



Statistical Bulletin
January to December
2021

March 2022

VISION

"A proactive, firm and fair energy regulator"

MISSION STATEMENT

"To regulate the energy sector in order to ensure the efficient provision of reliable and quality energy services and products"

EDITORIAL TEAM

Alfred M. Mwila
Simweemba Buumba
Cletus Sikwanda
Raymond Muyovwe

Director - Economic Regulation
Senior Manager - Research and Pricing
Economist - Research
Statistician

FOREWORD



I would like to welcome readers to the 2021 Energy Regulation Board (ERB)'s Statistical bulletin publication. The report builds on the previous edition and demonstrates the ERB's continued commitment to providing energy statistical data. The bulletin is published in line with the ERB's mandate to regulate the energy sector in an efficient manner by providing updated energy statistics.

Fred Hang'andu
Acting Director General
March 2022

The report is based on information collected from market players in Zambia and is intended to satisfy the different needs of our readers with regards to energy statistical data as it highlights the performance of the energy sector in 2021. The report provides statistics on licensing, petroleum production, and consumption. Further, it also provides statistics on electricity generation, transmission, distribution, supply, exports and imports. The statistics are accompanied by graphics that give detailed technical commentaries and descriptions.

The statistics provided are of great significance to several stakeholders including the Government, investors and regulators. The report is made available in various formats including print and electronic media; and can be accessed from our website (www.erb.org.zm) in pdf format.

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LIST OF ABBREVIATIONS

ERB	Energy Regulation Board
HFO	Heavy Fuel Oil
INDENI	INDENI Petroleum Refinery Company Limited
IPP	Independent Power Producer
ITT	Itezhi Tezhi
KFG	Kafue Gorge
KNBC	Kariba North Bank Company Limited
KNBE	Kariba North Bank Extension Power Corporation Limited
NFT	Ndola Fuel Terminal
OMC	Oil Marketing Company
SADC	Southern African Development Community
SAPP	Southern African Power Pool
SNEL	Societe Nationale d'Electricite Technical Assistance Project
TAZAMA	TAZAMA Pipelines Limited
ZESA	Zimbabwe Electricity Supply Authority
ZESCO	ZESCO Limited

UNITS OF MEASUREMENT

Bbl	Barrels of oil (159 litres)
GWh	Giga-Watt per hour (1,000 MWh)
K	Zambian Kwacha (ZMW)
Km	Kilometre
kV	Kilo Volt
kVA	Kilo Volt Amperes (1,000 Volt Amps)
kW	Kilo Watt
kWh	Kilo Watt hour
MT	Metric Tonne (in this document means a mass equivalent to 1,000 kg)
MWh	Mega Watt hour (1,000 kWh)
m ³	Cubic Meters
US\$	United States of America dollar

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- Copperbelt Energy Corporation Plc
- INDENI Petroleum Refinery Company Limited
- KNBE Power Corporation Ltd
- Lunsemfwa Hydropower Company Limited
- Maamba Collieries Limited
- Ndola Energy Company
- Northwestern Energy Corporation
- Oil Marketing Companies
- Regional Electricity Regulators Authority (RERA)
- TAZAMA Pipelines
- Zengamina Power Limited
- ZESCO Limited

EXECUTIVE SUMMARY

Executive Summary

Highlights of key developments in the Energy Sector during the period of January to December 2021

The national installed capacity of electricity stood at 3,316.43 MW as at 31st December 2021. With regards to the installed capacity by technology, hydro generation accounted for 81.5 percent followed by coal at 10.0 percent. Further Heavy Fuel Oil generation was at 3.3 percent, while Diesel and Solar were at 2.6 percent & 2.7 percent, respectively.

ZESCO generation from large hydro power plants increased from 11,715,607 MWh in 2020 to 14,668,907.67 MWh in 2021. This increase is attributed to the coming on stream of Kafue gorge lower. Similarly, the mini and small hydro power plants generation sent out also increased to 220,571.21 MWh in 2021 from 205,200 MWh in 2020. The generation from Independent Power Plants decreased to 2,744,648.39 MWh in 2021 from 3,234,505.00 MWh in 2020. Further, power generation from ZESCO diesel power plants was recorded at 1,479.3 MWh in 2021 compared to 3,685.2 MWh in 2020. This decrease is attributed to the decommissioning of the Luangwa diesel plant.

The national consumption of petroleum products increased by 10.2% from 1,329,290.66 MT in 2020 to 1,464,822.16 MT in 2021. This increase in consumption is mainly due to increased economic activity which may be attributed to relaxation of covid 19 pandemic restrictions. The total consumption for Gasoil, Jet A-1, LPG and Unleaded Petrol increased by 11.8%, 33.1%, 0.5% and 16.9%, respectively. The increase in consumption of Jet A-1 can be attributed to the relaxation of travel restrictions due to decreased incidences of covid 19. However, consumption for Heavy Fuel Oil and kerosene declined by 65.8% and 66.2% respectively. The decrease in HFO is attributed to the shutdown of INDENI and TAZAMA for most of the year.

In 2021, the market share of OMCs for white products, comprising petrol, kerosene and gasoil was dominated by Total Energies Zambia Limited at 20.0% followed by Mount meru and Puma Energy Zambia PLC at 19.1% and 19.0% respectively.

1.0 INTRODUCTION

The data published in the ERB's bi-annual statistical bulletin is based primarily on information from regulated entities submitted to the regulator.

The bi-annual statistical bulletin highlights the key developments that have occurred in the energy sector during the period January to December 2021 in relation to the preceding year.

The concept of regulating the energy sector in Zambia dates back as far as 1994 when the government promulgated the National Energy Policy to guide the development and management of the energy sector. The liberalization policy which allowed many players to come into the sector led to the formation of the ERB, which was established in 1997, following the enactment of the Energy Regulation Act Cap 436 of the laws of Zambia in 1995.

The ERB regulates undertakings in the energy sector including electricity, fossil fuels (petroleum) and other forms of energy such as solar and coal through specialized licenses issued.

In order to enhance development in the country, Government launched the 2019 National Energy Policy which has facilitated new legislation, the Energy Regulation Act No. 12 of 2019 and Electricity Act No. 11 of 2019 which empowers the ERB to undertake its mandate to greater extents.

Zambia's energy resource base comprises of electricity, petroleum and renewable energy. While petroleum is wholly imported, Zambia is endowed with many forms of energy resource(s) such as coal, biomass and renewable energy. It has significant reserves of these other forms of energy. The energy sector in many parts of the world is characterized by monopolistic market structures which are an impediment to the economic efficiency that is associated with a competitive market. The fundamental factors directly influencing the performance of the energy sector in Zambia include the exchange rate, interest rates, inflation and crude oil prices.

