

# Index of Electricity Generation

## 4<sup>th</sup> Quarter 2023



# INDEX OF ELECTRICITY GENERATION

4<sup>th</sup> QUARTER 2023

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## Table of Contents

.....	ii
1. Introduction.....	1
2. Index of Electricity Generation.....	1
3. Electricity imported.....	3
4. Electricity Exported.....	2
5. Electricity Distributed.....	4
6. Appendices.....	7

## List of Figures

Figure 1.1: Index of Electricity Generation, 2 <sup>nd</sup> Quarter 2019 to 4 <sup>th</sup> Quarter 2023.....	1
Figure 1.2: Volume of electricity generated by power producer, 4 <sup>th</sup> Quarter 2023.....	3
Figure 1.4: Share of electricity imported by source, 4 <sup>th</sup> Quarter 2023.....	2
Figure 1.5: Volume of electricity exported, 2 <sup>nd</sup> 2019 to 4 <sup>th</sup> 2023.....	7
Figure 1.6: Volume of electricity exported in 4 <sup>rd</sup> Quarter 2023.....	7
Figure 1.7: Volume of electricity distributed, 2019 to 4 <sup>th</sup> Quarter 2023.....	4
Figure 1.8: Volume of electricity distributed to user, 4 <sup>th</sup> Quarter 2023.....	8

## List of Appendices

<b>Appendix A: Volume of Electricity Generation in GWh, 2019 to 4<sup>th</sup> 2023.....</b>	<b>7</b>
<b>Appendix B: Index of Electricity Generation, 2019 to 2023 (2019=100).....</b>	<b>7</b>
<b>Appendix C: Year-on-Year Percentage change in Index of Electricity Generation, 2019 to 4<sup>th</sup> 2023.....</b>	<b>8</b>
<b>Appendix D: Quarter-on-Quarter Percentage Change in Index of Electricity Generation, 2019 to 4<sup>th</sup> 2023.....</b>	<b>8</b>

## 1. Introduction

This publication presents the Index of Electricity Generation (IEG) covering the period 1<sup>st</sup> quarter 2019 to 4<sup>th</sup> quarter 2023. Index of Electricity Generation is an economic indicator that shows relative changes in the volume of electricity generated in the country over time, in relation to a given reference period.

Construction of the IEG is based on administrative data obtained from the

Zimbabwe Electricity Supply Authority (ZESA).

The Laspeyres index was used to compile the indices using 2019 as the base year. The index calculation is in line with the United Nations International Recommendations for the Index of Industrial Production (IRIIP), 2010.

## 2. Index of Electricity Generation

The Index of Electricity Generation for 4<sup>th</sup> quarter 2023 was **88.1**, reflecting a quarter-on-quarter percentage decrease of **12.9** from **101.2** in 3<sup>rd</sup> quarter 2023. (Figure 1.1). The 4<sup>th</sup> quarter index of 88.1

increased by **23.7** year-on-year when compared to **71.2** recorded in 4<sup>th</sup> quarter 2022.

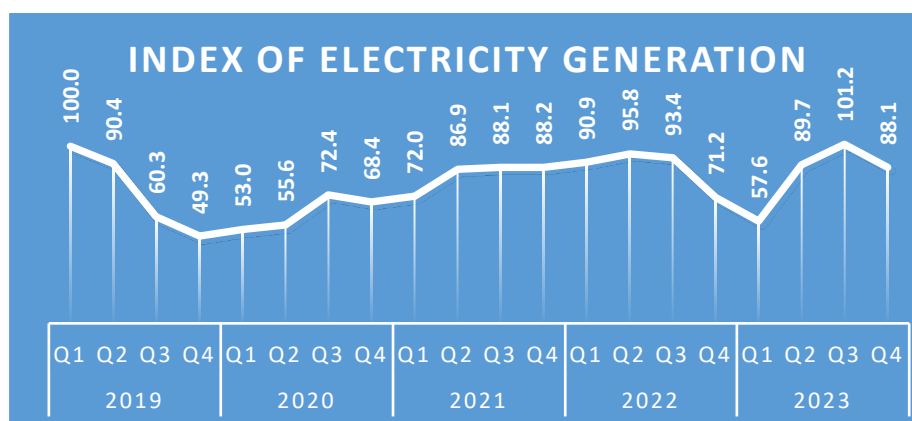


Figure 1.1: Index of Electricity Generation, 2<sup>nd</sup> Quarter 2019 to 4<sup>th</sup> Quarter 2023

