

## II. ENERGY PRODUCTION AND PROCESSING

### 2.1. Import of Petroleum Products

During the second quarter of 2012/13, the total volume of petroleum products imported amounted to 528,865.2 metric tons, depicting a 4.2 percent contraction via-a-vis the same period last year. This was solely due to the reduction in imports of gas oil (11.4 percent) and fuel oil (20.2

percent) both of which constituted about 63.1 percent of total petroleum product imports. However, the volume of jet fuel and regular gasoline (MGR) showed 15.4 and 10 percent growth respectively over the corresponding period last year (Table 2.1).

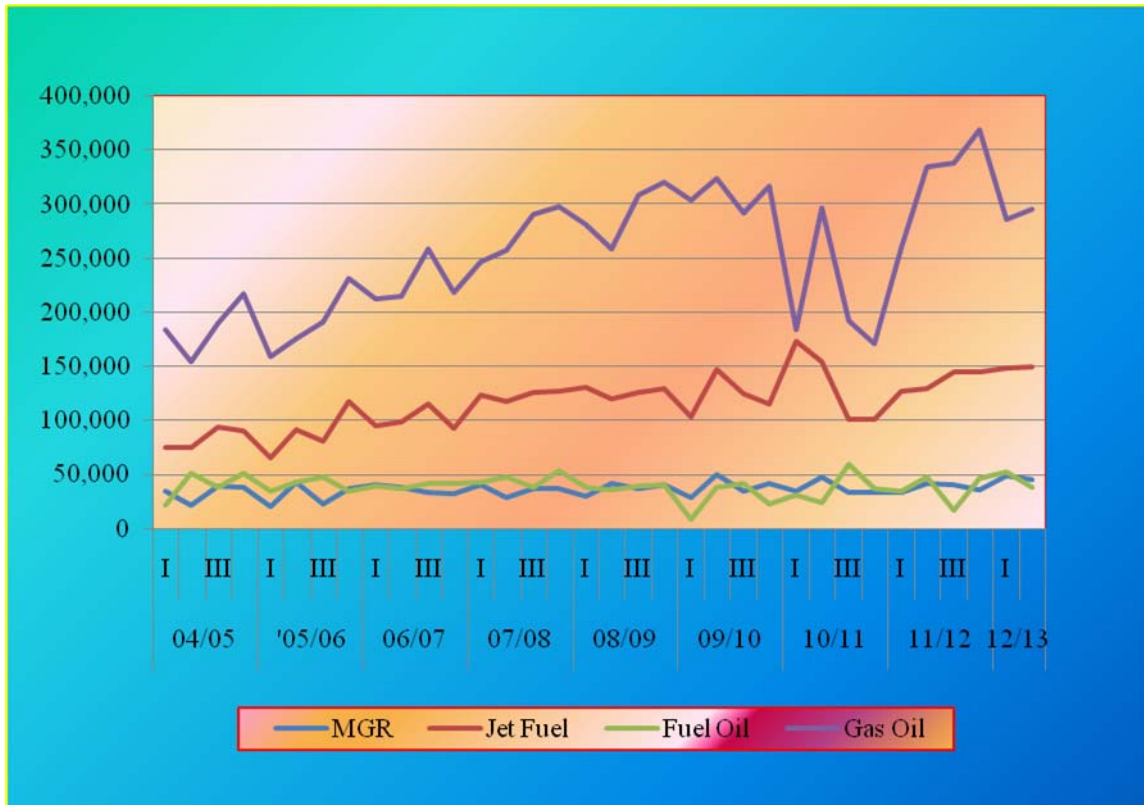
**Table 2.1: Volume of Petroleum Products Imported**

*In Metric Tons*

Petroleum Products	2011/12		2012/13				Percentage Change	
	Qtr II		Qtr I		Qtr II			
	A	Share In %	B	Share In %	C	Share In %	C/A	C/B
Regular Gasoline (MGR)	41,496.3	7.5	48,367.8	9.1	45,607.6	8.6	9.9	-5.7
Jet Fuel	129,614.7	23.5	148,668.1	27.8	149,611.1	28.3	15.4	0.6
Fuel Oil	46,905.1	8.5	51,231.8	9.6	37,442.04	7.1	-20.2	-26.9
Gas Oil (ADO)	334,320.7	60.5	285,788.9	53.5	296,204.4	56.0	-11.4	3.6
<b>Total</b>	<b>552,336.8</b>	<b>100.0</b>	<b>534,056.6</b>	<b>100.0</b>	<b>528,865.2</b>	<b>100.0</b>	<b>-4.2</b>	<b>-1.0</b>

Source: Ethiopian Petroleum Enterprise

**Fig.II.1 Trends in Volume of Petroleum Products Imported Into the Country (In '000 Birr)**



**Source:** Ethiopian Petroleum Enterprise

Meanwhile, the total value of petroleum products imported during the period under review reached Birr 9.3 billion

showing a 6 percent decline compared to a year ago (Table 2.2).

