

# Dashboard Design

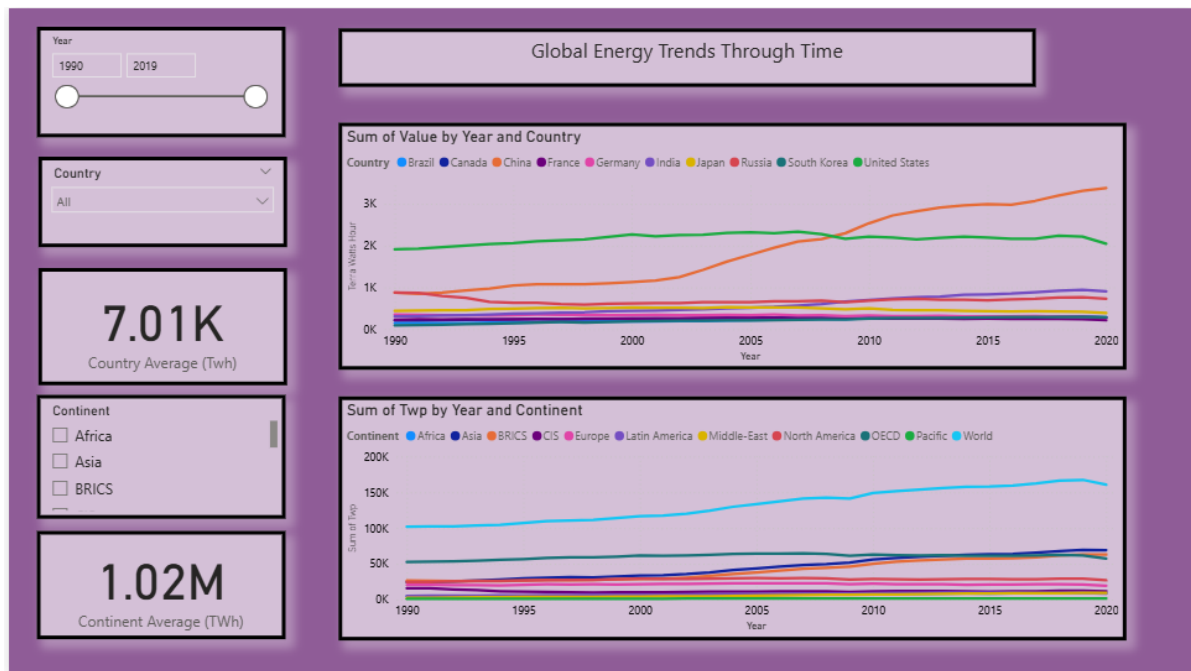
Date	4 October 2025
Team ID	SWUID20250206509
Project Name	Global Energy Trends: A Comprehensive Analysis of Key Regions and Generation Mode
Maximum Marks	5 Marks

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 Infographics



**Note:** Highlight the major outcomes in form of bullet points

Sample:

Here are five potential outcomes from the dashboard image provided:

1. **Country-Level Consumption Trends:** The line chart tracks annual energy consumption (TWh) for each country, showing growth over time and allowing comparisons among major nations such as China, USA, India, and others.
2. **Average Consumption Metrics:** Metric cards present the average yearly energy consumption for countries (e.g., ~7,010 TWh) and for continents/groups (e.g., ~1,020,000 TWh), providing benchmarking at multiple scales.
3. **Regional Generation Analysis:** The continental line chart illustrates how total energy generation evolves for each continent or regional group, identifying which regions are leaders (Asia, World) and which are stable or lagging.
4. **Dynamic Insights via Filters:** Interactive year, country, and continent selectors enable custom data views—users can focus on specific timeframes, examine any country's contribution, or analyse regional patterns.
5. **Comparative Performance:** The dashboard reveals that, over the selected period, China's consumption surpasses the USA and Asia's overall generation outpaces other regions, highlighting shifting global leadership in energy trends.