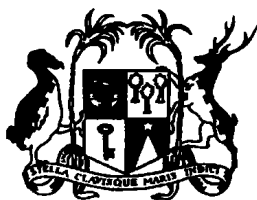


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CENTRAL STATISTICAL OFFICE

**DIGEST OF ENERGY STATISTICS
1999**

October 2000

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**DIGEST
OF
ENERGY STATISTICS
1999**

DIGEST OF ENERGY STATISTICS - 1999

FOREWORD

This is the second issue of the annual Digest of Energy Statistics, produced by the Central Statistical Office in collaboration with the Ministry of Public Utilities. It presents statistical data relating to energy sources, transformation and final consumption of energy by sector.

The data, which cover the period 1991 to 1999, are the latest available as at June 2000 and are subject to revision in subsequent issues of the digest.

It is hoped that these statistics will prove useful to a wide range of users, in particular planners, decision makers and scientists. The preparation of this digest has required the collaboration of several public and private organisations. This co-operation is gratefully acknowledged.

H Bundhoo
Director of Statistics

Central Statistical Office,

Ministry of Economic Development, Financial Services and Corporate Affairs,

PORT LOUIS.

October 2000

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Energy Statistics - Concepts and terminology

The energy data have been compiled according to the recommendations of the United Nations Manual, Series F No 29 on Energy Statistics.

- **Energy**
Energy means the capacity for doing work or for producing heat. Producing heat is a common manifestation of "doing work" as are producing light and motive force.
- **Primary energy**
Primary energy designates energy from sources that involve only extraction or capture, with or without separation from contiguous material, cleaning or grading, before the energy embodied in that source can be converted into heat or mechanical work. Primary energy is not derived from any other form of energy. By convention, sources of energy that occur naturally such as coal, natural gas, fuel wood are termed primary energy
- **Secondary energy**
Secondary energy designates energy from all sources of energy that results from transformation of primary sources.
- **Fuels**
The term fuel is used to describe those energy sources, whether primary or secondary, that must be subjected to combustion or fission in order to release for use the energy stored up inside them.
- **Re-export of bunkers and aviation fuel**
Bunkers relate to fuels sold to ships irrespective of their flags of ownership or registration. Re-exports include aviation fuel delivered to foreign aircraft. Aviation fuel delivered to aircraft owned by the national airline is included as final consumption in the transport sector
- **Primary energy requirement**
It is the sum of imported fuels and locally available fuels less re-exports of bunkers and aviation fuel to foreign aircraft after adjusting for stock changes.
- **Primary energy input to hydro electricity.**
The primary energy input to hydro electricity is defined as the energy value of the electricity generated from hydro.

Energy conversion factors

The following energy conversion factors have been used to express the energy content for the different fuels in terms of a common accounting unit, tonnes of oil equivalent (toe)

	Tonne	toe
Gasolene	1	1.08
Diesel Oil	1	1.01
Dual Purpose Kerosene (DPK)	1	1.04
Fuel oil	1	0.96
Liquefied Petroleum Gas (LPG)	1	1.08
Coal	1	0.62
Bagasse	1	0.16
Fuel Wood	1	0.38
Charcoal	1	0.74
	<u>GWh</u>	<u>toe</u>
Electricity	1	220

1 toe = 41.84 gigajoule (net calorific value)

Abbreviations

The following technical abbreviations have been used throughout the report

toe	Tonne of oil equivalent
ktoe	Thousand tonnes of oil equivalent
LPG	Liquefied Petroleum Gas
MW	Megawatt (1,000 kW)
kWh	Kilowatt hour
GWh	Gigawatt hour

Acronyms

CEB	Central Electricity Board
GDP	Gross Domestic Product

Energy Statistics, 1999 – An overview

General

Energy Statistics is a new series of data that was released for the first time through the Economic and Social Indicators, Issue No. 312. The energy data have been compiled according to the recommendations of the United Nations Manual, Series F No. 29 on Energy Statistics.

All data refer to the Republic of Mauritius unless stated otherwise. Final energy consumption data by sector has been compiled according to the classification used by the suppliers of data. Consumption of energy in the transport sector refers to the amount of fuel used by industries as well as private households for transportation. For meaningful comparison and analysis, the quantities of each type of fuel have been expressed in a common accounting unit, namely, tonnes of oil equivalent (**toe**).

2. The energy commodity balance

The energy commodity balance shows the relationships between total primary energy requirement, transformation and total final consumption. The energy commodity balance for the year 1999 is given at Table 1.2. Total primary energy requirement is obtained as the sum of the production from local resources (hydro, fuel wood and bagasse) and imports less re-exports and bunkering after stock adjustments. The transformation process is the conversion of primary energy into secondary energy, such as coal and fuel oil into electricity. Own use and losses during transformation are also recorded. Total final energy consumption is the total amount of energy required by end users as a final product. End-users are categorised into five sectors, namely manufacturing, transport, commercial and distributive trade, residential and agricultural.

2.1 Total primary energy requirement

The total primary energy requirement of the country is met from imported fuels as well as locally available sources. The year 1999 has been an odd year due to the prevailing drought. Hydro generation decreased from 22.9 ktoe in 1998 to 6.5 ktoe in 1999 and bagasse, from 282.7 ktoe to 210.3 ktoe. Consequently, the total primary energy requirement dropped to 1,000 ktoe from 1,017 ktoe in 1998. Of the 1,000 ktoe, 779 ktoe were met from imported petroleum products and coal and the remaining 221 ktoe, from locally available resources, mainly bagasse (Table 2.1-2.3).

Compared to 1998, the share of petroleum products and coal has increased from 69.5% to 77.9% in 1999, whilst production from local resources decreased from 30.5% to 22.1%.

2.1.1 Local production

Local energy sources consist mainly of bagasse, the residue left over after extraction of sugar from sugarcane, hydro-electricity and to a small extent, fuel wood. Wind energy has been in use up to now on experimental basis. In the Island of Mauritius the turbines installed at Grand Bassin in 1987 ceased to function in 1990 while that of Trefle Wind Park in Rodrigues have been dismantled in 1997. In 1999, production of energy from local resources dropped by 28.7 % to 221.3 ktoe from 310.2 ktoe in 1998. This reduction in production, from both bagasse and hydro, was due to the prevailing drought.

2.1.2 Imports of energy sources

Tables 2.4 to 2.7 show data on imports of sources of energy. Some 1,003 ktoe of petroleum products and coal were imported in 1999 compared to 959 ktoe in 1998, representing an increase of 4.6 %. Petroleum products increased from 905.5 ktoe to 923.3 ktoe and coal from 53.5 ktoe to 79.9 ktoe. The import bill for petroleum products and coal was valued at Rs 3,795.7 million against Rs 2,873.2 million in 1998.

2.1.3 Re-exports and bunkering

Of the 1,003.2 ktoe of imported sources of energy, 249.8 ktoe were re-exported to bunkers and foreign aircraft, consisting of 123.3 ktoe of diesel oil, 45.1 ktoe of fuel oil and 81.4 ktoe of aviation fuel. (Table 2.8)

2.2 Electricity generation

In 1999, 1,440.7 GWh (316.9 ktoe) of electricity were generated, compared to 1,380.2 GWh (303.6 ktoe) in 1998, representing an increase of 4.4 %. The Central Electricity Board (CEB) generated 76.1 % and private power producers, 23.9 %. Thermal energy represented 97.9 % and hydro, the remaining 2.1 %. The installed capacity of the power plants in the Island of Mauritius increased from 480.4 MW in 1998 to 509.4 MW in 1999 and the effective capacity from 396.7 MW to 425.7 MW. The peak demand in 1999 was 265.8 MW (Tables 3.1 and 3.2).

2.2.1 Fuel input for electricity generation

Tables 3.7-3.9 show the different types of fuel used for electricity generation. Fuel input increased from 329.3 ktoe in 1998 to 375.5 ktoe in 1999, representing an increase of 14 %. The amount of coal used in 1999 (69.5 ktoe) for electricity generation more than doubled compared to 27.9 ktoe in 1998. This was mainly due to the decrease in bagasse produced and the unavailability of water for hydro generation.

2.2.2 Number of electricity consumers and average unit price by category

The total number of electricity consumers in the Island of Mauritius increased from 293,887 in 1998 to 304,029 in 1999 (Tables 4.6-4.7). The domestic category had the highest number of consumers (271,061) followed by commercial (25,730) and industrial (6,981). The average sales price of electricity increased from Rs.2.14 per kWh in 1998 to Rs.2.19 per kWh in 1999.

2.3 Final energy consumption

Some 925.9 ktoe of energy was consumed as final energy in 1999 compared to 960.1 ktoe in 1998. The Manufacturing sector and the Transport sector accounted each for around 35 %, followed by Residential (15.9 %), Commercial and Distributive Trades (8.5 %) and Agriculture (0.8%). The different types and amount of fuel consumed by each sector is given in Tables 4.1-4.5.