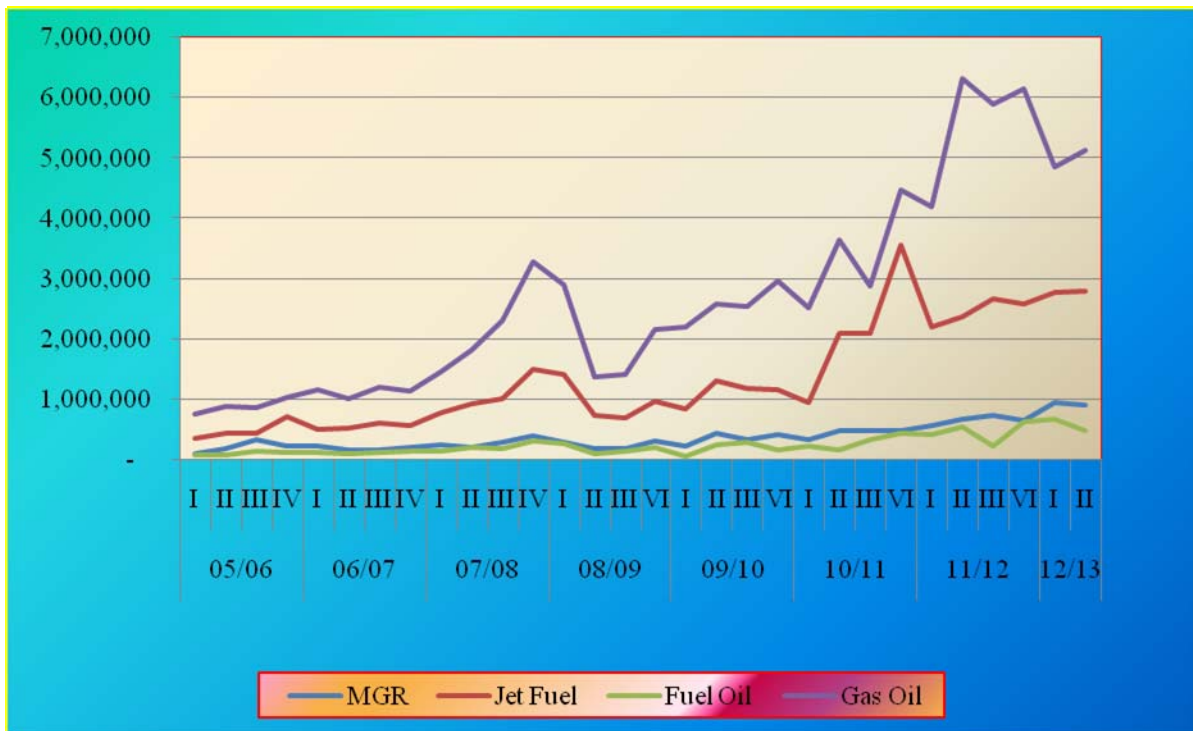
**Table 2.2 Import Value of Petroleum Products Imported**

(In '000 Birr)

Petroleum Products	2011/12		2012/13				Percentage Change	
	Qtr II		Qtr I		Qtr II			
	A	Share In %	B	Share In %	C	Share In %	C/A	C/B
Regular Gasoline (MGR)	665,812.1	6.7	934,254.4	10.1	893,767.2	9.6	34.2	-4.3
Jet Fuel	2,354,685.1	23.9	2,757,560.2	29.9	2,779,340.8	30.0	18.0	0.8
Fuel Oil	542,193.0	5.5	675,627.7	7.3	480,114.1	5.2	-11.4	-28.9
Gas Oil	6,308,620.3	63.9	4,855,726.5	52.6	5,121,286.4	55.2	-18.8	5.5
<b>Total</b>	<b>9,871,310.5</b>	<b>100.0</b>	<b>9,223,168.8</b>	<b>100.0</b>	<b>9,274,508.5</b>	<b>100.0</b>	<b>-6.0</b>	<b>0.6</b>

Source: Ethiopian Petroleum Enterprise

**Fig.II.2 Trends in Import Value of Petroleum Products**



Source: Ethiopian Petroleum Enterprise

Yearly reduction in the value of petroleum imports was due a decline in the value of gas and fuel oil coupled with a decrease in volume of import, except for regular gasoline and Jet fuel.

