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ENERGY STATISTICS - 2001

Introduction

This issue of the "Economic and Social Indicators" consists of Energy Statistics for the years 2000 and 2001. These statistics have been compiled in close collaboration with the Ministry of Public Utilities and the Central Electricity Board and refer to the Republic of Mauritius.

For meaningful analysis, the quantities of the different types of fuel have been expressed in common energy unit, namely, tonnes of oil equivalent (**toe**). To be consistent with international practices, the energy content of electricity has been revised from its thermal primary equivalent to its thermal final equivalent. This change in conversion factor has a downward effect on our final energy consumption. Figures for 1992 onwards have been amended accordingly. The conversion factors used are given on page 6.

Energy commodity balance for the years 2001 and 2000 are given in Tables 1 and 2, imports and re-exports of energy sources, in Tables 4 and 5 and final energy consumption, in Table 11.

2 The energy commodity balance

The energy commodity balance shows the supply and final uses of electricity and the different types of fuel. Total primary energy requirement is obtained as the sum of the indigenous production (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, for example, transformation of coal and fuel oil into electricity. Own use and losses during transformation are also recorded. 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, household and agriculture.

2.1 Total primary energy requirement

During the year 2001, the total primary energy requirement increased by 5.8 %, from 1,125.9 ktoe to 1,191.5 ktoe.

The total primary energy requirement of the country was derived from imported fuels (75.6%) and locally available sources (24.4%) (Table 3). In 2001, imported petroleum products represented 715.7 ktoe, the main components of which being fuel oil (33.0%), diesel (26.6%), aviation fuel (18.1%) and gasolene (13.2%).

Bagasse contributed to 92.1% of the indigenous production (267.4 ktoe) and the remaining 7.9% was derived from hydroelectricity and fuel wood (22.9 ktoe).

2.1.1 Local production

Total energy production from local sources reached 290.4 ktoe in 2001 compared to 276.9 ktoe in 2000, representing an increase of 4.9%. Production of bagasse increased by 7.6% from 248.5 ktoe in 2000 to 267.4 ktoe in 2001. Hydroelectricity, on the other hand, decreased by 25.7% from 21 ktoe to 15.6 ktoe. Fuel wood, as a source of energy, remained almost constant at 7.3 ktoe.

2.1.2 Imports of energy sources

Data on imports of energy sources show that imports of petroleum products increased by 4.6% from 927.2 ktoe to 969.4 ktoe and coal, by 56.2% from 137.9 ktoe to 215.4 ktoe. The substantial rise in the imports of coal reflects its increased use in electricity production (Table 4). However, total primary energy requirement from imported fuel rose by 6.1% from 849.0 ktoe to 901.2 ktoe (Table 3).

2.1.3 Re-exports and bunkering

Of the 969.4 ktoe of imported petroleum products, 279.5 ktoe were re-exported to bunkers and foreign aircraft. Re-exports consisted of 158.3 ktoe of diesel oil, 42.2 ktoe of fuel oil and 79 ktoe of aviation fuel. (Table 5)

2.2 Electricity generation

In 2001, 1,910.8 GWh (164.3 ktoe) of electricity was generated, as compared to 1,777.5 GWh (152.9 ktoe) in 2000, representing an increase of 7.5%. The Central Electricity Board (CEB) generated 50.6% and the Independent Power Producers (IPP's) of the sugar industry, 49.4%. Thermal energy represented 96.3% and hydro, the remaining 3.7%. The installed capacity of the power plants remained at 660.8 MW while the effective capacity rose from 577.2 MW in 2000 to 579.2 MW in 2001. The peak demand in 2001 reached 297.4 MW (Tables 6 - 8).

2.2.1 Fuel input for electricity generation

The different types of fuel used for electricity generation are shown in Table 9. Fuel input increased from 490.6 ktoe in 2000 to 537.3 ktoe in 2001, representing an increase of 9.5%. In 2001, the major components of the fuel input were bagasse (34%), fuel oil (33.1%), and coal (31.6%).

2.2.2 Number of electricity consumers and average unit price by category

The total number of electricity consumers increased from 323,652 in 2000 to 333,028 in 2001. The domestic category had the highest number of consumers (297,051) followed by commercial (28,594) and industrial (7,084). The average sales price of electricity increased from Rs 2.31 per KWh in 2000 to Rs 2.69 per KWh in 2001 (Table 10).