2.0 LICENSING STATISTICS

2.1 ELECTRICITY AND RENEWABLE ENERGY SUB-SECTOR LICENSING

Table 1: Electricity and renewable energy sub-sectors licensing for the period of January 2021 to December 2021

Licence Type	No. of Licences Issued
Manufacture, Supply, Installation, and Maintenance of Renewable Energy Generating Equipment	23
Embedded Generation of Electricity	1
Total	24

2.2 PETROLEUM SUB-SECTOR LICENSING

Table 2: Petroleum sub-sector licensing for the period of January 2021 to December 2021

Licence Type	No. of Licences Issued
Distribute, Import and Export of Petroleum Products	38
Distribute, Import and Export of Liquefied Petroleum Gas	3
Export of Liquefied Petroleum Gas (Butane)	1
Importation, Blending and Packaging, Distribution and Export of Lubricants	17
Retail of Petroleum Products	5
Road Transportation of Petroleum Products	24
Inclusions of Retail Sites	5
Total	93

3.0 ELECTRICITY SUB-SECTOR STATISTICS

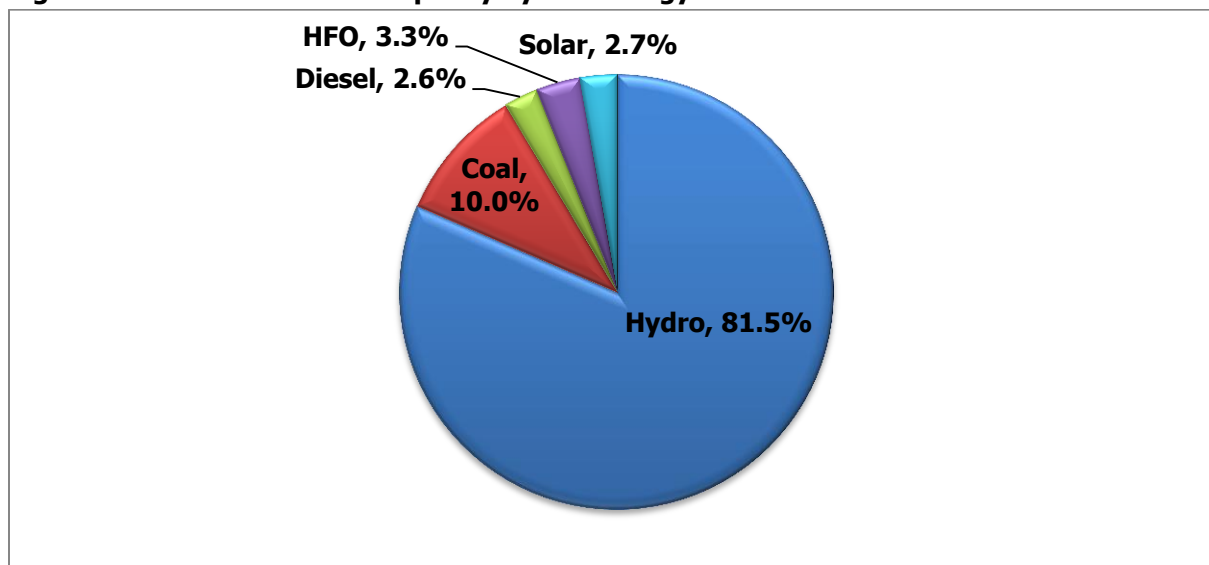
3.1.1 INSTALLED GENERATION CAPACITY

Table 3: Installed Generation Capacity as at end of December 2021

Licensee's Name	Station	Technology	Installed Capacity (MW)
ZESCO Limited	Kafue Gorge	Hydro	990.0
	Kariba North bank	Hydro	720.0
	Kariba North Extension	Hydro	360.0
	Victoria Falls	Hydro	108.0
	Lunzua River	Hydro	14.8
	Lusiwasi	Hydro	12.0
	Chishimba Falls	Hydro	6.0
	Musonda Falls	Hydro	10.0
	Shiwang'andu	Hydro	1.0
	Lusiwasi upper	hydro	6.0
	Kafue Gorge Lower	Hydro	300.0
Itezhi-tezhi Power Corporation	Itezhi-tezhi	Hydro	120.0
Zengamina Limited	Ikелengi	Hydro	0.7
Lunsemfwa Hydro Power Company	Mulungushi	Hydro	30.8
	Lunsemfwa	Hydro	23.2
	Total Hydro		2,702.50
Maamba Collieries Limited	Maamba Power Plant	Coal	300.00
Dangote Cement Zambia Limited	Dangote Thermal Power Plant	Coal	30.00
	Total Coal		330.00
Copperbelt Energy Corporation Generation Plants	Luano	Diesel	40.00
	Bancroft	Diesel	20.00
	Kankoyo	Diesel	10.00
	Maclaren	Diesel	10.00
ZESCO Limited Generation Plants	Shang'ombo	Diesel	1.60
	Lundazi	Diesel	1.75
	Chama	Diesel	1.45
	Total Diesel		84.80
Ndola Energy Generation Plants	Ndola	Heavy Fuel Oil	110.00
	Total Heavy Fuel Oil		110.00
Rural Electrification Authority Generation Plants	Samfya	Solar	0.06
Copperbelt Energy Corporation	Kitwe	Solar	1.00
Muhanya Solar Limited	Sinda Village	Solar	0.03
Ngonye Power Limited	LSMFEZ	Solar	34.00
Bangweulu Power Company Ltd	LSMFEZ	Solar	54.00
Solera Power	Luangwa bridge	Solar	0.01
Standard Microgrid	Kafue	Solar	0.02
Mugurameno	Chirundu	Solar	0.01
	Total Solar		89.13
Grand Total			3,316.43

3.1.2 National Installed Electricity Generation Capacity

Figure 1: National Installed capacity by technology as at 31st December 2021



3.2 GENERATION SENT OUT

3.2.1 ZESCO's Generation from Large Hydro Power Plants (MWh)

STATION/ MONTH	KFG		KNBC		KNBE		VICTORIA FALLS		Kafue Gorge Lower		TOTAL	
	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020
January	627,457.50	500,608.00	312,382.00	112,095.00	95,424.00	168,792.00	56,436.00	63,380.00	-	-	1,091,699.50	844,875.00
February	588,252.24	489,138.00	321,902.00	93,231.00	98,676.00	169,116.00	60,265.53	68,413.00	-	-	1,069,095.77	819,898.00
March	554,496.30	535,434.00	423,875.00	220,945.00	172,104.00	112,212.00	70,121.80	68,645.00	-	-	1,220,597.10	937,236.00
April	600,678.00	452,758.00	405,534.00	308,472.00	145,044.00	111,636.00	69,118.03	68,306.00	-	-	1,220,374.03	941,172.00
May	634,770.00	476,107.00	367,838.80	344,891.00	166,800.00	93,192.00	70,969.19	73,224.00	-	-	1,240,377.99	987,414.00
June	607,500.00	493,675.00	404,567.90	326,107.00	141,492.00	66,684.00	66,578.05	64,812.00	-	-	1,220,137.95	951,278.00
July	607,219.93	518,996.00	411,334.50	240,039.00	129,864.00	112,176.00	72,278.98	70,783.00	29,000.07	-	1,249,697.48	941,994.00
August	598,200.00	572,405.00	347,967.50	340,568.00	141,456.00	131,604.00	71,132.72	70,842.00	107,753.02	-	1,266,509.24	1,115,419.00
September	604,674.00	514,087.00	289,729.10	351,532.00	113,004.00	85,152.00	62,874.37	69,260.00	179,844.56	-	1,250,126.03	1,020,031.00
October	573,156.00	524,726.00	363,477.90	318,383.00	129,142.38	141,984.00	42,906.04	50,057.00	193,868.21	-	1,302,550.52	1,035,150.00
November	565,974.00	402,296.00	334,223.90	377,880.00	150,696.00	165,564.00	40,051.68	43,201.00	165,432.61	-	1,256,378.19	988,941.00
December	623,106.00	546,373.00	305,235.90	396,756.00	86,916.00	135,960.00	48,670.57	53,110.00	217,435.40	-	1,281,363.87	1,132,199.00
Total	7,185,483.97	6,026,603.00	4,288,068.50	3,430,899.00	1,570,618.38	1,494,072.00	731,402.96	764,033.00	893,333.87	-	14,668,907.67	11,715,607.00

Table 4: Electricity Generation from ZESCO's large hydro power plants from January to December 2020 vs 2021¹

¹ ZESCO's large hydro power plants refer to Kafue Gorge, Kariba North Bank, Kariba North Bank Extension Power plants