872.8 per metric tons, owing to fall in prices of fuel oil (7.8 percent). Similarly, the FOB prices showed a 2.4 percent quarterly declines due to lower prices of all petroleum products (Table 2.3).

Accordingly, on average, the FOB prices of petroleum products went down by 0.1 percent annually to USD 872.0 from

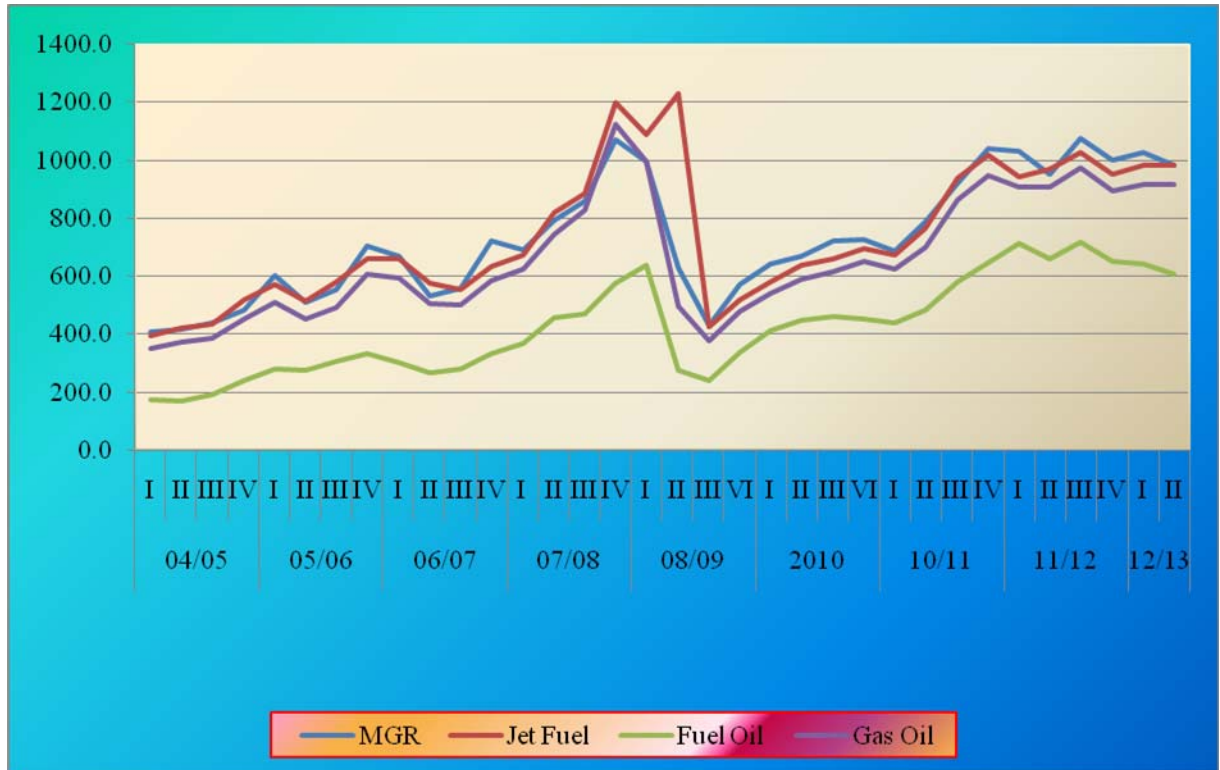
**Table 2.3: FOB Price of Petroleum Products Imports**

(USD/MT)