2.3 Final energy consumption

The final energy consumption increased from 749.0 ktoe in 2000 to 784.4 ktoe in 2001, showing an increase of 4.7%. The highest increase was registered in the "Commercial and Distributive Trade" sector whose energy consumption rose by 10.4% from 36.9 ktoe to 40.8 ktoe. The following changes were noted in the other sectors: "Manufacturing" (+5.0%), "Transport" (+4.6%), "Household" (-2.5%).

In 2001, "Transport" and "Manufacturing" were the two largest energy-consuming sectors accounting for 47.5% and 33.5% of total consumption respectively. Consumption by "Household" sector represented 13.0%, followed by "Commercial and Distributive Trade", 5.2% and "Agriculture", 0.6%. Details on the different types and amount of fuel consumed by each sector are given in Table 11.

2.3.1 Manufacturing

Energy used for manufacturing process in 2001 amounted to 262.4 ktoe, representing an increase of 5.0% over the figure of 249.9 ktoe registered in 2000. Bagasse contributed 84.6 ktoe, electricity, 61.2 ktoe, fuel oil and diesel oil, 96.1 ktoe.

2.3.2 Transport

In 2001, 372.3 ktoe of energy were used for transportation. Gasolene consumption decreased by 4.6% from 99.4 ktoe to 94.8 ktoe, while consumption of diesel oil went up by 2.5% from 143.4 ktoe to 147.0 ktoe and aviation fuel, by 15.3% from 112.4 ktoe to 129.6 ktoe. A 30% rise in the use of LPG, from 0.7 ktoe in 2000 to 0.9 ktoe in 2001, was also registered.

2.3.3 Commercial and Distributive Trade

Total energy consumption by "Commercial and Distributive Trade" sector increased by 10.4% from 36.9 ktoe in 2000 to 40.8 ktoe in 2001. Electricity was the main source of energy and its consumption increased from 32.2 ktoe to 35.7 ktoe.

2.3.4 Household

In 2001, energy consumed by households went down by 2.5% to reach 101.8 ktoe. The two main sources of energy for households were electricity and LPG. Electricity consumption increased by 6.3 % from 42.3 ktoe to 44.9 ktoe whilst that of LPG remained almost at the same level, 40.7 ktoe in 2000 compared to 40.9 ktoe in 2001.

2.3.5 Agriculture

Electricity and diesel oil are the only two sources of energy used in agriculture. In 2001, 2.3 ktoe of electricity were used for irrigation and 2.5 ktoe of diesel oil were used for derocking of land and for the preparation of soil prior to plantation.

3. Energy Ratios

As shown in Table 12, the total primary energy requirement index, expressed with 1990 as reference year (1990 = 100), increased by 5.8% from 150.9 in 2000 to 159.7 in 2001. Per capita primary energy requirement increased by 4.2% from 0.95 toe to 0.99 toe.

Energy intensity, defined as total primary energy requirement (toe) per Rs 100,000 of GDP (in 1990 rupees), provides a measure of the efficiency with which energy is being used in production. A lower ratio indicates a more efficient use of energy. Energy intensity stood at 1.96 in 2001, remaining at the same level as in 2000.

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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)

	<u>Tonne</u>	<u>toe</u>
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>
Hydro (primary)	1	220
Electricity	1	86

Note: Prior to 2001, electricity in the final energy balance was converted into its thermal primary equivalent (1 GWh = 220 toe). To be consistent with international practice, its thermal final equivalent, (1 GWh = 86 toe), is now being used. Data for the year 1992 onwards have been amended accordingly.

