



# World Energy Consumption

**Presented by Group 5**

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# OUTLINE



Executive Summary



Introduction



Methodology



Results



Discussion



Conclusion



Appendix

# EXECUTIVE SUMMARY

- ▶ The energy world remains fragile but has effective ways to improve energy security and tackle emissions
- ▶ Some of the immediate pressures from the global energy crisis have eased, but energy markets, geopolitics, and the global economy are unsettled and the risk of further disruption is ever present.
- ▶ Against this complex backdrop, the emergence of a new clean energy economy, led by solar PV and electric vehicles (EVs), provides hope for the way forward

# INTRODUCTION

The *World Energy Outlook 2023* provides in-depth analysis and strategic insights into every aspect of the global energy system. Against a backdrop of geopolitical tensions and fragile energy markets, this year's report explores how structural shifts in economies and in energy use are shifting the way that the world meets rising demand for energy.

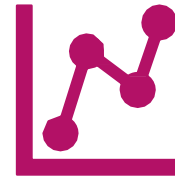
# METHODOLOGY



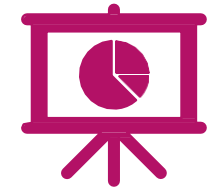
Data in several formats, such as energy consumption depending on regional insights for different countries and for different places, were gathered from Kaggle dataset.



To obtain the world energy consumption from 2019 to 2023 we use data such as country and years and we use seaborn to create pie charts

