	3,769.5	4,210.5
	18) Ja-Ela	324.3	351.0	379.8	410.9	443.7	479.1	517.4	558.7	603.2	651,4	703.4
4.	EASTERN	263.0	277.1	291.8	307.4	323.8	341.2	359.4	378.7	399.0	420.4	443.0
	19) Trincomalce	126.3	133.4	140.8	148.6	156.9	165.6	174.8	184.5	194.8	205.6	217.0
	20) Ampara	35.9	37.4	38.9	40.4	42.0	43.7	45.5	47.3	49.2	51.1	53.2
	21) Batticaloa	74.6	79.1	83.9	88.9	91.3	100.0	106.0	112.4	119.2	126.4	134.1
	22) Kalmunai	26.2	27.3	28.3	29.5	30.7	31.9	33.2	34.5	35.9	37.3	38.8
Ħ.	WESTERN-SOUTH	2,121,4	2,303.0	2,500.2	2,714.3	2,941.0	3,187.4	3,455.3	3,746.6	4,063.3	4,407.7	4,782.3
	23) Ratmalana	955.7	1,049.5	1,152.1	1,264.3	1,383.5	1,514.0	1,656.8	1,813.0	1,984.0	2,171.1	2,375.8
	24) Homagama	79.2	82.4	85.7	89.1	92.7	96.4	100.3	104.3	108.4	112.8	117.3
	25) Sri Jaya'pura	761.0	831.0	903.5	982.2	1,065.3	1,155.4	1,253.1	1,359.2	1,474.1	1,598.9	1,734.1
	26) Kalutara	41.9	46.7	48.5	50.5	52.5	54.6	56.8	59.0	61.4	63.9	66.4
	27) Dehiwala	118.7	123.5	128.4	133.6	138.9	144.5	150.2	156.2	162.5	169.0	175.7
	28) Awissawelle	53.9	56.1	58.3	60.7	63.1	65.6	68.2	71.0	73.8	76.8	79.8
	29) Horana	105.0	113.9	123.6	134.0	145.0	157.0	169.9	183.9	199.0	215.4	233.1
Ш.	SOUTHERN	685.9	742.8	804.3	871.0	941.5	1,018.0		1,190.9	1,288.4	1,394.2	1,509.0
	30) Galle	345.2	378.4	414.5	454.0	495.9	541.7	591.7	646.3	706.0	771.2	842.3
	31) Ambalangoda	102.8	110.7	119.2	128.4	138.0	148.3	159.4	171.4	184.2	198.0	212.8
	32) Hambantota	49.4	51.3	53.4	55.5	57.7	60.1	62.5	65.0	67.6	70.3	73.1
	33) Matara	80.8	85.3	90.0	94.9	100.1	105.6	111.4	117.6	124.0	130.9	138.1
	34) Wehgama	107.7	117.1	127.2	138.2	149.7	162.3	175.9	190.6	206.6	223.9	242.7
ί.	UVA	169.3	179.5	190.3	201.7	213.7	226.5	240.0	254.3	269.5	285.6	302.6
į	35) Badulla	82.1	86.6	91.3	96.2	101.4	106.9	112.7	118.8	125.3	132.0	139.2
	36) Diyatalawa	87.2	92.9	99.0	105.5	112.3	119.6	127.3	135.5	144.2	153.5	163.4
.	SABARAGAMUWA	769.2	852.2	911.5	1,047.1	1,158.3	1,282.1	1,419.9	1,573.3	1,744.1	1,934.4	2,146.5
	37) Kegalle	432.9	480.8	533.9	592.6	655.6	725.4	802.5	887.9	982.4		
	38) Balangoda/Ratnapura	228.7	259.5	294.2	333.5	376.9	425.9				1,086.9	1,202.6
ļ	39) Kahawatia	107.6	111.9	116.4	121.0			481.2	543.8	614.5	694.4	784.6
1.	40) COLOMBO CITY	1,145.2	1,207.5	1,273.2	1,342.5	125.9	130.9	136.1	141.6	147.2	153.1	159.3
لسنا	TOTAL	9,433.2				1,415.5	1,492.5	1,573.7	1,659.3	1,749.6	1,844.8	1,945.1
	(Increase Rate)	(8.5)	10,234.2] (8.5)	11,105.8 (8.5)	12,055.1 (8.5)	13,064.5 (8.4)	14,166.7] (8.4)	15,370.9] (8.5)	16,687.2 (8.6)	18,126.8] (8.6)	19,702.1 (8.7)	21,426.7] (8.8)



Table 4.4.2 - 4 Estimated Annual Increse Rate of Energy Demand (1/2)

		Annual Increase	Rate	Calcited	Basic		Estir	oated Add	litional As	nnual Incre	se Rates	for Adjust	ment		
				Increase	Increase	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
	1	vinces/Area	\rightarrow	Rate	Rate				<u></u>	<u> </u>					
I	1	RTH CENTRAL		9.71											
		Anuradhapura		10.24	8.12	3.12	2.81	2.53	2 27		1.84	0.46	0.41	0.37	0.3
		Minneriya		9.88	7.94	2.94	2.64	2.38	2.14	1.93	1.74	0.43	0.39	0.35	0.3
<u> </u>		RTHERN									24.50				
	1	Jaffna			5.00	0.00	0.00	50.00	50.00		24.50	17,15	12.01	8.40	
	4)	Kilinochchi		4.07	5.00	3.00	2.70	40.00	40.00	28.00	19.60	13.72	9.60	6.72	4.7
111	1	NTRAL		4.87	4.00	0.99	0.89	0.80	0.72	0.65	0.58	0.15	0.13	0.12	0.1
	5)	Nortonbridge		3.99 3.94	4.00	0.94	0.85	0.76	0.69		0.56	0.14	0.13	0.11	0.19
	6)	Kandy Nuwara Eliya		2.89	4.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00
	7) 8)	Matale		10.13	8.06	3.06	2.75	2.48	2.23		1.81	0.45	0.41	0.37	0.3
	9)	I		9.28	7.64	2.64	2.38	2.14	1.93	1.74	1.56	0.39	0.35	0.32	0.2
IV.		RTH WESTERN		10.16	7.04		2.50	2.7	1.75			- 5.55			
	10)	Kurunegala		9.07	7.54	2.53	2.28	2.05	1.85	1.66	1.50	0.37	0.34	0.30	0.2
	11)	Wennappuwa		12.27	9,13	4.14	3.73	3.35	3.02	2.72	2.44	0.61	0.55	0.50	0.4
		Chilaw		10.83	8.41	3.42	3.07	2.71	2.49	1 1	2.02	0.50	0.45	0.41	0.3
		Kuliyapitiya		20.01	13.00	5,00	4.50	4.05	3.65	3.28	2.95	0.74	0.66	0.60	0.5
	···/	,.,.,.,.													
٧.	WE	STERN-NORTH		9.09											
		Gampaha		8.20	7.10	2.10	1.89	1.70	1.53	1.38	1.24	0.31	0.28	0.25	0.2
		Veyangoda		6.81	6.40	1.41	1.27	1.14	1.03	0.92	0.83	0.21	0.19	0.17	0.1
		Negombo		5.58	5.79	0.79	0.71	0.64	0.57	0.52	0.46	0.12	0.10	0.00	0.0
		Kelaniya		17.40	11.70	5.00	4.50	4.05	3.65	3.28	2.95	0.74	0.66	0.60	0.5
		Ja-Eia		9.95	7.98	2.97	2.68	2.41	2.17	1.95	1.76	0.44	0.39	0.36	0.3
VI.	_	STERN		4.19											
	19)	Trincomalee		5.12	5.56	0.56	0.51	0.46	0.41	0.37	0.33	0.00	0.00	0.00	0.0
	20)	Ampara		3.76	4.00	0.76	0.68	0.62	0.55	0.50	0.45	0.11	0.10	0.00	0.0
	21)	Batticaloa		6.09	6.04	1.05	0.94	0.85	0.76	0.69	0.62	0.15	0.14	0.13	0.1
	22)	Kalmunai		1.74	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
VII.	W.F.	STERN-SOUTH		6.13											
	23)	Ratmalana		12.86	9.43	4.43	3.98	3.59	3.23	2.90	2.61	0.65	0.59	0.53	0.4
	24}	Homagama		1.04	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	25}	Sri Jaya'pura		10.93	8.46	3.47	3.12	2.81	2.53	2.27	2 05	0.51	0.46	0.43	0.3
	26)	Kalutara		-4.39	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
	27)	Dehiwala		0.89	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	28)	Awissawelle		0.43	4.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Horana		10.47	8.23	3.24	2.91	2.62	2.36	2.12	1.91	0.48	0.43	0.39	0.35
V <u>II</u> I.		THERN		7.37						 					
		Galle		12.46	9.23	4.23	3.81	3,43	3.08	2.77	2.50	0.62	0.56	0.51	0.4
		Ambalangoda		8.97	7.49	2.48	2.23	2.01	1.81	1.63	1.46	0.37	0.33	0.30	0.2
		Hambantota		2.70	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Matara	. •	5.01	5.50	0.51	0.46	0.41	0.37	0.33	0.30	0.00	0.00	0.00	0.00
		Weligama		10.77	8.38	3.39	3.05	2.74	2.47	2.22	2.00	0.50	0.45	0.41	0.30
X	<u>UV</u>			5.64											
		Badulla		4.84	5.42	0.42	0.38	0.34	0.31	0.28	0.25	0.00	0.00	0.00	0.00
		Diyatalawa		6.91	6.45	1.46	1.31	1.18	1.06	0.96	0.86	0.21	0.19	0.17	0.10
Κ		BARAGAMUWA	<u> </u>	17.38										0.60	
		Kegalie		15.27	10.64	5.00	4.50	4.05	3.65	3.28	2.95	0.74	0.66	0.60	0.5
		Balangoda/Ratna	pura	23.97	13.00	5.00	4.50	4.03	3.65	3.28	2.95	0.74	0.66	0.60	0.5
		Kahawatta		3.94	4.00	0.94	0.85	0.76	0.69	0.62	0.56	0.14	0.12	0.11	0.10
XI.	40)	COLOMBO CIT	Y	4.88	5.44	0.44	0.40	0.36	0.32	0.29	0.26	0.00	0.00	0.00	0.00
		TOTAL	1	6.30		1				0.544 [a] 10		i			L <u></u>

Note: Increase rates for adjustment for Kilinochchi Area are amended to meet Jaffna's ones((Jul.10,1996).