2.3.1 Manufacturing

Energy used for manufacturing processes in 1999 amounted to 325.3 ktoe, bagasse contributing 138.1 ktoe, electricity, 91.1 ktoe, fuel oil and diesel oil, 76.3 ktoe. Compared to 1998 (386.7 ktoe), a decrease of 15.9 % has been registered, mainly resulting from the lower bagasse consumption.

2.3.2 Transport

As shown in Tables 4.1-4.5, in 1999, 325.4 ktoe of energy were used for transportation. Gasolene consumption has remained almost constant at 96.7 ktoe, whilst that of diesel oil rose from 120.1 ktoe to 127.8 ktoe and aviation fuel used by our national airline from 93.1 ktoe to 101.0 ktoe.

2.3.3 Commercial and Distributive Trade

Total energy consumption stood at 78.6 ktoe in 1999 compared to 74.8 ktoe in 1998. Electricity is the main source of energy and its consumption by enterprises engaged in the Distributive Trade increased from 70.2 ktoe in 1998 to 73.6 ktoe in 1999.

2.3.4 Residential

Energy consumed by households increased by 3.9 % in 1999 and amounted to 147.6 ktoe. The two main sources of energy for households were electricity and LPG. Electricity consumption increased by 4.2 % from 93.1 ktoe to 97.1 ktoe and that of LPG, by 5.7 % from 35.7 ktoe to 37.8 ktoe.

2.3.5 Agriculture

Electricity and diesel oil are the only sources of energy used in Agriculture. In 1999, 5.0 ktoe of electricity were used for irrigation whilst 2.3 ktoe of diesel oil were used for derocking of land and preparation of soil prior to plantation.

3. Energy ratios

As shown in table 2.9, the total primary energy requirement index, expressed with 1990 as reference year (1990 = 100), decreased by 2.3 points from 138.5 in 1998 to 136.2 in 1999. Per capita primary energy requirement dropped by 3.4 % to 0.85 toe.

Energy intensity is defined as total primary energy requirement (toe) per 100,000 rupees of GDP (at constant 1990 rupees). It therefore provides a measure of the efficiency with which energy is being used in production. Energy intensity went down from 2.00 to 1.92, thus showing a more efficient use of energy inputs.

Section I

Energy commodity balance

Table 1.1 - Energy commodity balance, 1998

Flow	Source	Tonne of oil equivalent (toe)											Total		
		Coal	Gasolene	Diesel	Aviation Fuel	Kerosene	Fuel Oil	LPG	Fuel Wood	Charcoal	Hydro	Bagasse		Electricity	
Local Production		-	-	-	-	-	-	4,560	-	22,916	282,719	-	-	-	310,195
Imports		53,533	93,847	285,564	158,400	56,293	263,160	48,250	-	-	-	-	-	-	959,048
Re-Exports and Bunkering		-	-	(128,589)	(55,273)	-	(33,909)	(734)	-	-	-	-	-	-	(218,505)
Stock change / Statistical error		(9,670)	1,833	(305)	(10,009)	5,221	(16,599)	(3,836)	-	-	-	-	-	-	(33,365)
Total Primary Energy Requirement		43,864	95,679	156,670	93,118	61,514	212,652	43,681	4,560	22,916	282,719	-	-	-	1,017,373
Electricity Generation		(27,922)	-	(3,789)	-	(51,663)	(171,582)	-	-	(22,916)	(74,364)	303,654	-	-	(48,582)
Other transformation		-	-	-	-	-	-	(760)	370	-	-	-	-	-	(390)
Own use		-	-	-	-	-	-	-	-	-	-	-	(8,286)	-	(8,286)
Total Final Consumption		15,942	95,679	152,881	93,118	9,851	41,070	43,681	3,800	370	208,355	295,368	-	-	960,115
Manufacturing Sector		15,942	-	30,535	-	-	41,063	3,538	760	-	208,355	86,530	-	-	386,724
Transport Sector		-	95,679	120,123	93,118	-	-	-	-	-	-	-	-	-	308,921
Commercial and Distributive Trade Sector		-	-	-	-	-	-	4,320	-	222	-	70,233	-	-	74,775
Residential Sector		-	-	-	-	9,851	-	35,748	3,040	148	-	93,181	-	-	141,968
Agriculture		-	-	2,222	-	-	-	-	-	-	-	5,586	-	-	7,808
Other(n.e.s) and losses		-	-	-	-	-	7	75	-	-	-	39,838	-	-	39,920

Note: figures in brackets represent negative quantities

Table 1.2 - Energy commodity balance, 1999

Flow	Source	Tonne of oil equivalent (toe)											
		Coal	Gasoline	Diesel	Aviation Fuel	Kerosene	Fuel Oil	LPG	Fuel Wood	Charcoal	Hydro	Bagasse	Electricity
Local Production		-	-	-	-	-	-	4,484	-	6,505	210,299	-	221,288
Imports		79,900	100,156	298,507	195,205	45,947	236,428	47,055	-	-	-	-	1,003,198
Re-Exports and Bunkering		-	-	(123,344)	(81,394)	-	(45,061)	-	-	-	-	-	(249,799)
Stock change / Statistical error		4,800	(3,491)	(8,558)	(12,800)	7,143	38,624	(399)	-	-	-	-	25,319
Total Primary Energy Requirement		84,700	96,665	166,605	101,011	53,090	229,990	46,656	4,484	6,505	210,299	-	1,000,006
Electricity Generation		(69,516)	-	(3,539)	-	(43,626)	(186,646)	-	-	(6,505)	(72,163)	316,955	(65,041)
Other transformation		-	-	-	-	-	-	(760)	370	-	-	-	(390)
Own use		-	-	-	-	-	-	-	-	-	-	(8,729)	(8,729)
Total Final Consumption		15,184	96,665	163,066	101,011	9,464	43,344	46,656	3,724	-	138,136	308,227	925,846
Manufacturing Sector		15,184	-	32,977	-	-	43,344	3,888	684	-	138,136	91,115	325,327
Transport Sector		-	96,660	127,765	101,011	-	-	-	-	-	-	-	325,436
Commercial and Distributive Trade Sector		-	-	-	-	-	-	4,860	-	-	-	73,561	78,643
Residential Sector		-	-	-	-	9,464	-	37,800	3,040	-	-	97,125	147,577
Agriculture		-	-	2,323	-	-	-	-	-	-	-	4,957	7,280
Other(n.e.s) and losses		-	5	1	-	-	-	108	-	-	-	41,469	41,583

Note: figures in brackets represent negative quantities

Section II

Primary energy requirement

Table 2.1 - Primary energy requirement (Physical unit -Tonne\GWh), 1991 - 1999

Tonne\GWh

Energy source	1991	1992	1993	1994	1995	1996	1997	1998	1999
Imported									
Gasolene	61,453	67,848	72,308	79,595	83,958	87,387	87,671	88,592	89,505
Diesel Oil	98,660	107,305	117,030	124,410	126,320	136,030	145,515	155,119	164,955
Dual Purpose Kerosene	97,793	119,080	104,023	105,945	115,227	156,900	135,551	148,685	148,174
<i>Kerosene</i>	27,640	33,626	23,971	25,582	42,922	76,331	56,526	59,148	51,048
<i>Aviation Fuel</i>	70,153	85,454	80,052	80,363	72,305	80,569	79,025	89,537	97,126
Fuel Oil	132,338	135,005	157,487	178,943	177,089	182,600	202,176	221,512	239,573
LPG	25,900	29,300	32,925	33,305	34,302	36,560	39,145	40,445	43,200
Coal	59,975	60,790	62,450	62,600	63,086	40,284	45,672	70,748	136,613
Local									
Electricity (hydro + wind) GWh	75	113	104	76	134	104	92	104	30
Bagasse	1,543,273	1,625,479	1,562,267	1,424,144	1,639,810	1,595,104	1,740,976	1,766,992	1,314,370
Fuel Wood *	47,958	32,768	31,806	20,608	17,800	15,200	12,500	12,000	11,800