1 toe = 41.84 gigajoule (net calorific value)

SYMBOLS

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
IPP	Independent Power Producers of the Sugar Industry
GDP	Gross Domestic Product

Table 1- Energy commodity balance, 2001

Tonne of oil equivalent (toe)

Source / Flow	Coal	Gasolene	Diesel	Aviation Fuel	Kerosene	Fuel Oil	LPG	Fuel Wood	Charcoal	Hydro	Bagasse	Electricity	Total
Local Production	-	-	-	-	-	-	-	7,342	-	15,580	267,440	-	290,362
Imports	215,426	93,715	341,424	210,274	12,465	264,132	47,399	-	-	-	-	-	1,184,837
Re-Exports and Bunkering	-	-	(158,288)	(78,988)	-	(42,200)	-	-	-	-	-	-	(279,476)
Stock change / Statistical error	(29,949)	1,054	7,437	(1,648)	1,304	14,196	3,415	-	-	-	-	-	(4,192)
Total Primary Energy Requirement	185,477	94,769	190,574	129,638	13,769	236,129	50,814	7,342	-	15,580	267,440	-	1,191,532
Electricity Generation	-	-	(3,169)	-	(3,910)	(177,924)	-	-	-	(15,498)	-	83,189	(117,312)
Autoproducer plants	(169,493)	-	-	-	-	-	-	-	-	(83)	(182,800)	81,104	(271,272)
Other transformation	-	-	-	-	-	-	-	(730)	355	-	-	-	(374)
Own use	-	-	-	-	-	-	-	-	-	-	-	(3,721)	(3,721)
Distribution losses	-	-	-	-	-	-	-	-	-	-	-	(14,425)	(14,425)
Total Final Energy Consumption	15,984	94,769	187,404	129,638	9,859	58,205	50,814	6,612	355	-	84,640	146,146	784,426
Manufacturing Sector	15,984	-	37,908	-	-	58,205	3,942	570	-	-	84,640	61,163	262,413
Transport Sector	-	94,769	147,012	129,638	-	-	886	-	-	-	-	-	372,304
Commercial and Distributive Trade Sector	-	-	-	-	-	-	4,806	-	244	-	-	35,728	40,779
Household	-	-	-	-	9,859	-	40,878	6,042	111	-	-	44,950	101,841
Agriculture	-	-	2,485	-	-	-	-	-	-	-	-	2,302	4,787
Other	-	-	-	-	-	-	302	-	-	-	-	2,002	2,304

Note: figures in brackets represent negative quantities

Table 2 - Energy commodity balance, 2000

Tonne of oil equivalent (toe)

Flow \ Source	Coal	Gasolene	Diesel	Aviation Fuel	Kerosene	Fuel Oil	LPG	Fuel Wood	Charcoal	Hydro	Bagasse	Electricity	Total
Local production	-	-	-	-	-	-	-	7,334	-	21,044	248,528	-	276,906
Imports	137,902	97,010	343,068	197,619	28,445	210,012	51,099	-	-	-	-	-	1,065,155
Re-exports and bunkering	-	-	(161,566)	(91,018)	-	(55,316)	-	-	-	-	-	-	(307,900)
Stock change / Statistical error	18,948	2,350	9,756	5,804	(4,857)	60,838	(1,071)	-	-	-	-	-	91,768
Total Primary Energy Requirement	156,850	99,360	191,259	112,405	23,588	215,534	50,028	7,334	-	21,044	248,528	-	1,125,929
Public electricity generation plant	-	-	(3,398)	-	(13,604)	(168,494)	-	-	-	(20,956)	-	84,547	(121,905)
Autoproducer plants	(141,682)	-	-	-	-	-	-	-	-	(88)	(163,440)	68,284	(236,927)
Other transformation	-	-	-	-	-	-	-	(684)	333	-	-	-	(351)
Own use	-	-	-	-	-	-	-	-	-	-	-	(3,379)	(3,379)
Distribution losses	-	-	-	-	-	-	-	-	-	-	-	(14,416)	(14,416)
Total Final Consumption	15,168	99,360	187,861	112,405	9,984	47,040	50,028	6,650	333	-	85,088	135,035	748,952
Manufacturing sector	15,168	-	42,016	-	-	47,040	3,984	570	-	-	85,088	56,020	249,886
Transport sector	-	99,360	143,421	112,405	-	-	684	-	-	-	-	-	355,870
Commercial and distributive trade sector	-	-	-	-	-	-	4,482	-	222	-	-	32,230	36,934
Household	-	-	-	-	9,984	-	40,727	6,080	111	-	-	42,296	99,198
Agriculture	-	-	2,424	-	-	-	-	-	-	-	-	2,342	4,766
Other	-	-	0	-	-	-	151	-	-	-	-	2,147	2,298