Table 4.4.2 - 4 Estimated Annual Increse Rate of Energy Demand (2/2)

	Annual Increase Rate			Est	imated Ad	ditional A	Annual Inc	rese Rate	s for Adju	stment		
	(%	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	201:
	Provinces/Area						ļ			ļ <u>.</u>	ļ	ļ
	NORTH CENTRAL	ļ						ļ.,	ļ			ļ <u>.</u>
	1) Anuradhapura	0.30	0.27	0.24	0.22			ļ <u>.</u>		ļ	l	
	2) Minneriya	0.28	0.26	0.23	0.21		manan amin' ao amin'					ļ
l.	NORTHERN											ļ
	3) Jaffna	4.12	2.88	2.02	1.41						or the more than a sec	
	4) Kilinochchi	4.24	3.81	3,43	3.09							ļ
Н.	CENTRAL											
	5) Nortonbridge	0.00	0.00	0.00	0.00							
	6) Kandy	0.00	0.00	0.90	0.00		-					ļ
	7) Nuwara Eliya	0.00	0.00	0,00	0.00		J				.	ļ
	8) Matale	0.30	0.27	0.24	0.22					<u> </u>		
	9) Kundasəle	0.26	0.23	0.21	0.19							
٧.	NORTH WESTERN	1								i		l
	10) Kurunegala	0.25	0.22	0.20	0.18							
	11) Wennappuwa	0.40	0.36	0.32	0.29				l			l
	12) Chilaw	0.33	0.30	0.27	0.24							
	13) Kuliyapitiya	0.48	0.44	0.39	0.35							
	WESTERN-NORTH											
	(4) Gampaha	0.20	0.18	0.16	0.15							i
	15) Veyangoda	0.14	0.12	0.11	0.00							
i	16) Negombo	0.00	0.00	0.00	0.00	· ··						f - <u>-</u>
	17) Kelaniya	0.48	0.44	0.39	0.35							
	18) Ja-Ela	0.29	0.26	0.23	0.21							
Ί.	EASTERN											
	19) Trincomalee	0.00	0.00	0.00	0.00		Account a second					
	20) Ampara	0.00	0.00	0.00	0.00						e i compresso de la compresso de	
	21) Batticaloa	0.10	0.00	0.00	0.00							
	22) Kalmunai	0.00	0.00	0.00	0.00							
11.	WESTERN-SOUTH								4			
	23) Ratmalana	0.43	0.39	0.35	0.31					· · · · · · · · · · · · · · · · · · ·		
	24) Homagama	0.00	0.00	0.00	0.00							
	25) Sri Jaya'pura	0.34	0.30	0.27	0.24							
	26) Kalutara	0.00	0.00	0.00	0.00							
	27) Dehiwala	0.00	0.00	0.00	0.00							
	28) Awissawelle	0.00	0.00	0.00	0.00							<u>-</u> -
	29) Horana	0.31	0.28	0.25	0.23							
,,,	SOUTHERN	0.33	0.20	0.23	······································				· · · · · · · · · · · · · · · · · · ·			
112.	30) Galle	0.41	0.37	0.33	A 20							
	31) Ambalangoda	0.24	0.22	0.19	0.30							
	32) Hambantota	0.00	0.00	0.00	0.00						,	
i	33) Matara	0.00	0.00	0.00	0.00							
Ì	34) Weligama	0.33										
r.	UVA	ادد.ب	0.30	0.27	0.24				a			
٠	35) Badulla	0.00	000	0.00				· · · · · · · · · · · · · · · · · · ·				
ł	36) Diyatalawa	0.00	0.00	0.00	0.00							
ł	SABARAGAMUWA	0.14	0.13	0.11	0.10	J						
	37) Kegalle					· ;						
ı		0.48	0.44	0.39	0.35							
ŀ	38) Balangoda/Ratnapura		0.44	0.39	0.35		·					
	39) Kahawatta	0.00	0.00	0.00	0.00							
<u>! </u>	40) COLOMBO CITY	0.00	0.00	0.00	0.00	l	l	I				

Table 4.4.2 - 5 Energy Demand Forecast by Area after Adjustment (1/2)