Hwange generated **1447.9GWh**, representing 65.1 percent of the total

electricity generated during the fourth quarter 2023. This was followed by Kariba

Power Station which generated a total of **682.6GWh** of electricity constituting 30.7 percent of the total electricity generated

during the quarter. Independent Power Producers (IPPs) generated 4.2 percent of the total electricity generated. (Figure 1.2)

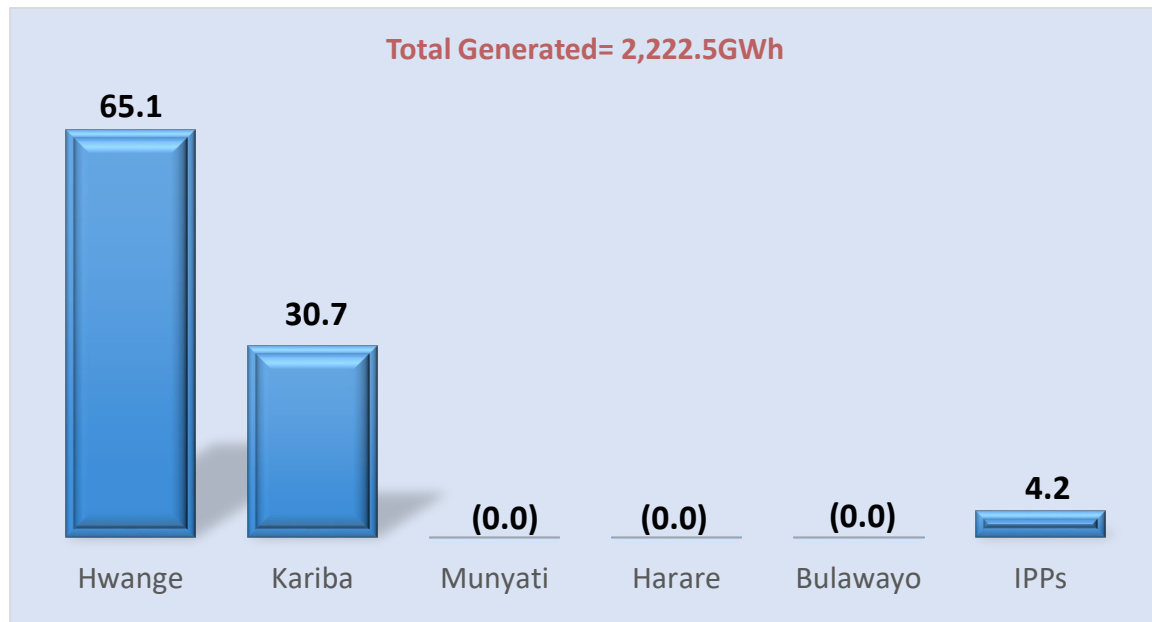
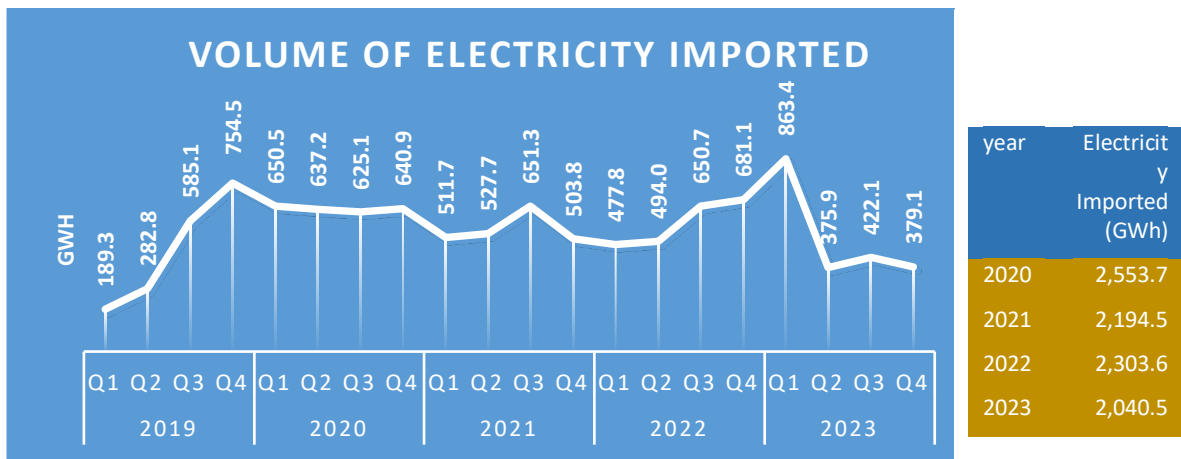


