

II. ENERGY PRODUCTION AND PROCESSING

2.1. Imported Petroleum Products

A total of 595,587 metric tons (MT) of petroleum products were imported into the country during the fourth quarter of 2011/12. The amount was 73.9 and 10.5 percent higher than last year same period and the preceding quarter, respectively. The yearly growth was attributed to surge in imports of gas oil, which had 62 percent share in total petroleum import, followed by Jet fuel. On the other hand the quarterly growth was attributed to 184.5 percent increase on fuel oil (Table 2.1 below).

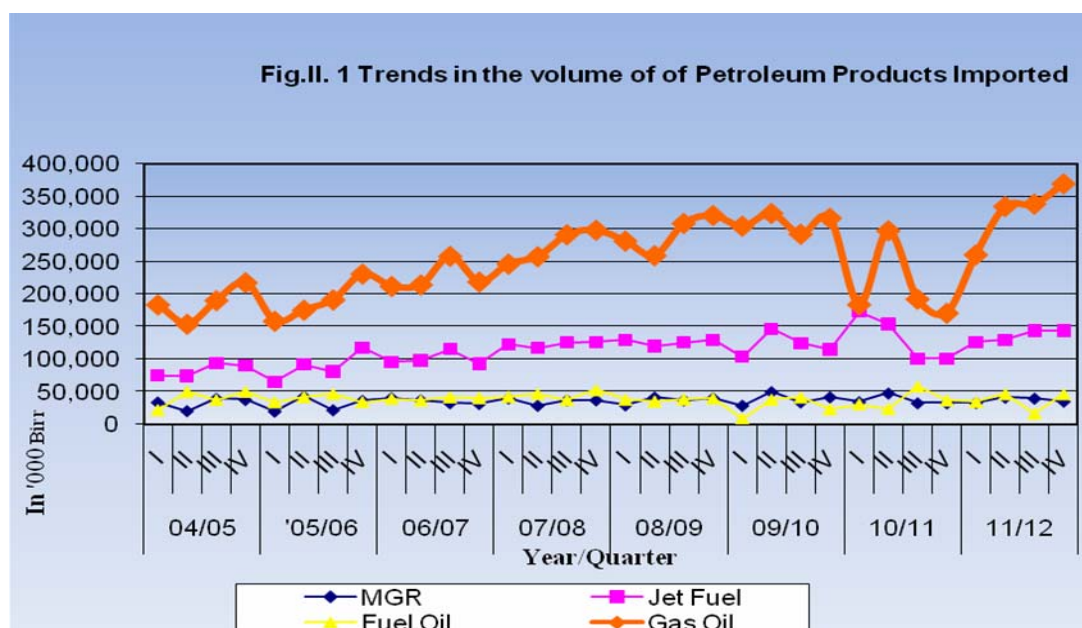
The total value of petroleum products imported during the period under review reached Birr 10 billion, up by 5.5 percent and 11.8 percent as compared to the preceding quarter and a year ago, respectively. On quarterly basis, fuel oil registered 185.9 percent increment (Table 22).

Table 2.1: Volume of Petroleum Products Imported

(In MetricTons)

Petroleum Products	2010/11		2011/12				Percentage Change	
	Qtr IV		Qtr III		Qtr IV		C/A	C/B
	A	Share in %	B	Share in %	C	Share in %		
Regular Gasoline (MGR)	32,983.8	9.6	40,160.9	7.5	35,580.7	6.0	7.9	-11.4
Jet Fuel	101,074.5	29.5	144,199	26.8	144,182.1	24.2	42.6	0.0
Fuel Oil	37,231.4	10.9	16,360.2	3.0	46,551.5	7.8	25.0	184.5
Gas Oil (ADO)	171,289.7	50.0	338,249.5	62.8	369,272.7	62.0	115.6	9.2
Total	342,579.3	100	538,969.7	100	595,587	100.0	73.9	10.5

