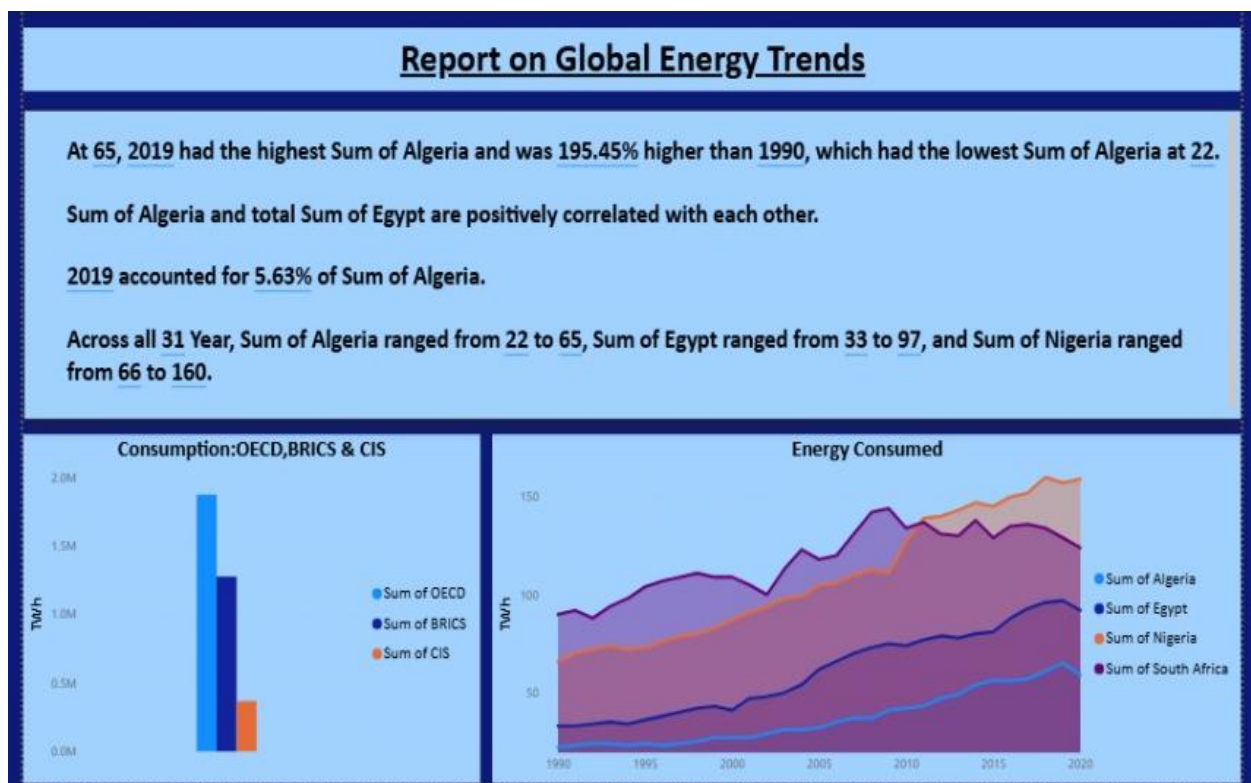


Report

Date	6 October 2025
Team ID	SWUID20250207636
Project Name	Global Energy Trends: A Comprehensive Analysis of Key Regions and Generation Modes using Power BI
Maximum Marks	5 Marks

A report is a comprehensive document that provides a detailed and structured account of data analysis, findings, and insights. It is typically used for in-depth analysis, documentation, and communication of results. Reports are suitable for a diverse audience, including decision-makers, analysts, and stakeholders who need a comprehensive understanding of the data.

Designing a report in Power BI involves connecting to data sources, creating visualizations like charts and graphs, customizing their appearance and interactivity, organizing them logically on the canvas, formatting elements for consistency and clarity, and optionally creating dashboards for a summarized view. Throughout the process, it's essential to consider the audience's needs and ensure the report effectively communicates insights from the data. Finally, iterate based on feedback to continually improve the report's design and usefulness.



Observations drawn from reports in Power BI can provide valuable insights into business performance and trends.

1. **Algeria's Growth Rate:** Algeria's consumption in 2019, at **65 TWh**, was **195.45% higher** than its lowest consumption of **22 TWh** recorded in 1990.
2. **Algeria** consumption ranged from **22 to 65 TWh**.
3. **Egypt** consumption ranged from **33 to 97 TWh**.
4. **Nigeria** consumption ranged from **66 to 160 TWh**.
5. **Highest African Consumer: Nigeria** consistently shows the highest TWh consumption among the four African countries throughout the period, reaching a peak of **160 TWh**.
6. **Bloc Dominance (OECD):** The **OECD** bloc has the highest aggregated energy consumption, topping the bar chart with a value visually above **1.5M TWh**.
7. **Bloc Ranking:** The **BRICS** bloc has the second-highest consumption, visually around **1.2M TWh**, significantly surpassing the **CIS** bloc (visually around 0.5M TWh).
8. **Correlation:** The text explicitly states that the **Sum of Algeria and total Sum of Egypt are positively correlated** with each other.
9. **Contribution Share:** The year **2019** accounted for **5.63% of the Sum of Algeria**.
10. **African Trend:** The area chart confirms that all four featured African countries (**Algeria, Egypt, Nigeria, and South Africa**) display a general **upward trend** in energy consumption (TWh) from 1990 to 2020.