Figure 1.2: Volume of electricity generated by power producer, 4<sup>th</sup> Quarter 2023

### 3. Electricity imported

A total of **379.1GWh** of electricity was imported in 4<sup>th</sup> quarter 2023, reflecting a **10.2** percent decrease on a quarter on quarter basis from **422.1GWh** imported in 3<sup>rd</sup> quarter 2023. In total, **2040.5 GWh** of electricity was imported in 2023. (Figure 1.3).

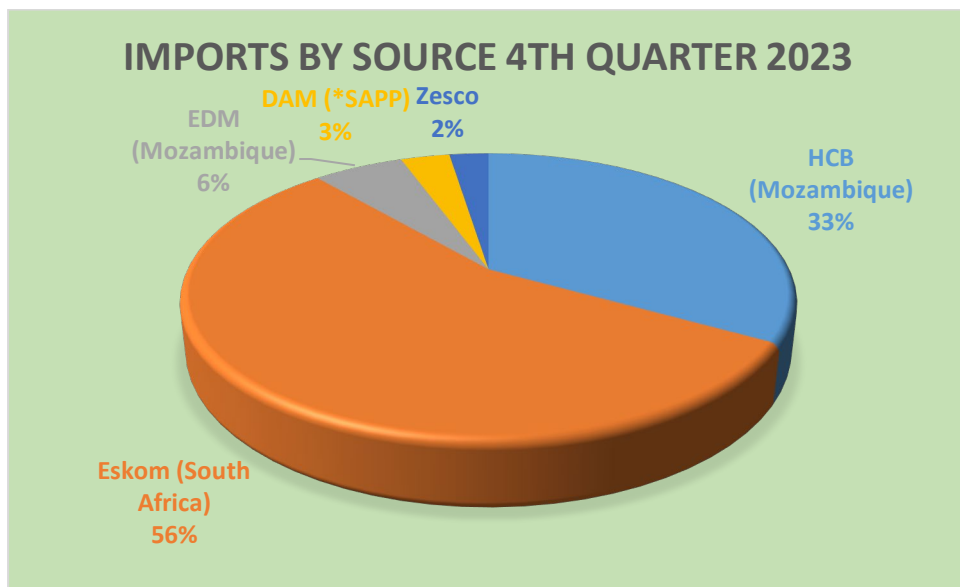
In total, there was an 11.4 percent decline in the volume of electricity imported during 2023 (**2,040.5GWh**) than in 2022 (**2,303.6GWh**).



**Figure 1.3 Volume of Electricity Imported**

Figure 1.4 shows the share of electricity imported by source during 4<sup>th</sup> quarter 2023. About 56.0 percent of the imported electricity was obtained from

Eskom (South Africa), HCB (Mozambique) 33.0 percent, ZESCO (Zambia) 2.0 percent, EDM (Mozambique) 6 percent and DAM (Southern Africa Power Pool) 3 percent.



**Figure 1.3: Share of electricity imported by source, 4<sup>th</sup> Quarter 2023**

## 4. Electricity Exported

The volume of electricity exported in 4<sup>th</sup> quarter 2023 was **113.7GWh**, a 4 percent increase from **109.3GWh** exported in 3<sup>rd</sup> quarter 2023 (Figure 1.5). In total, the

volume of electricity exported in 2023 (**339.6GWh**) was 14.0 percent less than exported in 2022 (**395.1GWh**).