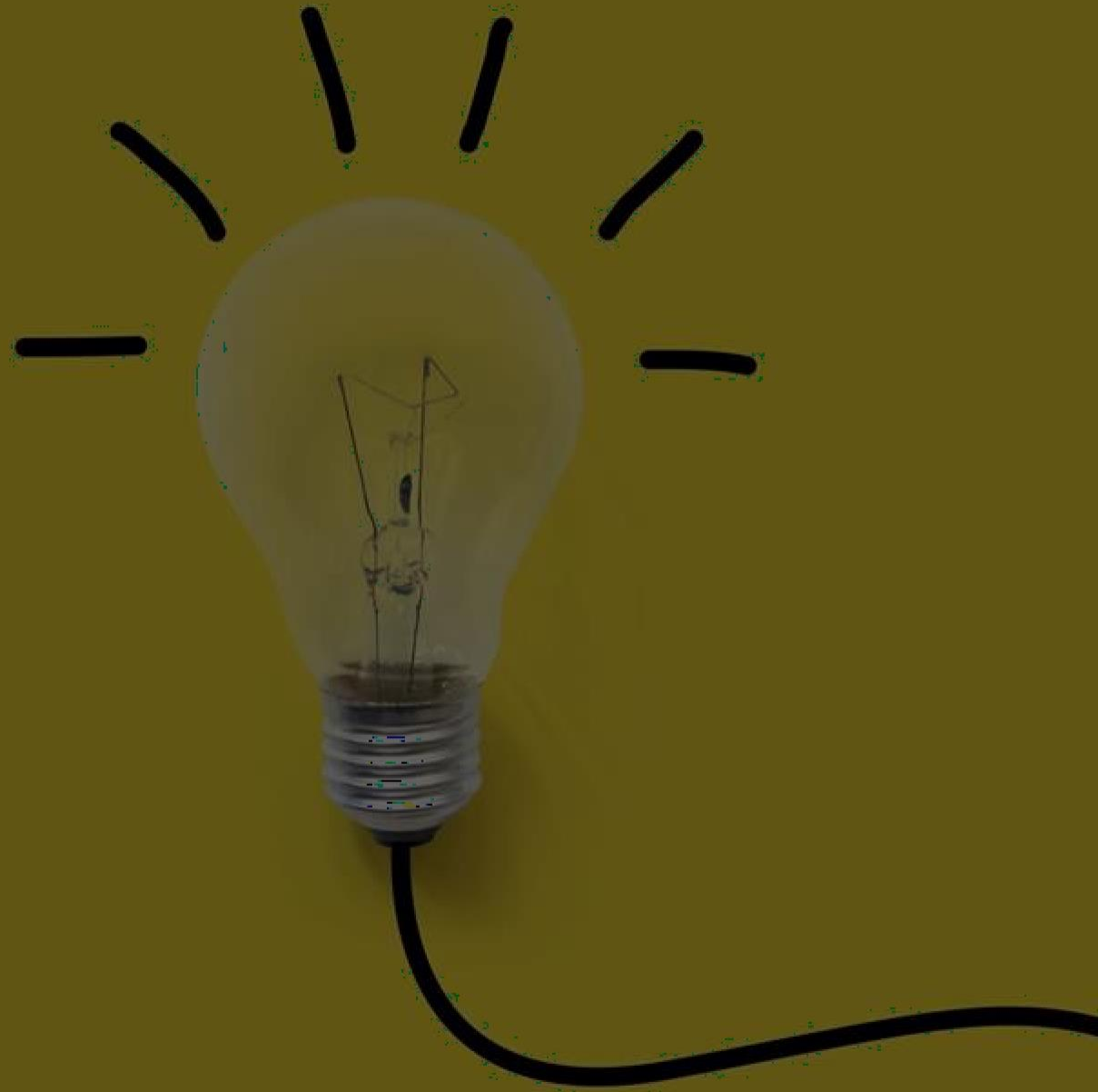


Python was used to clean and analyze the data. To assess the distribution of data, the presence of outliers, and the correlation between various columns in the dataset, an exploratory data analysis was carried out.