Table 2.2 - Primary energy requirement (Energy unit - ktoe), 1991 - 1999

ktoe

Energy source	1991	1992	1993	1994	1995	1996	1997	1998	1999
Imported									
Gasolene	66.37	73.28	78.09	85.96	90.67	94.38	94.68	95.68	96.67
Diesel Oil	99.65	108.38	118.20	125.65	127.58	137.39	146.97	156.67	166.60
Dual Purpose Kerosene	101.70	123.84	108.18	110.18	119.84	163.18	140.97	154.63	154.10
<i>Kerosene</i>	28.75	34.97	24.93	26.61	44.64	79.38	58.79	61.51	53.09
<i>Aviation Fuel</i>	72.96	88.87	83.25	83.58	75.20	83.79	82.19	93.12	101.01
Fuel Oil	127.04	129.60	151.19	171.79	170.01	175.30	194.09	212.65	229.99
LPG	27.97	31.64	35.56	35.97	37.05	39.48	42.28	43.68	46.66
Sub total (Petroleum products)	422.74	466.75	491.22	529.55	545.15	609.72	618.99	663.31	694.02
Coal	37.18	37.69	38.72	38.81	39.11	24.98	28.32	43.86	84.70
Sub total (Imported)	459.92	504.44	529.94	568.37	584.26	634.70	647.31	707.18	778.72
Local									
Electricity (hydro + wind)	16.60	24.91	22.85	16.65	29.58	22.86	20.35	22.92	6.51
Bagasse	246.92	260.08	249.96	227.86	262.37	255.22	278.56	282.72	210.30
Fuel Wood *	18.22	12.45	12.09	7.83	6.76	5.78	4.75	4.56	4.48
Sub total (Local)	281.75	297.44	284.90	252.34	298.71	283.86	303.65	310.20	221.29
Total	741.67	801.87	814.84	820.71	882.97	918.56	950.96	1,017.37	1,000.01

Table 2.3 - Percentage share (fuel input basis) of primary energy requirement, 1991 - 1999

%

Energy source	1991	1992	1993	1994	1995	1996	1997	1998	1999
Imported									
Gasolene	8.9	9.1	9.6	10.5	10.3	10.3	10.0	9.4	9.7
Diesel Oil	13.4	13.5	14.5	15.3	14.4	15.0	15.5	15.4	16.7
Dual Purpose Kerosene	13.7	15.4	13.3	13.4	13.6	17.8	14.8	15.2	15.4
<i>Kerosene</i>	3.9	4.4	3.1	3.2	5.1	8.6	6.2	6.0	5.3
<i>Aviation Fuel</i>	9.8	11.1	10.2	10.2	8.5	9.1	8.6	9.2	10.1
Fuel Oil	17.1	16.2	18.6	20.9	19.3	19.1	20.4	20.9	23.0
LPG	3.8	3.9	4.4	4.4	4.2	4.3	4.4	4.3	4.7
Sub total (Petroleum products)	57.0	58.2	60.3	64.5	61.7	66.4	65.1	65.2	69.4
Coal	5.0	4.7	4.8	4.7	4.4	2.7	3.0	4.3	8.5
Sub total (Imported)	62.0	62.9	65.0	69.3	66.2	69.1	68.1	69.5	77.9
Local									
Hydro Electricity	2.2	3.1	2.8	2.0	3.4	2.5	2.1	2.3	0.7
Bagasse	33.3	32.4	30.7	27.8	29.7	27.8	29.3	27.8	21.0
Fuel Wood *	2.5	1.6	1.5	1.0	0.8	0.6	0.5	0.4	0.4
Sub total (Local)	38.0	37.1	35.0	30.7	33.8	30.9	31.9	30.5	22.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

* estimates

Table 2.4 - Imports of energy sources (Physical unit - Thousand tonne), 1991 - 1999

	Thousand tonne									
	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Gasolene	65.39	63.72	74.79	78.39	84.16	88.04	88.07	86.90	92.74	
Diesel oil	153.87	165.97	180.04	210.42	226.24	221.99	255.96	282.74	295.55	
Dual Purpose Kerosene	157.11	168.65	160.87	149.07	170.66	195.99	196.25	206.44	231.88	
<i>Kerosene</i>	27.59	37.61	30.53	24.78	39.60	81.15	76.56	54.13	44.18	
<i>Aviation Fuel</i>	129.52	131.04	130.34	124.29	131.06	114.84	119.69	152.31	187.70	
Fuel oil	143.48	169.71	178.92	199.41	207.48	194.37	249.21	274.12	246.28	
LPG	26.01	29.07	29.39	32.68	36.22	36.59	41.67	44.68	43.57	
Coal	66.01	72.50	62.90	38.45	66.36	38.48	27.78	86.34	128.87	

Table 2.5 - Imports of energy sources (Energy unit - ktoe), 1991 - 1999

	ktoe									
	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Gasolene	70.62	68.82	80.77	84.66	90.89	95.08	95.12	93.85	100.16	
Diesel oil	155.41	167.63	181.84	212.52	228.50	224.20	258.52	285.56	298.51	
Dual Purpose Kerosene	163.39	175.40	167.30	155.03	177.49	203.83	204.10	214.69	241.15	
<i>Kerosene</i>	28.69	39.11	31.75	25.77	41.19	84.39	79.62	56.29	45.95	
<i>Aviation Fuel</i>	134.70	136.28	135.56	129.27	136.30	119.44	124.48	158.40	195.20	
Fuel oil	137.74	162.92	171.77	191.43	199.18	186.60	239.24	263.16	236.43	
LPG	28.09	31.40	31.74	35.29	39.12	39.51	45.00	48.25	47.06	
Sub total (Petroleum products)	555.25	606.16	633.42	678.94	735.18	749.23	841.98	905.51	923.30	
Coal	40.93	44.95	39.00	23.84	41.14	23.86	17.22	53.53	79.90	
Total imports	596.17	651.11	672.42	702.78	776.32	773.08	859.20	959.05	1,003.20	

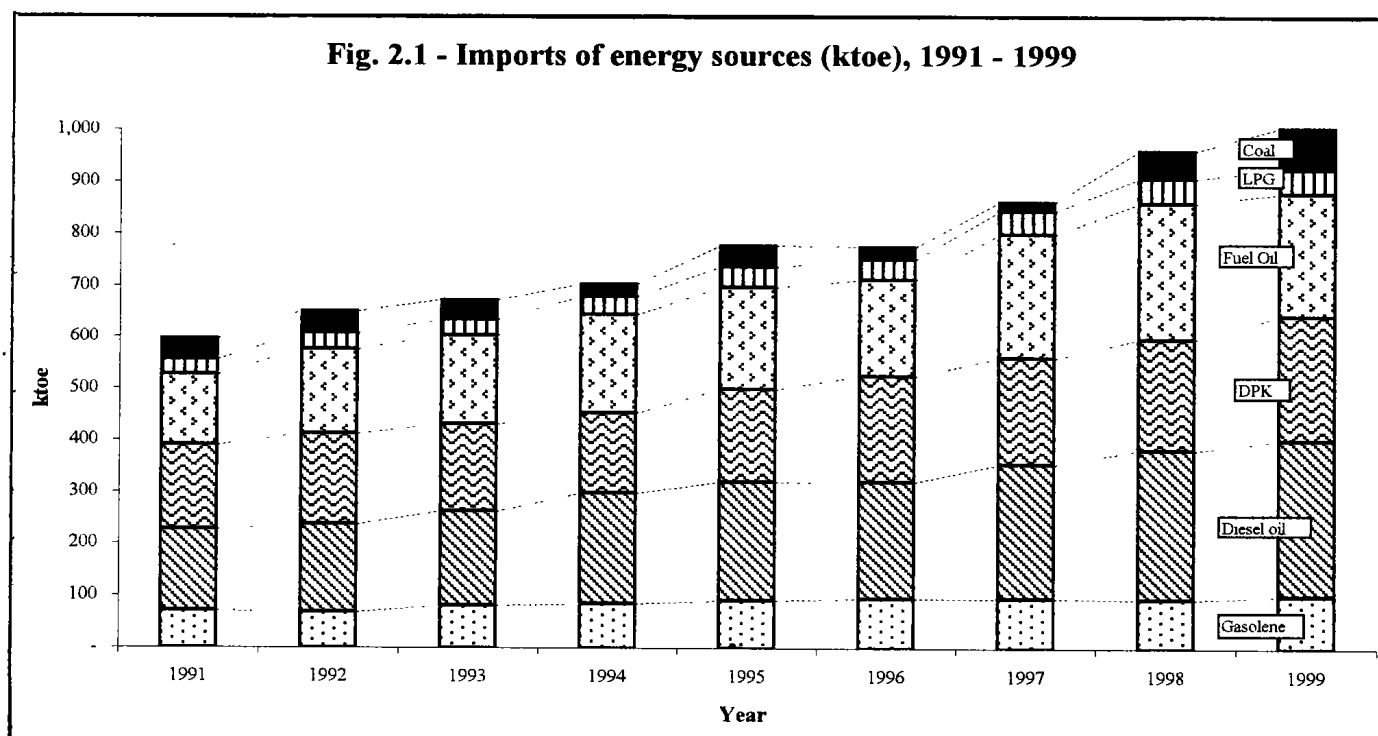
Fig. 2.1 - Imports of energy sources (ktoe), 1991 - 1999

Table 2.6 - Imports of energy sources by country of origin (Physical unit - Tonne), 1991 - 1999