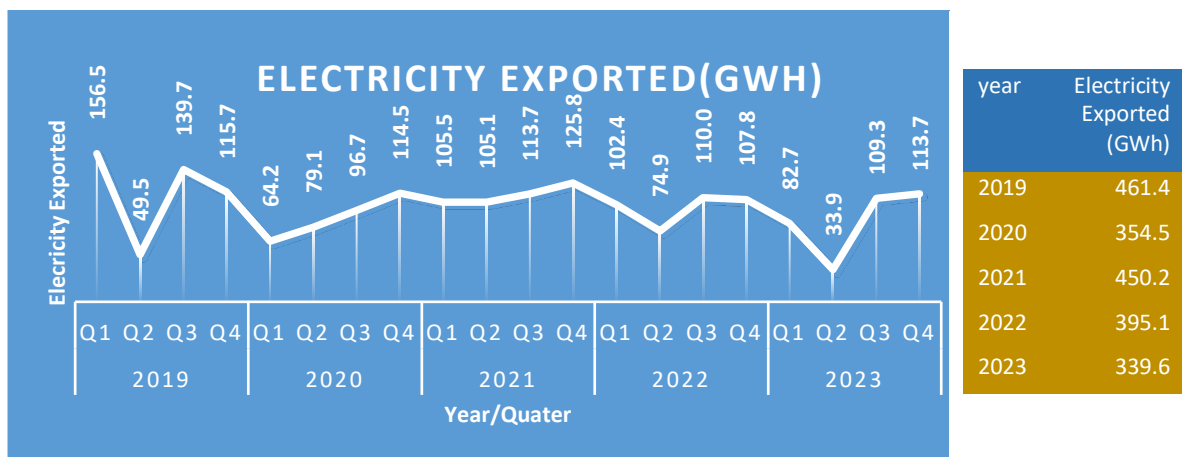


Figure 1.4: Volume of electricity exported, 2<sup>nd</sup> 2019 to 4<sup>th</sup> 2023

Of the **113.7 GWh** of electricity exported during 4<sup>th</sup> quarter 2023, NamPower of

Namibia received (**104.5GWh**) 91.8 percent (Figure 1.6)

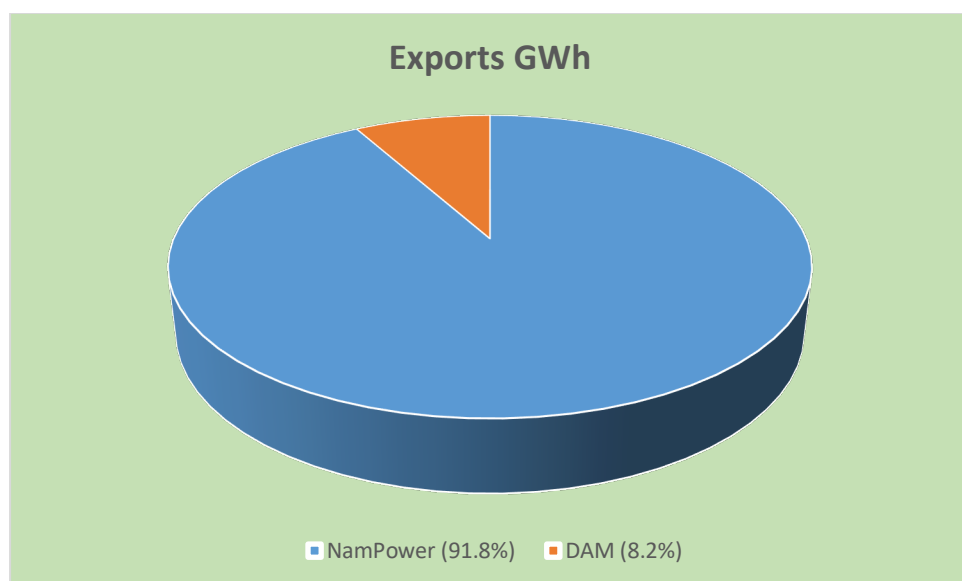


Figure 1.5: Volume of electricity exported in 4<sup>rd</sup> Quarter 2023

## 5. Electricity Distributed

The total volume of electricity distributed in 4<sup>th</sup> quarter 2023 was **2192.2GWh**, reflecting a 5.4 percent decrease from **2316.5GWh** distributed in 3<sup>rd</sup>