Proxincet/Area S. Parry		Sales Energy	Base			1007	1000		2000	2001	2002	2003	2004
NORTH CENTRAL \$8.7 99.5 110.6 121.7 134.3 148.0 61.0 171.6 (9).4		(GWh)	Year's	1995	1996	1997	1993	1999	2000	2001	2002	2003	2004
1) Anuradhapara 33.8 60.4 61.2 74.1 81.8 90.3 92.5 60.85 118.2 2) Minneriya 34.9 39.1 43.4 47.7 57.5 51.8 61.5 69.1 72.2 18. 10. NORTHERN 5.8 6.3 6.8 4.52 60.1 50.9 172.6 150.8 150.8 172.6 150.8 1				99.5	1106	121.2	1313	148.0	163.0	177.6	193.4	210.7	229.5
2) Nimerdys	٠.											128.9	140.5
NORTHERN 5.8 6.3 6.8 45.2 69.1 95.9 121.6 150.8 176.5 3) Inffin 0.0 0.0 0.0 35.3 51.8 76.8 97.8 122.4 143.8 4) KNinochchi 5.8 6.3 6.8 99. 14.3 19.1 23.8 22.4 23.7 5) Nortochcidge 62.1 63.8 69.2 72.2 75.7 79.3 83.2 55.0 91.0 6) Kandy 99.8 105.7 111.7 116.0 121.6 121.4 133.5 139.6 146.0 7) Norara Eliya 7.25 77.2 80.5 83.4 86.8 80.4 91.3 93.4 102.8 8) Marab 41.8 46.9 52.1 57.4 63.3 69.8 76.9 83.5 91.3 9) Kwodsalc 48.7 54.2 59.9 65.5 71.8 72.8 86.1 93.3 101.2 17. NORTH WESTERN 265.3 302.3 311.7 322.4 428.9 480.7 538.3 955.0 657.7 18) Kwinapapus 56.1 62.3 68.6 69.0 77.4 86.7 97.0 106.8 117.7 19) Kwonapapus 47.6 54.4 61.6 69.0 77.4 86.7 97.0 106.8 117.7 12) Chibw 199.7 122.7 138.4 153.3 170.1 188.5 268.7 228.2 239.9 14) Garapaha 61.7 68.0 74.4 80.6 87.6 99.2 115.8 134.6 153.7 175.4 14) Garapaha 61.7 68.0 74.4 80.6 87.6 99.2 103.4 111.5 120.3 15) Vyangoda 51.9 56.5 61.0 65.3 70.2 22.5 81.2 85.9 99.0 15) Nyangoda 51.9 56.5 61.0 65.3 70.2 22.5 81.2 85.9 99.0 15) Nyangoda 51.9 56.5 61.0 65.3 70.2 22.5 81.2 85.9 99.0 15) Nyangoda 51.9 56.5 61.0 66.3 70.2 22.5 81.2 85.9 99.0 15) Nyangoda 51.9 56.5 61.0 66.3 70.2 22.5 82.1 82.5 99.0 15) Nyangoda 51.9 56.5 61.0 66.3 70.2 22.5 81.5 82.3 99.6 15) Nyangoda 51.9 56.5 61.0 66.3 70.2 22.5 81.5 82.3 99.6 16) Nigomba 191.0 208.2 272.5 235.8 231.0 267.2 281.6 302.1 231.9 17) Ketaniya 22.2 23.8 23.5 66.0 65.3 70.2 22.5 82.3 29.0 18) Batcalea 37.1 40.1 43.1 45.5 50.0 70.9 71.5 50.5 71.5 71.5 20) Ampara 22.5 23.8 25.0 25.6 27.2 28.5 29.0 20.1 23	- 1											81.8	89.0
35 Jaffna	11						- 1			150.8	176.5	200.5	223.0
40 Kliinochehi 5.8 6.3 6.8 9.9 14.3 19.1 23.8 28.4 32.7	<u></u>									122.4	143.8	163.8	182.6
III CENTRAL 3260 3497 3730 3916 4192 4456 4718 5021 5323 53 Notochrödge Q21 66.8 69.2 722 75.7 79.3 83.2 87.0 91.0 7	ŀ								23.8	28.4		36.7	40.5
S Nononbridge	111							445.6	473.9	502.1	532.3	564.6	599.0
6) Kandy 99.8 105.7 111.2 1160 121.5 127.4 133.5 139.6 146.0 27 Nawara Eliya 27.5 77.2 50.5 53.4 86.8 90.4 91.3 98.4 102.8 31 Matale 41.8 46.9 52.1 57.4 6.33 69.8 76.9 83.3 9.1.3 9.1.3 9.1.4 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5			1			72.2	75.7	79,3	83.2	87.0	91.0	95.2	99.6
72 Nuwara Eliya	l					116.0	121.6	127.4	133.5	139.6	146.0	152.7	159.8
8) Matale				77.2		83.4	86.8	90.4	94.3	98.4	102.8	107.4	112.3
9				46.9		57.4	63.3	69.8	76.9	83.8	91.3	99.4	108.3
IV. NORTH WESTERN 265.3 302.3 341.7 382.4 428.9 480.7 538.3 595.0 652.7					59.9		71.8	78.6	86.1	93.3	101.2	109.8	- 119.1
10	IV.			302.3	341.7	382.4	428.9	480.7	538.3	595.0	657.7	727,4	801.5
11)		10) Kurunegala		62.3	68.6	74.9	82.0	89.7	98.0	106.2	115.1	124.7	135,1
12 Chilaw 109.7 123.7 138.4 153.3 170.1 188.5 208.7 228.2 249.5 13) Kuliyapiitya 52.0 62.0 73.1 65.2 99.4 115.8 134.6 153.7 175.4			47.6	54.4	61.6	69.0	77.4	86.7	97,0	106.8	117.7	129.6	142.7
13 Kuliyapitiya 52.0 62.0 73.1 85.2 99.4 115.8 134.6 153.7 175.4 V. WESTERN-NORTH 751.0 818.3 951.6 1058.3 1,181.1 1,317.9 1,470.9 1,622.9 1,791.6 141 Gampaha 61.7 68.0 74.4 80.6 87.6 95.2 103.4 111.5 120.3 15) Veyangoda 51.9 56.5 61.0 66.3 70.2 71.5 81.2 86.9 93.0 16) Negombo 193.6 208.2 222.5 235.8 251.0 267.2 284.6 302.7 121.9 17) Kelaniya 323.2 380.5 443.7 511.6 590.5 679.9 781.5 882.3 995.6 18) Ja-Ela 120.7 135.1 159.0 164.9 181.8 200.1 220.1 220.1 220.1 19) Trincomalee 68.0 72.8 77.4 81.8 86.7 92.0 97.7 103.5 169.7 20) Ampara 22.5 23.8 25.0 26.0 27.2 28.5 29.9 31.2 32.6 21) Batticalea 37.1 40.1 43.1 45.9 49.0 52.4 56.0 59.7 63.7 22) Kalmurai 17.0 17.9 18.6 19.3 20.1 20.9 21.8 22.8 23.8 23) Ratmalana 287.2 330.0 375.5 422.7 476.5 536.1 602.2 665.6 735.4 24) Homagama 51.5 54.0 56.4 53.4 60.8 63.3 66.0 68.9 72.0 25) Sri Jaya'pura 264.6 298.3 334.6 370.8 411.8 456.7 505.9 553.5 605.5 26) Kalutara 27.1 80.9 84.5 87.5 91.1 94.8 98.9 103.2 107.8 27) Dehiwala 77.1 80.9 84.5 87.5 91.1 94.8 98.9 103.2 107.8 28) Awissawell 35.0 36.8 38.4 39.7 41.4 43.1 44.9 44			109.7	123.7	138.4	153.3	170.1	188.5	208.7	228.2	249.5	272.8	298.2
V. WESTERN-NORTH 751.0 848.3 951.6 1,058.3 1,181.1 1,37.9 1,470.9 1,622.9 1,791.6 14) Gampaho 61.7 68.0 74.4 80.6 87.6 95.2 103.4 111.5 120.3 15) Veyangodo 51.9 565.6 61.0 65.3 70.2 75.5 81.2 85.9 93.0 15) Negombo 193.6 208.2 222.5 25.8 251.0 267.2 284.6 302.7 321.9 17) Ketlaniya 322.2 389.5 443.7 511.6 590.5 679.9 781.5 882.3 995.6 18) Ja-Ela 120.7 135.1 1500 164.9 181.8 200.1 220.1 239.6 260.8 VI. EASTERN 144.6 154.5 164.2 173.0 183.1 193.8 205.4 217.2 220.9 19) Trincomalec 68.0 72.8 77.4 818.8 200.1 220.9 277.2 103.5		13) Kuliyapitiya	52.0	62.0	73.1	85.2	99.4	115.8	134.6	153.7	175.4	200.3	228.5
15 Veyangoda 51.9 56.5 61.0 66.5 70.2 75.5 81.2 86.9 91.0 16 Negombo 193.6 208.2 222.5 235.8 251.0 267.2 284.6 302.7 321.9 17) Kelaniya 323.2 380.5 443.7 511.6 590.5 679.9 781.5 882.3 995.6 18 Ja-Ela 120.7 135.1 150.0 164.9 181.8 200.1 220.1 239.6 260.8 VI. EASTERN 141.6 154.5 164.2 173.0 183.1 193.8 205.4 217.2 229.9 19) Trincomalec 68.0 72.8 77.4 81.8 86.7 92.0 97.7 103.5 109.7 20) Ampara 22.5 23.8 25.0 26.0 27.2 28.5 29.9 31.2 32.6 21) Batticalca 37.1 40.1 43.1 45.9 49.0 52.4 55.0 59.7 21) Kalmunai 17.0 17.9 18.6 19.3 20.1 20.1 20.1 20.1 22) Kalmunai 17.0 17.9 18.6 19.3 20.1 20.9 21.8 22.8 23.8 23) Ratunalana 287.2 330.0 375.5 422.7 476.5 536.1 660.2 665.6 735.4 24) Homagama 51.5 54.0 56.4 58.4 60.8 63.3 66.0 68.9 72.0 25) Sri Jaya'pura 264.6 298.8 334.6 330.8 411.8 456.7 505.9 553.5 605.5 26) Kalectara 29.1 30.6 31.9 33.1 34.4 35.8 37.4 39.0 40.8 27) Dehiwala 77.1 80.9 84.5 88.7 91.1 94.8 98.9 103.2 107.8 28) Awissawelle 35.0 36.8 38.4 39.7 414.4 43.1 44.9 46.9 49.0 29) Horana 37.6 42.3 47.2 52.1 57.6 63.7 70.3 76.8 83.8 VIII. SOUTHERN 261.6 291.1 311.6 352.1 386.9 425.0 466.8 507.5 522.0 30) Galle 106.8 122.3 138.7 155.6 63.7 70.3 76.8 83.8 VIII. SOUTHERN 261.6 291.1 311.6 352.1 386.9 425.0 466.8 507.5 522.0 30) Galle 106.8 122.3 138.7 155.6 63.7 70.3 76.8 83.8 VIII. SOUTHERN 261.6 291.1 311.6 352.1 386.9 425.0 466.8 507.5 522.0 30) Galle 106.8 122.3 138.7 155.6 63.7 70.3 76.8 83.8 VIII. SOUTHERN 261.6 292.1 318.7 355.6 354.8 60.0 65.5 71.6 77.5 83.9 31) Ambalangoda 41.1 45.7 63.5 63	٧.		751.0	848.3	951.6	1,058.3	1,181.1	1,317.9	1,470.9	1,622.9	1,791.6	1,978.8	2,186,3
15 Negembo		(4) Gampaha	61.7	68.0	74.4	80.6	87.6	95.2	103.4	111.5	120.3	129.7	139.9
17 Kelaniya 323.2 380.5 443.7 511.6 590.5 679.9 781.5 882.3 995.6 18 Ja-Ela 120.7 135.1 1500 164.9 181.8 200.1 220.1 239.6 260.8 VI. EASTERN 144.6 154.5 164.2 173.0 183.1 193.8 205.4 217.2 229.9 I. O. Trincomalee 68.0 72.8 77.4 818 86.7 92.0 97.7 103.5 109.7 201 Ampara 22.5 231.8 250.0 260.0 27.2 28.5 29.9 31.2 31.6 211 Batticalea 37.1 40.1 43.1 45.9 49.0 52.4 56.0 59.7 63.7 221 Kalmunai 17.0 17.9 18.6 19.3 20.1 20.9 21.8 22.8 23.8 VII WESTERN-SOUTH 782.2 873.4 968.4 1.064.3 1.173.6 1.293.5 1.425.6 1.554.0 1.694.3 233 Ratmalana 287.2 330.0 375.5 422.7 476.5 536.1 602.2 665.6 735.4 244 Homagama 51.5 541.0 564 58.4 608 63.3 660 68.9 72.0 255 Sri Jaya'pura 264.6 298.8 334.6 330.8 411.8 456.7 505.9 5531.5 605.5 265 Kalutara 29.1 30.6 31.9 33.1 33.4 35.8 37.4 39.0 40.8 277 Dehiwala 77.1 80.9 84.5 87.5 91.1 94.8 98.9 103.2 107.8 288 Awissawelle 35.0 36.8 38.4 39.7 41.4 43.1 44.9 46.9 49.0 299 Horana 37.6 42.3 47.2 52.1 57.6 60.7 70.3 76.8 83.8 331 Ambalangeda 41.1 45.7 50.3 54.8 60.0 65.5 71.6 77.5 83.9 322 Hambantota 32.1 33.6 33.1 36.4 37.9 39.4 41.1 42.9 44.8 333 Matara 43.9 46.9 49.9 52.6 55.7 59.1 62.7 66.4 70.3 330 Diyatalawa 40.8 41.4 48.0 51.5 55.4 59.6 63.1 68.6 73.5 331 Kegalle 112.5 131.3 151.7 77.3 198.1 226.1 227.4 227.3 239.1 332 Balanged/Katnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 393 Kahawatta 66.7 70.6 74.3 77.5 81.2 83.1 80.4 94.2 942.5 394 COLOMBO CUTY 627.1 670.0 711.6 749.8 793.5 800.4 942.6 992.2			51.9	56.5	61.0	65.3	70.2	75.5	81.2	86.9	93.0	99.6	106.6
181 Ja-Ela 120.7 135.1 1590 164.9 181.8 200.1 220.1 239.6 260.8		16) Negombo	193.6	208.2	222.5	235.8	251.0	267.2	284.6	302.7	321.9	342.2	363.7
VI EASTERN 144.6 154.5 164.2 173.0 183.1 193.8 205.4 217.2 229.9			323.2	380.5	443.7	511.6	590.5	679.9	781.5	882.3	995.6	1,123.4	1.267.1
193 Trincomalec 68.0 72.8 77.4 81.8 86.7 92.0 97.7 103.5 109.7	1	18) Ja-Ela	120.7	135.1	150.0	164.9	181.8	200.1	220.1	239.6	260.8	283.9	309.0
201 Amporta 22.5 23.8 25.0 26.0 27.2 28.5 29.9 31.2 32.6 21.1 Batticalea 37.1 40.1 43.1 45.9 49.0 52.4 56.0 59.7 61.7 22.1 Kalmunai 17.0 17.9 18.6 19.3 20.1 20.9 21.8 22.8 23	VI.	EASTERN	144.6	154.5	164.2	173.0	183.1	193.8	205.4	217.2		243.3	257.6
217 Batticaloa 37.1 40.1 43.1 45.9 49.0 52.4 56.0 59.7 63.7		19) Trincomalee	68.0	72.8	77.4	81.8	86.7	92.0	97.7			116.4	123.5
22) Kalmunai 17,0 17,9 18,6 19,3 20,1 20,9 21,8 22,8 23,8		20) Ampara	22.5	23.8	25.0	26.0	27.2		29.9			34.1	35.6