3.2.2 ZESCO's generation from small and mini hydro power plants (MWh)

Table 5: Generation sent out from ZESCO's small and mini hydro power plants from January to December 2020 vs 2021²

STATION / MONTH	LUSIWASI UPPER		LUSIWASI LOWER		CHISHIMBA		MUSONDA		LUNZUA		SHIWAN'GANDU		TOTAL	
	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020
January	7,692.28	-	3,011.79	3,294.00	1,099.00	1,223.00	5,327.18	5,993.00	7,918.16	7,292.00	228.24	254.00	25,276.65	18,055.00
February	9,196.57	-	2,540.30	2,089.00	753.83	1,251.00	6,154.27	5,443.00	9,104.45	9,718.00	202.87	283.00	27,952.29	18,785.00
March	7,873.95	6,580.00	2,711.10	2,282.00	701.37	986.00	6,664.71	5,332.00	10,492.25	10,663.00	209.55	257.00	28,652.93	26,100.00
April	5,185.40	1,131.00	2,679.86	3,085.00	1,745.54	1,298.00	6,882.94	6,268.00	9,937.80	10,139.00	286.46	293.00	26,718.00	22,214.00
May	3,176.72	-	3,337.43	4,566.00	1,613.58	1,566.00	7,200.97	7,051.00	8,497.88	10,534.00	288.77	288.00	24,115.34	24,004.00
June	4,080.89	-	2,910.50	3,113.00	968.78	1,398.00	5,086.02	6,387.00	6,434.47	8,127.00	293.26	292.00	19,773.92	19,316.00
July	4,234.60	-	2,720.39	4,136.00	956.22	1,366.00	3,644.17	4,815.00	5,289.91	6,907.00	313.83	302.00	17,159.12	17,527.00
August	3,392.20	-	3,387.83	4,540.00	754.57	998.00	2,809.82	3,354.00	4,110.02	5,558.00	338.90	289.00	14,793.34	14,739.00
September	3,067.03	-	2,484.02	3,138.00	743.62	891.00	2,651.82	2,452.00	3,259.76	4,327.00	109.99	340.00	12,316.24	11,148.00
October	269.06	1,600.00	2,879.16	1,528.00	675.14	600.00	3,469.58	2,502.00	2,889.06	3,688.00	113.55	238.00	10,295.56	10,157.00
November	1,503.80	650.00	896.02	756.00	502.25	593.00	2,096.48	3,559.00	1,664.97	2,033.00	40.04	180.00	6,703.56	7,771.00
December	1,595.76	3,672.00	10.37	2,007.00	846.65	660.00	1,932.35	3,853.00	2,411.94	4,999.00	17.18	194.00	6,814.25	15,384.00
Total	51,268.25	13,633.00	29,568.78	34,534.00	11,360.55	12,830.00	53,920.31	57,009.00	72,010.67	83,985.00	2,442.66	3,210.00	220,571.21	205,200.00

² ZESCO's small and mini hydro power plants refer to Lusiwasi, Chishimba falls, Musonda falls, Lunzua and Shiwang'andu power plants.

3.2.3 ZESCO's generation from diesel power plants (MWh)

Table 6: Generation sent out from ZESCO's diesel power plants from January 2020 to December 2021

Month	CHAMA		LUANGWA		LUNDAZI		SHANG'OMBO		Total	
	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020
January	58.3	9.0	-	349.1	34.1	58.7	90.3	83.3	182.6	500.2
February	16.7	1.4	-	322.9	16.8	39.7	85.7	77.7	119.2	441.7
March	7.5	-	-	363.4	15.0	50.7	89.2	83.2	111.7	497.3
April	0.8	-	-	356.0	1.3	16.5	83.7	80.3	85.8	452.7
May	3.0	4.7	-	330.0	24.0	535.1	87.0	82.7	114.0	952.6
June	1.5	8.2	-	-	14.2	23.3	87.8	81.2	103.5	112.6
July	2.3	5.8	-	-	44.5	19.6	90.5	84.5	137.3	109.9
August	6.4	2.0	-	-	27.1	22.3	94.9	84.0	128.3	108.2
September	3.5	18.9	-	-	31.8	14.9	91.5	81.1	126.8	114.9
October	10.5	14.1	-	-	25.5	36.5	92.8	89.8	128.8	140.4
November	4.4	14.2	-	-	25.4	24.9	87.2	81.8	117.0	120.9
December	10.8	-	-	-	22.9	45.6	90.7	88.3	124.3	133.9
Total	125.8	78.3	-	1,721.3	282.4	887.7	1,071.1	998.0	1,479.3	3,685.2

3.2.4 Generation from Independent Power Producers (IPPs)³ (MWh)

Table 7: Trends in Electricity generation (MWh) sent out by each IPP from January to December 2020 & 2021

Month	Itezhi-tezhi		Lunsemfwa Hydro Power Company		Maamba		Ndola Energy Company		Bangweulu		Ngonye		Total	
	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020
January	53,939.45	22,445.00	4,787.07	-	127,042.47	166,892.00	30,325.50	71,119.00	6,186.07	7,313.00	3,609.80	4,116.00	225,890.36	271,886.00
February	42,272.28	20,537.00	20,041.48	982.00	83,947.08	185,628.00	15,086.68	47,238.00	6,072.61	6,527.00	3,572.20	3,828.00	170,992.34	264,740.00
March	81,864.34	45,908.00	28,145.01	2,557.00	96,417.32	171,947.00	-	41,256.00	7,829.06	8,055.00	4,296.10	5,062.00	218,551.83	274,785.00
April	81,603.31	80,130.00	33,600.20	-	48,646.01	149,653.00	-	4,456.00	8,040.00	8,190.00	4,715.90	5,274.00	176,605.42	247,703.00
May	81,915.41	87,081.00	34,700.86	2,173.00	87,234.07	197,996.00	-	-	7,825.08	8,942.00	4,878.40	5,642.00	216,553.82	301,834.00
June	85,158.84	84,825.00	33,885.34	7,679.00	95,242.07	191,554.00	-	-	7,091.04	6,384.00	4,284.90	3,547.00	225,662.19	293,989.00
July	74,801.73	87,587.00	33,619.63	24,281.00	105,460.26	197,338.00	-	23,535.00	7,082.98	7,608.00	4,424.10	4,484.00	225,388.70	344,833.00
August	71,100.69	80,497.00	31,298.38	23,008.00	149,851.79	64,238.00	-	35,220.00	8,206.72	8,219.00	5,169.80	5,078.00	265,627.38	216,260.00
September	52,758.75	69,457.00	27,980.29	18,293.00	95,898.90	182,536.00	46,142.33	13,402.00	7,874.85	8,350.00	5,638.10	5,431.00	236,293.22	297,469.00
October	75,368.54	71,267.00	34,483.93	15,323.00	96,668.98	171,382.00	25,613.27	-	8,225.40	8,817.00	6,247.10	6,259.00	246,607.22	273,048.00
November	70,139.53	63,051.00	35,497.00	12,988.00	117,910.81	147,725.00	-	27,319.00	6,941.86	7,559.00	5,552.80	5,448.00	236,042.01	264,089.00
December	58,189.32	51,883.00	36,052.64	-	192,296.30	67,726.00	-	54,239.00	7,864.36	6,189.00	6,031.30	3,834.00	300,433.92	183,869.00
Total	829,112.19	764,668.00	354,091.83	107,284.00	1,296,616.06	1,894,615.00	117,167.78	317,784.00	89,240.04	92,153.00	58,420.50	58,003.00	2,744,648.39	3,234,505.00

