

II. ENERGY PRODUCTION AND PROCESSING

2.1. Import of Petroleum Products

During the fourth quarter of 2012/13, total import bill of petroleum products amounted to Birr 9.3 billion, depicting a 7.2 percent annual slump owing to the fall in import volume of fuel oil (31.2 percent and gasoil (11.6 percent), overwhelming the growth of imports regular gasoline (20.4 percent) and jet

fuel (2.1 percent). Jet fuel and gas oil together constituted 87 percent of total import bill of petroleum products. Meanwhile, import values of petroleum products recorded a 15.3 percent drop over the preceding quarter owing to slowdown in the values of all components Table (2.1).

Table 2.1 Import Values of Petroleum Products

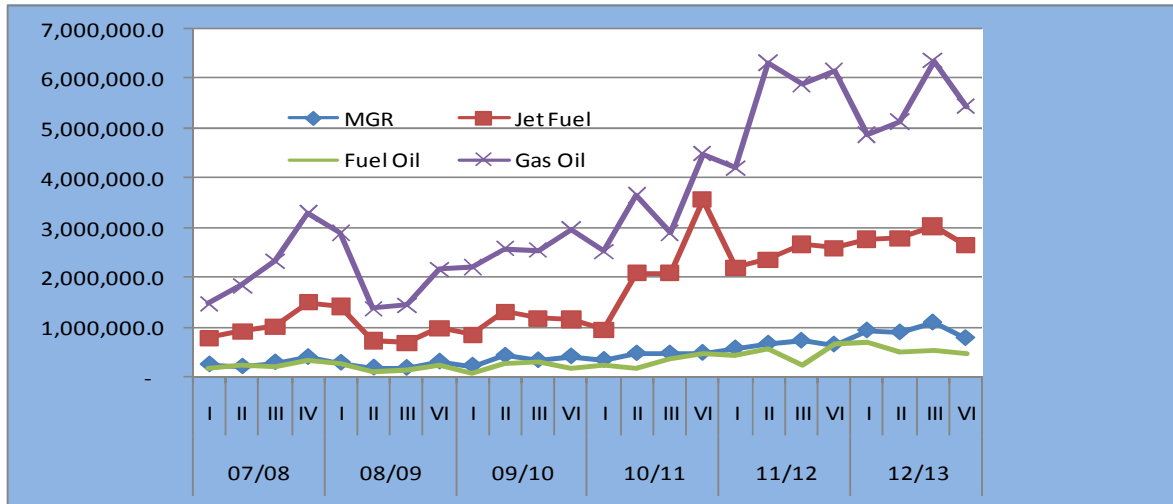
(In '000 of Birr)

Petroleum Products	2011/12		2012/13				Percentage Change	
	Qtr IV		Qtr. III		Qtr. IV		C/A	C/B
	A	Share (In %)	B	Share (In %)	C	Share (In %)		
Regular Gasoline (MGR)	647,226.60	6.5	1,093,611.00	10	779,222.10	8.4	20.4	28.7
Jet Fuel	2,586,143.90	25.8	3,014,286.50	27.5	2,639,482.40	28.4	2.1	12.4
Fuel Oil	627,952.90	6.3	505,467.50	4.6	432,271.20	4.7	-31.2	14.5
Gas Oil (ADO)	6,146,722.40	61.4	6,349,103.80	57.9	5,433,686.50	58.5	-11.6	14.4
Total	10,008,045.40	100	10,962,468.80	100	9,284,662.10	100	-7.2	15.3

Source: Ethiopian Petroleum Enterprise

Figure II.1 Trends in Import Values of Petroleum Products

(In '000 Birr)



Source: Ethiopian Petroleum Enterprise

The total volume of imported petroleum products during the review period stood at 545.6 thousand metric tons, 8.4 percent lower than last year same period. This performance was largely attributed to lower import volume of fuel oil (28.5 percent) and

gas oil (12.3 percent), despite the increase in the volumes of regular gasoline (13.7 percent) and jet fuel (2.7 percent). The share of jet fuel and gas oil in total import volume of petroleum products remained stable, at 86 percent (Table 2.2).