Country	1991	1992	1993	1994	1995	1996	1997	1998	1999	Tonne
Gasolene										
Bahrain	40,780	19,978	-	-	3,266	2,986	8,913	24,035	27,798	
Ivory Coast	2,756	3,624	-	-	-	-	-	-	-	
Kuwait	-	-	-	16,303	42,919	53,636	25,731	-	-	
Saudi Arabia	-	-	-	19,082	22,982	2,737	15,791	46,878	47,644	
South Africa	16,727	40,122	74,789	43,001	14,991	28,682	37,639	15,982	12,960	
Yemen	-	-	-	-	-	-	-	-	4,335	
Total imports	65,386	63,724	74,789	78,386	84,158	88,041	88,074	86,895	92,737	
Diesel										
Bahrain	47,837	3,825	-	-	10,984	19,005	29,019	78,893	90,841	
Kuwait	-	-	-	31,377	101,285	107,461	46,948	-	-	
Saudi Arabia	20,272	2,988	-	68,148	53,108	9,993	46,647	150,460	153,800	
South Africa	44,470	121,492	180,040	110,891	60,862	85,526	133,342	53,384	42,199	
Yemen	10,635	-	-	-	-	-	-	-	8,711	
Ivory Coast	19,558	17,059	-	-	-	-	-	-	-	
Other countries	11,099	20,604	-	-	-	-	-	-	-	
Total imports	153,870	165,968	180,040	210,416	226,239	221,985	255,956	282,737	295,551	
Dual Purpose Kerosene										
Bahrain	58,983	14,984	-	-	7,569	18,296	14,970	57,241	67,375	
Kuwait	-	-	-	26,608	70,792	83,616	43,750	-	-	
Saudi Arabia	15,492	1,495	7,506	46,786	45,322	8,292	36,640	112,177	122,694	
South Africa	41,356	101,907	153,362	75,678	46,978	85,784	100,892	37,018	29,834	
Yemen	8,979	3,402	-	-	-	-	-	-	11,974	
Ivory Coast	18,544	16,673	-	-	-	-	-	-	-	
Other countries	13,751	30,189	-	-	-	-	-	-	-	
Total imports	157,106	168,650	160,868	149,072	170,661	195,988	196,252	206,436	231,877	
Fuel Oil										
Utd Arab Emirates	-	-	-	-	-	-	-	40,688	80,818	
Bahrain	50,495	49,986	-	-	-	17,079	-	28,732	-	
Kenya	19,137	39,388	56,276	10,764	41,388	10,163	-	11,584	44,168	
Kuwait	-	-	-	34,520	51,116	77,139	49,108	-	-	
Madagascar	27,002	21,966	32,100	12,631	89,749	86,984	153,944	174,599	117,521	
South Africa	9,156	38,126	68,519	115,015	10,569	3,007	23,803	18,522	3,772	
Tanzania	30,359	-	22,027	11,254	11,633	-	-	-	-	
Other countries	7,333	20,243	-	15,222	3,022	-	22,352	-	-	
Total imports	143,481	169,711	178,923	199,405	207,477	194,372	249,207	274,125	246,279	
Liquefied Petroleum Gas										
Bahrain	2,999	6,692	1,922	4,969	-	-	-	-	-	
Philippines	5,306	11,001	24,339	7,467	10,008	6,297	5,186	2,625	402	
Saudi Arabia	824	689	1,515	971	-	-	-	-	-	
Singapore	10,123	6,625	192	3,712	1,062	-	11,035	5,983	6,715	
South Africa	797	-	170	14,305	20,341	30,246	20,718	27,299	30,983	
Indonesia	-	-	-	-	-	-	2,257	3,054	3,146	
Malaysia	1,444	739	-	-	4,811	-	-	1,659	2,157	
Other countries	4,515	3,325	1,248	1,252	1	42	2,473	4,056	-	
Total imports	26,008	29,071	29,386	32,676	36,223	36,585	41,669	44,676	43,404	
Coal										
South Africa	66,009	72,498	62,904	38,450	65,362	38,481	27,782	32,717	103,123	
Mozambique	-	-	-	-	-	-	-	53,627	25,748	
Greece	-	-	-	-	1,000	-	-	-	-	
Total imports	66,009	72,498	62,904	38,450	66,362	38,481	27,782	86,343	128,871	

Table 2.7 - Imports of energy sources (C.I.F. value - Rs million), 1991 - 1999

Energy source	1991	1992	1993	1994	1995	1996	1997	1998	1999
Gasolene	264.4	227.0	260.3	243.7	277.1	381.0	410.6	356.3	475.2
Diesel oil	558.9	492.5	564.4	589.6	660.4	913.2	1,003.9	808.3	1,114.0
Dual Purpose Kerosene	605.7	547.7	559.8	474.8	568.2	903.9	840.6	700.5	998.5
Kerosene	115.7	124.2	109.4	86.9	133.8	386.3	338.4	186.9	178.5
Aviation fuel	490.0	423.5	450.5	387.9	434.4	517.6	502.2	513.6	820.0
Fuel oil	255.8	255.9	271.2	338.2	385.4	449.3	587.3	568.4	717.7
LPG	145.9	165.3	178.4	195.9	228.5	262.4	338.7	323.4	378.2
Coal	52.3	57.0	34.1	35.3	65.2	41.9	31.0	116.2	112.1
Total	1883.0	1745.4	1868.3	1877.6	2184.8	2951.8	3212.1	2873.2	3795.7

Table 2.8 - Re-exports of energy sources to foreign aircraft and bunkers, 1991 - 1999

	1991	1992	1993	1994	1995	1996	1997	1998	1999
	<i>Tonne</i>								
Aviation fuel for foreign aircraft	64,389	47,998	45,538	45,346	42,758	44,572	54,004	53,147	78,263
Diesel oil	53,385	58,953	42,602	85,749	85,054	102,149	104,817	127,316	122,123
Fuel oil	19,376	27,200	18,062	25,533	19,967	26,252	25,708	35,322	46,939
	<i>Ktoe</i>								
Aviation fuel (foreign aircraft)	66.96	49.92	47.36	47.16	44.47	46.35	56.16	55.27	81.39
Diesel oil	53.92	59.54	43.03	86.61	85.90	103.17	105.87	128.59	123.34
Fuel oil	18.60	26.11	17.34	24.51	19.17	25.20	24.68	33.91	45.06
Total	139.48	135.57	107.73	158.28	149.54	174.73	186.71	217.77	249.80

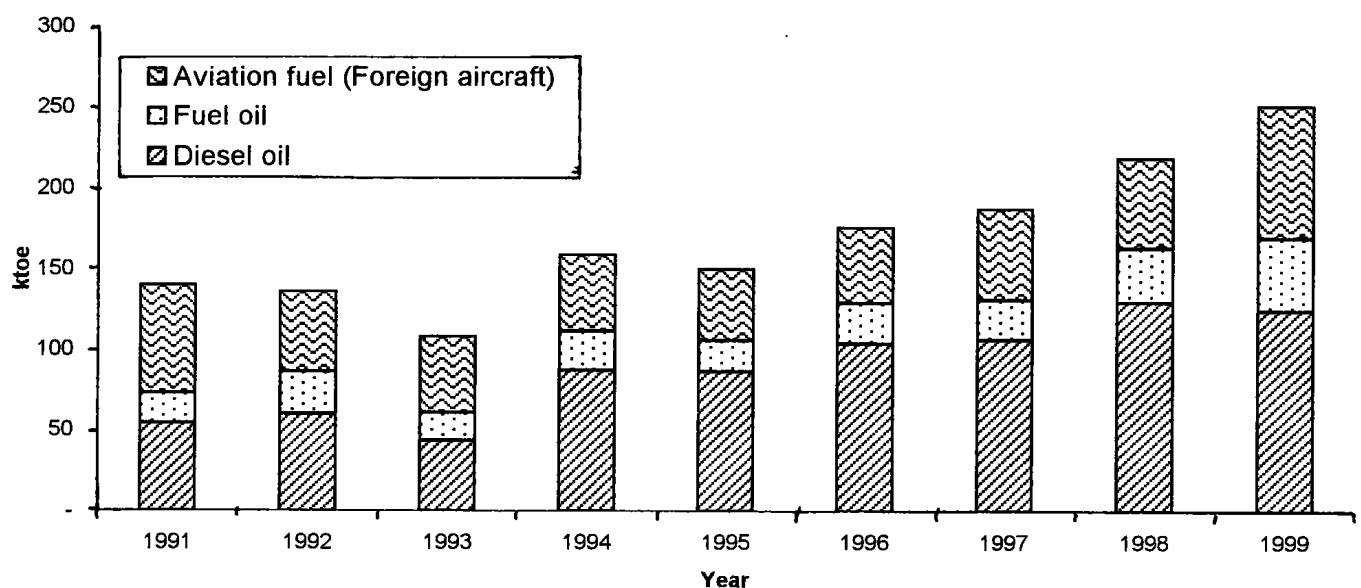
Fig. 2.2 - Re-exports of energy sources (ktoe) to foreign aircraft and bunkers, 1991 - 1999

