

Data Collection and Preprocessing Phase

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Project Title	Global Energy Trends: A Comprehensive Analysis of Key Regions and Generation Modes
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

Data Collection Plan

Section	Description
Project Overview	This project analyses historical global energy generation and consumption (TWh) across continents and countries, with emphasis on renewable vs non-renewable sources. The goal is an interactive Power BI dashboard that supports analysis by year, region, country and source.
Data Collection Plan	Data will be collected from the supplied CSV files and any additional open sources if required. For the current project we used the uploaded CSVs located in the project Data/ folder.
Raw Data Sources Identified	The project uses multiple CSV datasets covering global energy consumption and power generation across continents, countries and energy sources. These datasets include renewable and non-renewable energy data measured in terawatt-hours, enabling trend, regional and country level analysis.

Raw Data Sources

Source Name	Description	URL	Format	Size	Access Permissions
Continent_Consumption_TWH.csv	Yearly energy consumption by continent.	Link	CSV	4 KB	Public
Country_Consumption_TWH.csv	Yearly energy consumption in wide format.	Link	CSV	6 KB	Public
renewablePowerGeneration97-17.csv	Yearly renewable generation by source used for trend analysis.	Link	CSV	1 KB	Public
renewablesTotalPowerGeneration.csv	Contribution (TWh) by renewable generation modes. Used for share & composition visuals.	Link	CSV	1 KB	Public
nonRenewablesTotalPowerGeneration.csv	Contribution (TWh) by non-renewable generation modes. Used for share & composition visuals.	Link	CSV	1 KB	Public
top20CountriesPowerGeneration.csv	Renewable breakdown for top 20 countries.	Link	CSV	1 KB	Public