

Data Collection and Preprocessing Phase

Date	17 Dec 2025
Team ID	xxxxxx
Project Title	Global Energy Trends: A Comprehensive Analysis of Key Regions and Generation Modes using Power BI
Maximum Marks	2 Marks

Data Collection Plan & Raw Data Sources Identification Template

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 Template

Section	Description
Project Overview	The Global Energy Trends project aims to analyze worldwide energy production across regions and various energy sources, including renewable (solar, wind, hydro) and non-renewable (coal, oil, natural gas).
Data Collection Plan	<p>Data for this project will be collected from credible international energy and economic databases. The sources include:</p> <ul style="list-style-type: none"> • International Energy Agency (IEA) – Global energy statistics & production reports • World Bank Open Data – Energy usage, production, and environmental indicators • Kaggle Datasets – Public datasets related to global energy production, renewable energy, CO₂ emissions, etc.

Raw Data Sources Identified	<p>1. International Energy Agency (IEA)</p> <p>Provides global statistics on energy production, consumption, and renewable energy trends.</p> <p>2. World Bank Energy Indicators</p> <p>Offers country-level data on energy usage, electricity production, and CO₂ emissions.</p> <p>3. Our World in Data (OWID)</p> <p>Contains historical and current datasets on global energy mix and emission trends.</p> <p>4. Kaggle Global Energy Dataset</p> <p>Includes curated datasets on energy production by source, region, and year.</p>
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Raw Data Sources Template

Source Name	Description	Location/URL	Format	Size	Access Permissions
IEA Global Energy Statistics	Contains global and regional data on energy production, renewable sources and consumption metrics.	https://www.iea.org/data-and-statistics	CSV	50-100 MB	Restricted

Kaggle – Global Energy Statistics Dataset	Dataset with energy production by source, region-specific energy mix, and year-wise trends.	https://www.kaggle.com/datasets	CSV	20-80 MB	Public
EIA International Energy Data	US Energy Information Administration dataset containing detailed country-wise production and consumption figures.	https://www.eia.gov/international/data/world	XLSX	40 MB	Public