Table 2.9 - Ratios, 1991 - 1999

	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999
Total primary energy requirement	ktoe	741.67	801.87	814.84	820.71	882.97	918.56	950.96	1,017.37	1,000.01
<i>Imported</i>	ktoe	459.92	504.44	529.94	568.37	584.26	634.70	647.31	707.18	778.72
<i>Local</i>	ktoe	281.75	297.44	284.90	252.34	298.71	283.86	303.65	310.20	221.29
Total primary energy requirement index (1990 = 100)		101.00	109.20	110.96	111.76	120.24	125.09	129.50	138.54	136.18
Import dependency	%	62.01	62.91	65.04	69.25	66.17	69.10	68.07	69.51	77.87
GDP (at 1990 factor cost)	Rs. Mn	34,483	36,759	38,597	40,604	42,878	45,537	48,087	50,827	52,200
GDP Index (1990 = 100)		104.40	111.29	116.85	122.93	129.82	137.87	145.59	153.88	158.04
Energy Intensity	toe per Rs.100,000 GDP	2.15	2.18	2.11	2.02	2.06	2.02	1.98	2.00	1.92
Mid-year population	thousand	1,070	1,084	1,097	1,113	1,122	1,134	1,148	1,160	1,174
Per capita primary energy requirement	toe	0.69	0.74	0.74	0.74	0.79	0.81	0.83	0.88	0.85

Section III

Transformation of energy

Table 3.1 - Evolution of plant capacity, peak demand, electricity generation and consumption, 1991 - 1999

Year	Plant capacity ¹		Peak Demand ¹	Electricity generated				Consumption
	Installed	Effective		Hydro	Wind	Thermal	Total	
	(MW)		(GWh)					
1991	320.6	294.1	147.1	75.46	0.02	668.15	743.62	630.02
1992	331.7	283.9	155.7	113.06	0.17	703.48	816.72	694.41
1993	339.2	307.8	169.6	103.70	0.17	774.36	878.23	750.46
1994	339.2	307.8	187.2	75.45	0.21	879.29	954.95	818.59
1995	364.6	331.9	200.5	134.42	0.04	924.89	1,059.35	913.85
1996	364.6	331.9	218.7	103.82	0.10	1,060.37	1,164.29	995.96
1997	401.7	370.0	238.1	92.44	0.05	1,174.36	1,266.85	1,087.35
1998	480.4	396.7	248.9	104.17	-	1,276.08	1,380.24	1,190.31
1999	509.4	425.7	265.8	29.57	-	1,411.14	1,440.71	1,247.41

¹ Island of Mauritius

Source: Central Electricity Board

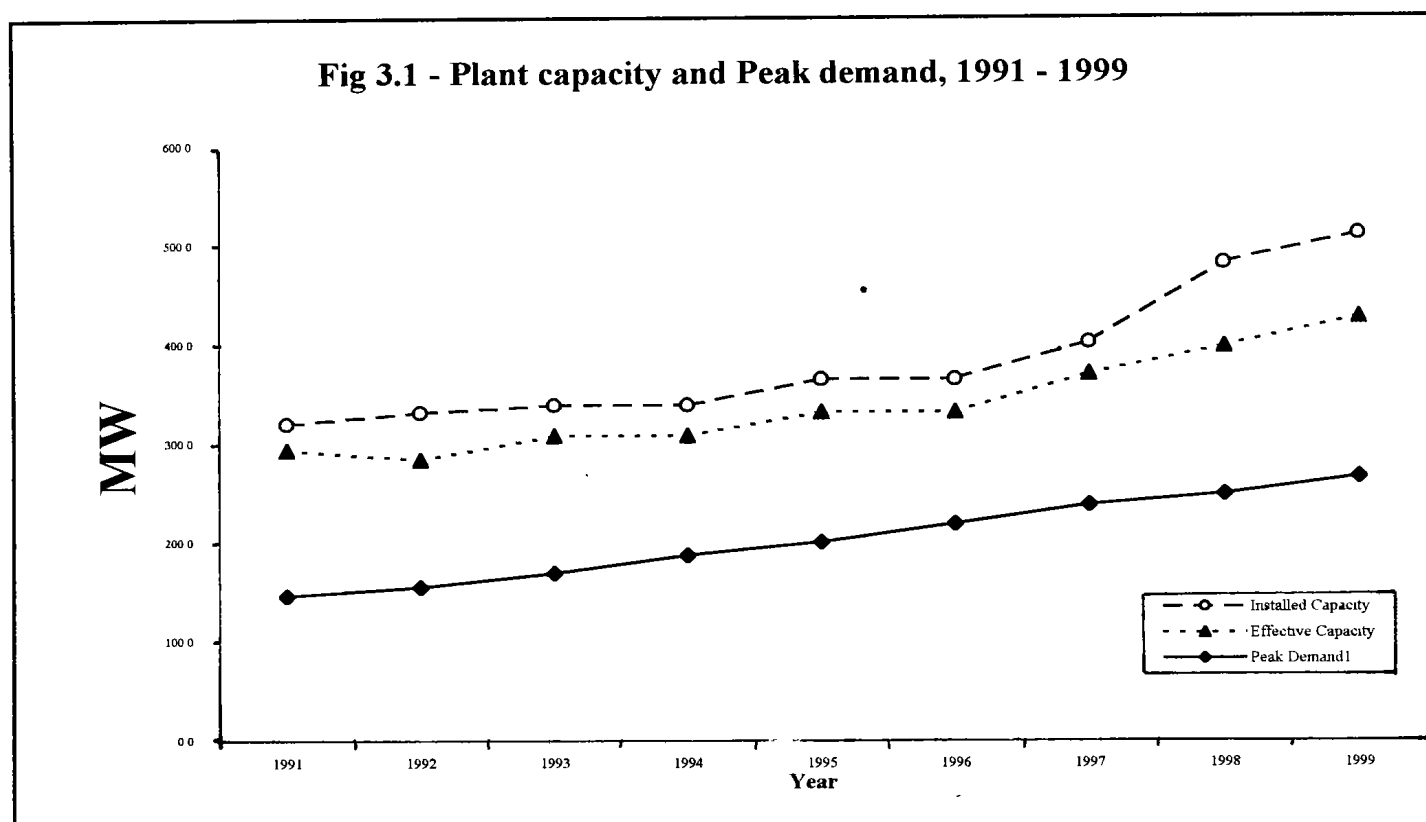


Table 3.2 - Plant capacity ¹ (MW), CEB and Private Sector, 1999

Central Electricity Board			Private Sector		
	Plant capacity			Plant capacity	
	Installed	Effective		Installed	Effective
Hydro:			Hydro:		
Champagne	30.00	28.00	Riche en Eau	0.20	0.20
Ferney	10.00	10.00	Bois Cheri	0.10	0.10
Tamarind Falls	11.10	8.00	Total	0.30	0.30
Le Val	4.00	4.00			
Reduit	1.20	1.20			
Cascade Cecile	1.00	1.00	Thermal:		
Magenta	0.94	0.80	F U E L	36.70	27.00
La Ferme	1.20	1.20	Savannah	15.60	6.00
Total	59.44	54.20	Medine	10.00	8.00
			Belle Vue	0.80	0.80
Thermal:			Britannia	0.60	0.50
St Louis	71.80	54.00	Beau Champ	24.50	22.00
Fort Victoria	61.72	45.00	Mon Desert Alma	11.60	5.00
Nicolay	78.00	76.00	Mon Loisir	1.10	4.50
Fort George	106.00	106.00	Beau Plan	0.40	0.40
Total	317.52	281.00	Riche en Eau	6.50	5.00
			Union St. Aubin	12.70	6.00
			Mon Tresor Mon Desert	11.60	5.00
			Total	132.10	90.20
Total C.E.B.	376.96	335.20	Total Private Sector	132.40	90.50
TOTAL CAPACITY					
1.	Central Electricity Board			376.96	335.20
2.	Private Sector			132.40	90.50
	GRAND TOTAL			509.36	425.70