Petroleum Products	2011/12	2012/13		Percentage Change	
	Qtr II	Qtr I	Qtr II	C/A	C/B
	A	B	C		
Regular Gasoline (MGR)	951.7	1029.5	983.4	3.3	-4.5
Jet Fuel	972.5	983.2	982.4	1.0	-0.1
Fuel Oil	658.6	643.5	607.0	-7.8	-5.7
Gas Oil (ADO)	908.2	916.9	915.3	0.8	-0.2
<b>Average</b>	872.8	893.2	872.0	-0.1	-2.4

**Source:** Ethiopian Petroleum Enterprise

Fig.II.3 Trends in FOB Prices of Petroleum Products Imported Into the Country (USD/MT)



Source: Ethiopian Petroleum Enterprise

Likewise, the price of crude oil in international market continued to decline and reached USD 88.13 per barrel during the review period from USD 92.69 per barrel registered in the previous quarter.

Accordingly the average retail price of fuel in Addis Ababa was reduced to Birr 16.9 per liter, depicting 1.9 percent annual and 0.1 percent quarterly fall (Table 2.4).

Following the marginal downward movement in international price, the government made adjustments to domestic fuel prices.

**Table 2.4: Addis Ababa Average Retail Prices of Fuel**

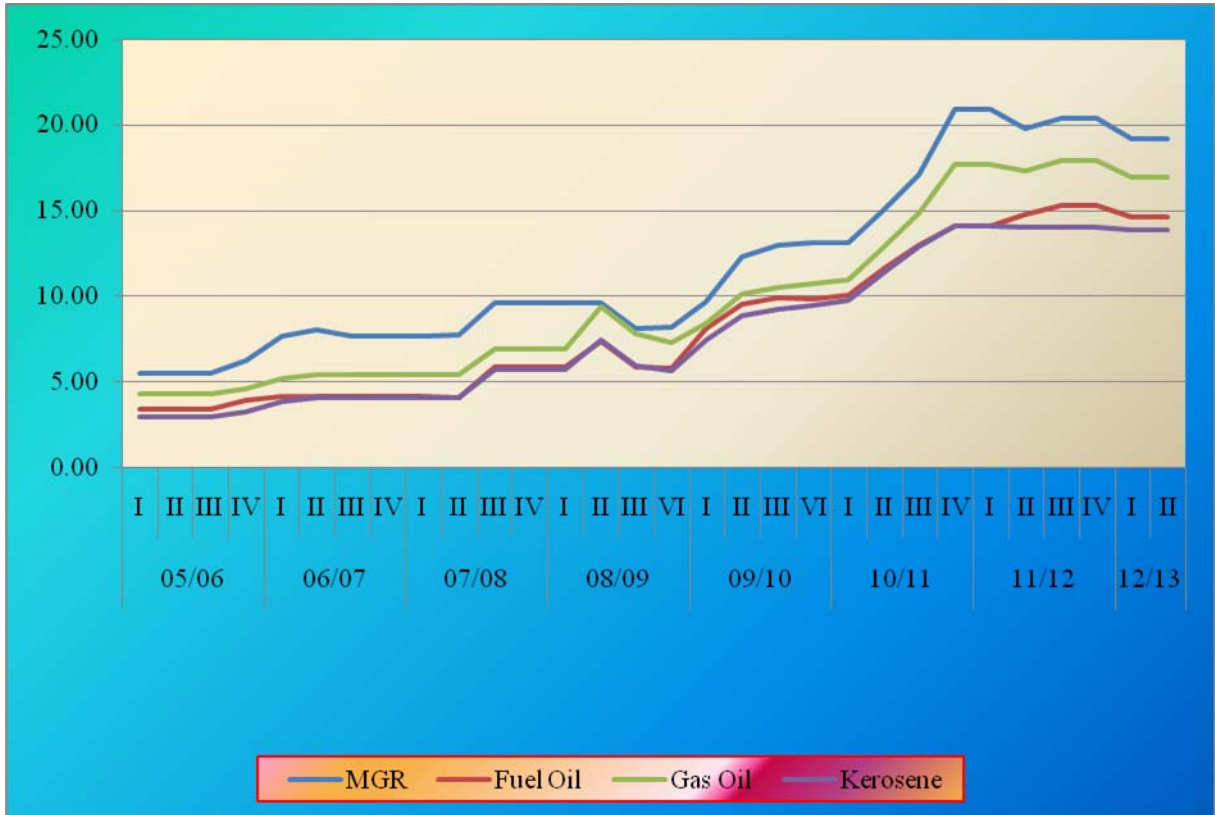
(Birr/Liter)