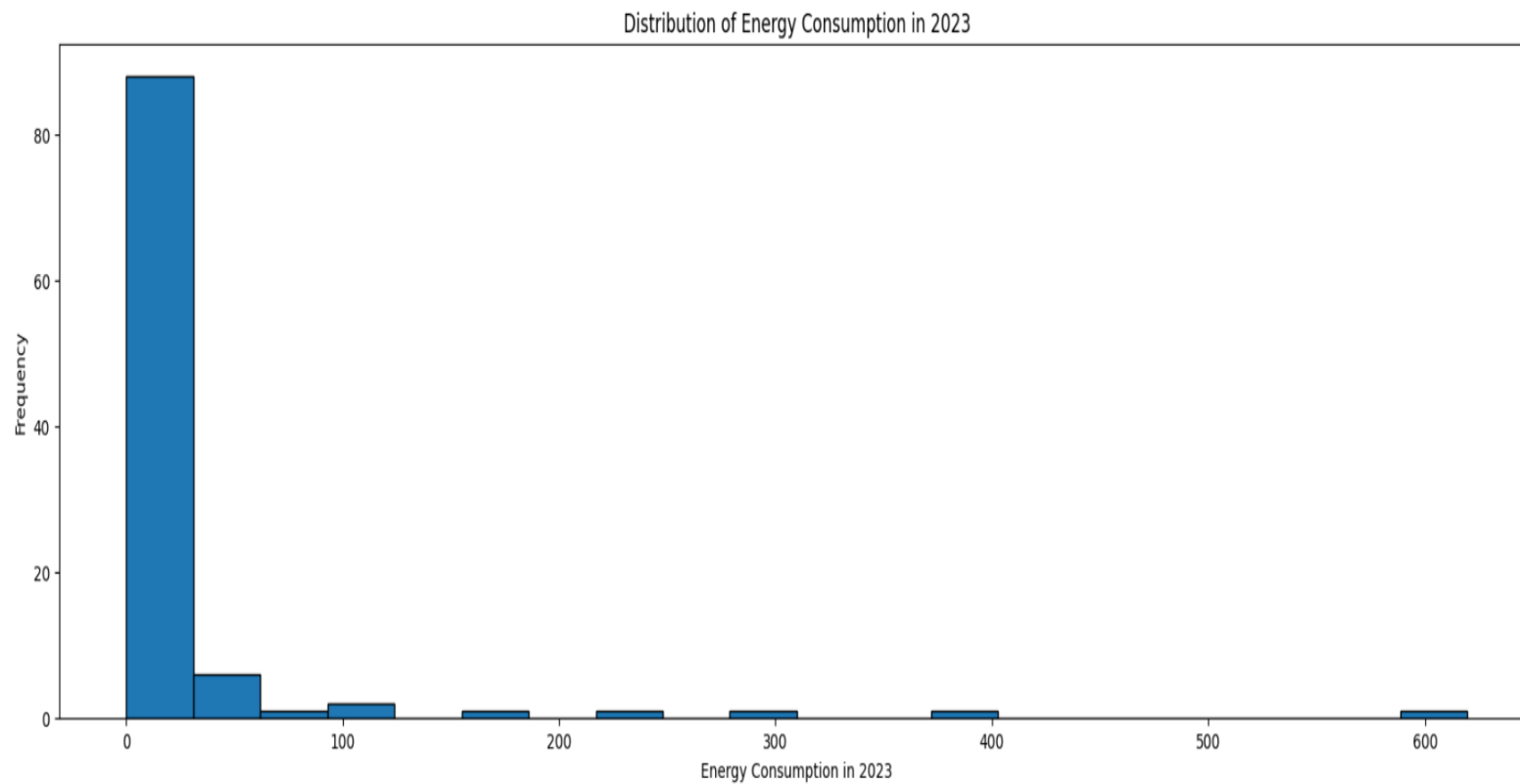


Charts, graphs, and dashboards were created using Python and Cognos analytics to visualize the data. All the python analyses were carried out on Jupyter notebook through visual studio.

