

Business Question and Visualization Report

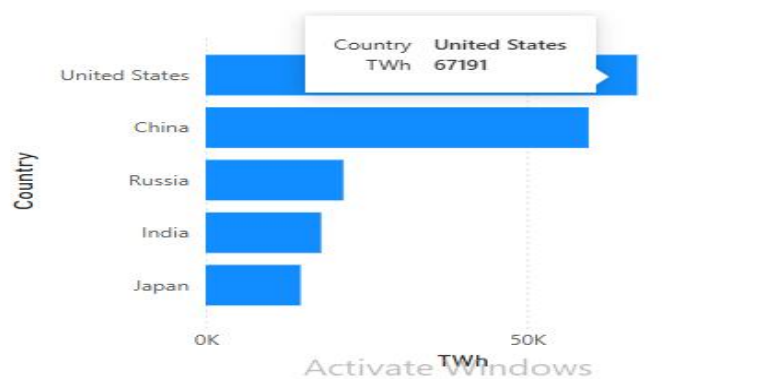
Date	3 October 2025
Team ID	SWUID20250207636
Project Name	Global Energy Trends: A Comprehensive Analysis of Key Regions and Generation Modes using Power BI
Maximum Marks	5 Marks

Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. The goal is to transform complex datasets into visual formats that are easy to interpret, enabling users to gain insights and make informed decisions. Visualization development involves selecting appropriate visual elements, designing layouts, and using interactive features to enhance the user experience. This process is commonly associated with data visualization tools and platforms, and it plays a crucial role in business intelligence, analytics, and reporting.

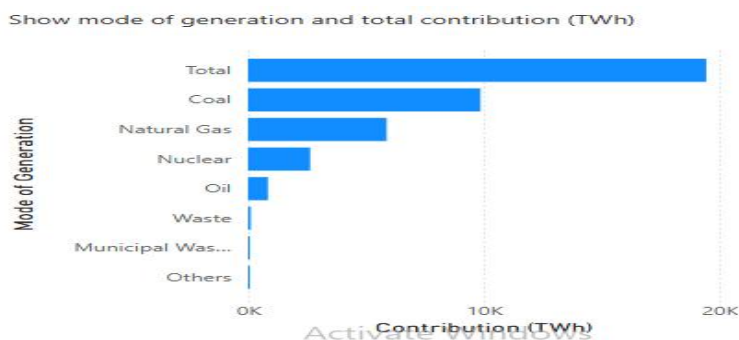
Business Questions and Visualisation

The process involves defining specific business questions to guide the creation of meaningful and actionable visualizations in Power BI. Well-framed questions help in identifying key metrics, selecting relevant data, and building visualisation that provide insights.

1. Show the top 5 countries by Hydro TWh.



2. What is the total Contribution (TWh) by Mode of Generation for non-renewables?



3. What is the sum of top 20 countries power generation geothermal (TWh).

53.34

Geothermal (TWh)

4. What is the Total Sum of TWh contributed by all listed energy sources?

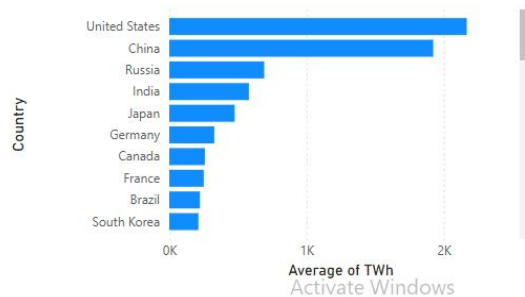
What is the Total Sum of TWh contributed by all listed energy sources

308222

TWh

5. What are the exact average TWh consumption figures reported for the sampled countries.

what are the exact average TWh consumption figures reported for the sampled countries



6. What is the sum OECD consumption?

what is the sum OECD consumption?

18,72,290.44

OECD

7. What is the sum of energy consumption of nigeria in 2015?

what is the sum of energy consumption of nigeria in 2015?

145

Nigeria

8. What is the sum of energy consumption of nigeria in 1995?

what is the sum of energy consumption of nigeria in 1995?

73

Nigeria