Table 2.2 Import Volume of Petroleum Products

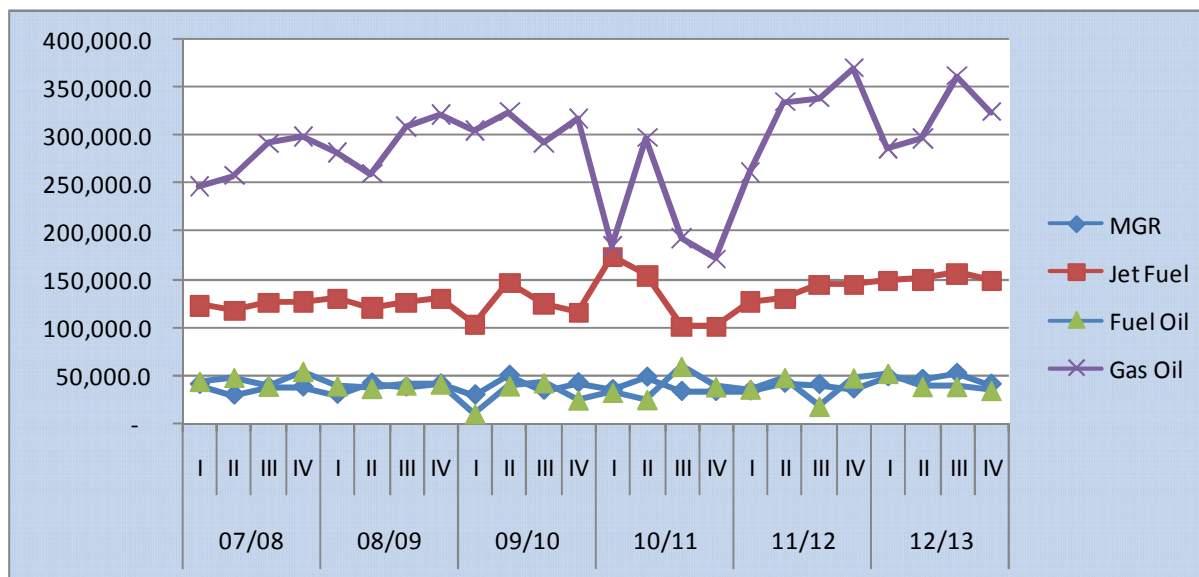
(In Metric Ton)

Petroleum Products	2011/12		2012/13				Percentage Change	
	Qtr IV		Qtr III		Qtr IV		C/A	C/B
	A	Share In %	B	Share In %	C	Share In %		
Regular Gasoline (MGR)	35,580.7	6.0	52,070.4	8.6	40,471.7	7.4	13.7	-22.3
Jet Fuel	144,182.1	24.2	156,140.9	25.8	148,006.8	27.1	2.7	-5.2
Fuel Oil	46,551.5	7.8	37,332.8	6.2	33,290.8	6.1	-28.5	-10.8
Gas Oil (ADO)	369,272.7	62.0	360,766.1	59.5	323,803.5	59.4	-12.3	-10.2
Total	595,587.0	100.0	606,310.2	100.0	545,572.8	100.0	-8.4	-10.0

Source: Ethiopian Petroleum Enterprise

Figure II.2 Trends in Import Volume of Petroleum products

(In Metric ton)



Source: Ethiopian Petroleum Enterprise

The decline in the values of petroleum imports was not only induced by the fall in volume of import but also attributed to lower FOB price of the products. The average FOB price of petroleum products

during the review period declined by 5.5 percent against last year same period as a result of lower FOB prices of all components of petroleum products (Table 2.3).