Note: figures in brackets represent negative quantities

Table 3 - Primary energy requirement , 2000 - 2001

Energy source	2000			2001		
	Tonne/GWh	Ktoe	%	Tonne/GWh	Ktoe	%
Imported						
Gasolene	92,000	99.36	8.8	87,749	94.77	8.0
Diesel Oil	189,365	191.26	17.0	188,687	190.57	16.0
Dual Purpose Kerosene	130,763	135.99	12.1	137,892	143.41	12.0
<i>Kerosene</i>	22,681	23.59	2.1	13,240	13.77	1.2
<i>Aviation Fuel</i>	108,082	112.41	10.0	124,652	129.64	10.9
Fuel Oil	224,515	215.53	19.1	245,967	236.13	19.8
LPG	46,322	50.03	4.4	47,050	50.81	4.3
Sub total (petroleum products)		692.17	61.5		715.69	60.1
Coal	252,984	156.85	13.9	299,157	185.48	15.6
Sub total (Imported)		849.02	75.4		901.17	75.6
Local						
Electricity (hydro) <i>GWh</i>	96	21.04	1.9	71	15.58	1.3
Bagasse *	1,553,300	248.53	22.1	1,671,500	267.44	22.4
Fuel Wood *	19,300	7.33	0.7	19,320	7.34	0.6
Sub total (Local)		276.91	24.6		290.36	24.4
Total		1,125.93	100.0		1,191.53	100.0