VII. WESTERN-SOUTH 782 2 873.4 968.4 1.061.3 1.173.6 1.293.5 1.425.6 1.554.0 1.694.3 23) Ratmalana 287.2 330.0 375.5 422.7 476.5 536.1 602.2 665.6 735.4 24) Homagama 51.5 54.0 56.4 58.4 60.8 63.3 66.0 68.9 72.0 25) Sri Jaya'pura 264.6 298.8 334.6 370.8 411.8 456.7 505.9 553.5 605.5 26) Kalutara 29.1 30.6 31.9 33.1 34.4 35.8 37.4 39.0 40.8 27) Dehiwala 77.1 80.9 84.5 87.5 91.1 94.8 98.9 103.2 107.8 28) Awissawelle 15.0 36.8 38.4 39.7 41.4 43.1 44.9 46.9 49.0 29) Horana 37.6 42.3 47.2 52.1 57.6 63.7 70.3 76.8 83.8 <td></td> <td>21) Batticalea</td> <td>37.1</td> <td>40.1</td> <td>43.1</td> <td>45.9</td> <td>49.0</td> <td>52.4</td> <td>56.0</td> <td>.,</td> <td></td> <td>67.9</td> <td>72.5</td>		21) Batticalea	37.1	40.1	43.1	45.9	49.0	52.4	56.0	.,		67.9	72.5
23) Ratmalana 287.2 330.0 375.5 422.7 476.5 536.1 660.2 665.6 735.4 24) Homagama 51.5 54.0 56.4 58.4 60.8 63.3 66.0 68.9 72.0 25) Sri Jaya'pura 264.6 298.8 334.6 370.8 411.8 456.7 505.9 553.5 605.5 26) Kalutara 29.1 30.6 31.9 33.1 34.4 35.8 37.4 39.0 40.8 27) Dehiwala 77.1 80.9 84.5 87.5 91.1 94.8 98.9 103.2 107.8 28) Awissawelle 35.0 36.8 38.4 39.7 41.4 43.1 44.9 46.9 49.0 29) Horana 37.6 42.3 47.2 52.1 57.6 63.7 70.3 76.8 83.8 VIII. SOUTHERN 261.6 291.1 321.6 352.1 386.9 425.0 466.8 507.5 552.0 30) Galle 106.8 122.3 133.7 155.6 174.9 196.2 219.8 242.4 267.3 31) Ambalangoda 41.1 45.7 50.3 51.8 60.0 65.5 71.6 77.5 83.9 32) Hambantota 32.1 33.6 35.1 36.4 37.9 39.4 41.1 42.9 44.8 33) Matara 43.9 46.9 49.9 52.6 55.7 59.1 62.7 66.4 70.3 34) Weligama 37.7 42.6 47.6 52.7 58.4 64.7 71.6 78.3 85.6 IX. UVA 85.9 92.6 99.2 105.4 112.4 119.9 128.0 136.3 145.1 35) Badulla 45.1 48.2 51.1 53.9 570.0 60.3 63.9 67.6 71.6 36) Diyatalawa 40.8 44.4 48.0 51.5 55.4 59.6 64.1 68.6 73.5 X. SABARAGAMUWA 226.6 258.3 292.5 328.3 369.8 416.5 469.1 521.0 579.0 37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 80.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 97.5 XI. 40 COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 942.6 998.2		22) Kalmunai	17.0	17.9	- 18.6	19.3	20.1	20.9	21.8			24.9	26.0
241 Homagama 51.5 54.0 56.4 58.4 60.8 63.3 66.0 68.9 72.0	VII.	WESTERN-SOUTH	782.2	873.4	968.4	1,064.3	1,173.6					1,848.1	2,016.0
253 Sri Jaya'pura 264.6 298.8 334.6 370.8 411.8 456.7 505.9 553.5 605.5 265 Kalutara 29.1 30.6 31.9 33.1 34.4 35.8 37.4 39.0 40.8 277 Dehiwala 77.1 80.9 84.5 87.5 91.1 94.8 98.9 103.2 107.8 283 Awissawelle 35.0 36.8 38.4 39.7 41.4 43.1 44.9 46.9 49.0 299 Horana 37.6 42.3 47.2 52.1 57.6 63.7 70.3 76.8 83.8 VIII. SOUTHERN 261.6 291.1 321.6 352.1 386.9 425.0 466.8 507.5 552.0 30] Galle 106.8 122.3 138.7 155.6 174.9 196.2 219.8 242.4 267.3 31) Ambalangoda 41.1 45.7 50.3 54.8 60.0 65.5 71.6 77.5 83.9 32) Hambantota 32.1 33.6 35.1 36.4 37.9 39.4 41.1 42.9 44.8 33) Malara 43.9 46.9 49.9 52.6 55.7 59.1 62.7 66.4 70.3 34) Weligama 37.7 42.6 47.6 52.7 58.4 64.7 71.6 78.3 85.6 IX UVA 85.9 92.6 99.2 105.4 112.4 119.9 128.0 136.3 145.1 35) Badulla 45.1 48.2 51.1 53.9 57.0 60.3 63.9 67.6 71.6 37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 81.2 85.1 89.2 93.3 97.5 XI. 40 COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 942.6 998.2		23) Ratmalana	287.2	330.0	375.5	422.7						812.5	897.4
26 Kalutara 29.1 30.6 31.9 33.1 34.4 35.8 37.4 39.0 40.8		24) Homagama	51.5	54.0	56.4		60.8					75.2	78.6
27) Dehiwala 77.1 80.9 84.5 87.5 91.1 94.8 98.9 103.2 107.8 28) Awissawelle 35.0 36.8 38.4 39.7 41.4 43.1 44.9 46.9 49.0 29) Horana 37.6 42.3 47.2 52.1 57.6 63.7 70.3 76.8 83.8 VIII SOUTHERN 261.6 291.1 321.6 352.1 386.9 425.0 466.8 507.5 552.0 30) Galle 106.8 122.3 138.7 155.6 174.9 196.2 219.8 242.4 267.3 31) Ambalangoda 41.1 45.7 50.3 54.8 60.0 65.5 71.6 77.5 83.9 32) Hambantota 32.1 33.6 35.1 36.4 37.9 39.4 41.1 42.9 44.8 33) Matara 43.9 46.9 49.9 52.6 55.7 59.1 62.7 66.4 70.3 34) Weligama 37.7 42.6 47.6 52.7 58.4 64.7 71.6 78.3 85.6 IX. UVA 85.9 92.6 99.2 105.4 112.4 119.9 128.0 136.3 145.1 35) Bodulla 45.1 48.2 51.1 53.9 57.0 60.3 63.9 67.6 71.6 36) Diyatalawa 40.8 44.4 48.0 51.5 55.4 59.6 64.1 68.6 73.5 X. SABARAGAMUWA 226.6 258.3 292.5 328.3 369.8 416.5 469.1 521.0 579.0 37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 59.2 93.3 97.5 XI. 40) COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 942.6 998.2		25) Sri Jaya'pura	264.6	298.8	334.6	370.8						662.4	724.4
28 Awissawelle 35.0 36.8 38.4 39.7 41.4 43.1 44.9 46.9 49.0		26) Kalutara	29.1	30.6	31.9		,					42.6	44.5
29 Horana 37.6 42.3 47.2 52.1 57.6 63.7 70.3 76.8 83.8 VIII SOUTHERN 261.6 291.1 321.6 352.1 386.9 425.0 466.8 507.5 552.0 30 Galle 106.8 122.3 138.7 155.6 174.9 196.2 219.8 242.4 267.3 31) Ambalangoda 41.1 45.7 50.3 54.8 60.0 65.5 71.6 77.5 83.9 32) Hambantota 32.1 33.6 35.1 36.4 37.9 39.4 41.1 42.9 44.8 33) Matara 43.9 46.9 49.9 52.6 55.7 59.1 62.7 66.4 70.3 34) Weligama 37.7 42.6 47.6 52.7 58.4 64.7 71.6 78.3 85.6 X. UVA 85.9 92.6 99.2 105.4 112.4 119.9 128.0 136.3 145.1 35) Badulla 45.1 48.2 51.1 53.9 57.0 60.3 63.9 67.6 71.6 36) Diyatalawa 40.8 44.4 48.0 51.5 55.4 59.6 64.1 68.6 73.5 X. SABARAGAMUWA 226.6 258.3 292.5 328.3 369.8 416.5 469.1 521.0 579.0 37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 97.5 XI. 40) COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 947.6 998.2		27) Dehiwala	77.I	80.9	84.5	87.5					212, 9	132.7	117.8
VIII SOUTHERN 261.6 291.1 321.6 352.1 386.9 425.0 466.8 507.5 552.0 30) Galle 106.8 122.3 138.7 155.6 174.9 196.2 219.8 242.4 267.3 31) Ambalangoda 41.1 45.7 50.3 54.8 60.0 65.5 71.6 77.5 83.9 32) Hambantota 32.1 33.6 35.1 36.4 37.9 39.4 41.1 42.9 44.8 33) Matara 43.9 46.9 49.9 52.6 55.7 59.1 62.7 66.4 70.3 34) Weligama 37.7 42.6 47.6 52.7 58.4 64.7 71.6 78.3 85.6 IX. UVA 85.9 92.6 99.2 105.4 112.4 119.9 128.0 136.3 145.1 35) Badulla 45.1 48.2 51.1 53.9 57.0 <td< td=""><td></td><td>28) Awissawelle</td><td>35.0</td><td>1,</td><td></td><td></td><td></td><td>2.1 3. 10 22 41.2</td><td></td><td></td><td></td><td>51.2</td><td>53.5</td></td<>		28) Awissawelle	35.0	1,				2.1 3. 10 22 41.2				51.2	53.5
301 Galle 106.8 122.3 138.7 155.6 174.9 196.2 219.8 242.4 267.3 313												91.4	99.8
31) Ambalangoda 41.1 45.7 50.3 54.8 60.0 65.5 71.6 77.5 83.9 32) Hambantota 32.1 33.6 35.1 36.4 37.9 39.4 41.1 42.9 44.8 33) Matara 43.9 46.9 49.9 52.6 55.7 59.1 62.7 66.4 70.3 34) Weligama 37.7 42.6 47.6 52.7 58.4 64.7 71.6 78.3 85.6 IX. UVA 85.9 92.6 99.2 105.4 112.4 119.9 128.0 136.3 145.1 35) Badulia 45.1 48.2 51.1 53.9 57.0 60.3 63.9 67.6 71.6 36) Diyatalawa 40.8 44.4 48.0 51.5 55.4 59.6 64.1 68.6 73.5 X. SABARAGAMUWA 226.6 258.3 292.5 328.3 369.8 416.5 469.1 521.0 579.0 37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 97.5 XI. 40) COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 947.6 998.2	VBL												
32) Hambantota 32.1 33.6 35.1 36.4 37.9 39.4 41.1 42.9 44.8 33.9 Matara 43.9 46.9 49.9 52.6 55.7 59.1 62.7 66.4 70.3 34) Weligama 37.7 42.6 47.6 52.7 58.4 64.7 71.6 78.3 85.6 IX. UVA 85.9 92.6 99.2 105.4 112.4 119.9 128.0 136.3 145.1 35) Badulia 45.1 48.2 51.1 53.9 57.0 60.3 63.9 67.6 71.6 36) Diyatalawa 40.8 44.4 48.0 51.5 55.4 59.6 64.1 68.6 73.5 X. SABARAGAMUWA 226.6 258.3 292.5 328.3 369.8 416.5 469.1 521.0 579.0 37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 92.5 XI. 40) COLOMBO CITY 62.1 670.0 711.6 749.8 793.5 840.2 890.4 947.6 998.2							1					294.7	324.8
33) Malara 43.9 46.9 49.9 52.6 55.7 59.1 62.7 66.4 70.3 34) Weligama 37.7 42.6 47.6 52.7 58.4 64.7 71.6 78.3 85.6 X. UVA 85.9 92.6 99.2 105.4 112.4 119.9 128.0 136.3 145.1 35) Badulla 45.1 48.2 51.1 53.9 57.0 60.3 63.9 67.6 71.6 36) Diyatalawa 40.8 44.4 48.0 51.5 55.4 59.6 64.1 68.6 73.5 X. SABARAGAMUWA 226.6 258.3 292.5 328.3 369.8 416.5 469.1 521.0 579.0 37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangeda/Ratnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 92.5 XI. 40) COLOMBO CITY 627.1 670.0 711.6 749.8 193.5 840.2 890.4 947.6 998.2													98.4
34) Weligama 37.7 42.6 47.6 52.7 58.4 64.7 71.6 78.3 85.6													49.0
IX. UVA 85.9 92.6 99.2 105.4 112.4 119.9 128.0 136.3 145.1 35.1 35.1 Badulla 45.1 48.2 51.1 53.9 57.0 60.3 63.9 67.6 71.6 36.1 Diyatalawa 40.8 44.4 48.0 51.5 55.4 59.6 64.1 68.6 73.5	.											74.6 93.6	79.0 102.2
35) Baduila 45.1 48.2 51.1 53.9 57.0 60.3 63.9 67.6 71.6 36) Diyatalawa 40.8 44.4 48.0 51.5 55.4 59.6 64.1 68.6 73.5 X. SABARAGAMUWA 226.6 258.3 292.5 328.3 369.8 416.5 469.1 521.0 579.0 37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 97.5 XI. 40 COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 947.6 998.2	 				-							93.0 154.6	
36) Diyatalawa 40.8 44.4 48.0 51.5 55.4 59.6 64.1 68.6 73.5	!X.							·					
X. SABARAGAMUWA 226.6 258.3 292.5 328.3 369.8 416.5 469.1 521.0 579.0 37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 97.5 XI. 40) COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 947.6 998.2												78.8	
37) Kegalle 112.5 131.3 151.7 173.3 198.1 226.1 257.4 287.9 321.8 38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 97.5 XI. 40) COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 947.6 998.2													
38) Balangoda/Ratnapura 47.4 56.4 66.5 77.5 90.5 105.4 122.5 139.9 159.7 39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 97.5 XI. 40) COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 947.6 998.2	X						1						1
39) Kahawatta 66.7 70.6 74.3 77.5 81.2 85.1 89.2 93.3 97.5 XI. 40) COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 942.6 998.2							1					182.3	
XI. 40) COLOMBO CITY 627.1 670.0 711.6 749.8 793.5 840.2 890.4 942.6 998.2												102.0	
71: 10/(cose1100 et 1	J											1,057.5	
TOTAL 3,564.8 3,946.0 4,341.0 4,775.0 5,252.0 5,777.0 6,355.0 6,927.0 7,550.0	X1.			1									1