¹ Island of Mauritius only

Table 3.3 - Electricity production by source of energy, 1991 - 1999

GWh

Source of energy	1991	1992	1993	1994	1995	1996	1997	1998	1999
Island of Mauritius									
Primary energy	75.46	113.06	103.70	75.45	134.42	103.82	92.44	104.17	29.57
Hydro	75.46	113.06	103.70	75.45	134.42	103.82	92.44	104.17	29.57
Secondary energy	661.74	695.60	765.41	869.57	912.95	1047.16	1159.31	1260.62	1393.02
Gas turbine (kerosene)	43.79	69.29	39.60	47.60	105.84	219.03	154.21	161.93	136.64
Diesel & Fuel oil	494.35	497.89	614.77	699.34	682.09	699.30	857.10	841.96	912.66
Coal	53.50	43.10	40.00	46.00	40.90	9.84	23.38	62.39	155.20
Bagasse	70.10	85.32	71.04	76.63	84.12	119.00	124.61	194.34	188.53
Sub total	737.20	808.66	869.11	945.02	1047.37	1150.98	1251.75	1364.78	1422.59
Rodrigues									
Primary energy									
Wind	0.02	0.17	0.17	0.21	0.04	0.10	0.05	0.00	0.00
Secondary energy									
Diesel & Fuel oil	6.41	7.88	8.95	9.72	11.94	13.21	15.06	15.45	18.11
Sub total	6.43	8.06	9.12	9.93	11.98	13.31	15.10	15.45	18.11
Total	743.62	816.72	878.23	954.95	1059.35	1164.29	1266.85	1380.24	1440.71

Table 3.4 - Percentage share of electricity production by source of energy, 1991 - 1999

%

Source of energy	1991	1992	1993	1994	1995	1996	1997	1998	1999
Island of Mauritius									
Primary energy	10.15	13.84	11.81	7.90	12.69	8.92	7.30	7.55	2.05
Hydro	10.15	13.84	11.81	7.90	12.69	8.92	7.30	7.55	2.05
Secondary energy	88.99	85.17	87.15	91.06	86.18	89.94	91.51	91.33	96.69
Gas turbine (kerosene)	5.89	8.48	4.51	4.98	9.99	18.81	12.17	11.73	9.48
Diesel & Fuel oil	66.48	60.96	70.00	73.23	64.39	60.06	67.66	61.00	63.35
Coal	7.19	5.28	4.55	4.82	3.86	0.84	1.85	4.52	10.77
Bagasse	9.43	10.45	8.09	8.02	7.94	10.22	9.84	14.08	13.09
Sub total	99.14	99.01	98.96	98.96	98.87	98.86	98.81	98.88	98.74
Rodrigues									
Primary energy									
Wind	0.00	0.02	0.02	0.02	0.00	0.01	0.00	-	-
Secondary energy									
Diesel & Fuel oil	0.86	0.97	1.02	1.02	1.13	1.13	1.19	1.12	1.26
Sub total	0.86	0.99	1.04	1.04	1.13	1.14	1.19	1.12	1.26
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table 3.5 - Generation of electricity by CEB and Private Sector, 1991 - 1999

	GWh								
Power station	1991	1992	1993	1994	1995	1996	1997	1998	1999
CEB	619.47	687.69	766.39	832.10	934.08	1,035.29	1,118.60	1,123.29	1,096.95
<i>Hydro</i>	<i>74.90</i>	<i>112.45</i>	<i>102.90</i>	<i>75.23</i>	<i>134.17</i>	<i>103.65</i>	<i>92.18</i>	<i>103.95</i>	<i>29.53</i>
Champagne	24.70	44.31	42.73	29.35	53.25	38.01	30.73	32.36	10.66
Ferney	24.73	29.76	29.43	23.08	35.68	28.35	28.83	30.19	10.70
Tamarin Falls	15.17	19.80	21.40	17.39	23.66	20.88	17.65	24.42	5.75
Eau Bleue	4.71	8.27	1.28	0.30	9.36	5.80	5.53	6.33	0.35
Reduit	1.66	3.04	2.96	2.01	4.07	3.15	2.55	1.98	0.16
Cascade Cecile	2.23	3.33	2.16	0.64	3.46	2.76	3.32	3.78	1.34
Magenta	1.56	2.27	2.71	2.11	2.85	2.50	1.93	2.84	0.57
La Ferme	0.14	1.67	0.23	0.35	1.84	2.20	1.63	2.05	-
<i>Wind</i>	<i>0.02</i>	<i>0.17</i>	<i>0.17</i>	<i>0.21</i>	<i>0.04</i>	<i>0.10</i>	<i>0.05</i>	-	-
Island of Rodrigues	0.02	0.17	0.17	0.21	0.04	0.10	0.05	-	-
<i>Thermal</i>	<i>544.55</i>	<i>575.06</i>	<i>663.32</i>	<i>756.66</i>	<i>799.87</i>	<i>931.54</i>	<i>1,026.37</i>	<i>1,019.35</i>	<i>1,067.41</i>
Fort Georges	-	31.13	240.23	275.95	292.07	306.33	477.23	450.10	513.70
St Louis	280.71	258.71	218.31	254.11	246.80	249.45	227.49	236.90	228.92
Fort Victoria	213.64	208.05	156.23	169.28	143.22	143.52	152.38	154.95	170.04
Nicolay	43.79	69.29	39.60	47.60	105.84	219.03	154.21	161.93	136.64
Island of Rodrigues	6.41	7.88	8.95	9.72	11.94	13.21	15.06	15.45	18.11
Private Sector	124.16	129.03	111.84	122.85	125.27	129.00	148.25	256.95	343.76
<i>Hydro</i>	<i>0.56</i>	<i>0.61</i>	<i>0.80</i>	<i>0.22</i>	<i>0.25</i>	<i>0.17</i>	<i>0.25</i>	<i>0.22</i>	<i>0.04</i>
Riche en Eau	0.47	0.52	0.70	0.14	0.11	0.06	0.17	0.13	0.00
Bois Cheri	0.09	0.08	0.10	0.08	0.13	0.11	0.08	0.09	0.03
<i>Thermal</i>	<i>123.60</i>	<i>128.42</i>	<i>111.04</i>	<i>122.63</i>	<i>125.02</i>	<i>128.83</i>	<i>148.00</i>	<i>256.73</i>	<i>343.72</i>
F.U.E.L.	92.30	93.83	80.40	90.32	89.43	88.27	89.44	78.53	167.19
Other Sugar Mills	31.30	34.59	30.64	32.31	35.59	40.56	58.55	178.20	176.53
Total	743.62	816.72	878.23	954.95	1,059.35	1,164.29	1,266.85	1,380.24	1,440.71

Table 3.6 - Percentage share of electricity generated by CEB and Private Sector, 1991 - 1999

	%								
Power station	1991	1992	1993	1994	1995	1996	1997	1998	1999
CEB	83.3	84.2	87.3	87.1	88.2	88.9	88.3	81.4	76.1
<i>Hydro</i>	<i>10.1</i>	<i>13.8</i>	<i>11.7</i>	<i>7.9</i>	<i>12.7</i>	<i>8.9</i>	<i>7.3</i>	<i>7.5</i>	<i>2.0</i>
Champagne	3.3	5.4	4.9	3.1	5.0	3.3	2.4	2.3	0.7
Ferney	3.3	3.6	3.4	2.4	3.4	2.4	2.3	2.2	0.7
Tamarin Falls	2.0	2.4	2.4	1.8	2.2	1.8	1.4	1.8	0.4
Eau Bleue	0.6	1.0	0.1	0.0	0.9	0.5	0.4	0.5	0.0
Reduit	0.2	0.4	0.3	0.2	0.4	0.3	0.2	0.1	0.0
Cascade Cecile	0.3	0.4	0.2	0.1	0.3	0.2	0.3	0.3	0.1
Magenta	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.0
La Ferme	0.0	0.2	0.0	0.0	0.2	0.2	0.1	0.1	-
<i>Wind</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	-	-
Island of Rodrigues	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-
<i>Thermal</i>	<i>73.2</i>	<i>70.4</i>	<i>75.5</i>	<i>79.2</i>	<i>75.5</i>	<i>80.0</i>	<i>81.0</i>	<i>73.9</i>	<i>74.1</i>
Fort Georges	-	3.8	27.4	28.9	27.6	26.3	37.7	32.6	35.7
St Louis	37.7	31.7	24.9	26.6	23.3	21.4	18.0	17.2	15.9
Fort Victoria	28.7	25.5	17.8	17.7	13.5	12.3	12.0	11.2	11.8
Nicolay	5.9	8.5	4.5	5.0	10.0	18.8	12.2	11.7	9.5
Island of Rodrigues	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.1	1.3
Private Sector	16.7	15.8	12.7	12.9	11.8	11.1	11.7	18.6	23.9
<i>Hydro</i>	<i>0.1</i>	<i>0.1</i>	<i>0.1</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
Riche en Eau	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Bois Cheri	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Thermal</i>	<i>16.6</i>	<i>15.7</i>	<i>12.6</i>	<i>12.8</i>	<i>11.8</i>	<i>11.1</i>	<i>11.7</i>	<i>18.6</i>	<i>23.9</i>
F.U.E.L.	12.4	11.5	9.2	9.5	8.4	7.6	7.1	5.7	11.6
Other Sugar Mills	4.2	4.2	3.5	3.4	3.4	3.5	4.6	12.9	12.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: Central Electricity Board