³ IPPs refers to Lunsemfwa, Ndola Energy Co., ITPC, Bangweulu Solar, Ngonye Solar, Kafue ore lower and Maamba Coal plants

3.3 PLANNED ELECTRICITY GENERATION PROJECTS

Table 8: Expected electricity generation projects

GENERATION PROJECTS	Type	Owner	Capacity (MW)	Expected Completion Date
Lusiwasi Lower 86MW Hydro Scheme	Hydro	ZESCO	86	TBA
Lusiwasi Upper 15MW Hydro Scheme	Hydro	ZESCO	15	TBA
Musonda Falls 10MW Hydro Scheme	Hydro	ZESCO	10	TBA
Batoka Gorge Hydropower Project, 1200MW	Hydro	ZESCO	1200	TBA

3.4 ZESCO ELECTRICITY EXPORTS AND IMPORTS

Table 9: ZESCO's Imports and Exports for January to December 2020 & 2021

ZESCO ELECTRICITY EXPORTS AND IMPORTS				
Month	Exports (MWh)		Imports (MWh)	
	2021	2020	2021	2020
January	148,756.06	84,046.98	1,236.18	62,879.07
February	153,948.41	80,923.91	1,146.64	46,660.84
March	169,695.38	114,342.02	1,639.55	5,208.69
April	167,289.88	110,165.50	1,410.52	2,283.39
May	172,959.87	119,701.62	1,498.31	1,383.27
June	198,148.01	110,221.55	1,530.98	1,430.73
July	187,173.42	116,089.67	1,508.58	1,478.01
August	188,996.84	119,952.74	1,592.15	1,474.59
September	192,348.22	117,128.01	1,527.16	1,411.25
October	204,752.16	118,254.00	1,635.04	1,365.79
November	184,273.26	120,595.60	1,500.99	3,102.69
December	183,680.75	128,110.35	1,465.78	1,257.75
Total	2,152,022.25	1,339,531.97	17,691.88	129,936.07

3.4.1 Electricity Exports by Export Market (MWh)

Table 10: Electricity exports by export market for January to December 2021

Month / Destination	Nampower	SNEL	BPC	ESCOM	LV Exports	via SAPP MARKET	TOTAL EXPORTS
January	73,048.30	51,454.95		1,085.29	10,165.32	13,002.20	148,756.06
February	66,828.00	49,812.84		1,149.47	9,078.39	27,079.70	153,948.41
March	75,540.60	56,528.89		1,047.49	9,933.50	26,644.90	169,695.38
April	71,077.85	60,792.74		1,511.62	10,639.16	23,268.50	167,289.88
May	73,552.70	50,487.77	36,400.00	1,405.64	10,972.35	141.40	172,959.87
June	70,121.10	63,402.25	35,750.00	1,246.84	11,016.03	16,611.80	198,148.01
July	74,680.35	60,918.97	38,602.00	1,201.30	10,926.79	844.00	187,173.42
August	73,747.95	59,139.61	38,000.00	1,234.80	10,943.49	5,931.00	188,996.84
September	71,468.30	61,177.65	36,700.00	1,153.52	11,015.75	10,833.00	192,348.22
October	73,428.10	71,438.28	38,700.00	1,217.93	10,289.95	9,677.90	204,752.16
November	70,094.65	62,823.44	39,000.00	1,027.52	8,932.74	2,394.90	184,273.26
December	70,094.65	61,220.52	41,900.00	1,130.43	9,335.16	-	183,680.75
Total	863,682.55	709,197.91	305,052.00	14,411.86	123,248.63	136,429.30	2,152,022.25

3.4.2 Electricity Imports by Import Market (MWh)

Table 11: Electricity imports by import market for January to December 2021

Month/Source	Eskom	LV Imports	via SAPP MARKET	Total
January	-	1,236.18	-	1,236.18
February	-	1,146.64	-	1,146.64
March	-	1,362.35	277.20	1,639.55
April	-	1,410.52	-	1,410.52
May	-	1,498.31	-	1,498.31
June	-	1,530.98	-	1,530.98
July	-	1,508.58	-	1,508.58
August	-	1,592.15	-	1,592.15
September	-	1,527.16	-	1,527.16
October	-	1,535.04	100.00	1,635.04
November	-	1,500.99	-	1,500.99
December	-	1,465.78	-	1,465.78
Total	-	17,314.68	377.20	17,691.88

3.5 ELECTRICITY CONSUMPTION BY ECONOMIC SECTOR (MWh)

Table 12: Monthly consumption of electricity by sector January 2021 to December 2021

Electricity Consumption (MWh)	January	February	March	April	May	June	July	August	September	October	November	December
Agriculture	11,109.44	9,006.29	12,206.29	19,913.95	28,590.83	30,970.65	37,274.16	39,424.10	30,849.09	24,146.25	24,146.80	26,108.02
Construction	674.44	589.42	724.75	674.19	709.99	1,049.17	931.68	873.54	896.78	842.17	750.08	677.58
Energy and Water	9,504.96	8,747.16	8,542.97	9,831.44	9,308.02	7,836.84	9,421.00	9,720.66	9,597.84	10,138.04	10,450.81	10,569.79
Finance and Property	63,345.29	55,231.56	65,919.38	65,095.43	69,447.67	63,898.38	70,804.68	71,321.36	75,654.00	77,651.64	79,713.88	77,350.92
Manufacturing	28,821.22	28,524.19	32,267.72	30,875.16	29,125.97	31,502.11	31,672.83	31,673.75	32,949.76	29,459.51	34,380.09	34,186.11
Mines (Total)	556,878.66	464,825.42	548,148.08	518,058.36	545,313.75	539,916.24	503,351.32	538,217.23	520,538.90	546,310.13	533,200.41	164,946.52
Mining (Quarries)	40,694.07	33,093.36	41,141.62	45,709.33	47,979.09	44,580.48	47,538.22	43,582.73	46,647.88	57,526.42	59,383.93	63,704.01
Others	6,366.41	4,699.90	4,913.48	4,718.11	5,972.11	5,092.69	4,609.41	4,937.50	5,093.96	4,798.30	4,596.69	4,652.98
PPA	-	-	-	-	-	-	-	-	-	-	-	-
Services (Households)	353,085.44	339,261.98	367,004.92	369,020.77	379,639.46	382,053.44	394,943.80	391,743.31	390,029.64	373,524.61	362,020.21	374,976.84
Trade	6,758.62	7,227.72	6,702.41	5,932.11	6,921.43	6,894.93	6,382.19	6,538.19	7,066.45	7,707.26	7,175.13	7,509.44
Transport	2,608.38	2,275.69	2,602.38	2,569.89	2,455.52	2,548.28	2,650.88	2,668.39	2,823.92	2,917.57	2,809.06	2,891.03
Total	1,079,846.93	953,482.69	1,090,174.00	1,072,398.74	1,125,463.84	1,116,343.19	1,109,580.18	1,140,700.77	1,122,148.23	1,135,021.90	1,118,627.10	767,573.22

3.6 CUSTOMER BASE BY UTILITY COMPANY

3.6.1 ZESCO's customer base by tariff category

Table 13: ZESCO's customer base by tariff category as at 31st December 2021

TARIFF CATEGORY	2020	Percentage (%)	2021	Percentage (%)
RESIDENTIAL	963,834	85.2%	1,013,992	89.7%
MAXIMUM DEMAND	8,720	0.8%	9,187	0.8%
COMMERCIAL	86,475	7.6%	93,981	8.3%
AGRICULTURE	846	0.1%	879	0.1%
SOCIAL	11,807	1.0%	12,612	1.1%
TOTAL	1,071,682	94.8%	1,130,651	100.0%