Petroleum Products	2011/12	2012/13		Percentage Change	
	Qtr II	Qtr I	Qtr II	C/A	C/B
	A	B	C		
Regular Gasoline (MGR)	19.8	19.2	19.2	-3.0	0.0
Fuel Oil	14.8	14.6	14.6	-1.7	0.0
Gas Oil (ADO)	17.3	16.9	16.9	-2.1	0.0
Kerosene	14.0	13.9	13.9	-0.7	0.0
Jet	20.5	20.3	20.2	-1.7	-0.5
<b>Average</b>	<b>17.3</b>	<b>17.0</b>	<b>16.9</b>	<b>-1.9</b>	<b>-0.1</b>

Source: Ethiopian Petroleum Enterprise

**Fig.II.4 Trends in Addis Ababa Retail Fuel Price**

*Birr/Liter*



**Source:** Ethiopian Petroleum Enterprise

## 2.2 Electric Power Generation

Total electricity generated during the quarter under review was 1.9 billion KWH which increased by about 22.5 percent annually and 6 percent quarterly terms. This was due to higher electricity generation through hydropower, which constituted 96.7 percent of the total power supply. Wind energy, which has been increasing from time to time, contributed to the quarterly improvement in power generation. Electricity from thermal and geo-thermal sources, however, exhibited sharp declines (Table 2.5).

In terms of system generation, about 99.9 percent of the electricity generated during the second quarter was from interconnected system (ICS) while the remaining 0.1 percent was from self contained system (SCS) (Table 2.6).

With a high and continued rise in demand associated with the country's economic growth, the supply of electricity is expected to increase steadily in the coming years. Accordingly efforts were under way to meet the ever growing demand of the economy for electricity. Hence, 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 new power stations (Great Renaissance Dam Project and wind energy). With this production level, electric power access coverage is expected to reach 75% of the population by end 2015 from 41 percent in 2010.



**Table 2.5: Electricity Generation**

('000 of K.W.H)

Power Source	2011/12		2012/13				Percentage Change	
	Qtr II	Share In %	Qtr I	Share In %	Qtr II	Share In %	C/A	C/B
	A		B		C			
Hydropower	1,544,635.5	99.9	1,764,865.6	98.7	1,832,856.8	96.7	18.7	3.9
Thermal Power	1,600.8	0.1	1012.2	0.1	1,540.6	0.1	-3.8	52.2
Geothermal	192.7	0.0	0.0	0.0	0.0	0.0	-100.0	-
Wind	0.0	0.0	22,329.1	1.2	60,368.8	3.2	-	170.4
<b>Total</b>	<b>1,546,429.0</b>	<b>100.0</b>	<b>1,788,206.9</b>	<b>100.0</b>	<b>1,894,766.1</b>	<b>100.0</b>	<b>22.5</b>	<b>6.0</b>