# Results

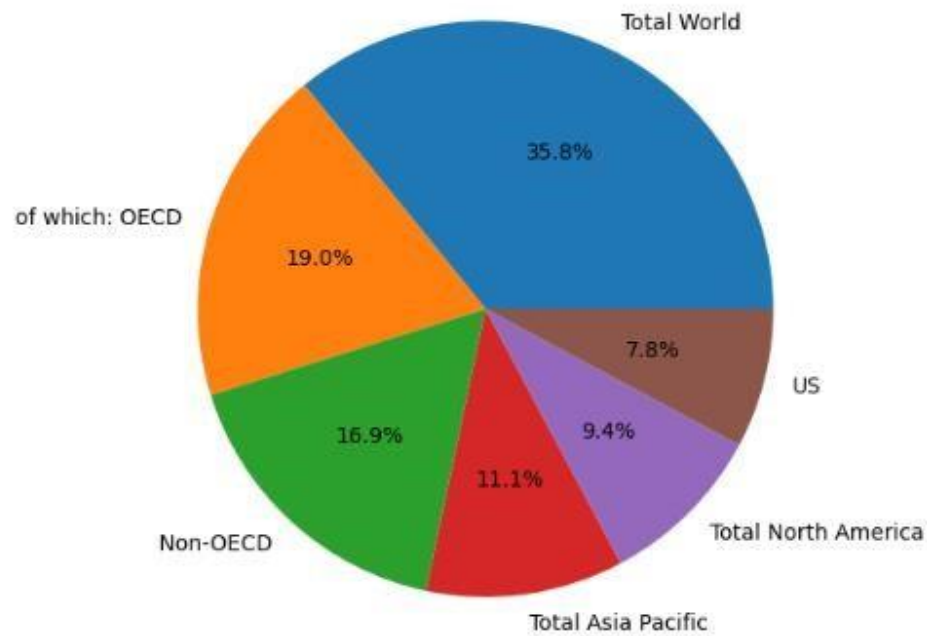


# World Energy Consumption

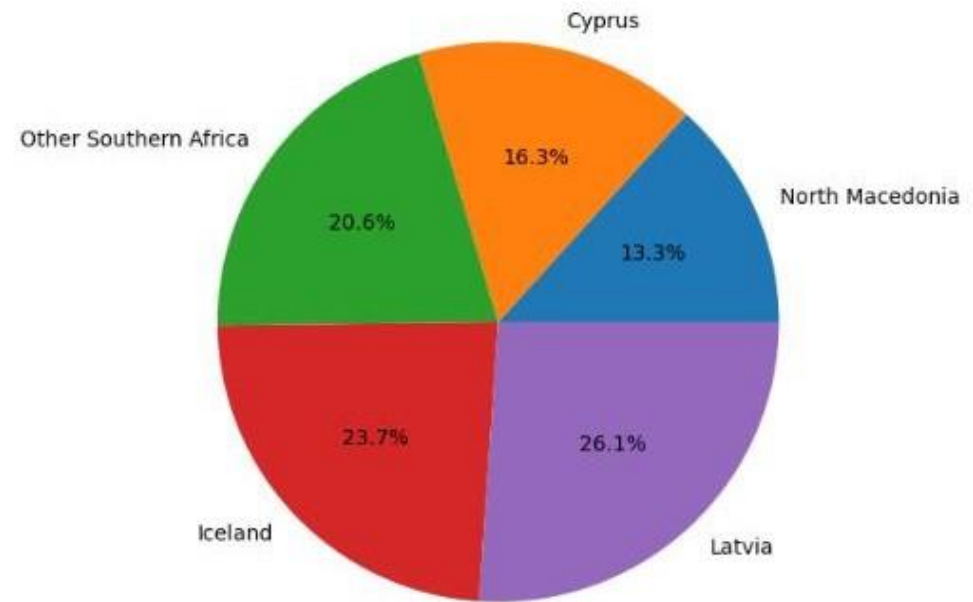


# Average Energy Consumption

Top 6 by Average Energy Consumption



Bottom 5 Countries by Average Energy Consumption



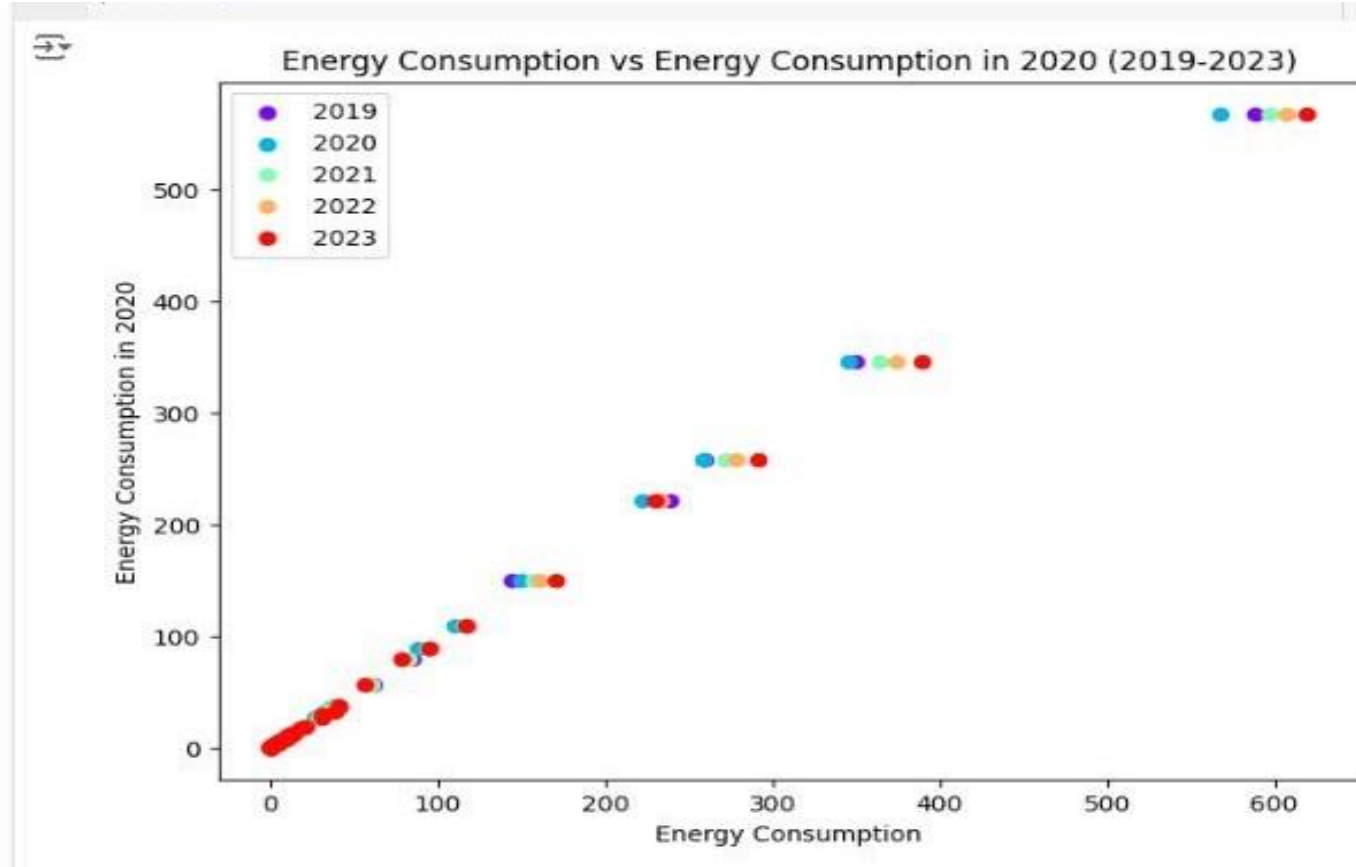


# CONCLUSION

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Increasing Global Energy Demand

Regional Disparities in Energy Use



# APPENDIX