3.6.2 Northwestern Energy Corporation (NWE) customer base by tariff category

Table 14: Northwestern Energy Corporation customer base by tariff category as at 31st December 2021

TARIFF CATEGORY	TOTAL	PERCENTAGE (%)
RESIDENTIAL	3,171	97.4
SOCIAL	10	0.3
COMMERCIAL	73	2.2
INDUSTRIAL	1	0.0
TOTAL	3,255	100.0

3.7 REGIONAL AND DOMESTIC ELECTRICITY TARIFFS

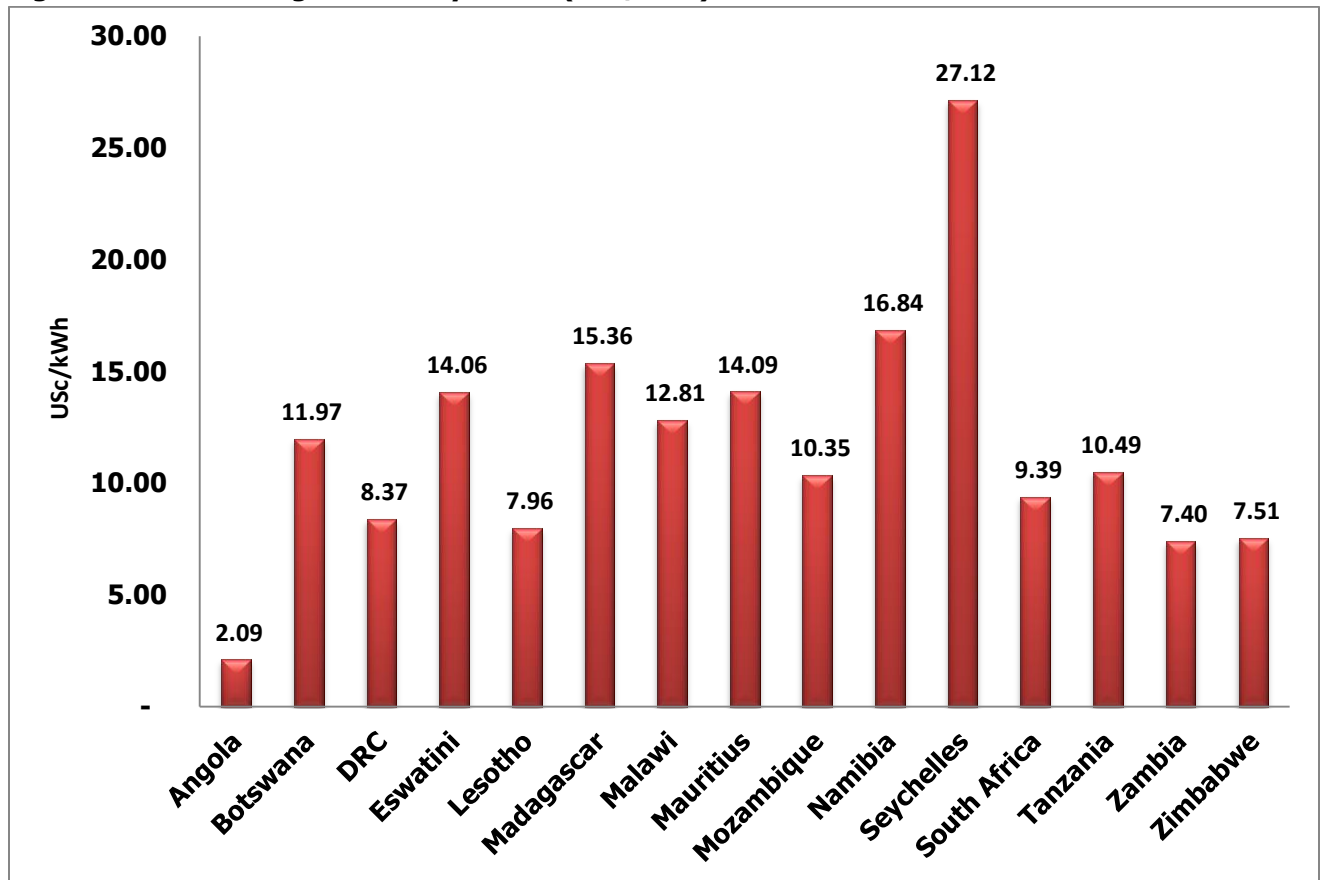
3.7.1 ZESCO Electricity tariffs

Table 15: ERB approved electricity tariffs as at 31st December 2021

Customer category	Tariff components	Approved Tariffs as at 31 st December 2020
1. METERED RESIDENTIAL (Prepaid) (capacity 15 kVA)		
R1 – Consumption from 1 - 100 kWh in a month	Energy charge/kWh	0.47
R2 – Consumption between 101kWh - 300 kWh in a month	Energy charge/kWh	0.85
R3 – Consumption above 300kWh	Energy charge/kWh	1.94
2. Commercial Tariffs (capacity 15kVA)		
C1 – Consumption up to 200kWh	Energy charge/kWh	1.07
C2 – Consumption above 200kWh	Energy charge/kWh	1.85
	Fixed Monthly Charge	Abolished
3. Social Services		
Schools, Hospital, Orphanages, churches, water pumping & street lighting	Energy charge K/kWh	1.19
	Fixed Monthly Charge	203.73
4. Maximum Demand Tariffs		
MD1- Capacity between 16 - 300 kVA	MD Charge (K/KVA/Month)	42.79
	Energy Charge (K/kWh)	0.61
	Fixed Monthly Charge (K/Month)	419.02
	Off Peak MD Charge (K/KVA/Month)	21.39
	Off Peak Energy Charge (K/kWh)	0.46
	Peak MD Charge (K/KVA/Month)	53.48
	Peak Energy Charge (K/kWh)	0.77
MD2- Capacity 301 to 2,000 kVA	MD Charge (K/KVA/Month)	80.03
	Energy Charge (K/kWh)	0.53
	Fixed Monthly Charge (K/Month)	837.97
	Off Peak MD Charge (K/KVA/Month)	40.01
	Off Peak Energy Charge (K/kWh)	0.39
	Peak MD Charge (K/KVA/Month)	100.03
MD3- Capacity 2,001 to 7,500kVA	MD Charge (K/KVA/Month)	126.39
	Energy Charge (K/kWh)	0.43
	Fixed Monthly Charge (K/Month)	1,755.17
	Off Peak MD Charge (K/KVA/Month)	63.2
	Off Peak Energy Charge (K/kWh)	0.32
	Peak MD Charge (K/KVA/Month)	157.99
MD4-Capacity 7500kVA to 25,000 kVA	MD Charge (K/KVA/Month)	127.39
	Energy Charge (K/kWh)	0.36
	Fixed Monthly Charge (K/Month)	3,510.39
	Off Peak MD Charge (K/KVA/Month)	63.55
	Off Peak Energy Charge (K/kWh)	0.27
	Peak MD Charge (K/KVA/Month)	158.88
Bulk Distributors tariff	Maximum Demand customers - MD Charge/KVA/month	58.6
	(Purchasers of Power for distribution)	Retail customers – Energy charge / kWh
		0.49
NOTE: The above tariffs are:-		
(a) Exclusive of 3% Government excise duty		
(b) Exclusive of 16% Value Added Tax (VAT)		

3.7.2 Regional Electricity tariffs

Figure 2: SADC average electricity tariffs (USc/kWh) as at 31st December 2021



4.0 PETROLEUM SUB-SECTOR STATISTICS

4.1 RETAIL SERVICE STATIONS PROVINCIAL DISTRIBUTION

Table 16: Retail service stations by provincial distribution as at 31st December 2021