National Enrgy Sales Demand 3.587.0 3.946.0 4.341.0 4.775.0 5.252.0 5.777.0 6.355.0 6.927.0 7.550.0 8.230.0 8.971.0 Remarks: Difference of total energy sales in the base year is caused by private generation (22.2GWh).

Table 4.4.2 - 5 Energy Demand Forecast by Area after Adjustment (2/2)

		т			T	,	,			γ	,	,
1	Sales Energy					1		İ	İ		ľ	
İ	(GWh	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
—	Provinces/Area							ļ		ļ		
ļ <u>!</u>	NORTH CENTRAL D) Anuradhapura	249.8	271.9	1			379.4	1		1	524.9	568.5
	2) Minneriya	153.0 96.8	166.7			1			275.0	1	323.5	350.6
ii.	NORTHERN	244.6	105.2 265.5	·	124.1	134.7	146.2		171.8	1	201.4	217.9
 	3) Jaffna	200.2			306.6			360.4	380.0	1	421.6	443.7
.	4) Kilinechchi	41.4	216.9 48.5	1	249.2	263.2 60.6	277,7	293.0	308.9		342.7	360.6
111.	CENTRAL	635.4	674.0			1	i	·	71.1	1	78.9	83.1
1	5) Nortonbridge	101.0	108.7		T		855.5	T	963.8		1.084.7	1,150.3
1	6) Kandy	166.9	174.4		190.3	199.0		135.5 217.4	141.5 227.0		154.0	160.5
l	7) Nuwara Eliya	117.3	122.6		133.8	139.9	146.3	152.8	159.6		247.1 173.7	257.6
	8) Matale	117.9	128.3	139.6	151.8	165.0	179.2	194.5	211.1	166.5 228.8	248.0	181.0
İ	9) Kundasale	129.1	139.9	151.6	164.1	177.7	192.3	207.9	224.7	242.7		268.6
iv.	NORTH WESTERN	889.8	984.0	1,088.1	1,203,0	1,329.3	1,468.7	1,622.4	1,791.8	1,978.7	262.0 2,184.5	282.6
1	10) Kurunegala	146.3	158,4	171.4	185.4	200.5	216.8	234.2	252,9		294.3	2.411.6
1	II) Wennappuwa	157.1	172.8	190.0	208.8	229.1	251.3	275.5	301.9		361.8	317.2 395.8
1	12) Chilaw	325.9	355.9	388.5	423.9	462.2	503.6	548.5	597.0	1	706.1	767.2
	13) Kuliyapitiya	260.5	296.9	338.2	384.9	437.5	496.9	564.1	640.0		822.4	931.4
v.	WESTERN-NORTH	2,416.0	2,670.3	2,951.5	3,262.4	3,605.1	3,983.6	4,401.4	4,862.5	5.371.2	5,932.3	6,551.4
	14) Gampaha	150.8	162.6	175.2	188.7	203.2	218.8	235.4	253.1	272.0	292.2	313.6
	15) Veyangoda	114.1	122.1	130.7	139.6	149.4	159.8	170.8	182.5	194.8	207.9	221.7
	16) Negombo	386.6	410.9	435.7	463.9	493.6	524.8	557.8	592.5	628.9	667.2	707.5
	17) Kelaniya	1,428.3	1,609.1	1,811.7	2,038.6	2,290.1	2,571.4	2,885.4	3,236.0	3,627.1	4,062.9	4,548.7
	18) Ja-Ela	336.1	365.5	397.3	431.7	468.8	508.8	551.9	598.4	648.4	702.1	759.9
VI.	EASTERN	272.7	288.5	305.3	322.9	342.1	362.3	383.4	405.6	428.9	453.2	478.6
	19) Trincomatee	131.0	138.9	147.3	156.1	165.7	175.8	186.5	197.6	209.3	221.6	234.5
	20) Ampora	37.2	38.9	40.6	42.4	41,4	46.4	48.5	50.6	52.8	55.1	57.4
	21) Batticaloa	77.3	82,4	87.7	93.4	99.6	106.2	113.1	120.4	128.1	136.3	144.8
<u>L</u>	22) Kalmunai	27.2	28.4	29.6	31.0	32.4	33.9	35,4	36.9	38.5	40.2	41.9
VII.	WESTERN-SOUTH	2,198.9	2,398.3	2,615.2	2,851.2	3,107.1	3,384.8	3,686.2	4.013.0	4,367.3	4,750.9	5,166.5
	23) Ratmalana	990.6	1,092.9	1,205.1	1,328.1	1,461.6	1,607.8	1,767.5	1,942.0	2,132.4	2,340.1	2,566.7
	24) Homagama	82.1	85.8	89.6	93.6	97.9	102.4	107.0	113.7	116.6	121.6	126.7
	25) Sri Jaya'pura	792.0	865.4	945.1	1,031.7	1,125.4	1,226.9	1,336.9	1,455.8	1,584.4	1,723.3	1,873,4
	26) Kalutara	46.5	48.6	50.8	53.0	55.5	58.0	60.6	63.2	66.0	63.8	71.8
!	27) Dehiwala	123.1	128.6	134.3	140.3	146.7	153.4	160.3	167.4	174,6	182.1	189.9
	28) Awissawelle	55.9	58.4	61.0	63.7	66.7	69.7	72.8	76.0	79.3	82.7	86.3
	29) Horana	8.801	118.6	129.2	140.8	153.2	166.7	181.2	196.9	213.9	232.1	251.8
VIII	SOUTHERN	711.0	773.5	841.3	914.9	994.7	1.081.1	1,174.5	1,275.6	1,384.8	1,502.7	1,630.2
	30) Galle	357.8	394.0	433.6	476.9	523.9	575.3	631.3	692.3	758.8	831.2	910.0
	31) Ambalangoda	106.5	115.3	124.7	134.8	145.8	157.5	170.1	183.5	198.0	213.4	229.9
	32) Hambantota	5,1,2	53.5	55.8	58.3	61.0	63.8	66.6	69.6	72.6	75.7	78.9
	33) Matara	83.8	88.8	94.1	99.7	105.8	112.2	118.9	125.9	133.3	141.1	149.2
	34) Weligama	111.7	121.9	133.1	145.1	158.2	172.3	187.7	204.2	222.1	241.4	262.2
IX.	UVA	175.5	186.9	199.0	211.9	225.8	240.5	256.0	272.4	289.6	307.8	326.9
	35) Badulla	85.1	90.1	95.5	101.1	107.1	113.5	120.2	127.3	134.6	142.3	150.4
, 	36) Diyatalawa	90.4	96.8	103.6	110.8	118.7	127.0	135.8	145.1	155.0	165.5	176.6
	SABARAGAMUWA	797.3	887.5	987.9	1,099.9	1,223.7	1,361.5	1,514.8	1,685.2	1,874.6	2,085,0	2,318.9
	37) Kegalle	448.7	500.7	558.4	622.4	692.6	770.3	856.2	951.1	1,055.9	1,171.5	1,299.2
	38) Balangoda/Ratnapura	237.1	270.2	307.8	350.3	398.1	452.2	513.4	582.5	660.5	748.4	847.7
	39) Kahawatta 40) COŁOMBO CITY	111.5	116.5	121.7	127.1	133.0	139.0	145.2	151.6	158.3	165.0	172.0
Δ1:	TOTAL	1,187.1	1,257.5	1,331.8	1,410.2	1,495.4	1.585.0	1,678.9	1,777.3	1,880.5	1,988.4	2,101.4
	IOIVE	9.778.0	0.858.0	11,617.0	12,663.0	13,802.0	15,044.0	16,398.0	17,874.0	19,483.0	21,236.0	23,148.0

National Energy Sales Demand 9,778.0 10,658.0 11,617.0 12,663.0 13,802.0 15,044.0 16,398.0 17,874.0 19,483.0 21,236.0 23,148.0



Table 4.4.2 - 6 Annual Increse Rate of Energy Demand after Adjustment (1/2)

	Annual Increase Rate (%)	Calcited Increase	Basic Increase	1995	1996	1997	1998	1999	2000	2001	2002	2003	200
	Provinces/Area	Rate	Rate			1							
	NORTH CENTRAL	9.71											
	Anuradhaputa	10.24		12.24	11.31	10.20	10.47	10.33	10.24	9.02	9.00	9.01	8
	2) Minneriya	9.88		11.88	10.97	9.88	10.16	10.03	9.96	8.81	8.80	8.81	. 8
	NORTHERN												
	3) Jaffna						55.10	40.20	29.83	22.64	17.51	13.94	11
	4) Kilinochchi	•		8.98	8.08	44.42	45.10	33.19	24,92	19.20	15.10	12.26	30
 I.	CENTRAL	4.87	1										
<u>. </u>	5) Nortonbridge	3.99		5.94	5.26	4.38	4.79	4.80	4,85	4.56	4.58	4.61	
	6) Kandy	3.94		5.89	5.21	4.34	4.76	4.77	4.82	4.56	4.58	4.61	
	1	2.89		4.94	4.36	3.58	4.07	4.15	4.27	4.42	4.45	4.50	
!	7) Nuwara Eliya		. ,,	12.13	11.20	10.10	10.36	10.23	10.15	8.95	8.94	8.94	
	8) Matale	10.12 9.28		11.28	10.40	9.34	9.64	9.53	9.48	8.46	8.46	8,47	
	9) Kundasale			11.40	10.40		7.04	3.33	3,40		0,10	<u> </u>	
<u>.</u>	NORTH WESTERN	10.16		11.07	10.30	0.15	0.46	9.36	9.31	8.35	8.34	8.35	ļ;
	10) Kurunegala	9.07		11.07	10.20	9.15	9.46			10.18	10.15	10.15	1
	11) Wennappuwa	12.27		14.29	13.25	12.03	12.22	12.01	11.86				
	12) Chilaw	10.83		12.84	11.87	10.73	10.97	10.81	10.71	9.35	9.34	9,34	
	13) Kuliyapitiya	20.01		19.07	17.91	16.58	16.72	16.45	16.25	14.19	14.16	14.14	1
	WESTERN-NORTH	9.09										7.01	
	14) Gampaha	8.20		10.19	9.37	8.37	8.70	8.64	8.62	7.84	7.84	7.86	
	15) Veyangoda	6.81		8.78	8.04	7.11	7.50	7.48	7.51	7.01	7.05	7.08	
	16) Negombo	5.58		7.54	6.87	6.00	6.43	6.46	6.53	6.33	6.35	6.29	
	17) Kelaniya	17.40		17.76	16.60	15.29	15,42	15.15	14.95	12.89	12.85	12.83	1
	18) Ja-Ela	9.95		11.96	11.04	9.95	10.22	10.09	10.02	8.85	8.84	8.85	
i.	EASTERN	4.19											ļ
	19) Trincomalee	5.12		7.08	6.44	5.59	6.04	6.08	6.16	5.98	6.02	6.06	
	20) Ampara	3.76		5.71	5.05	4.20	4.62	4.65	4.72	4.53	4.55	4.50	
	21) Batticaloa	6.09		8.05	7.35	6.46	6.87	6.88	6.93	6.62	6.64	6.67	
	22) Kalmunai	1.74		4.94	4.36	3.58	4.07	4.15	4.27	4.42	4.45	4.50	
][.	WESTERN-SOUTH	6.13											
	23) Ratmalana	12.86		14.89	13.81	12.56	12.73	12.50	12.33	10.52	10.49	10.48	1
	24) Homagama	1.04		4.94	4.36	3.58	4.07	4.15	4.27	4.42	4.45	4.50	
	25) Sri Jaya'pura	10.93		12.94	11.97	10.82	11.06	10.89	10.79	9.41	9.39	9.39	
		-4.39		4.94	4.36	3.58	4.07	4.15	4.27	4,42	4.45	4.50	
	26) Kalutara	1		4,94	4.36	3.58	4.07	4.15	4.27	4.42	4.45	4.50	
	27) Dehiwala	0.89	} · · · ·					4.15	4.27	4.42	4.45	4.50	
	28) Awissawelle	0.43		4.94	4.36	3.58 10.41	4.07 10.66	10.51	10.42	9.14	9.13	9.14	ļ
	29) Horana	10.47		12.47	11.53	10.41	10.00	10/21	10.42	7.14	2.1.3	7:17	
111.	SOUTHERN	7.37		1111	13.43	12.21	13 20	12.17	12.01	10.29	10.27	10.26	1
	30) Galle	12.46		14.49	13.43	12.21	12.39			8.29	8.29	8.30	
	31) Ambalangoda	8.97	1 1	10.97	10.10		9.37	9.28	9,23		4.45	4.50	
	32) Hambantota	2.70		4.94	4.36	3.58	4.07	4.15	4.27	4.42	5.96		1
	33) Matara	5.01		6.97	6.33	5.49	5,91	5.99		5.92			
	34) Weligama	10.77	 	12.78	11.82	10.68	10.92	10.76	63.01	9.32	9.30	9.30	
ζ.	UVA	5.64	r · · · · · ·		l								
	35) Badulla	4.84		6.80		5.34	5.80		5.94	5.84	5.88	5.92	
	36) Diyatalawa	6.91		8.88	8.14	7.20	7.58	7.56	7.58	7.09	7.11	7.13	
	SABARAGAMUWA	17.38				<u></u>			ļ			L	\vdash
	37) Kegaile	15.27	<u> </u>	16.69	15.54	14.23	14.36	14.09	13.88	11.82			
	38) Balangoda/Ratnapura	1		19.07	17.91	16.58	16.72	16.45	16.25	14.19	14.16	14.14	1
	39) Kahawatta	3.94		5.89	5.21	4.34	4.76	4.77	4.82	4.56	4.58	4.61	<u> </u>
 }.	40) COLOMBO CITY	4.88		6.84	6.20		5.83			5.86	5.90	5.94	
<u>:</u>	TOTAL	6.30		10.69		10.00				9.00		T .	