Source: Ethiopian Petroleum Enterprise



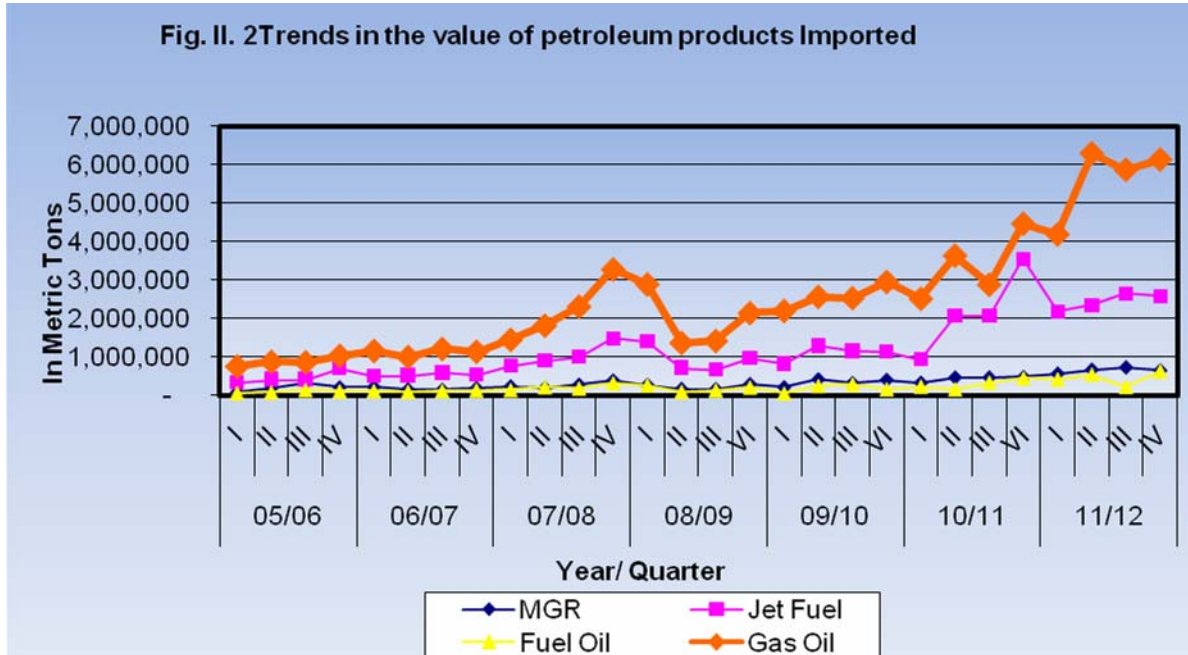
Source: Ethiopian Petroleum Enterprise

Table 2.2 Value of Petroleum Products Imported

(In Millions of Birr)

Products	2010/11		2011/12				Percentage Change	
	Qtr IV		Qtr III		Qtr IV			
	A	Share in%	B	Share in %	C	Share in%	C/A	C/B
Regular Gasoline (MGR)	477,262.6	5.3	724,016.6	7.6	647,226.6	6.5	35.6	-10.6
Jet Fuel	3,553,666	39.7	2,663,382.2	28.1	2,586,143.9	25.8	-27.2	-2.9
Fuel Oil	443,493.9	5.0	219,613.7	2.3	627,952.9	6.3	41.6	185.9
Gas Oil (ADO)	4,474,422.5	50.0	5,880,673.1	62.0	6,146,722.4	61.4	37.4	4.5
Total	8,948,845	100.0	9,487,685.6	100.0	10,008,045.4	100.0	11.8	5.5

Source: Ethiopian Petroleum Enterprise



Source: Ethiopian Petroleum Enterprise

The remarkable yearly growth in the value of petroleum imports was on account of substantial increase in the volume of import, although, the FOB price decreased except for fuel oil.

On average, the FOB prices of petroleum products decreased by 76.1 percent annually to USD 876.1 from USD 3,662.9 per metric

tons, owing to decline in the prices of Regular Gasoline (4.0 percent), Gas Oil (5.7 percent) and Jet Fuel (6.7 percent) (Table 2.3).

The FOB prices, similarly, showed 7.7percent quarterly marginal decline due to fall in prices of all products.