OMC	Central	Copperbelt	Eastern	Luapula	Lusaka	Muchinga	Northern	Northwestern	Southern	Western	Grand Total
Admire Energy Ltd					1						1
Asharami Energy Resources Zambia					1						1
Collum Lunm Tian Petroleum					1						1
Eco Petroleum Ltd		3		1		1	1	1			7
Endrone Petroleum							2				2
Engen	1	11	1	1	27		2	2	3	1	49
Fa Fuel Ltd		1									1
Hass		2			2					1	5
Japawa						1					1
Karan Investments Z Ltd	1	1			1				1		4
Kasgon Energy Limited				1							1
Lake Petroleum Ltd	3	10			12	1		1	1		28
Lbm Investments Limited		1		1		1	3				6
Luapula Oils Ltd				1							1
Lushomo	1										1
Mel Petroleum						1		1			2
Mon Fuel And Oil Investments Limited								1			1
Mount Meru Petroleum Zambia Ltd	10	10	2	1	28	1	1	6	6	2	67
Oasis Oil Ltd			6		3						9
Oilbay (Z) Ltd	1										1
Oryx Energies Zambia Limited		7	2	1	11				2	1	24
Petroda Zambia Ltd		6			17			1			24
Petrolink		1						2			3
Puma Energy Zambia	3	15	5	1	23	1	1	3	6	3	61
Ravasia					1						1
Refuel										1	1
Rubis Zambia Ltd	4	13	2		11				5	1	36
Sgc		16	2		7		3		1		29
Simba Energy		1				2					3
Simba Oil Company	1				1						2
Sino					1						1
Spectra Oil Corporation	1				4						5
Star Oil Company Ltd		1									1
Surya					1						1
Total Energies	7	18	1	1	26	2	1	2	3	1	62
Tribute								2			2
Ufuel	1										1
Www Investment Ltd	1										1
Zacks	1					1					2
Zamfuel	1		2		3						6
Zhongkuang Zambia Services Co. Ltd		1									1
Grand Total	37	118	23	9	182	12	14	22	28	11	456

4.2 PETROLEUM UPLIFTS BY OIL MARKETING COMPANIES

4.2.1 Diesel ⁴uplifts by Oil Marketing Companies

Table 17: Actual Quantities of Diesel Uplifted at Government Fuel depots for January to December 2020 & 2021

Month	2020		2021	
	Quantity (m ³)	Average Daily Uplifts	Quantity (m ³)	Average Daily Uplifts
January	68,899.49	2,222.56	19,271.13	621.65
February	51,963.26	1,791.84	10,611.29	530.56
March	44,941.81	1,449.74	31,990.88	1,031.96
April	29,763.47	992.12	24,120.72	804.02
May	29,269.64	944.18	39,245.82	1,265.99
June	23,822.92	794.10	44,495.77	1,483.19
July	16,650.41	537.11	61,568.06	1,986.07
August	24,086.46	776.98	56,807.78	1,832.51
September	27,836.63	927.89	59,011.56	1,967.05
October	544.85	17.58	50,434.31	1,626.91
November	28,400.69	946.69	43,905.77	1,463.53
December	34,388.84	1,109.32	44,831.94	1,446.19
Gasoil Total	380,568.48	1,039.80	486,295.03	1,332.32

4.2.2 Unleaded Petrol uplifts by Oil Marketing Companies

Table 18: Actual Quantities of Unleaded Petrol Uplifted at Government Fuel depots for January to December 2020 & 2021

Month	2020		2021	
	Quantity (m ³)	Average Daily Uplifts	Quantity (m ³)	Average Daily Uplifts
January	29,422.39	949.11	5,068.94	163.51
February	17,722.98	632.96	6,062.16	216.51
March	14,046.35	453.11	15,394.35	496.59
April	10,389.97	346.33	25,442.40	848.08
May	11,683.04	376.87	23,067.86	744.12
June	13,666.76	455.56	21,848.22	728.27
July	10,762.31	347.17	39,608.34	1,277.69
August	11,120.48	358.73	30,895.26	996.62
September	13,984.45	466.15	29,315.99	977.20
October	7,586.76	244.73	22,136.32	714.07
November	18,248.52	608.28	21,894.03	729.80
December	22,463.98	724.64	28,336.79	914.09
Unleaded Petrol Total	181,097.98	494.80	269,070.66	737.18

⁴ This is a combination of Gasoil and Low Sulphur Gasoil

4.3 GOVERNMENT IMPORTATION OF PETROLEUM FEEDSTOCK

Table 19 Volumes of Petroleum Feedstock Imports for January to December 2020 & 2021

Year	Cargo Name	Month	Tonnage (MT)
2021	MT. AMAZON BRILLIANCE	Aug-21	42,359.79
2020	MT. Almi star	Jan-20	98,822.30
	MT. Desh Samman V	Apr-20	97,902.81
	Total		196,725.11

4.4 IMPORTATION OF FINISHED PETROLEUM PRODUCTS

4.5.1 Importation of Unleaded Petrol & Gasoil, January to December 2021

Table 20: Monthly Importation of Unleaded Petrol and Gasoil for January to December 2021

No	Product	Quantity
1	Butane, Liquefied (Kgs)	131,926.01
2	Diesel (Litres)	1,272,063,900
3	Heavy Fuel Oils (Kgs)	14,439,569.00
4	Jet A-1 (Litres)	26,879,610.00
5	Kerosene (Litres)	3,347,990
6	Liquefied Petroleum gases (LPG) (Kgs)	7,548,172.00
7	Other Light Oils (Litres)	387,430.00
8	Petrol (Litres)	499,863,310

4.5 INDENI REFINERY PRODUCTION OF PETROLEUM PRODUCTS

Table 21 : Production of petroleum products by INDENI for January to December 2020 & 2021⁵

Month / Products	Gasoil (MT)		Unleaded Petrol (MT)		Kerosene (MT)		Jet A1 (MT)		LPG (MT)		Commercial BUTANE (MT)		HFO (MT)	
	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
January	30,378.00	-103.00	11,897.00	84.00	46.00	-13.00	0.00	0.00	809.00	37.00	469.00	-51.00	16,106.00	-369.00
February	28,731.00	-115.00	10,863.00	273.00	1,525.00	4.00	0.00	0.00	526.00	-1.00	513.00	1.00	10,269.00	-405.00
March	18,010.00	-111.00	7,397.00	1,009.00	1,136.00	0.00	0.00	0.00	423.00	-2.00	85.00	0.00	5,383.00	-520.00
April		1.00		689.00		-2.00	0.00	0.00		0.00		-1.00		9.00
May		-2.00		415.00		-12.00	0.00	0.00		-29.00		-4.00		3.00
June		-57.00		1,462.00		-1.00	0.00	0.00		0.00		0.00		-7.00
July	17,509.00	6.00	9,748.00	203.00	5,278.00	-28.00	0.00	0.00	361.00	0.00		0.00	7,554.00	-135.00
August	26,621.00	15,149.00	13,047.00	6,864.00		1,922.45	0.00	0.00	650.00	309.00	186.00	-46.00	11,191.00	14,781.00
September		3,608.00		2,280.00		436.00	0.00	0.00		86.00		87.00		3,460.00
October	367.00	-47.00	256.00	244.56	67.00	-1.00	0.00	0.00	22.00	0.00		0.00	95.00	-88.87
November	26,572.00	-15.00	14,589.00	250.08	298.00	-24.00	0.00	0.00	872.00	0.00	235.00	0.00	18,079.00	-19.76
December	12,574.00	0.00	6,701.00	0.00	338.00	2.00	0.00	0.00	13.00	0.00	262.00	0.00	11,321.00	-117.66
Grand Total	160,762.00	18,314.00	74,498.00	13,773.64	8,688.00	2,283.45	0.00	0.00	3,676.00	400.00	1,750.00	-14.00	79,998.00	16,590.71