Table 2.3: FOB Prices of Imported Petroleum Products

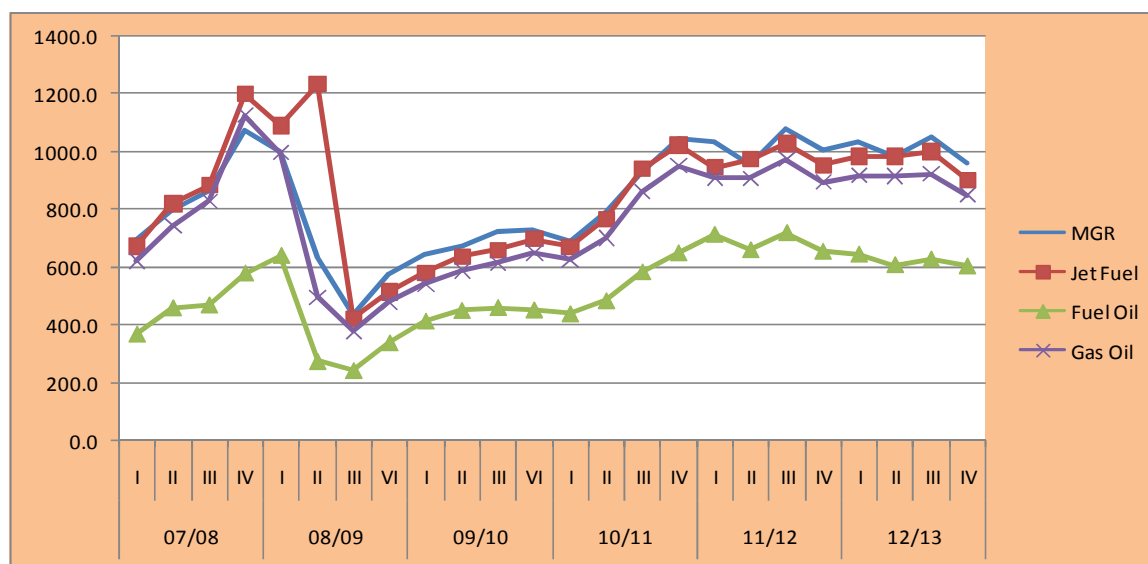
(In USD/Metric Ton)

Petroleum Products	2011/12	2012/13		Percentage Change	
	Qtr IV	Qtr III	Qtr IV	C/A	C/B
	A	B	C		
Regular Gasoline (MGR)	1002.6	1051.7	956.2	-4.6	-9.1
Jet Fuel	952.4	999.0	901.7	-5.3	-9.7
Fuel Oil	653.5	626.5	602.6	-7.8	-3.8
Gas Oil (ADO)	895.9	923.8	850.5	-5.1	-7.9
Average	876.1	900.3	827.7	-5.5	-8.1

Source: Ethiopian Petroleum Enterprise

Figure II.3 Trends in FOB Price of Imported Petroleum Products

(In USD/Metric Ton)



Source: Ethiopian Petroleum Enterprise

During the fourth quarter of 2012/13, the average price of Brent crude oil (in Europe), used as a point of reference for international oil price quotation in Ethiopia, stood at USD 94.2 per barrel, slightly higher than USD 93.4 per barrel recorded a year ago.

In line with the world oil price movement domestic retail prices of petroleum products were also adjusted. Accordingly, average retail prices of petroleum products in Addis

Ababa were revised down by 4.6 percent visa-a-vis the same period last year but remained unchanged at Birr 16.8 per liter compared to the preceding quarter level. The highest price of ethanol mixed benzene stood at Birr 18.8 /liter and the lowest for kerosene (at Birr 13.9/liter) during the review period.