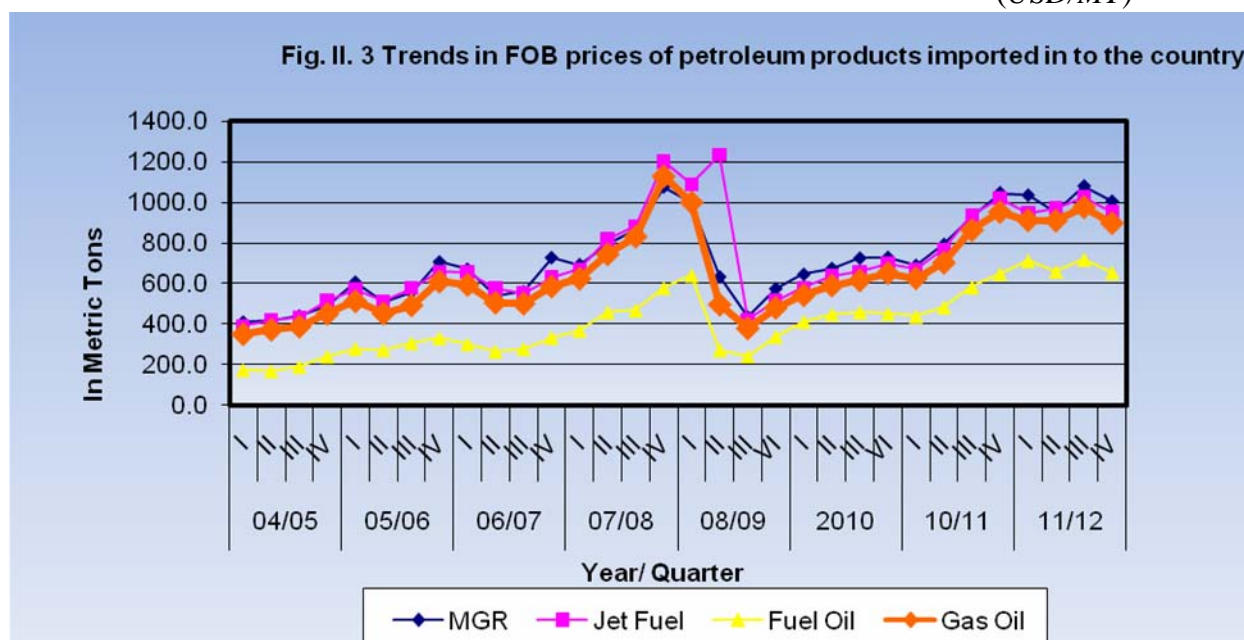
Table 2.3 FOB Price of Petroleum Products Imported

(In Millions Of Birr)

Petroleum Products	2010/11	2011/12		Percentage Change	
	Qtr IV	Qtr III	Qtr IV	C/A	C/B
	A	B	C		
Regular Gasoline (MGR)	1043.9	1077.4	1002.6	-4.0	-6.9
Jet Fuel	1021.2	1027.9	952.4	-6.7	-7.3
Fuel Oil	647.7	717.9	653.5	0.9	-9.0
Gas Oil (ADO)	950.2	974.0	895.9	-5.7	-8.0
Average	3662.9	949.3	876.1	-76.1	-7.7

Source: Ethiopian Petroleum Enterprise

(USD/MT)



Source: Source: Ethiopian Petroleum Enterprise

Following the continuous rise in the price of crude oil in the international market, the average price was USD 102.98 per barrel in the third quarter. However, it tended to drop in the fourth quarter to reach to USD 92.92 per barrel. The fourth quarter, domestic

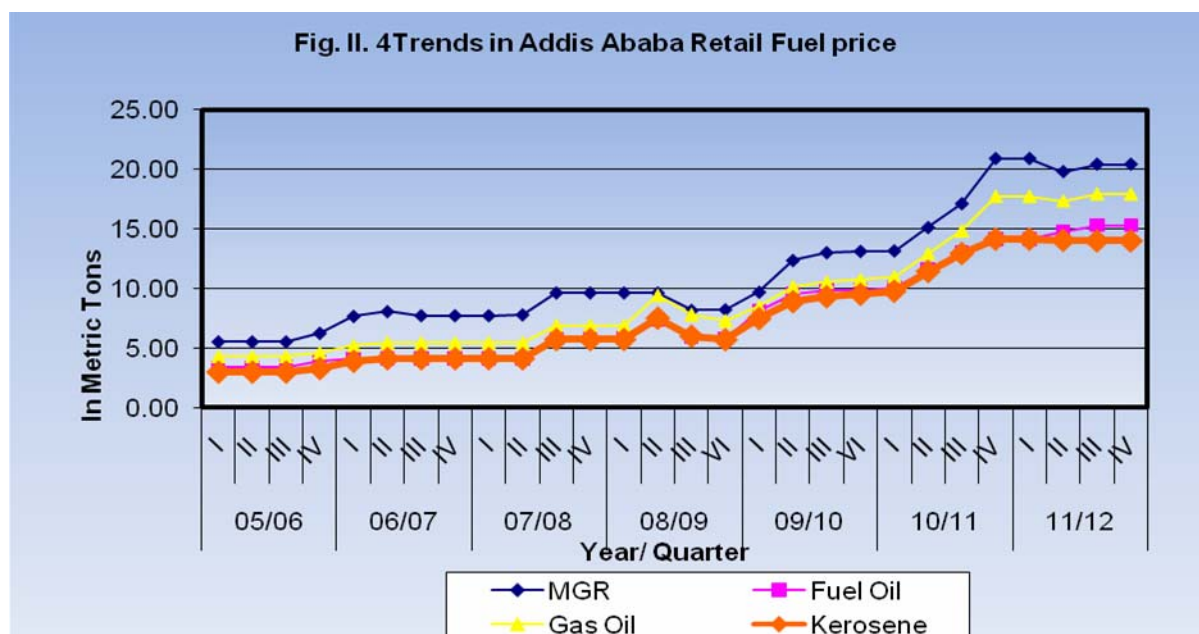
average retail prices of petroleum products in Addis Ababa remained constant at Birr 17.8 as compared with the preceding quarter, but it declined by 19.8 percent relative to same period last year (Table 2.4).

