Problem Statement – Global Energy Trends

- **Introduction:**

  - The global demand for energy continues to grow with rapid urbanization, population increase, and industrialization. At the same time, the threat of climate change and environmental degradation necessitates a shift from conventional non-renewable energy sources to cleaner alternatives.

- **Problem Overview:**

  - Currently, energy data is scattered and difficult to interpret without visualization. Governments, researchers, and industries need consolidated, analytical dashboards to track energy production trends and consumption patterns worldwide. Unfortunately, these insights are not easily accessible in a user-friendly manner.

- **Core Challenges Identified:**

  - How do different countries consume and produce energy?
  - What share of their production is renewable versus non-renewable?
  - Which countries are transitioning to cleaner sources faster?
  - How have emissions and energy efficiency changed over time?

- **Why This Project Matters:**

  - Understanding these patterns is essential to meeting global climate targets such as the Paris Agreement and SDG 7 (Affordable and Clean Energy). This Power BI dashboard provides an intuitive, visual way to extract meaningful insights from large datasets and guide energy policy and strategy.