Table 3.7 - Fuel input (tonne) for electricity production, 1991 - 1999

	Tonne								
Fuel	1991	1992	1993	1994	1995	1996	1997	1998	1999
Island of Mauritius									
Fuel oil	108,651	108,096	128,125	147,129	142,886	145,398	160,798	176,006	190,683
Diesel oil	2,049	2,609	2,768	2,844	2,599	2,202	2,299	2,529	3,064
Kerosene	13,558	21,330	12,272	14,789	32,332	65,827	46,993	49,676	41,948
Coal	38,468	33,780	30,853	31,949	30,289	6,557	18,430	45,035	112,123
Bagasse*	179,020	191,070	172,700	184,232	197,389	287,210	300,726	464,773	451,020
Island of Rodrigues									
Diesel oil *	1,440	1,775	2,010	2,190	2,685	2,230	1,130	1,223	440
Fuel oil *	-	-	-	-	-	611	1,860	2,726	3,740

* Estimates

Table 3.8 - Fuel input (ktoe) for electricity production, 1991 - 1999

	ktoe								
Fuel	1991	1992	1993	1994	1995	1996	1997	1998	1999
Island of Mauritius									
Fuel oil	104.30	103.77	123.00	141.24	137.17	139.58	154.37	168.97	183.06
Diesel oil	2.07	2.64	2.80	2.87	2.62	2.22	2.32	2.55	3.10
Kerosene	14.10	22.18	12.76	15.38	33.63	68.46	48.87	51.66	43.63
Coal	23.85	20.94	19.13	19.81	18.78	4.07	11.43	27.92	69.52
Bagasse *	28.64	30.57	27.63	29.48	31.58	45.95	48.12	74.36	72.16
Sub total	172.97	180.11	185.32	208.78	223.78	260.28	265.10	325.47	371.46
Island of Rodrigues									
Diesel oil *	1.45	1.79	2.03	2.21	2.71	2.25	1.14	1.24	0.44
Fuel oil *	-	-	-	-	-	0.59	1.79	2.62	3.59
Sub total	1.45	1.79	2.03	2.21	2.71	2.84	2.93	3.85	4.03
Total	174.42	181.90	187.35	210.99	226.49	263.12	268.03	329.32	375.49

* Estimates

Table 3.9 - Percentage share of fuel input (ktoe) for electricity production, 1991 - 1999

	%								
Fuel	1991	1992	1993	1994	1995	1996	1997	1998	1999
Island of Mauritius									
Fuel oil	59.8	57.0	65.7	66.9	60.6*	53.0	57.6	51.3	48.8
Diesel oil	1.2	1.4	1.5	1.4	1.2	0.8	0.9	0.8	0.8
Kerosene	8.1	12.2	6.8	7.3	14.8	26.0	18.2	15.7	11.6
Coal	13.7	11.5	10.2	9.4	8.3	1.5	4.3	8.5	18.5
Bagasse *	16.4	16.8	14.7	14.0	13.9	17.5	18.0	22.6	19.2
Sub total	99.2	99.0	98.9	99.0	98.8	98.9	98.9	98.8	98.9
Island of Rodrigues									
Diesel oil *	0.8	1.0	1.1	1.0	1.2	0.9	0.4	0.4	0.1
Fuel oil *	-	-	-	-	-	0.2	0.7	0.8	1.0
Sub total	0.8	1.0	1.1	1.0	1.2	1.1	1.1	1.2	1.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

* Estimates

Section IV

Final energy consumption

Table 4.1 - Final energy consumption by sector (Energy unit - ktoe), 1991 - 1999

Sector	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. Manufacturing	324.72	345.65	348.59	331.81	373.46	367.53	396.45	386.55	325.33
1.1 excluding bagasse	106.44	116.14	126.26	133.43	142.67	158.27	166.01	178.19	187.19
1.2 bagasse	218.28	229.51	222.33	198.39	230.79	209.26	230.44	208.36	138.14
2. Transport	220.29	249.33	256.38	269.73	268.77	285.46	291.37	308.92	325.44
3. Residential	97.79	99.08	109.24	110.27	119.15	125.80	133.24	141.77	147.58
4. Commercial and Distributive Trade	36.10	40.61	44.96	49.78	54.51	59.63	67.33	74.63	78.64
5. Agriculture	4.65	5.07	4.94	5.91	5.73	6.77	6.64	7.80	7.28
6. Other (n.e.s) and losses	24.26	28.64	26.47	28.08	30.61	35.92	37.82	39.92	41.58
TOTAL	707.82	768.37	790.57	795.58	852.22	881.12	932.84	959.58	925.85

Table 4.2 - Percentage share of final energy consumption (ktoe) by sector, 1991 - 1999

Sector	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. Manufacturing	45.9	45.0	44.1	41.7	43.8	41.7	42.5	40.3	35.1
1.1 excluding bagasse	15.0	15.1	16.0	16.8	16.7	18.0	17.8	18.6	20.2
1.2 bagasse	30.8	29.9	28.1	24.9	27.1	23.7	24.7	21.7	14.9
2. Transport	31.1	32.4	32.4	33.9	31.5	32.4	31.2	32.2	35.2
3. Residential	13.8	12.9	13.8	13.9	14.0	14.3	14.3	14.8	15.9
4. Commercial and Distributive Trade	5.1	5.3	5.7	6.3	6.4	6.8	7.2	7.8	8.5
5. Agriculture	0.7	0.7	0.6	0.7	0.7	0.8	0.7	0.8	0.8
6. Other (n.e.s) and losses	3.4	3.7	3.3	3.5	3.6	4.1	4.1	4.2	4.5
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

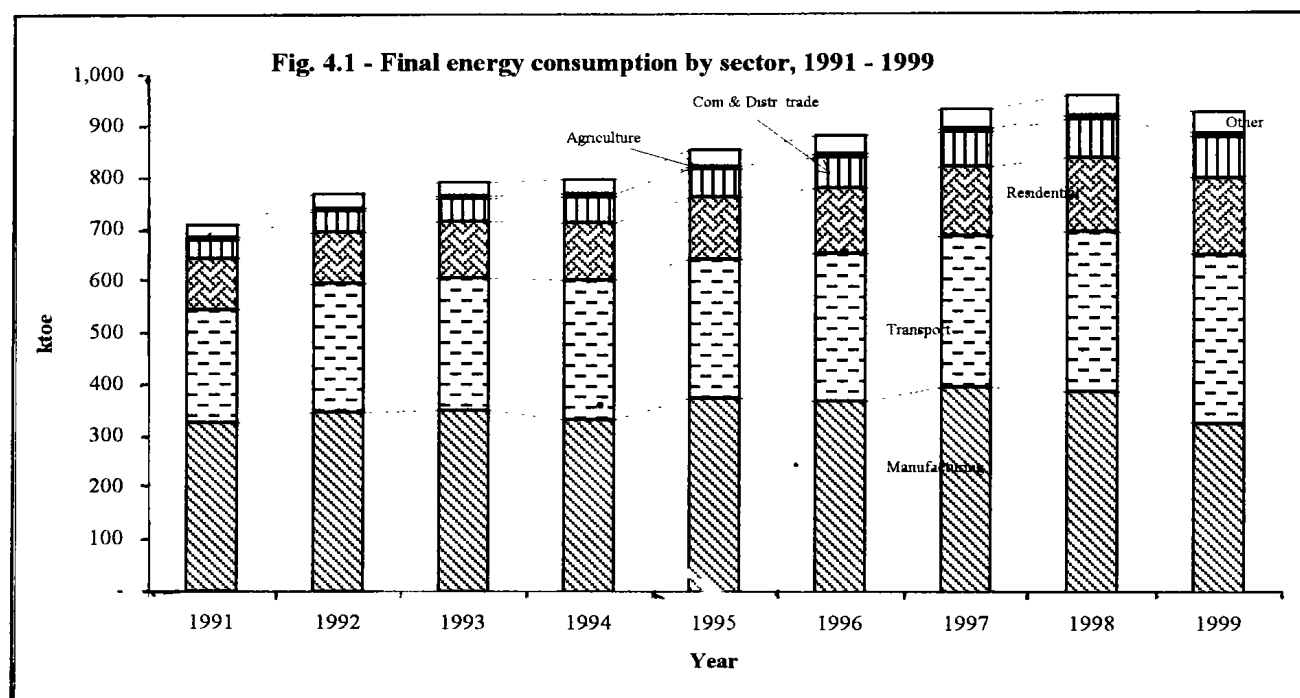


Table 4.3 - Final energy consumption (Physical unit) by sector and type of fuel, 1991 - 1999