quarter 2023 (Figure 1.7). During 2023, the volume of electricity distributed (**8,549.8GWh**), was 7.4 percent less than the distributed in 2022 (**9,229.5GWh**).

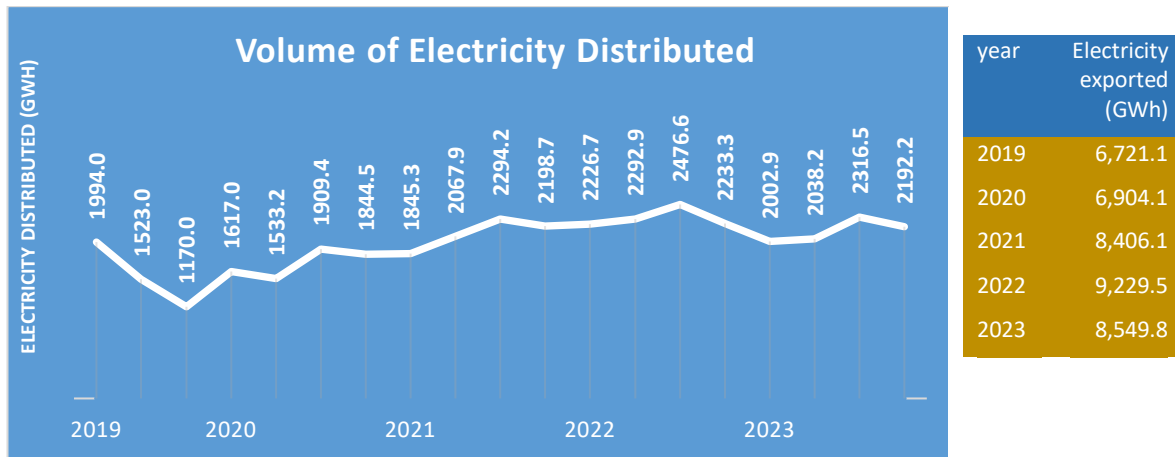


Figure 1.6: Volume of electricity distributed, 2019 to 4<sup>th</sup> Quarter 2023

Of the distributed electricity, users in manufacturing, transport and construction sectors consumed **732.2GWh** (33.4%), Mining and Quarrying used **352.4GWh** (16.1%),

Domestic Consumers used **504.1GWh** (23.0%), Others used **474.5GWh** (21.6%) and Agriculture and Forestry sector used **129.0GWh** (5.9%) (Figure 1.8)



