**Tableau Visualizations for CO2 Emissions Project**

**Charts to Create**

1. Global map with countries colored by cluster
2. Parallel coordinates plot showing cluster characteristics
3. Bar charts comparing key metrics across clusters
4. Ternary plot showing energy mix distribution
5. Scatter plot of historical vs. current emissions
6. Time series of US emissions compared to cluster trends
7. Bar charts comparing US to cluster averages
8. Heat map or matrix for policy recommendations

**Dashboards to Create**

1. Introduction Dashboard: Global Cluster Map
2. Cluster Profiles Dashboard: What Defines These Clusters
3. Energy Sources Dashboard: The Role of Energy Mix
4. Emissions Responsibility Dashboard: Historical vs. Current
5. US Analysis Dashboard: The Exceptional Case
6. Policy Implications Dashboard: Differentiated Approaches

**Story Structure**

1. Start by showing how countries naturally group into distinct clusters
2. Reveal the characteristics that define each cluster
3. Demonstrate how energy choices shape these groupings
4. Explore the tension between historical and current emissions
5. Highlight the United States as a unique outlier
6. Conclude with implications for differentiated climate policies

**Charts to Create:**

1. Global Cluster Map (Map)
2. Cluster Characteristics Heatmap (Heatmap)
3. Energy Source Mix (Stacked Bar Chart)
4. USA Compared to Cluster Averages (Bar Charts)
5. Policy Implications (Table)

**Dashboards to Create:**

1. Dashboard 1: Global Emissions Overview (Map, Heatmap, Stacked Bar Chart)
2. Dashboard 2: The Exceptional Case: USA (Bar Charts)
3. Dashboard 3: Policy Implications (Table)

**Storyboard Parts/Key Points:**

1. **Dashboard 1: Global Emissions Overview**
   * **Introduction:** Show the global distribution of emissions clusters.
   * **Cluster Characteristics:** Highlight the key differences in emissions profiles across clusters.
   * **Energy Source Mix:** Visualize how energy source dependencies vary across clusters.
2. **Dashboard 2: The Exceptional Case: USA**
   * **USA: Comparative Analysis:** Emphasize how the USA is an outlier.
3. **Dashboard 3: Policy Implications**
   * **Policy Implications:** Translate findings into actionable policy insights.