Sector	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. Manufacturing										
1.1 excluding bagasse										
Fuel oil	tonne	23,687	26,909	29,362	31,814	34,203	36,590	39,518	42,774	45,150
Diesel oil	tonne	13,500	15,000	16,459	18,373	17,255	23,367	26,622	30,233	32,650
LPG	tonne	1,300	1,800	2,200	2,470	2,550	2,761	3,179	3,276	3,600
Coal	tonne	21,500	27,000	31,593	30,647	32,797	33,727	27,242	25,713	24,490
Fuel wood ¹	tonne	11,267	7,070	7,142	4,382	3,900	3,400	2,500	2,000	1,800
Electricity ²	GWh	232.06	244.49	258.07	277.25	308.37	338.00	363.23	392.51	414.16
1.2 bagasse	tonne	1,364,253	1,434,409	1,389,567	1,239,912	1,442,421	1,307,894	1,440,250	1,302,219	863,350
2. Transport										
Gasolene	tonne	61,453	67,848	72,308	79,595	83,958	87,387	87,671	88,592	89,500
Diesel oil	tonne	80,165	86,319	94,092	99,202	101,876	106,224	113,361	118,934	126,500
Aviation fuel (local aircraft)	tonne	70,153	85,454	80,052	80,363	72,305	80,569	79,025	89,537	97,126
3. Residential										
Kerosene	tonne	14,082	12,296	11,699	10,793	10,590	10,504	9,533	9,472	9,100
LPG	tonne	22,500	25,000	27,458	27,550	28,600	30,437	32,313	33,100	35,000
Fuel wood ¹	tonne	26,291	16,498	16,664	10,226	9,100	8,600	8,000	8,000	8,000
Charcoal ¹	tonne	1,200	1,100	1,000	500	400	300	200	200	200
Electricity ²	GWh	218.05	237.30	274.29	295.63	334.05	356.90	387.44	422.67	441.48
4. Commercial and Distributive Trade										
LPG	tonne	2,100	2,500	3,264	3,281	3,150	3,356	3,650	4,000	4,500
Charcoal ¹	tonne	1,400	1,200	1,000	1,000	800	500	300	300	300
Electricity ²	GWh	149.05	168.28	184.96	206.78	229.62	252.90	287.12	318.58	334.37
5. Agriculture										
Diesel oil ¹	tonne	1,500	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300
Electricity ²	GWh	14.25	15.69	14.63	18.59	17.31	21.60	20.53	25.34	22.53

¹ Estimates

² Island of Mauritius only

Table 4.4 - Final energy consumption (Energy unit - ktoe) by sector and type of fuel, 1991 - 1999

Sector	Unit	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. Manufacturing		324.72	345.65	348.59	331.81	373.46	367.53	396.45	386.55	325.33
1.1 excluding bagasse		106.44	116.14	126.26	133.43	142.67	158.27	166.01	178.19	187.19
Fuel oil	ktoe	22.74	25.83	28.19	30.54	32.83	35.13	37.94	41.06	43.34
Diesel oil	ktoe	13.64	15.15	16.62	18.56	17.43	23.60	26.89	30.54	32.98
LPG	ktoe	1.40	1.94	2.38	2.67	2.75	2.98	3.43	3.54	3.89
Coal	ktoe	13.33	16.74	19.59	19.00	20.33	20.91	16.89	15.94	15.18
Fuel wood ¹	ktoe	4.28	2.69	2.71	1.67	1.48	1.29	0.95	0.76	0.68
Electricity ²	ktoe	51.05	53.79	56.78	61.00	67.84	74.36	79.91	86.35	91.11
1.2 bagasse		218.28	229.51	222.33	198.39	230.79	209.26	230.44	208.36	138.14
2. Transport		220.29	249.33	256.38	269.73	268.77	285.46	291.37	308.92	325.44
Gasolene	ktoe	66.37	73.28	78.09	85.96	90.67	94.38	94.68	95.68	96.66
Diesel oil	ktoe	80.97	87.18	95.03	100.19	102.89	107.29	114.49	120.12	127.77
Aviation Fuel	ktoe	72.96	88.87	83.25	83.58	75.20	83.79	82.19	93.12	101.01
3. Residential		97.79	99.08	109.24	110.27	119.15	125.80	133.24	141.77	147.58
Kerosene	ktoe	14.65	12.79	12.17	11.22	11.01	10.92	9.91	9.85	9.46
LPG	ktoe	24.30	27.00	29.65	29.75	30.89	32.87	34.90	35.75	37.80
Fuel wood ¹	ktoe	9.99	6.27	6.33	3.89	3.46	3.27	3.04	3.04	3.04
Charcoal ¹	ktoe	0.89	0.81	0.74	0.37	0.30	0.22	0.15	0.15	0.15
Electricity ²	ktoe	47.97	52.21	60.34	65.04	73.49	78.52	85.24	92.99	97.12
4. Commercial and Distributive Trade		36.10	40.61	44.96	49.78	54.51	59.63	67.33	74.63	78.64
LPG	ktoe	2.27	2.70	3.53	3.54	3.40	3.62	3.94	4.32	4.86
Charcoal ¹	ktoe	1.04	0.89	0.74	0.74	0.59	0.37	0.22	0.22	0.22
Electricity ²	ktoe	32.79	37.02	40.69	45.49	50.52	55.64	63.17	70.09	73.56
5. Agriculture		4.65	5.07	4.94	5.91	5.73	6.77	6.64	7.80	7.28
Diesel oil ¹	ktoe	1.52	1.62	1.72	1.82	1.92	2.02	2.12	2.22	2.32
Electricity ²	ktoe	3.14	3.45	3.22	4.09	3.81	4.75	4.52	5.57	4.96
6. Other (n.e.s) and losses		24.26	28.64	26.47	28.08	30.61	35.92	37.82	39.92	41.58
TOTAL		707.82	768.37	790.57	795.58	852.22	881.12	932.84	959.58	925.85

¹ Estimates² Island of Mauritius only

Table 4.6 - Sales of electricity by sector, 1991 - 1999

Sector	1991	1992	1993	1994	1995	1996	1997	1998 ¹	1999 ²
Number of consumers									
Domestic	203,741	211,655	220,309	225,450	237,209	245,769	253,518	261,971	271,061
Commercial	18,510	19,400	20,503	21,356	22,924	23,631	24,216	24,914	25,730
Industrial	5,252	5,550	5,803	6,038	6,404	6,539	6,596	6,751	6,981
<i>General</i>	5,122	5,361	5,592	5,807	6,163	6,269	6,308	6,342	6,419
<i>Irrigation</i>	130	189	211	231	241	270	288	409	562
Other	196	197	200	222	230	239	246	251	257
Total (I. of Mauritius)	227,699	236,802	246,815	253,066	266,767	276,178	284,576	293,887	304,029
Total (I. of Rodrigues)	6,476	7,097	7,393	7,692	7,905	8,279	8,608	8,964	9,273
Quantity sold (KWh)									
Domestic	220.4	249.3	274.3	295.6	334.1	357.9	387.4	422.7	441.5
Commercial	149.4	168.3	185.0	206.8	229.6	253.6	287.1	318.6	334.4
Industrial	246.4	260.2	272.7	295.8	325.7	358.0	383.8	417.8	436.7
<i>General</i>	232.2	244.5	258.1	277.2	308.4	336.7	363.2	392.5	414.2
<i>Irrigation</i>	14.2	15.7	14.6	18.6	17.3	21.3	20.5	25.3	22.5
Other	8.5	10.3	10.9	11.8	14.6	15.6	16.8	17.3	20.0
Total (I. of Mauritius)	624.7	688.1	742.9	810.0	904.0	985.0	1,075.1	1,176.4	1,232.5
Total (I. of Rodrigues)	5.3	6.3	7.6	8.6	9.9	11.0	12.2	13.9	14.9
Sales value³ (Rs.mn)									
Domestic	413.0	494.4	591.7	641.4	730.3	780.8	849.4	933.1	1,007.2
Commercial	345.0	408.5	486.5	541.9	604.0	662.5	760.3	799.7	839.1
Industrial:	437.0	474.2	512.2	552.3	598.9	648.7	706.4	731.3	794.8
<i>General</i>	418.4	453.4	492.4	527.2	575.4	619.5	677.6	688.5	733.9
<i>Irrigation</i>	18.6	20.8	19.8	25.2	23.5	29.3	28.8	42.8	61.0
Other	25.8	32.3	33.1	35.2	17.2	43.8	50.8	52.3	57.1
Total (I. of Mauritius)	1,220.9	1,409.4	1,623.5	1,770.8	1,950.5	2,135.9	2,366.8	2,516.4	2,698.2

1 Revised

2 Provisional

3 Island of Mauritius only (excluding meter rent and VAT)

Source: Central Electricity Board