Table 2.4: Average Retail Prices of Fuel in Addis Ababa

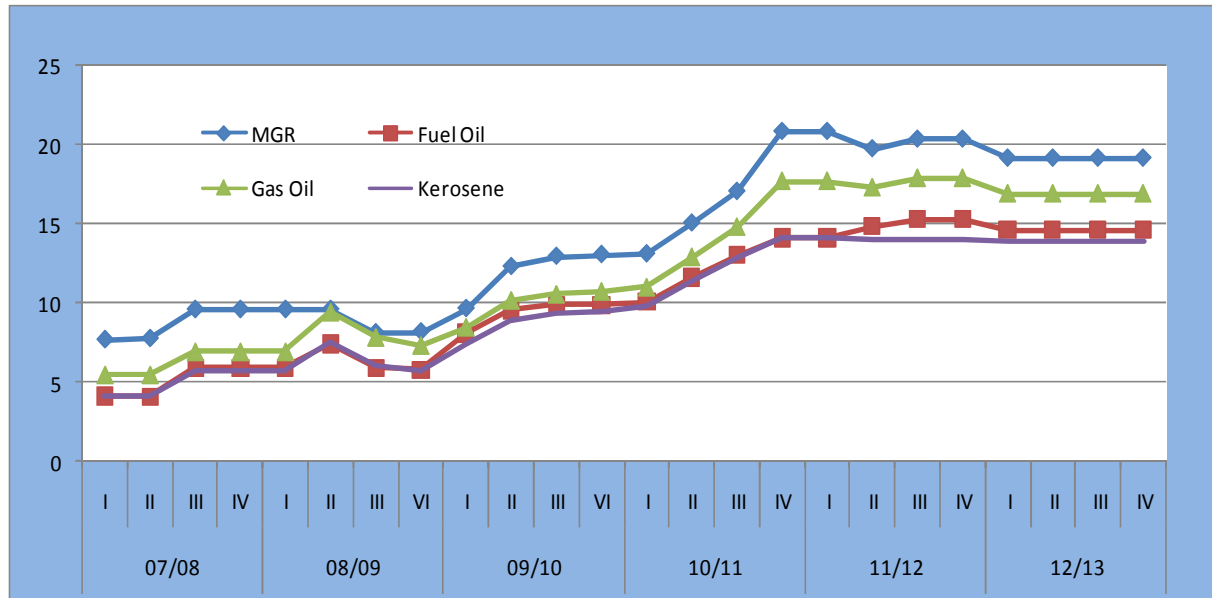
(In Birr/Litre)

Petroleum Products	2011/12	2012/13		Percentage Change	
	Qtr IV	Qtr III	Qtr IV	C/A	C/B
	A	B	C		
Regular Gasoline (E5)	19.9	18.8	18.8	-5.5	0.0
Fuel Oil	15.3	14.6	14.6	-4.4	0.0
Gas Oil (ADO)	17.9	16.9	16.9	-5.5	0.0
Kerosene	14.0	13.9	13.9	-0.7	0.0
Jet fuel	21.3	20	20	-5.9	0.0
Average	17.6	16.8	16.8	-4.6	0.0

Source: Ethiopian Petroleum Enterprise

Figure II.4 Trends of Retail Price of Fuel in Addis Ababa

(In Birr/Litre)



2.2. Electric Power Generation

Total electric power generated during the fourth quarter of 2012/13 grew by 14.3 percent vis-à-vis same period last year and amounted to 2 billion KWH. This growth

was attributed to higher production of hydropower (13 percent) and wind power (160.2 percent) (Table 2.5).

Table 2.5: Electricity Generation

Power Source	2011/12		2012/13				Percentage Change	
	Qtr IV	Share (In %)	Qtr III	Share (In %)	Qtr IV	Share (In %)	C/A	C/B
	A		B		C			
Hydropower	1,649,425.9	98.6	1,924,540.0	96.8	1,863,717.8	97.5	13.0	(3.2)
Thermal Power	1,945.5	0.1	2,090.1	0.1	1,262.6	0.1	(35.1)	(39.6)
Geothermal	3,804.0	0.2	-	-	-	-	-	-
wind	18,094.3	1.1	61,556.9	3.1	47,073.0	2.5	160.2	(23.5)
Total	1,673,269.8	100.0	1,988,186.9	100.0	1,912,053.4	100.0	14.3	(3.8)

Source: Ethiopian Electric Power Corporation

Of the total electric power generated during the review period, hydropower constituted 97.5 percent and wind 2.5 percent. In terms of production system 99.9 percent of the total electric power was produced through interconnected system (ICS), and 0.1

percent through self-contained system (SCS) (Table 2.6).