⁵ Negative implies internal movement in the product which could be due to transfers or consumption

4.6 NATIONAL MONTHLY AVERAGE CONSUMPTION OF PETROLEUM PRODUCTS

Table 22 : National Monthly Consumption of White Petroleum Products for January- December 2020 & 2021

Month / Product	Gasoil (Litres)		Kerosene (Litres)		Unleaded Petrol (Litres)	
	2020	2021	2020	2021	2020	2021
January	81,373,001.27	80,901,221.10	734,935.57	113,101.58	37,611,442.14	37,676,789.76
February	73,884,432.83	80,511,828.88	662,908.92	112,527.85	34,431,138.12	35,445,422.01
March	79,655,113.55	108,354,298.26	697,195.46	51,199.30	33,342,472.08	45,138,192.95
April	80,123,240.75	91,058,581.13	887,359.32	97,147.70	30,950,809.97	41,383,050.88
May	91,335,621.64	105,018,560.54	944,483.86	12,446.00	33,289,924.04	45,119,136.09
June	89,901,096.00	102,282,924.43	734,020.66	793.41	35,683,006.64	44,864,143.56
July	97,802,406.51	110,638,494.98	840,095.81	150,895.37	40,114,230.01	44,378,330.28
August	95,309,194.78	109,206,622.09	868,050.78	1,164,626.02	38,929,407.64	43,922,408.29
September	101,358,088.91	106,021,704.58	1,050,561.73	659,576.03	40,642,922.19	45,972,584.86
October	101,543,234.46	108,020,498.03	687,579.68	636,351.54	42,472,535.50	47,391,339.79
November	103,304,343.07	105,264,694.36	634,584.92	133,408.48	43,375,467.11	48,168,258.13
December	91,093,513.57	107,245,551.17	697,431.55	38,982.46	41,731,428.35	49,422,167.06
Grand Total	1,086,683,287.32	1,214,524,979.54	9,439,208.26	3,171,055.73	452,574,783.80	528,881,823.65

Table 23 : National Monthly Consumption of Non-White Petroleum Products for January-December 2020 & 2021

Month / Product	Heavy Fuel Oil (Kgs)		Jet A-1 (Litres)		LPG (Kgs)	
	2020	2021	2020	2021	2020	2021
January	17,751,676.94	385,960.00	2,667,177.00	1,754,836.00	670,642.91	627,525.79
February	3,913,240.17	1,008,160.00	2,484,892.00	1,817,834.00	642,348.34	595,103.98
March	12,513,531.67	802,801.00	2,143,094.00	1,725,152.00	723,998.68	815,542.47
April	2,031,960.00	701,960.00	889,282.00	1,356,228.00	557,669.11	697,234.48
May	225,120.00	1,021,940.00	920,669.00	2,254,086.00	589,876.68	742,039.41
June	2,430,720.00	2,190,020.00	1,486,558.00	2,465,483.00	740,689.67	703,450.20
July	1,147,440.00	1,375,000.00	1,772,047.00	2,738,109.00	684,023.49	646,618.39
August	881,060.00	2,401,380.00	1,477,092.00	3,214,601.00	734,673.82	629,575.78
September	573,220.00	2,588,931.00	1,532,512.00	3,193,125.00	705,042.08	611,783.35
October	358,843.00	1,874,934.00	1,877,543.00	2,557,388.00	575,279.22	618,262.61
November	1,306,038.00	164,060.00	1,619,432.00	2,412,711.00	639,594.97	675,568.18
December	1,890,200.00	869,796.00	1,976,682.00	2,255,009.00	681,202.80	618,395.48
Grand Total	45,023,049.78	15,384,942.00	20,846,980.00	27,744,562.00	7,945,041.77	7,981,100.11

4.7 DAILY NATIONAL AVERAGE CONSUMPTION OF PETROLEUM PRODUCTS

Table 24: Daily National Consumption of White Petroleum Products for January- December 2020 & 2021

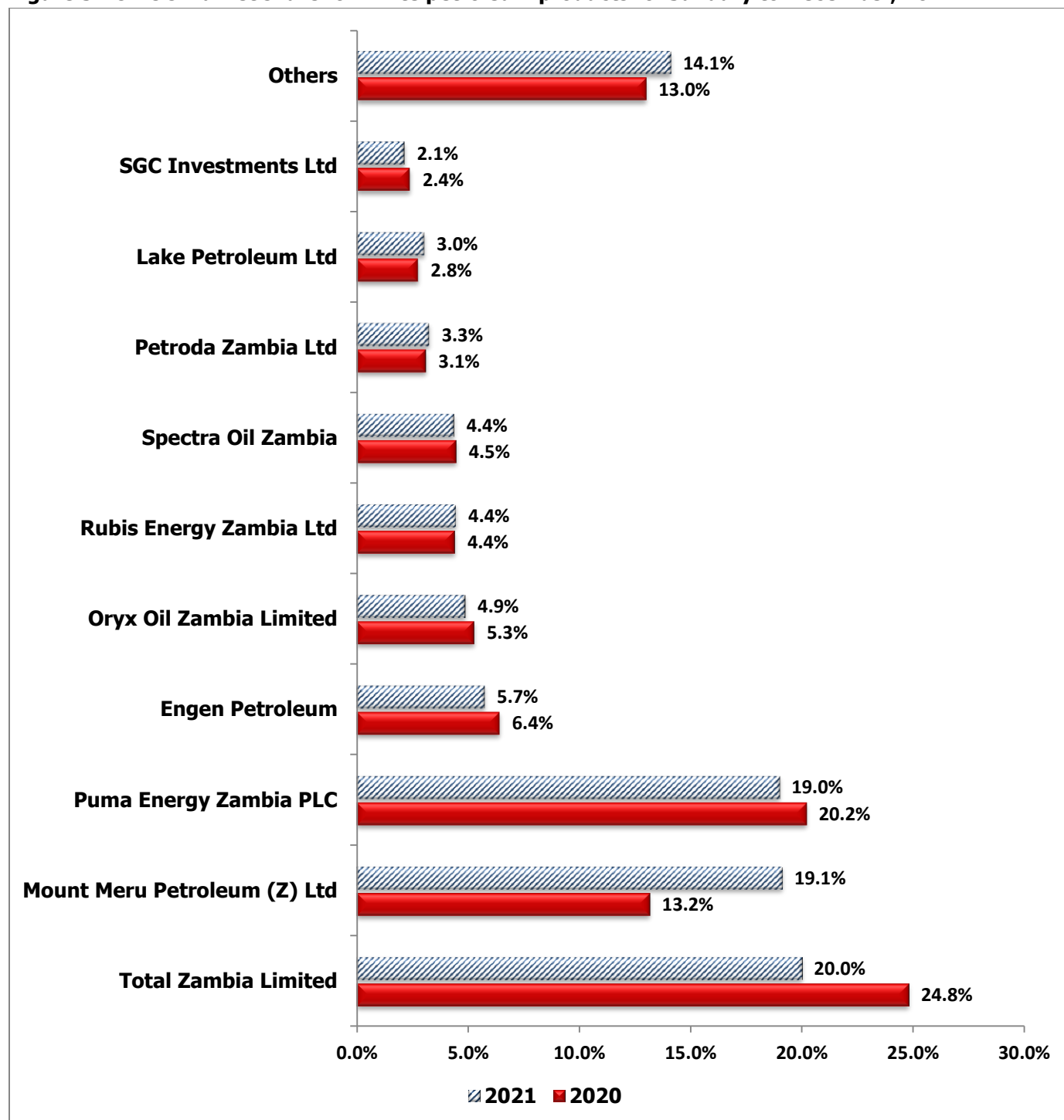
Month / Product	Gasoil (Litres)		Kerosene (Litres)		Unleaded Petrol (Litres)	
	2020	2021	2020	2021	2020	2021
January	222,330.60	221,647.18	2,008.02	309.87	102,763.50	103,224.08
February	201,870.04	220,580.35	1,811.23	308.30	94,074.15	97,110.75
March	217,636.92	296,861.09	1,904.91	140.27	91,099.65	123,666.28
April	218,915.96	249,475.56	2,424.48	266.16	84,565.05	113,378.22
May	249,550.88	287,722.08	2,580.56	34.10	90,956.08	123,614.07
June	245,631.41	280,227.19	2,005.52	2.17	97,494.55	122,915.46
July	267,219.69	303,119.16	2,295.34	413.41	109,601.72	121,584.47
August	260,407.64	299,196.22	2,371.72	3,190.76	106,364.50	120,335.37
September	276,934.67	290,470.42	2,870.39	1,807.06	111,046.24	125,952.29
October	277,440.53	295,946.57	1,878.63	1,743.43	116,045.18	129,839.29
November	282,252.30	288,396.42	1,733.84	365.50	118,512.21	131,967.83
December	248,889.38	293,823.43	1,905.55	106.80	114,020.30	135,403.20
Grand Total	2,969,080.02	3,327,465.70	25,790.19	8,687.82	1,236,543.13	1,448,991.30

