**Data Collection and Preprocessing Phase**

| Date | 26 July 2025 |
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| Team ID | xxxxxx |
| Project Title | Exploring Global Energy Generation |
| Maximum Marks | 2 Marks |

**Data Collection Plan & Raw Data Sources Identification**

| **Section** | **Description** |
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| Project Overview | The project “**Exploring Global Energy Generation”**  , aims at energy consumption and its generation and its global shift of production across various countries and regions. The objective is to analyze energy generation sources- such as fossil fuels, renewables, and nuclear- and provide comparative insights into how different regions are progressing in the global energy transition. The insights will help policymakers, researchers, and environmental analysts make informed, data-driven decisions. |
| Data Collection Plan | Data for this project will be collected from publicly available and credible energy-related data repositories. The Primary source includes Enerdata. This source offer datasets that include metrics on energy generation by source, year, and region. |
| Raw Data Sources Identified | The dataset is being downloaded from kaggle and it is begging extracted from enerdata. It contains 6 CSV files which are:   1. Country\_Consumption\_TWH 2. top20countriesPowerGeneration 3. Continent\_Consumption\_TWH 4. nonRenewableTotalPowerGeneration 5. renewablePowerGeneration97-17 6. renewableTotalPowerGeneration |