* estimates

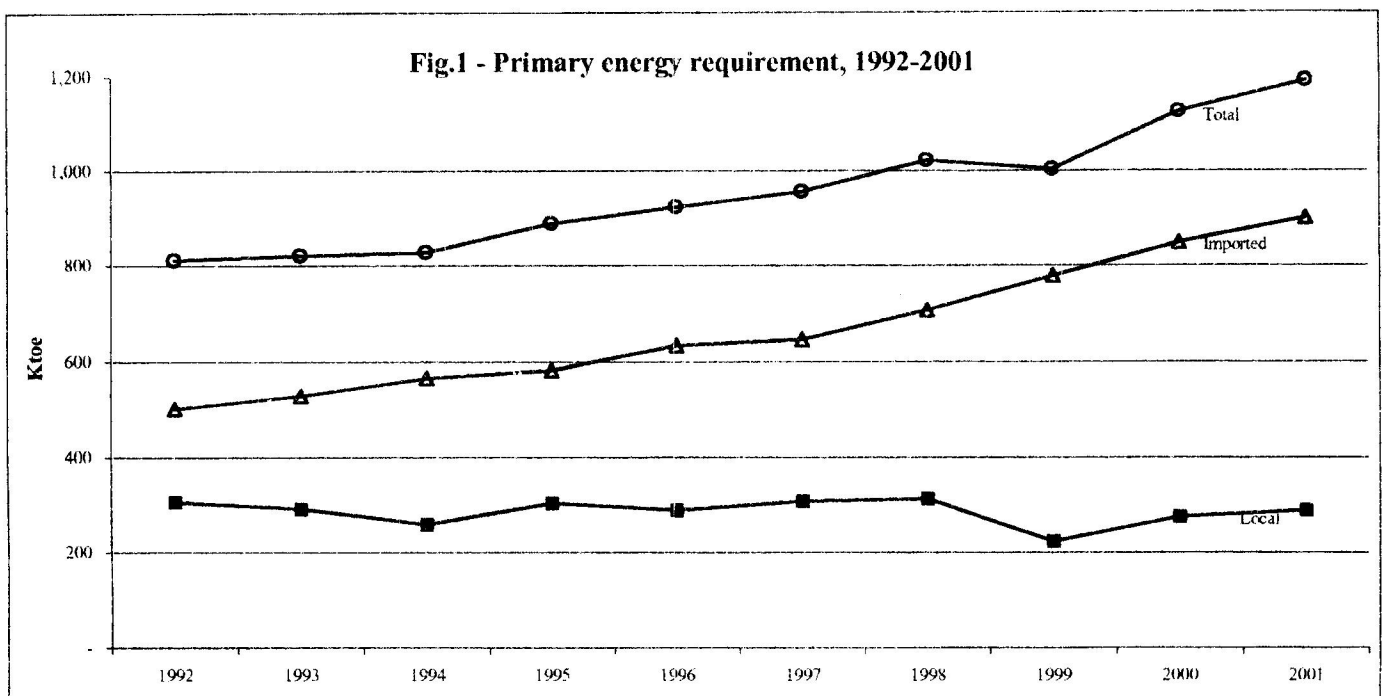


Table 4 - Imports of energy sources , 2000-2001

Energy source	2000				2001			
	Tonne (000)	Ktoe	%	C.I.F value (Rs million)	Tonne (000)	Ktoe	%	C.I.F value (Rs million)
Gasolene	89.82	97.01	9.1	744.3	86.77	93.71	7.9	646.1
Diesel Oil	339.67	343.07	32.2	2,166.7	338.04	341.42	28.8	2,045.7
Dual Purpose Kerosene	217.37	226.06	21.2	1,555.4	214.17	222.74	18.8	1,420.8
<i>Kerosene</i>	27.35	28.44	2.7	205.9	11.99	12.47	1.1	84.9
<i>Aviation Fuel</i>	190.02	197.62	18.6	1,349.5	202.19	210.27	17.7	1,335.9
Fuel Oil	218.76	210.01	19.7	964.3	275.14	264.13	22.3	1,213.9
LPG	47.31	51.10	4.8	510.1	43.89	47.40	4.0	517.0
Sub total (petroleum products)		927.25	87.1	5,940.8		969.41	81.8	5,843.5
Coal	222.42	137.90	12.9	195.0	347.46	215.43	18.2	391.0
Total imports		1,065.15	100.0	6,135.80		1,184.84	100.0	6,234.46

Table 5 - Re-exports of energy sources to foreign aircraft and bunkers, 2000-2001

Energy Re-exported	2000			2001		
	Tonne	Ktoe	%	Tonne	Ktoe	%
Aviation fuel to foreign aircraft	87,517	91.02	29.6	75,950	78.99	28.3
Diesel oil	159,966	161.57	52.5	156,721	158.29	56.6
Fuel oil	57,621	55.32	18.0	43,958	42.20	15.1
Total		307.90	100.0		279.5	100.0

Table 6 - Evolution of plant capacities, peak demand and electricity generation, 2000-2001

Year	Installed capacity (MW)	Effective capacity (MW)	Peak demand (MW)	Electricity generated (GWh)		
				Hydro	Thermal	Total
2000	660.8	577.2	283.9	95.65	1,681.86	1,777.51
2001	660.8	579.2	297.4	70.82	1,840.00	1,910.82

Table 7 - Electricity production by source of energy, 2000-2001

Source of energy	2000		2001	
	GWh	%	GWh	%
Primary energy	95.65	5.4	70.82	3.7
Hydro	95.65	5.4	70.82	3.7
Secondary energy	1,681.9	94.6	1,840.0	96.3
Gas turbine (kerosene)	42.77	2.4	12.05	0.6
Diesel & Fuel oil	845.30	47.6	885.05	46.3
Coal	363.29	20.4	465.29	24.4
Bagasse	430.49	24.2	477.61	25.0
Total	1,777.51	100.0	1,910.82	100.0

Table 8 - Generation of electricity by CEB and IPP, 1997 - 2001

Power producer	1997		1998		1999		2000		2001	
	GWh	%	GWh	%	GWh	%	GWh	%	GWh	%
CEB	1,118.55	80.0	1,124.76	73.1	1,096.95	69.2	983.33	55.3	967.54	50.6
Island of Mauritius	1,103.49	78.9	1,107.84	72.0	1,078.83	68.1	963.71	54.2	946.91	49.6
Hydro	92.18	6.6	103.95	6.8	29.53	1.9	95.25	5.4	70.44	3.7
Thermal	1,011.31	72.3	1,003.89	65.2	1,049.30	66.2	868.46	48.9	876.47	45.9
Island of Rodrigues (Thermal)	15.06	1.1	16.92	1.1	18.11	1.1	19.62	1.1	20.63	1.1
IPP	279.57	20.0	414.15	26.9	487.85	30.8	794.180	44.7	943.29	49.4
Total hydro	0.97	0.1	0.76	0.0	0.47	0.0	0.40	0.0	0.38	0.0
of which: exported to CEB	0.25	0.0	0.22	0.0	0.04	0.0	0.01	0.0	0.00	0.0
Total thermal	278.60	19.9	413.39	26.9	487.38	30.8	793.78	44.7	942.91	49.3
of which: exported to CEB	148.00	10.6	256.73	16.7	343.72	21.7	601.17	33.8	710.16	37.2
Total	1,398.17	100.0	1,538.91	100.0	1,584.80	100.0	1,777.51	100.0	1,910.82	100.0