Table 2.6: Generation of Electric Power in the Interconnected System (ICS) and Self Contained System (SCS)

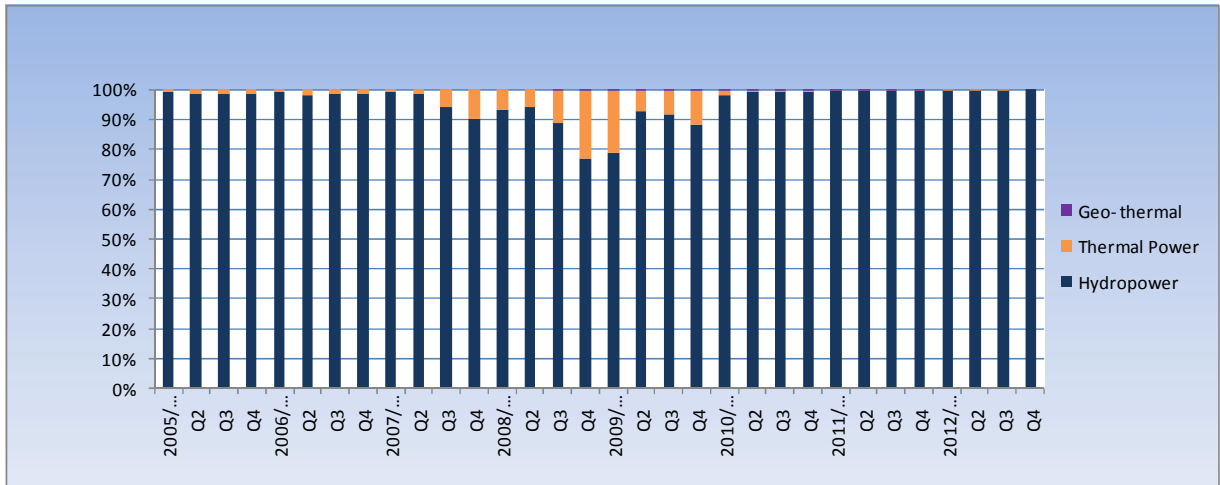
(In '000 of KWH)

System of Power Supply	2011/12		2012/13				Percentage Change	
	Qtr IV	Share (In %)	Qtr III	Share (In %)	Qtr IV	Share (In %)	C/A	C/B
	A		B		C			
ICS								
Hydro Power	1,649,166.7	98.6	1,924,209.2	96.8	1,863,250.5	97.4	13.0	-3.2
Thermal Power	-	-	12.5	0.0	-	-	-	100.0
Geothermal	3,804.0	0.2	-	-	-	-	100.0	-
Wind	18,094.3	1.1	61,556.9	3.1	47,073.0	2.5	160.2	-23.5
Sub-Total	1,671,065.1	99.9	1,985,778.6	99.9	1,910,323.6	99.9	14.3	-3.8
SCS								
Hydro Power	259.2	0.0	330.8	0.0	467.2	0.0	80.3	41.2
Thermal Power	1,945.5	0.1	2,077.6	0.1	1,262.6	0.1	-35.1	-39.2
Geothermal	-	-	-	-	-	-	-	-
wind	-	-	-	-	-	-	-	-
Sub-Total	2,204.7	0.1	2,408.3	0.1	1,729.9	0.1	-21.5	-28.2
Grand Total	1,673,269.8	100.0	1,988,186.9	100.0	1,912,053.4	100.0	14.3	-3.8

Source: Ethiopian Electric Power Corporation

Figure II.5 Trends in Percentage Compositions of Electricity Generations

(In '000KWH)



Source: Ethiopian Electric Power Corporation