Table 4.4.2 - 6 Annual Increse Rate of Energy Demand after Adjustment (2/2)

	Annual Increase Rate		1	 	1	ı	Γ	I	T	l	.	
	(%)	l .	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	Provinces/Area	<u></u>	<u> </u>									
1	NORTH CENTRAL											
	1) Anuradhapura	8.94	8.90	8.85	8.80	8,74	8.68	8.62	8.56	8.49	8.43	8.37
ļ	2) Minneriya	8.74	8.70	8.65		8.56	8.50	1		8.31	1	8.19
<u> </u>	NORTHERN											
	3) Jaffaa	9.61	8.39	7.49	6.86	5.60	5.54	5.48	5.42	5.36	5.30	5.24
<u> </u>	4) Kilinochchi	9.76	9.32	8.91	8.54	5.60	5.54	5.48	5.42	5.36	5.30	5.24
111.	CENTRAL				 			ļ				
	5) Nortonbridge	4.50	4.49	4.46	4.41	4.60	4.54	4.48	4.42	4.36	4.29	4.24
	6) Kandy	4.50	4.49	4.45	4.44	4.60	4.54	4.48	4.42	4.36	4.29	4.24
	7) Nuwara Eliya	4.50	4.49	4.46		4.60	4.54	4.48	4,42	4.36	4,29	4.24
	8) Matale	8.83	8.83	8.78	8.73	8.68	8.62	8.56	8.50	8,43	8.37	8.31
	9) Kundasate	8.41	8.38	8.33	8.28	8.26	8.20	8.14	8.07	8.01	7.91	7.89
IV.	NORTH WESTERN							ļ		·	<u> </u>	
	10) Kurunegala	8.30	8.27	8.22		8.16	8.10		7.97	7.91	7.84	7.79
	11) Wennappowa	10.06	10.00	9.94	9.88	9.76	9.70	1	9.57	9.51	9.41	9.38
	12) Chitaw	9.26	9.22	91.6	1 1	9.03	8.97		8.85	8.78	8.72	8.66
	13) Kufiyapitiya	14.03	13.97	13.90	13.83	13.65	13.59	13.52	13,46	13.39	13.32	13.26
<u>v.</u>	WESTERN-NORTH						·					
	14) Gampaha	7.82	7.79	7,74	7.70	7.71	7.66	1	7.53	7.47	7.40	7.35
	15) Veyangoda	7.05	7.02	6.98	6.85	7.01	6.95	6.89	6.83	6.77	6.70	6.64
	16) Negombo 17) Kelaniya	6.30	6.29	6.26	6.23	6.40	6.34	6.28	6.22	6.15	6.09	6.03
	18) Ja-Ela	12.72	12.66	12.59	12.52	12.34	12.28	12.21	12,15	12.09	12.02	11.96
VI.	EASTERN	8.79	8.75	8.69	8.64	8.60	8.54	8.48	8.41	8.35	8.29	8.23
	19) Trincomalee	6.07	6.06	6.03	6.00	£ 12	6.11	6.05	5.00			
	20) Ampara	4.50	4.49	4.46	4.44	4.60	4.54	6.05 4.48	5.99 4.42	5.92	5.86	5.80 4.24
	21) Batticaloà	6.65	6.54	6.51	6.49	6.65	6.59	6.53	6.47	4.36 6.41	4.29 6.34	6.28
	22) Kalmunai	4.50	4.49	4.46	4.44	4.60	4.54	4.48	4.42	4.36	4.29	4.24
VII.	WESTERN-SOUTH	1.50	1.17	4.40	7.11		4.54	7.70	4.42	4.50	4.25	
	23) Ratmalana	10.39	10.33	10.26	10.20	10.06	10.00	9.93	9.87	9.81	9.74	9.68
	24) Homagama	4.50	4.49	4.46	4,44	4.60	4.54	4.48	4.42	4.36	4.29	4.24
	25) Sri Jaya'pura	9.32	9.27	9.21	9.16	9.08	9.02	8.96	8.90	8.83	8.77	8.71
	26) Kalutara	4.50	4.49	4.46	4.44	4.60	4.54	4.48	4,42	4.36	4.29	4.24
	27) Dehiwala	4.50	4.49	4.46	4.44	4.60	4.54	4.48	4.42	4.36	4.29	4.24
	28) Awissawelle	4.50	4.49	4.46	4.44	4.60	4.54	4.48	4.42	4.36	4.29	4.24
	29) Horana	9.06	9.02	8.97	19.8	8.85	8.79	8.73	8.67	8.60	8.54	8.48
VIII.	SOUTHERN											-
	30) Galle	10.17	10.11	10.05	9.99	9.86	9.80	9.73	9.67	9.61	9.54	9.48
	31) Ambalangoda	8 25	8.21	8.16	8,12	8.11	8.05	7.99	7.92	7.86	7.79	7.74
	32) Hambantota	4.50	4.49	4.46	4,44	4.60	4.54	4.48	4.42	4.36	4.29	4.24
	33) Matara	6.01	5.99	5.97	5.94	6.11	6.05	5.99	5.93	5.86	5.80	5.74
	34) Weligama	9.23	9.19	9.13	9.08	9.00	8.94	8.88	8.82	8.75	8.69	8.63
IX.	UVA											
	35) Badulla	5.93	5.91	5.89	5.86	6.02	5.97	5.91	5.84	5.78	5.72	5.66
	36) Diyatalawa	7.10	7.08	7.04	7.00	7.06	7.00	6.94	6.88	6.82	6.75	6.69
Χ.	SABARAGAMUWA											
	37) Kegalle	11.66	11.60	11.52	11.46	11.27	11.21	11.15	11.09	11.02	10.95	10.89
	38) Balangoda/Ratnapura	14.03	13.97	13.90	13.83	13.65	13.59	13.52	13.46	13.39	13.32	13.26
	39) Kahawatta	4.50	4.49	4.46	4,44	4.60	4.54	4.48	4.42	4.36	4.29	4.24
XI.	40) COLOMBO CITY	5.95	5.93	5.91	5.88	6.05	5.99	5.93	5.86	5.80	5.74	5.68
	TOTAL	9.00	9.00	9.00	9.00	8.99	9.00	9.00	9.00	9.00	9.00	9.00







*

Table 4.4.2.7 Load of Each Grid Substation at the Time of System Peak and Monthly Sentout Energy from Grid Substation in 1995

Common Value Name		Name of	Transfermer	winer.			á	mand th	Demand on Nov. 24%5	* When	MBX Pca	Peak Was Q	يوديه والم	-			ŀ	1	}	Į	Ş.	٦L		ž	ŀ	ŀ	ŀ		₹. Т	₫`
According Acco	Name of Substation	Ave.	Ratto	Į.		Demand	(1-Or)		Day Pesk	(00)	Н		Vight Pea	(19:01)		25 AB				_	_	_	_		_	_	_		, د	3
Activation of Market 13731 237			5	40	Š	MVAP	1	ş	MVAH	3	-	-	L	¢	•	_	_	_	5	٥	۲	Ü	릭	4	(A.W.)	E SANT	3	٦		٠,
March Marc	Niverb Course			ş	1	2	3		=	÷	1		-	1.5	3	Ĺ	1 45			L	14 14.74	14.5	П		15 tree	No. 12 428	()	17.41	<u>.</u>	Ţ
National State 1973 1974	100	American	L	۶	Ļ	ĉ	3	ı	1	3	Š	9	L	ı	Ļ			H	Ĺ		4.7	N K				400 0 MOV	₹.	æ	- 1	3
Columnication Miles Mile	The Property of	Minner of	1	5	1	100	3	1	1	6	99	5		1	İ.			7				1_	•		314 K.	25 6,250		1	7	ΞI
Controller Control C	divisions.			Ę	Ê	2		ŀ	ı	-		ê	 0 0			Ľ)	-		Ð	Ö	€	0	€	Ţ	0	=	Ċ.	-	J
Charactery Cha	- 3) Chunnakam	Jacons	13233	2	3	l		ā	l	ľ		0.0	nο						***************************************				***************************************		3	₹,	0	0	-	1
Marche 1207 150	4) Kniwochchi	Kilinerhehi	13273	£	ê			0.0				0.0	υü							_	_			-	٥	إ	_			Ţ
Charactering Marche 17073 V. 1. V. 1	THE STATE OF THE S		L	- X		ľ.)	L		Ш	××	KS.X	1013	11	7 7	5	40,02		Ц			_		_{1}	1	70 41.4	30.14	42 drx	₹	ž	ĵij.
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	- Mariana																													

Sold energy: Sales and Generation Data Books, 1994 Others: Monthly Review Reports, Dec. 1994 to Nov., 1995

(Sentout Energy from Koloniuwa) = (Kokonawa) = (Sub-A) + (Sub-B) + (Sub-B)?

(Sentout Energy from Kelantiista) = (Sub-C) + (Sub-D)2 + (Sub-B)

Sentout from the Nitamin is not counted in the promoral total of sentout energy.

Sentout energy from the Utal Walawe PPS is not counted at the provincial total of sentout energy.

Sentout energy from the Utal Walawe PPS is not counted at the provincial total of sentout energy.

Sentout energy from Balangeda Cod Subration includes energy sent from the Uda Walawe measured at Panapulya and ODSS Gnd Subration includes.

Generated energy, station use and sold energy from Jan. to Dec. of 1995 are not final ones. Ç

Load Factor At Power Stations (4)

Table 4.4.2 • 8 Sentout Energy Demand Forecast at Grid Substation by Area (1/2)

		Sales Energy	Base	T	T	T	T	T		T	Τ	T	T
Provinces		(GWh)	Year's	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
	C£	B's Areas	E.Sale								İ	!	
Traansmiss	ion I	osses in %		7.0	6.7	6.4	6.1	5.8	5.50	5.2	5.00	4.7	4.5
Distributio	n Los	sses in %		10.5	10.1	9.8	9.4.	9.10	8.75	8.40	31.8	7.80	7.5
LNorth))	Anuradhapura	53.8	68.	75.	4 82.	7 91.0	99.	109.7	119.0	129.	140,4	152.
Central	2)	Minneriya	34.9	44.	48.	53.3	2 58.	63.9	70.0	75.8	82.2	89.	96.
II.Northern	3)	Jaffna	0.0	0.0	0.0	39.5	5 60.	85.	110.0	134.3	157.3	178.	198.
	4)	Kilinochchi	5,8	7.	7.	7 11.0	15.9	21.1	26.3	31.2	35.7	40.0	43.9
III.Central	5)	Nortonbridge	62.1	74.	77.	80.3	7 84.3	2 87.8	91.7	95.4	99.4	103.7	108.0
	6)	Kandy	99.8	119.7	124.5	129.6	135.2	141.0	147.1	153.2	159.6	166.3	173.
	22	Nuwara Eliya	73.5	87.0	90.4	93.2	96.	100.1	103.9	108.0	112.4	117.0	121.9
	8)	Matale	41.8	52.8	58.5	64.1	70.4	77.3	84.8	91.9	99.8	108.3	117.
	9)	Kundasate	48.7	61.1	67.2	73.1	79.8	87.0	94.8	102,4	110.7	119.6	129.
IV.North	10)		56.1	70.2	77,0	83.7	91.2	99.3	108.0	116.5	125.8	135.8	146.6
Western	1	Wennappuwa	47.6	61.3	69.1	77.0	85.0	96.0	106.9	117.2	128.7	141.2	154.5
		Chilaw	109.7	139.5	155.3	171.2	189.2	208.7	230.0	250.4	272.8	297.2	323.0
		Kuliyapitiya	52.0	69.9	82.0	95.1	110.5	128.2	148.3	168.6	191.8	218.1	247.9
V.Western	ľ	Gampaha	61.7	76.7	83.5	90.0	97.4	105.4	114.0	122.4	131.5	141.3	151.8
North	15)	Veyangoda	51.9	63.6	68.4	73.0	78.1	83.6	89.4	95.3	101.7	108.4	115.7
		Negombo	193.6	234.7	249.6	263.4	279_1	295.8	313.7	332.1	351.9	372.7	394.7
	17)	Kelaniya	323.2	429,0	497.9	571.4	656.5	752.6	861.3	968,1	1,038.4	1,223.6	1.375.0
	18)	Ja-Ela	120.7	152.3	168.3	184.2	202.1	221.5	242.6	262.9	285.1	309.2	335.3
VI.Eastern	19)	Trincomalee	68.0	82.0	86.9	91.3	96.4	101.8	107.6	113.6	120.0	126.8	134.0
	20)		22.5	26.8	28.0	29.1	30.3	31.6	32.9	34.2	35.7	37.1	38.7
	21)		37.1	45.2	48.3	51.2	54.5	58.0	61.7	65.5	69.6	74.0	78.7
		Kalmunai	17.0	20.1	20.9	21.6	22.3	23.2	24,1	25.0	26.0	27.1	28.2
VII.Westeri	23)	Ratmalana	287.2	372.0	421.4	472.2	529.9	593.4	663.6	730.3	804.0	885.0	973.9
South	24)	Homagama	51.5	60.9	63.3	65.2	67.6	70.1	72.7	75.6	78.7	81.9	85.3
	25)	Sri Jaya'pura	264.6	336.9	375.4	414.2	457.9	505.5	557.6	607.4	662.0	721.5	786.2
	26)	Kalutara	29.1	34.5	35.8	36.9	38.3	39.7	41.2	42.8	44.6	46.4	48.3
		Dehiwała	77.1	91.2	94.8	97.7	101.2	105.0	109.0	113.3	117.9	122,7	127.8
		Awissawelle	35.0	41.4	43.t	44.4	46.0	47.7	49.5	51.5	53.6	55.8	58.1
		Horana	37.6	47.7	52.9	58.2	64.1	70.5	77.5	84.2	91.6	99.6	108.3
VIII.Southe			8.601	137.8	155.6	173.8	194.5	217.2	242.2	266.0	292.2	321.0	352.5
		Ambalangoda	41.1	51.5		61.2	66.7	72.5	78.9	85. 1	91.8	99.0	106.8
		Hambantota	32.1	37.9	39.4	40.6	42.1	43.6	45.3	47.1	49.0	51.0	53.1
		Matara	43.9	52.9	56.0	58.8	62.0	65.4	69.1	72.8	76.9	81.2	85.8
		Weligama	37.7	48.0	53.4	58.9	65.0	71.7	78.9	85.9	93.6	101.9	111.0
X.UVA		Badulla	45.1	543	57.4	60.2	63.4	66.8	70.4	74.2	78.3	82.6	87.2
VI 5		Diyatalawa	40.8	50.1	53.9	57.5	61.6	66.0	70.6	75.3	80.4	85.8	91.6
KI.Sagara-		Kegalle	112.5	148.0	170.2	193.5	220.3	250.2	283.7	315.9	351.8	391.8	435.1
gamua		Balangoda/Ratnapura	47.4	63.6	74.6	86.6	100.6	116.6	135.0	153.5	174.6	198.5	225.7
		Kahawaita	66.7	79.6	83.4	86.6	90.3	94.2	98.3	102.3	106.6	111.1	115.8
	40)	COLOMBO CITY	627.1	755.3	798.4	837.5	882.3	930.1	931.3	1,034.3	1,091.2	1,151.8	1,216.0
bo City		0744											
Note:		OTAL Distribution losses 10.5	3,564.8	4,448.2		5,333,4]	5,839.7		7,003.5		8,253.7	8,964.1	9,735.6