Source: Central Electricity Board and Annual Sugar Industry Energy Survey

**Fig.2 - Electricity produced by CEB & IPP for export to CEB
1992-2001**

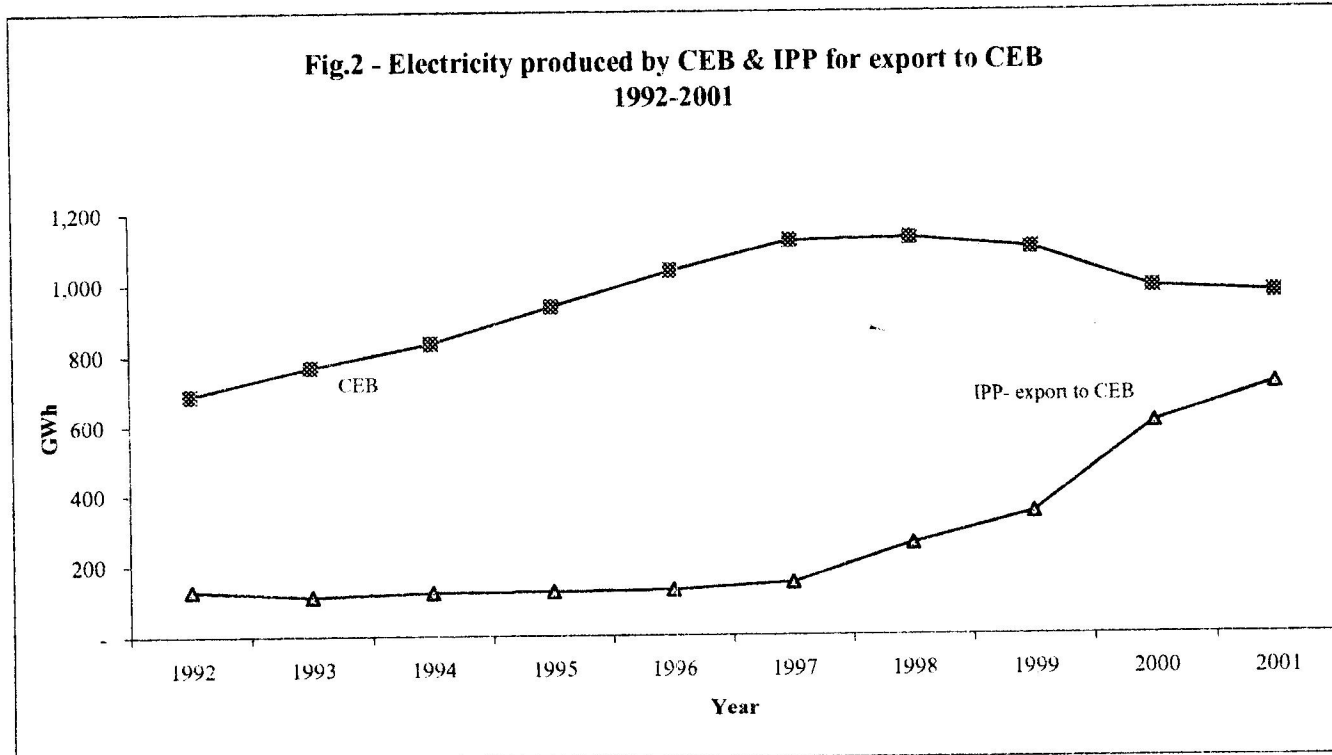


Table 9 - Fuel input for electricity production, 2000 - 2001

Fuel	2000			2001		
	Tonne	Ktoe	%	Tonne	Ktoe	%
Fuel oil	175,515	168.49	34.34	185,337	177.92	33.11
Diesel oil	3,364	3.40	0.69	3,138	3.17	0.59
Kerosene	13,081	13.60	2.77	3,760	3.91	0.73
Coal	228,520	141.68	28.88	273,376	169.49	31.60
Bagasse	1,021,500	163.44	33.31	1,142,500	182.80	34.02
Total		490.62	100.00		537.30	100.00