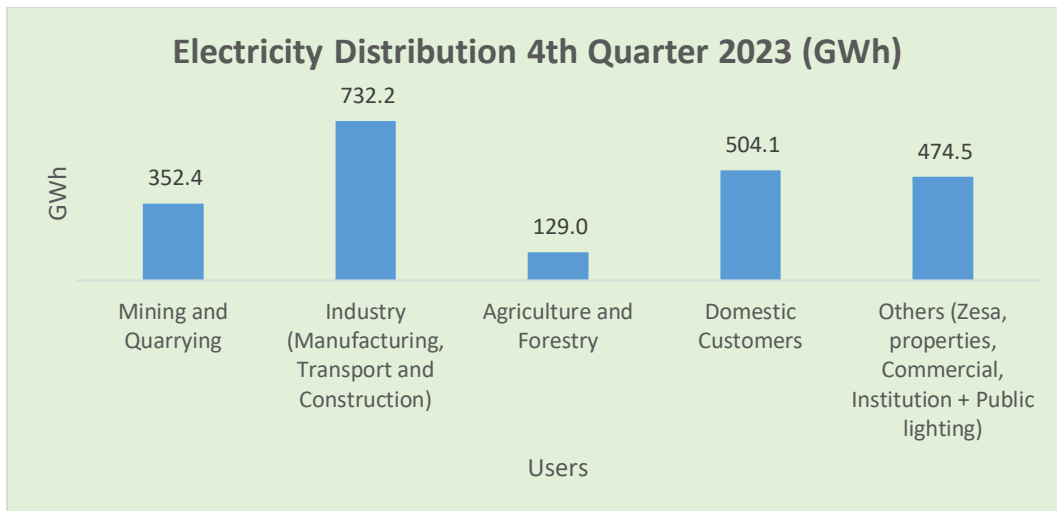


Figure 1.7: Volume of electricity distributed to user, 4<sup>th</sup> Quarter 2023

Sector	Volume (GWh)	Percent (%)
Industry (Manufacturing, Transport and Construction)	2,552.5	29.9
Domestic Consumers	2,107.6	24.7
Mining and Quarrying	1,592.9	18.6
Agriculture and Forestry	481.1	5.6
Others	1,815.7	21.2
<b>Total</b>	<b>8,549.8</b>	<b>100</b>

Table 1: Volume of electricity distributed to user in 2023

## 6. Appendices

### Appendix A: Volume of Electricity Generation in GWh, 2019 to 4<sup>th</sup> 2023

	2019	2020	2021	2022	2023
<b>January</b>	840.6	411.6	593.4	705.5	471.1
<b>February</b>	814.2	446.4	569.0	733.5	426.2
<b>March</b>	839.4	478.9	652.6	827.8	512.7
<b>April</b>	808.8	411.8	697.9	737.0	549.8
<b>May</b>	762.9	475.2	748.4	836.7	644.7
<b>June</b>	708.9	516.3	746.0	843.1	602.4
<b>July</b>	628.7	607.4	770.4	853.7	789.5
<b>August</b>	469.0	591.0	728.5	783.4	1046.2
<b>September</b>	423.8	628.2	723.1	717.6	715.2
<b>October</b>	440.2	601.2	755.7	728.3	814.9
<b>November</b>	373.6	575.7	719.5	617.1	704.2
<b>December</b>	429.9	548.8	748.0	451.6	703.4
<b>Q1</b>	2,494.2	1,337.0	1,815.0	2,267.1	1452.1
<b>Q2</b>	2,280.5	1,403.2	2,192.4	2,416.8	2,261.7
<b>Q3</b>	1,521.6	1,826.6	2,222.0	2,354.8	2,550.9
<b>Q4</b>	1,243.7	1,725.7	2,223.2	1,797.0	2,222.5

### Appendix B: Index of Electricity Generation, 2019 to 2023 (2019=100)

	2019	2020	2021	2022	2023
<b>Q1</b>	100.0	53.0	72.0	90.9	57.6
<b>Q2</b>	90.4	55.6	86.9	95.8	89.6
<b>Q3</b>	60.3	72.4	88.1	93.4	101.1
<b>Q4</b>	49.3	68.4	88.2	71.2	88.1

**Appendix C: Year-on-Year Percentage change in Index of Electricity Generation, 2019 to 4<sup>th</sup> 2023**

	2019	2020	2021	2022	2023
<b>Q1</b>	-	-46.4	35.8	26.3	(36.6)
<b>Q2</b>	-	-38.5	56.2	10.2	(6.5)
<b>Q3</b>	-	20.0	21.6	6.0	8.2
<b>Q4</b>	-	38.8	28.8	(19.2)	23.7

**Appendix D: Quarter-on-Quarter Percentage Change in Index of Electricity Generation, 2019 to 4<sup>th</sup> 2023**

	2019	2020	2021	2022	2023
<b>Q1</b>	-	7.5	5.2	3.1	(19.1)
<b>Q2</b>	(8.6)	5.0	20.8	5.4	55.6
<b>Q3</b>	(33.3)	30.2	1.4	(2.5)	12.8
<b>Q4</b>	(18.3)	(5.5)	0.1	(23.8)	(12.9)