

## 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 <b>Global Energy Trends</b> 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	Data for this project will be collected from <b>credible international energy and economic databases</b> . The sources include: <ul style="list-style-type: none"> <li>• <b>International Energy Agency (IEA)</b> – Global energy statistics &amp; production reports</li> <li>• <b>World Bank Open Data</b> – Energy usage, production, and environmental indicators</li> <li>• <b>Kaggle Datasets</b> – Public datasets related to global energy production, renewable energy, CO<sub>2</sub> emissions, etc.</li> </ul>

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

### 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.	<a href="https://www.iea.org/data-and-statistics">https://www.iea.org/data-and-statistics</a>	CSV	50-100 MB	Restricted

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