Source: Central Electricity Board and Annual Sugar Industry Energy Survey

Table 10 - Sales of electricity by type of tariff, 2000 - 2001

Type of tariff	2000			2001		
	No. of consumers	Consumption (MWh)	Average sales price ¹ per KWh (Rupees)	No. of consumers	Consumption (MWh)	Average sales price ¹ per KWh (Rupees)
Domestic	288,520	491,929	2.35	297,051	522,800	2.80
Commercial	27,831	374,850	2.77	28,594	415,543	3.37
Industrial	7,008	485,798	1.87	7,084	505,018	1.97
of which: irrigation	(378)	(27,235)	1.39	(347)	(26,773)	1.42
Other	293	21,437	3.09	299	23,273	2.57
All consumers	323,652	1,374,013	2.31	333,028	1,466,634	2.69

¹ Excluding VAT & meter rent

Source: Central Electricity Board (CEB)

Table 11 Final energy consumption by sector and type of fuel, 2000 - 2001

Sector	2000			2001		
	Tonne/GWh	Ktoe	%	Tonne/GWh	Ktoe	%
1. Manufacturing		249.89	33.4		262.41	33.5
1.1 excluding bagasse		164.80	22.0		177.77	22.7
Fuel oil	49,000	47.04	6.3	60,630	58.20	7.4
Diesel oil	41,600	42.02	5.6	37,533	37.91	4.8
LPG	3,689	3.98	0.5	3,650	3.94	0.5
Coal	24,464	15.17	2.0	25,781	15.98	2.0
Fuel wood ¹	1,500	0.57	0.1	1,500	0.57	0.1
Electricity ²	(GWh) 631.10	56.02	7.5	711.37	61.16	7.8
1.2 bagasse	531,800	85.09	11.4	529,000	84.64	10.8
2. Transport		355.87	47.5		372.30	47.5
Gasolene	92,000	99.36	13.3	87,749	94.77	12.1
LPG	633	0.68	0.1	820	0.89	0.1
Diesel oil	142,000	143.42	19.1	145,555	147.01	18.7
Aviation Fuel	108,082	112.41	15.0	124,652	129.64	16.5
3. Household		104.41	13.2		101.84	13.0
Kerosene	9,600	9.98	1.3	9,480	9.86	1.3
LPG	37,710	40.73	5.4	37,850	40.88	5.2
Fuel wood ¹	16,000	6.08	0.8	15,900	6.04	0.8
Charcoal ¹	150	0.11	0.0	150	0.11	0.0
Electricity	(GWh) 491.93	42.30	5.6	522.80	44.95	5.7
4. Commercial and Distributive Trade		36.93	4.9		40.78	5.2
LPG	4,150	4.48	0.6	4,450	4.81	0.6
Charcoal ¹	300	0.22	0.0	330	0.24	0.0
Electricity	(GWh) 374.85	32.23	4.3	415.54	35.73	4.6
5. Agriculture		4.77	0.6		4.79	0.6
Diesel oil ¹	2,400	2.42	0.3	2,460	2.48	0.3
Electricity	(GWh) 27.24	2.34	0.3	26.77	2.30	0.3
6. Other (n.e.s)		2.30	0.3		2.30	0.3
TOTAL		748.95	100.0		784.43	100.0