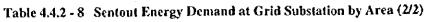
Note: (a) Distribution losses 10.5% of the year 1995 are assumed to be decreased by 0.35 percent per annum for first 6 years and 0.3 percent per annum for following years upto 7.5%.







⁽b) Transmission losses 7.0% of the year 1994 are assumed to be decreased by 0.25 percent per annum for first 5 years and 0.25% per annum for following years upto 4.5%.



Provinces		Sales Energy (GWh)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
	CEB	's Areas											
Traansmissi	on L	osses in %	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Distribution	Loss	es in %	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
1.North	1)	Anuradhapura	166.1	180.9	196.9	214.2	232.9	253.1	274.9	298.5	323.8	351.1	380.5
Central		Minneriya	105.0	114.2	124.0	134.7	146.2	158.7	172.0	186.5	201.9	218.6	236.5
II Northern	3)	Jaffna	217.2	235.4	253.1	270.4	285.6	301.4	317.9	335.2	353.2	371.9	391.4
	4)	Kilinochchi	48.2	52.7	57.4	62.3	65.8	69.4	73.2	77.2	81.3	85.6	90.1
[[].Central		Nortonbridge	112.9	118.0	123.2	128.7	134.6	140.7	147.0	153.5	160.2	167.1	174.7
		Kandy	181.2	189.3	197.7	206.5	216.0	225.8	235.9	246.4	257.1	268.1	279.
		Nuwara Eliya	127.3	133.1	139.0	145.2	151.8	158.7	165.8	173.2	180.7	188.5	196.5
	8)	Matale	128.0	139.3	151.5	164.7	179.0	194.5	211.1	229.0	248.4	269.1	291.5
	9)	Kundasalè	140.1	151.9	164.5	178.1	192.8	208.6	225.6	243.8	263.4	284.3	306.1
IV.North		Kurunegala	158.8	171.9	186.0	201.2	217.6	235.3	254.2	274.4	296.1	319.4	344.3
Western	,,,,,,,	Wennappuwa	170.5	187.5	206.2	226.5	248.6	272.8	299.0	327.6	358.8	392.7	429.5
		Chilaw	353.6	386.2	421.6	460.0	501.6	546.5	595.2	647.9	704.8	766.3	832.6
	\Box	Kuliyapitiya	282.7	322.2	367.0	417.8	474.8	539.3	612.2	694.6	787.6	892.5	1,010.8
V.Western		Gampaha	163.7	176.4	190.1	204.7	220.5	237.4	255.4	274.7	295.2	317.1	340.3
North		Veyangoda	123.8	132.5	141.8	151.5	162.1	173.4	185.3	198.0	211.4 682.5	225.6 724.1	240.0 767.1
	**********	Negombo	419.6	446.0	473.9	503.4	535.6	569.6	605.3	643.0		4,409.2	4,936.4
		Kelaniya	1,550.0	1,746.2	1,966.1	2,212.3	2,485.3	2,790.5	3,131.4	3,511.8	3,936.2 703.6		824.6
		Ja-Ela	364.8	396.7	431.2	468.4	508.7	552.2	599.0	649.4		240.5	254.4
VI.Eastern		Trincomalee	142.1	150.7	159.8	169.4	179.8	190.8	202.4	214.5	227.2	59.8	62
		Атрага	40.4	42.2	44.1	46.1	48.2	50.4	52.6 122.7	55.0 130.7	57.3 139.1	147.9	157.
	*******	Batticaloa	83.9	89.4	95.2	101.4	108.1	115.2 36.7	38.4	40.1	41.8	43.6	45
		Kalmunai	29.5	30.8	32.2	33.6	35.1 1,586.2	1,744.8	1,918.1	2,107.5	2,314.2		2,785.4
VII.Western		Ratmalana	1,075.0	1,186.1	1,307.8	1,441.3	1,300,4	111.1	116.1	121.2	126.5	131.9	137.
South		Ногладагна	89.1	93.1	97.3 1,025.7	101.6 1,119.6	1,221.3	1,331.5	1,450.8	1,579.9	1,719.5	1,870.2	2,033.
	*******	Sri Jaya'pura	859.4	939.1			60.2	62.9	65.7	68.6	71.6	74.7	77.5
	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Kalutara	50.5	52.7	55.1	57.5	159.2	166.5	173.9	181.6	189.5	197.7	206.
		Dehiwala	133.6	139.6	145.8	152.2 69.2	72.3	75.6			86.1	89.8	93.
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Awissawelle	60.7	63.4	66.2 140.3	152.8	166.3	180.9	196.7	213.7	232.1	251.9	273
		Horana G-11-	118.1 388.3	128.7 427.6	470.6	517.6	568.6		685.1	751.3	823.5	902.0	
VIII.Southe			115.6		135.3		158.2					T	
		Ambalangoda Hambantota	55.5	58.0		63.3	66.2	69.2	72.3	75.5	78.8	I	
			90.9		102.1	108.2	114.8	121.7	129.0	136.7	144.7	153.1	[6].
		Matara Weligama	121.2	132.3	144.4	157.5	171.7	187.0		221.6	241.0		
12 112 A	 		92.4	97.8	103.6	109.7	116.3	123.2	130.5	138.1	146.1	154.5	163.
IX.UVA		Badulia	98.1	105.0	112.4	120.3	128.8	137.8	147.4	157.5	168.2	179,6	
VI Canana	1	Diyatalawa Kegalie	486.9		606.0	675.5	751.6			1,032.1	1,145.9		1,409.
XI.Sagara-	1	Regaire Balangoda/Ratnapura	257.3		334.0		432.1	490.8	557.1	632.1	716.7		919.
gamua		Kahawatta	121.0			138.0			157.6	164.6	171.7		186.
VII Colore			1,288.3			1,530.4	1,622.9				2,040.8		I
XII.Colom- bo City		COLOMBO CITY	1,200.3	1,204,7	L.C.P.								.,
00 City	i i	L			L		ļ	16,326.2		ı———		 	1

Note: (a) Distribution losses 10.5% of the year 1995 are assumed to be decreased by 0.35 percent per annum for first 6 years and 0.3 percent per annum for following years upto 7.5%.

⁽b) Transmission losses 7.0% of the year 1994 are assumed to be decreased by 0.25 percent per annum for first 5 years and 0.25% per annum for following years upto 4.5%.

Table 4.4.3 - 1 Actual Monthly and Annual Peak Demand by Substation in The Year 1995

(Unit: MW) Monthly Peak Demand (MW) Annual Provinces Grid Substation 95.1 95.2 95.3 95.4 95.5 95.6 95.7 95.8 95.9 95.10 95.11 95.12 Peak North Anuradhapura 20.0 20.0 20.0 20.0 20.0 24.0 20.0 22.0 156 20.0 20.0 18.2 24.0 Central (2) Habarana 18.0 20.0 17.0 17.0 16.0 16.0 17.0 18.0 19.1 18.5 23.4 22.7 23.4 Nothern Chunnakam 0.0 Kilinochchi 0.0 Central Kiribathkumbura 35.0 35.0 38.0 36.0 37.0 37.0 36.0 39.0 32.0 37.2 37.2 36.5 **39 0** Ukuwela (6) 27.0 26.0 28.0 27.0 27.0 27.0 27.0 26.0 27.0 28.0 28.0 28.0 28.0 Rantambe 8.0 8.0 8.0 8.0 4.0 50 8.0 8.7 9.1 9.1 79 88 87 Nuwara Eliya 12.0 11.0 12.0 13.0 13.0 13.0 14.0 12.0 12.2 12.4 13.0 12.3 14.0 Wimalasurendra 0.81 18.0 17.0 18.0 19.0 18.0 17.0 17.0 16.0 16.2 16.0 16.0 19.0 North (10) Kurunegala 17.0 22.0 23.0 20.0 21.0 19.0 19.0 19.0 18.2 17.8 16.9 18.3 23.0 Western (11) Puttalam 17.0 17.0 17.0 18.0 16.0 180 17.2 16.0 17.0 17.2 15.2 16.8 18.0 (12) Bolawatta 37.0 38.0 41.0 37.0 42.0 39.0 44.0 45.0 44.3 43.7 46.I 44.6 46.1 Western-(13) Kotugoda 63.0 69.0 61.0 69.0 68.0 74.0 77.6 76.0 72.0 75.0 80.7 78.0 80.7 North (14) Sapugaskanda 54.0 60.0 64.0 60.0 52.0 56.0 55.0 57.0 55.0 54.0 56.0 58.8 64.0 (15) Biyagama 42.0 47.0 44.0 42.0 49.0 47.0 40.0 40.0 46.0 46.0 48.0 50.0 50.0 Eastern (16) Trincomalee 10.0 16.0 16.0 10.0 10.0 15.0 15.0 15.0 15.6 16.3 16.3 16.3 16.3 (17) Inginiyagara 18.0 18.0 22.0 19.0 20.0 24.0 21.0 22.0 21.3 23.3 18.0 24.0 Western-(18) Ratmalana 48.0 49.0 51.0 44.0 46.0 48.0 28.0 30.0 28.0 29.0 23.0 34.1 51.0 South (19) Pannipitiya 59.0 58.0 59.0 58.0 61.0 57.0 81.0 80.0 74.2 82.5 86.4 83.0 86.4 (20) Matugama 44.0 44.0 45.0 46.0 49 N 48 0 50.0 45.0 51.0 54.0 53.0 54.0 46.1 (21) Awissawella 10.4 10.2 10.4 11.4 11.5 10.5 10.5 10.4 10.4 9.8 10.9 8.6 11.5 (22) Padukka 10.0 11.0 11.0 10.0 11.0 12.0 12.0 10.0 10.6 11.0 11.1 9.0 12.0 (23) O.D.S.S(Kolonnawa) 45.0 49.0 52.0 46.0 48.0 45.0 43.0 41.0 40.0 39.8 45.9 45.9 52.0 Southern (24) Gaile 43.0 48.0 45.0 42.0 44.0 40.0 45.0 47.0 42.0 52.0 57.0 57.0 57.0 (25) Deniyaya 21.0 18.0 22.0 26.0 21.0 21.0 22.0 22.0 20.0 22.0 21.0 26.0 Uva (26) Badulla 18.0 17.0 17.0 16.0 19.0 18.0 17.5 17.0 17.0 19.0 16.7 17.8 15.9 Sabaraga-(27) Balangoda 17.0 17.0 17.0 14.0 17.0 15.0 16.0 17.0 16.9 13.1 16.1 16.5 17.0 (28) Thulhiriya muwa 38.0 38.0 38.0 36.0 44.0 40.0 41.0 43.0 40.0 44.5 44.0 47.5 47.5 (29) Embilipitiya 12.0 14.0 14.0 14.0 12.0 15.0 14.0 14.0 12.0 14.0 12.0 15.0 120 Collemba (30) Kelanitissa(KPS) 31.0 32.0 32.0 30.0 32.0 34.0 33.0 33.0 39.0 40.6 35.3 34.0 40.6 (31) Sub-E(Kollipitiya) 25.0 24.0 21.0 22.0 24.0 24.0 22.0 23.0 24.0 24.3 25.0 24.5 25.0 (32) Sub-F(Fort) 12.0 10.0 11.0 12.0 12.0 10.0 10.0 12.0 11.4 11.7 9.7 12.1 12.1 Total 837.4 864.4 840.4 871.5 869.5 871.5 866.3 871.1 894.4 920.9 910.8 1004.7

