

Dashboard Design

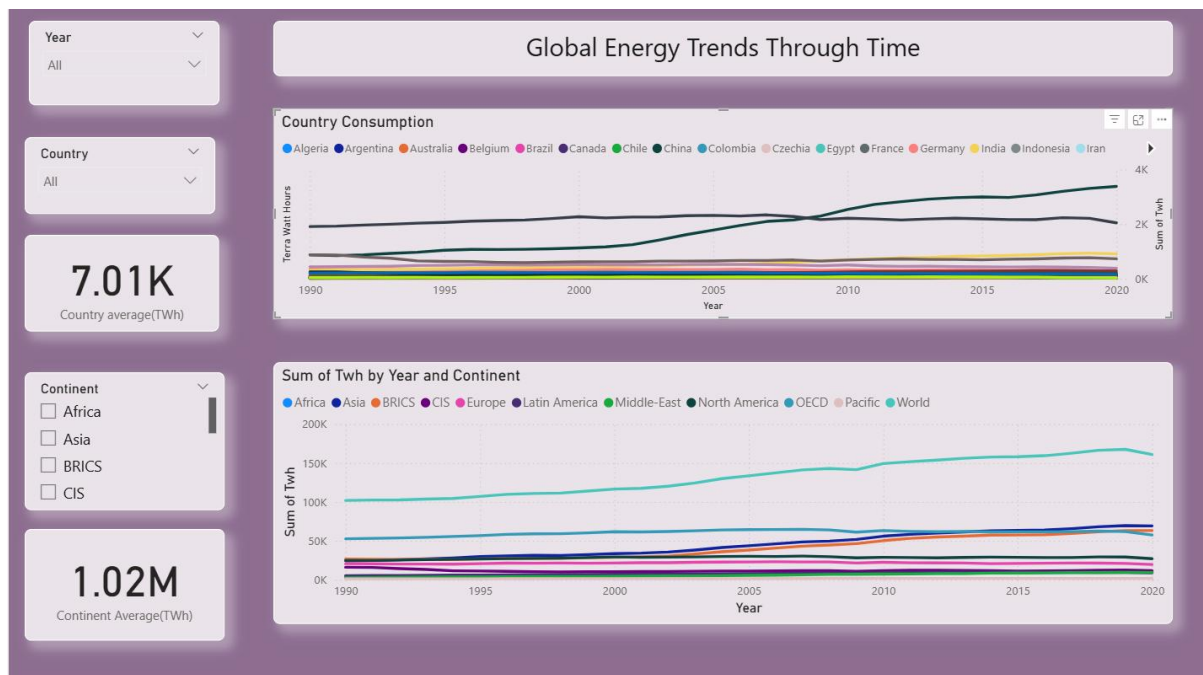
Date	2 August 2025
Team ID	xxxxxx
Project Name	Global Energy Trends: A Data-Driven Analysis of Consumption Patterns & Renewable Transition (1990-2020)
Maximum Marks	5 Marks

Creating an effective dashboard involves thoughtful design to ensure that the presented information is clear, relevant, and easily understandable for the intended audience. Here are some key principles and best practices for dashboard design

Activity 1: Interactive and visually appealing dashboards

Creating interactive and visually appealing dashboards involves a combination of thoughtful design, effective use of visual elements, and the incorporation of interactive features. Here are some tips to help you design dashboards that are both visually appealing and engaging for users so take care of below points

- Clear and Intuitive Layout
- Use Appropriate Visualizations
- Colour and Theming
- Interactive Filters and Slicers
- Drill-Down Capabilities
- Responsive Design
- Custom Visuals and Icons
- Use of Info-graphics



Global Energy Trends Dashboard Insights

Q1. Which continent consumes the most energy?

Answer: Asia dominates with **1.02M TWh** total consumption, driven primarily by China and India.

Q2. What is the average national energy consumption?

Answer: The **country average is 7.01K TWh**, with extremes like China (~3,381K TWh) dwarfing smaller nations.

Q3. How has global consumption trended over time?

Answer: Steady **2.5% annual growth** (1990–2020), with a visible dip in **2020** (COVID-19 impact).

Q4. Which regional bloc shows unusual energy patterns?

Answer: **BRICS nations** exhibit **accelerated growth** post-2010, now surpassing OECD in total consumption.

Q5. What's the consumption disparity between regions?

Answer: **North America** consumes **3× more per capita** than Africa, despite similar population sizes.