Table 2.4: Addis Ababa Average Retail Prices of Fuel

(Birr/Liter)

Petroleum Products	2010/11	2011/12		Percentage Change	
	Qtr IV	Qtr III	Qtr IV	C/A	C/B
	A	B	C		
Regular Gasoline (MGR)	20.9	20.4	20.4	-2.5	0.0
Fuel Oil	14.1	15.3	15.3	8.4	0.0
Gas Oil (ADO)	17.7	17.9	17.9	0.9	0.0
Kerosene	14.1	14.0	14.0	-0.7	0.0
Jet Oil	21.7	21.3	21.3	-2.3	0.0
Average	22.1	17.8	17.8	-19.8	0.0

Source: Ethiopian Petroleum Enterprise



Source: Ethiopian Petroleum Enterprise

2.2 Electric Power Generation

Total electricity generated during the quarter under review increased by 25.2 percent and 6.2 percent as compared to similar quarter last year and the preceding quarter, respectively. The total power generation in the quarter was about 1.67 billion KWH slightly larger than 1.57 billion KWH in the preceding quarter and 1.3 billion a year ago (Table 2.5).

The yearly and quarterly growth in electricity generation was attributed to hydropower which constituted 98.6 percent of the total power supply during the, Thermal, geothermal and wind are also other sources of energy.

Electricity generated from wind sources rose to 18 million KW from 11 million KW in the preceding quarter, reflecting its high potential as a source of energy in Ethiopia.

In terms of system generation, about 99.87 percent of the electricity generated during the fourth quarter of 2011/12 was from the interconnected system (ICS), the remaining 0.13 percent being from self contained system (SCS) (Table 2.6).

Given high demand associated with the country's economic growth, the supply of electricity is expected to increase in due course. Accordingly, the country's electricity generation capacity under the five

year GTP is projected to reach 8,000MW by 2015 from 2000 MW in 2010, due to construction of a number of new power stations including the Great Renaissance Dam and wind energy development. With

this production level, electric power access coverage is expected to reach 75% of the population by end of 2015 from 41 percent in 2010.

Table 2.5 Electricity Generation

Power Source	2010/11		2011/12				Percentage Change	
	Qtr IV	Share In %	Qtr III	Share In %	Qtr IV	Share In %	C/A	C/B
	A		B		C			
Hydropower	1,328,815.4	99.4	1,559,453.8	99	1,649,425.9	98.6	24.1	5.8
Thermal Power	4,048.2	0.3	1,343.1	0.1	1,945.5	0.1	-51.9	44.8
Geothermal	3,355	0.3	3,119.7	0.2	3,804	0.2	13.4	21.9
Wind	0	0	11,162	0.7	18,094.3	1.1	-	62.1
Total	1,336,218.6	100	1,575,078.7	100	1,673,269.8	100.0	25.2	6.2