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Table 4.4.3-4 Annual Sentout Energy from and System Peak of Grid Substations after Fedeers' Rearrangement and Substation Addition in The Year 2000

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Table 4.5 - 1 Long Term Generation Expansion Plan (1995 - Base Case)

	Hydro	Thermal	Thermal	LOLP
Year	Additions	Additions	Retirements	(%)
1996			Sapugas Diesel 2x18MW (for refurbishment)	34.24
1997		* Diesel 40MW (Sapugaskanda) Refurb Diesel 2x18MW (Sapugaskanda)	Sapugas Diesel 2x18MW (for refurbishment)	37.43
1998		Gas Turbine 100MW (Kelanitissa) Diesel 90MW (Sapugas) Refurb. Diesel 2x18MW		4.404
1999		* Combined Cycle 150MW (Kelanitissa)		0.359
2000	=	Combined Cycle 150MW	· · · · · · · · · · · · · · · · · · ·	0.024
2001		Gas Turbine 70MW	KPS Oil Steam	0.358
2002	* Kukule 70MW	Coal 150MW (Site 1, Unit 1)	Gas Turbine 3x18MW (for refurbishment)	0.325
2003		Coal 150MW (Site 1, Unit 2) Refurb. GT 3x20MW	Gas Turbine 3x18MW (for refurbishment)	0.331
2004		Coal 300MW (Site 1, Unit 3) Refurb. GT 3x20MW	Sapugas Diesel 2x18MW	0.253
2005		Coal 300MW (Site 1, Unit 4)		0.188
2006		***		0.951
2007		Coal 300MW (Site 2, Unit 1)		0.872
2008		Combined Cycle 300MW (Outside Colombo, Boosa)	Sapugas Diesel 2x18MW	0.898
2009		Coal 300MW (Site 2, Unit 2)	-	1.015
2010		Coal 300MW (Site 2, Unit 3)		1.255
2011	•••	Combined Cycle 300MW (Outside Colombo)	•-•	1.479
2012	*	Combined Cycle 300MW (Outside Colombo)		0.697
	·	Coal 300MW (Site 2, Unit 4)		



2013	***	Coal 300MW		1.179
		(Site 3, Unit 1)		
2014	₩•	Coal 300MW		1.794
		(Site 3, Unit 2)		
		Gas Turbine 35MW		
2015		Combined Cycle 300MW		1.754
		(Outside Colombo)		
		Gas Turbine 175MW		
		(Outside Colombo)	and the second community of the second community of the second second second second second second second second	والمراقبة المساولة والمواجع والمساورة والمراقبة والمراقبة والمواجعة والمراقب
Total	PV Cost up to 2015	2,579 million US\$		

Note:

- (1) Assumed discount rate is 10%.
- (2) Calculation of long-term average generation cost does not include energy contribution from the existing hydro plants, plant commissioning and retirement at the beginning of the year indicated.
- (3) At the present stage, the first site conceived for development as coal thermal plant is Puttalam.
- (4) * denote committed projects.

Table 4.6-1 List of 1995-97 Transmission System Extension Plan

1. Ongoing Projects

1-A Transmission System Augmentation & Development Project (TSADP)

(1)	132 kV Transmission Lines				
	- Laxapana - Badulla	2-cct	Lynx	75 km	Completed
					(July 96)
	- T-connection of Panadura SS	2-cct	Lynx	7 km	Completed
	- T-connection of Avissawella SS	2-cc1	Lynx	0.5 km	(Dec. 96)
(2)	Grid Substations				
	- Construction of new 132/33 kV substa	tions at Panad	lora		Completed
	Avissawella (2 x 31.5 MVA)				(Dec. 96)
	Nuwara Eliya (2 x 31.5 MVA)				Completed
					(June 96)
	- Augmentation of existing stations at Ba	dulla (switch	gear addition)		Completed
	ODSS Kolonnawa (2 x 31.5 MVA add	ition)			(Dec. 96)
	Puttalam (2 x 31.5 MVA replacing exist	ting 2 x 10 M	VA and feeder l	bays)	Compl

1-B Transmission & Grid Substation Development Project (TGSDP)

(1)) 1	32 k	V	Fransm	ission	Lines
٠.	, ,	<i>∪ ⊷</i> ₽		1 r (4 ii 3 i i	1331011	LIIIVO

-	Puttalam - Anuradhapura	2-cct	Lynx	80 km	(Nov. 97)
-	Embilipitiya - Matara	2 - cct	Lynx	62 km	(Nov. 97)
-	Loop connection on Ukuwela SS	2 - cct	Lynx	6 km	(Nov. 97)
-	Kotugoda - Bolawatta	2 - cct	Zebra	21 km	(Nov. 97)
	(Panissing conductors of avisti	nalina Caua	4.01		• • •

(Replacing conductors of existing line - Coyote)

(2) Grid Substations

-	Construction of new 132/33 kV Matara substation (2 x 31.5 MVA)	(Nov. 97)
-	Construction of double busbar at Puttalam substation	(Nov. 97)
-	Augmentation and reinforcement of existing substations at Ukuwela and	
	Embilipitiya (switchgear)	(Nov. 97)

1.C Power Distribution & Transmission Project (PDTP)

(1) 132 kV Transmission Line

-	T- connection of Chilaw SS	2 - cct Lynx	8 km	<u>Completed</u>

(2) Grid Substation

-	Construction of new 132/33 k	V Chilaw substation (2 x 31.5 MVA)	<u>Completed</u>
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1-D Second Power Distribution & Transmission Project (SPDTP)

(1) Transmission Lines

-	220 kV Kotmale - Anuradhapura	2- cct	Zebra	160 km	(Jan. 98)
-	132 kV Rantembe - Badulla	1 - cct	Lynx	37 km	(Jan. 98)
		(2nd cct	1)		
-	132 kV Kotmale T - off	2 - cci	Lynx	8 km	Completed



(2)	Addition of 132 kV switeAddition of 132 kV swite	=	and Bad	ulla		Completed Completed
1-E	CEB Fund 132 kV Habarana - Valaic Valaichchenai substation Pannipitiya transformer a Ratmalana transformer ac Anuradhapura substation	ddition (1 x 31.5 l ldition (1 x 31.5 b	IVA) eplacing (Lynx 2 x 10 MVA	96 km	Completed (Not fixed) Completed Completed (March 96)
2.	Newly Started Project	s				
2-A	Korean Fund					
(1)	Capacity increase by replac	ing existing transf	ormers			
	- Habarana	2 x 31.5 MVA	(replac	ce 2 x 10 MVA)		(end 1998)
	- Balangoda	2 x 31.5 MVA	(replac	ce 2 x 10 MVA)	•	(end 1998)
	- Trincomalec	2 x 31.5 MVA	(replac	ce 2 x 10 MVA)		(end 1998)
(2)	Addition of 2 feeder bays a	t Kiribatkumbra s	ubstation	for connection ch	nange	(end 1998)
2-B	IDA Fund					
(1)	Conversion of 132 kV Biy. Transmission line Biyagama Kelanitissa	Insulator addition 2 - 220 kV outg	on on susp going bay GIS subst transform	oension towers s tation with 2 x 1 ers and switchge	50 MVA,	(end 1998) (end 1998) (end 1999)
2-C	ADB Fund (To be con	npleted by end	-1998)	•		
(2) a) b)	- Kotugoda - Veyangoda		2- cct 2- cct	Lynx Coyote to Zebi		20 km 38 km
(a) Construction of new sub-	station				
	- Veyangoda		2 x 31.	5 MVA		
(t) Capacity increase by insta			•	5:	
	- Sapugaskanda grid SS			31.5 MVA		
	- Kiribatkumbra			31.5 MVA		
	- Matugama			31.5 MVA		
	- Bolawatta			31.5 MVA		
	- Ratmalana 33 kV grid SS	Rehabilitation b	y replacii	ng transformers,	ctc.	

(c) Augmentation of grid substations:

- Embilipitiya

2 x 31.5 MVA (replace 2 x 10 MVA)

- Kurunegala

2 x 31.5 MVA (replace 2 x 16 MVA)

- Ukuwela

Addition of two 33 kV feeders

(d) Installation of capacitor banks (75 MVA in total):

. Kiribatkumbra

10 MVA

. Kurunegala

10 MVA

. Habarana

10 MVA

. Others

45 MVA

2-D NORAD Fund

(a) Construction of 132 kV transmission lines

- Anuradhapura, 220 kV SS to 132 kV SS 2-cc

2-cct Zebra 7 km (May 1999)

- Inginiyagala - Ampara

1-cct Lynx 20 km (May 1999)

(b) Construction of new substations

- 220 kV outgoing bays at Kotmale PS

2-cct

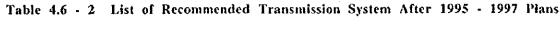
(May 1999)

- 220/132/33 kV substation at Anuradhapura, 2 x 150 MVA

(May 1999)

- 132/33 kV GSS at Ampara

(May 1999)



1.	1997 - 1998 Period			
(1)	132 kV Transmission Lines			
	- Ampara - Valaichchenai	1-cct	Lynx	80 km
(2)	Upgrading of 220 kV designed	132 kV line bety	ween Biyagama an	d Pannipitiya
	- Transmission line	Insulator ac	ldition on suspensi	ion towers
	- Biyagama SS	Outgoing 2	20 kV switchgear	
	- Pannipitiya SS	2 x 250 MV	VA transformers	
		220 kV and	I 132 kV switchges	ar
(3)	Addition of transformer capacity			
	·			

- (3
 - Thulhiriya 1 x 31.5 MVA Badulla 1 x 31.5 MVA 1 x 31.5 MVA - Galle
- Replacement of existing transformers (4)

. Ukuwela	2 x 15	to	2 x 31.5 MVA
. Chunnakam	2 x30, 1 x 10	to	3 x 31.5 MVA
. Valaichchenai	2 x 10	to	2 x 31.5 MVA

- 2. After 1997 - 1998
- (1) 132 kV Transmission Lines
- . Matugama Galle (220 kV design) 2-cct Zebra 50 km
- Future seven grid substations for construction by the year 2000: (2)
 - . Veyangoda

- . Anniyakanda
- . Sri Jaya'pura
- . Aturugiriya
- . Sithawakapura (industrial complex demand)
- . Ratnapura

Six substations except Sithawakapura coincide with the CEB's Medium Voltage Distribution Note: Development Plan, 1995 - 2005.

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Fig. 4. 4 - 1

Block Diagram for Area-wise & Substation Demand Forecast