Table 25 : Daily National Consumption of Non-White Petroleum Products for January-December 2020 & 2021

Month / Product	Heavy Fuel Oil (Kgs)		Jet A-1 (Litres)		LPG (Kgs)	
	2020	2021	2020	2021	2020	2021
January	48,501.85	1,057.42	7,287.37	4,807.77	1,832.36	1,719.25
February	10,691.91	2,762.08	6,789.32	4,980.37	1,755.05	1,630.42
March	34,189.98	2,199.45	5,855.45	4,726.44	1,978.14	2,234.36
April	5,551.80	1,923.18	2,429.73	3,715.69	1,523.69	1,910.23
May	615.08	2,799.84	2,515.49	6,175.58	1,611.68	2,032.98
June	6,641.31	6,000.05	4,061.63	6,754.75	2,023.74	1,927.26
July	3,135.08	3,767.12	4,841.66	7,501.67	1,868.92	1,771.56
August	2,407.27	6,579.12	4,035.77	8,807.13	2,007.31	1,724.87
September	1,566.17	7,092.96	4,187.19	8,748.29	1,926.34	1,676.12
October	980.45	5,136.81	5,129.90	7,006.54	1,571.80	1,693.87
November	3,568.41	449.48	4,424.68	6,610.17	1,747.53	1,850.87
December	5,164.48	2,383.00	5,400.77	6,178.11	1,861.21	1,694.23
Grand Total	123,013.80	42,150.53	56,958.96	76,012.50	21,707.76	21,866.03

4.8 MARKET SHARE FOR WHITE PETROLEUM PRODUCTS⁶

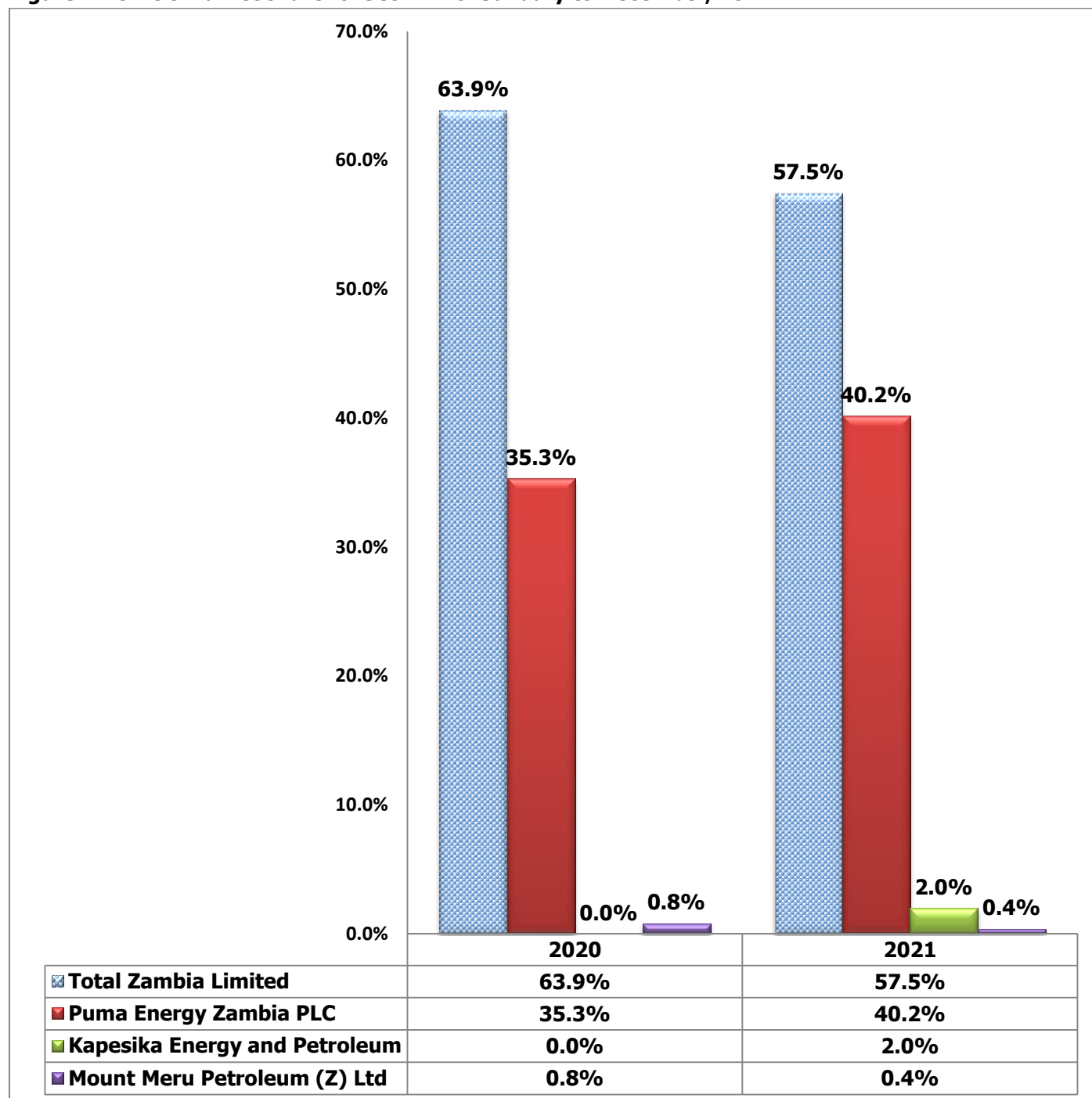
Figure 3 : OMC's Market share for white petroleum products for January to December, 2021



⁶ White products refers to Unleaded Petrol, Diesel (Including Low Sulphur gasoil) and Kerosene

4.9 MARKET SHARE FOR JET A-1

Figure 4 : OMC's Market share for Jet A-1 for January to December, 2021



4.10 REGIONAL FUEL PRICES COMPARISON

4.10.1 REGIONAL DIESEL AND PETROL PRICES COMPARISON

Figure 5 : Regional Comparison of Prices for Diesel and Petrol as at 31st December 2021