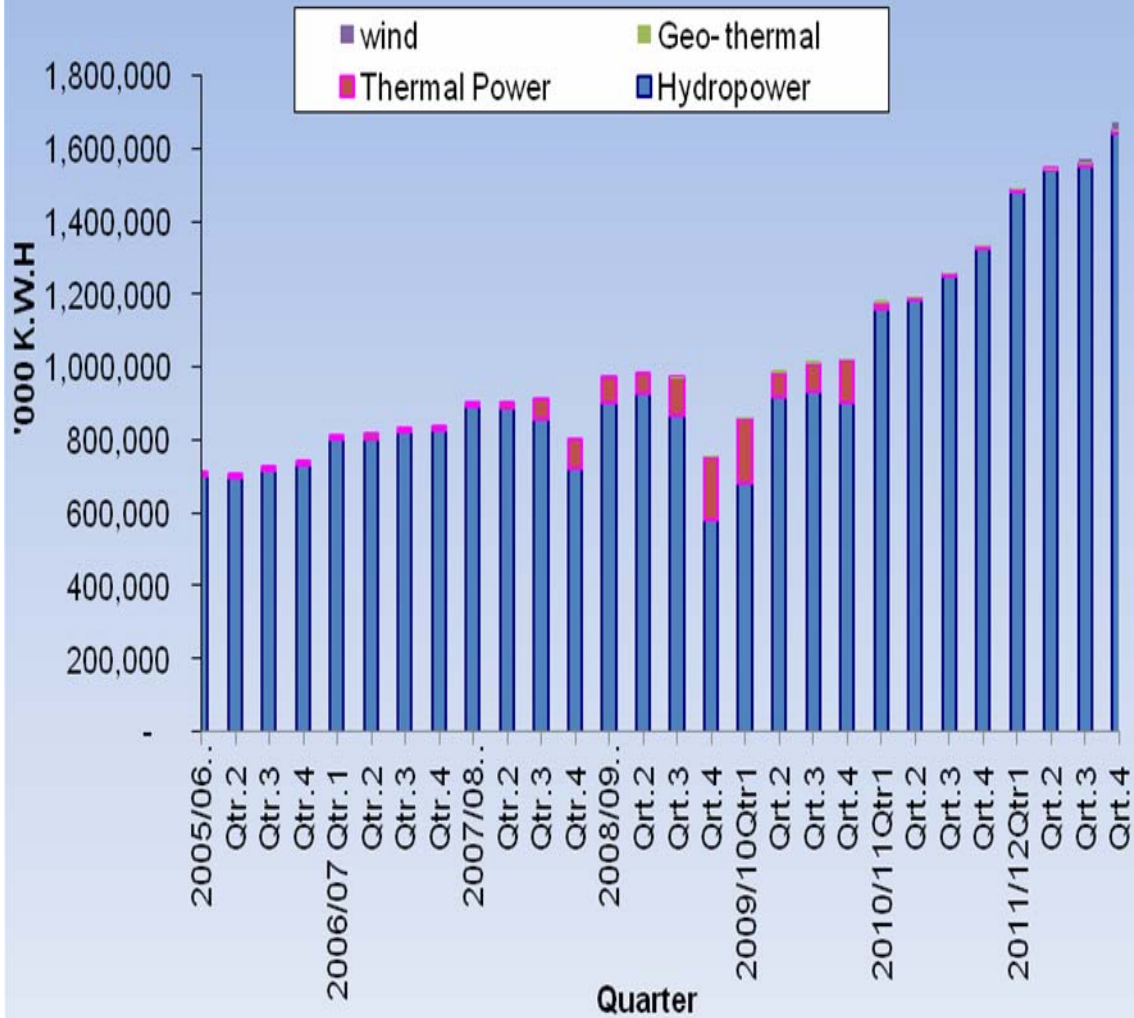
Source: Ethiopian Power Corporation

Table 2.6 Generation of Electricity Power in the Interconnected System (ICS) and Self Contained System (SCS)
(*'000 of K.W.H*)

System of Power Supply	2010/11		2011/12				Percentage Change	
	Qtr IV		Qtr III		Qtr IV		C/A	C/B
	A	Share In %	B	Share In %	C	Share In %		
ICS								
Hydro Power	1,328,490.8	99.42	1,559,174.18	99	1,649,166.8	98.56	24.1	5.8
Thermal Power	62	0	0	0	0	0	-	-
Geothermal	3,355.04	0.25	3,119.68	0.2	3,804	0.23	13.4	21.9
Wind		0	11,162	0.71	18,094.3	1.08		62.1
Sub-Total	1,331,907.7	99.68	1,573,455.86	99.9	1,671,065.1	99.87	25.5	6.2
SCS								
Hydro Power	324.60	0.02	279.66	0.02	259.20	0.02	-20.1	-7.3
Thermal Power	3,986.17	0.30	1,343.15	0.09	1,945.5	0.12	-51.2	44.8
Geothermal								
Wind								
Sub-Total	4,310.77	0.32	1,622.81	0.10	2,204.74	0.13	-48.9	35.9
Grand Total	1,336,219	100	1,575,078.7	100	1,673,270	100	25.2	6.2

Source: Ethiopian Electric Power Corporation (EEPCO)

Fig. II.5 Volume of Hydro power, thermal, geo-thermal and wind Power Production



Source: EEP Co