¹ Estimates

² Revised to include own consumption of IPP

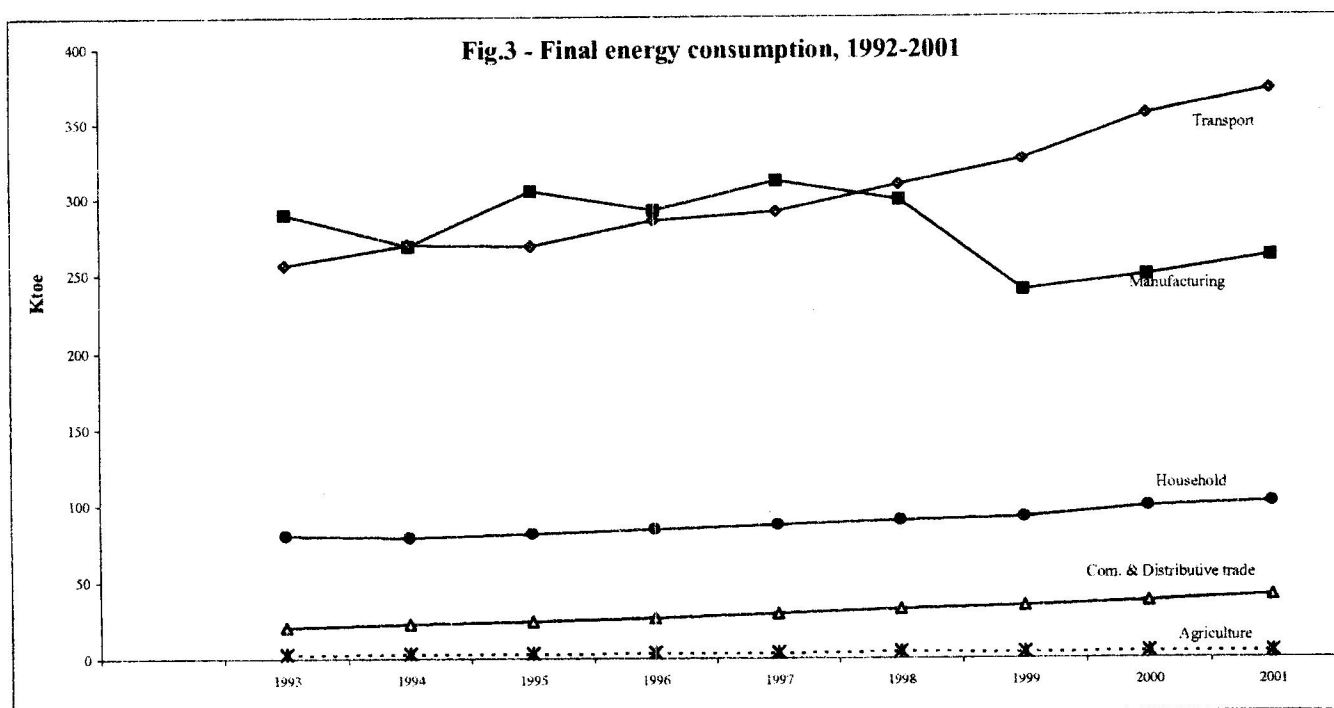


Table 12 - Energy ratios, 1992 - 2001

	Unit	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Total primary energy requirement	ktoe	811.82	822.00	828.33	889.56	924.33	956.18	1,021.75	1,003.50	1,125.93	1,191.53
<i>Imported</i>	ktoe	504.44	529.94	568.37	584.26	634.70	647.31	707.18	778.92	849.02	901.17
<i>Local</i>	ktoe	307.39	292.05	259.97	305.31	289.63	308.87	314.57	224.58	276.91	290.36
Total primary energy requirement index (1990 = 100)		108.79	110.15	111.00	119.20	123.86	128.13	136.92	134.47	150.88	159.67
Annual increase	%	+7.93	+1.25	+7.7	+7.39	+3.91	+3.45	+6.86	-1.79	+12.20	+5.83
Import dependency	%	62.14	64.47	68.62	65.68	68.67	67.70	69.21	77.62	75.41	75.63
GDP in 1990 rupees	Rs. Million	37,468	39,304	41,191	43,456	46,151	48,735	51,513	52,698	57,388	60,716
GDP index (1990 = 100)		111.50	116.96	122.58	129.32	137.34	145.03	153.29	156.82	170.78	180.68
Energy intensity	toe per Rs.100,000 GDP	2.17	2.09	2.01	2.05	2.00	1.96	1.98	1.90	1.96	1.96
Mid-year population	thousand	1,084	1,097	1,113	1,122	1,134	1,148	1,160	1,174	1,187	1,200
Per capita primary energy requirement	toe	0.75	0.75	0.74	0.79	0.82	0.83	0.88	0.85	0.95	0.99
Per capita final energy consumption	toe	0.59	0.59	0.58	0.61	0.61	0.63	0.64	0.59	0.63	0.65
Per capita consumption of electricity sold	KWh	640	684	736	814	879	947	1,026	1,059	1,158	1,222