**Source:** Ethiopian Electric Power Corporation (EEPCO)

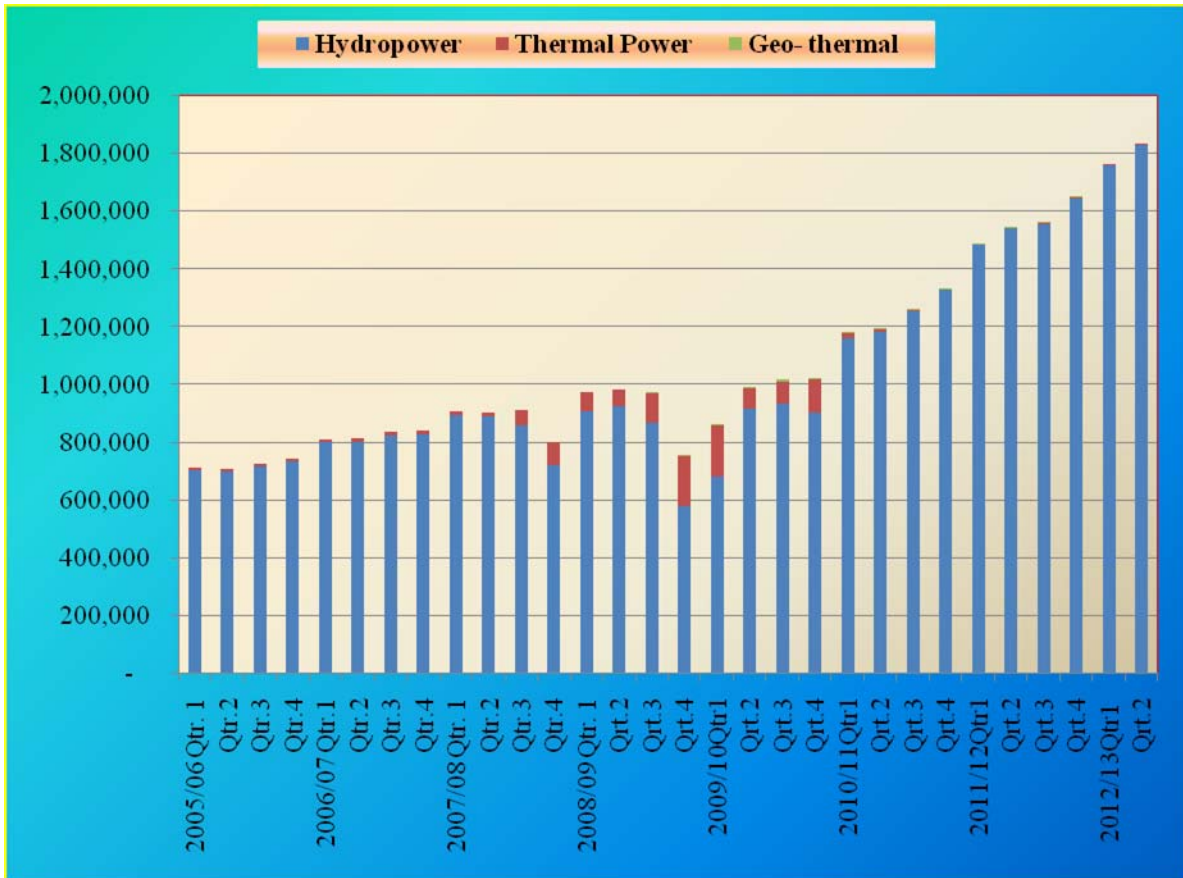
**Table 2.6: Generation of Electricity Power in the Interconnected System (ICS) and Self Contained System (SCS)**

('000 of K.W.H)

System of Power Supply	2011/12		2012/13				Percentage Change	
	Qtr II	Share	Qtr I	Share	Qtr II	Share		
	A	In %	B	In %	C	In %	C/A	C/B
<b>ICS</b>								
Hydro Power	1,544,255.7	99.9	1,764,418.3	98.7	1,832,590.2	96.7	18.7	3.9
Thermal Power	0.0	0.0	0.0	0.0	25.3	0.0	-	-
Geothermal	192.7	0.0	0.0	0.0	0.0	0.0	-100.0	-
Wind	0.0	0.0	22,329.1	1.2	60,368.8	3.2	-	170.4
<b>Sub-Total</b>	<b>1,544,448.4</b>	<b>99.9</b>	<b>1,786,747.4</b>	<b>99.9</b>	<b>1,892,984.3</b>	<b>99.9</b>	<b>22.6</b>	<b>5.9</b>
<b>SCS</b>								
Hydro Power	379.7	0.0	447.3	0.0	266.5	0.0	-29.8	-40.4
Thermal Power	1,600.8	0.1	1,012.2	0.1	1,515.3	0.1	-5.3	49.7
Geothermal	0.0	0.0	0.0	0.0	0.0	0.0	-	-
wind	0.0	0.0	0.0	0.0	0.0	0.0	-	-
<b>Sub-Total</b>	<b>1,980.6</b>	<b>0.1</b>	<b>1,459.5</b>	<b>0.1</b>	<b>1,781.8</b>	<b>0.1</b>	<b>-10.0</b>	<b>22.1</b>
<b>Grand Total</b>	<b>1,546,429.0</b>	<b>100.0</b>	<b>1,788,206.9</b>	<b>100.0</b>	<b>1,894,766.1</b>	<b>100.0</b>	<b>22.5</b>	<b>6.0</b>

**Source:** Ethiopian Electric Power Corporation (EEPCO)

**Fig.II.5 Volume of Hydropower, Thermal and Geothermal Power Production (In ‘000 KWH)**



**Source:** Ethiopian Electric Power Corporation (EEPCO)