

Week 8: Solving an SDG Problem with Data

SDG Problem Definition

SDG Selection:

- **SDG 7: Affordable and Clean Energy**

Problem Definition:

In the context of **SDG 7: Affordable and Clean Energy**, a pressing issue is the uneven distribution of energy consumption across different regions. High energy consumption not only strains resources but also impacts the environment due to increased greenhouse gas emissions. The problem at hand is to analyze energy consumption patterns across various regions to identify areas with disproportionately high energy usage. By doing so, stakeholders can pinpoint regions that are more reliant on energy-intensive practices and implement targeted interventions to improve energy efficiency. This is crucial for managing energy resources sustainably and for promoting cleaner energy solutions in areas where energy consumption is excessive.

Furthermore, understanding regional variations in energy consumption can provide valuable insights into the effectiveness of existing energy policies and programs. For instance, regions with unexpectedly high energy consumption might benefit from tailored educational campaigns on energy-saving practices or incentives for adopting energy-efficient technologies. On the other hand, regions with lower consumption may reveal successful strategies that could be replicated elsewhere. This data-driven approach helps in making informed decisions to enhance overall energy efficiency and contribute to the global goal of achieving affordable and clean energy for all.