**Objectives**

1. Provide a description of the following:

1.1 energy consumption per country, including:

1.1.1 amount of energy per energy source,

1.1.1.1 specific renewable energy sources, and

1.1.1.2 specific non-renewable energy sources

1.1.2 proportion per energy source (renewable and non-renewable), specifically:

1.1.2.1 specific renewable energy sources, and

1.1.2.2 specific non-renewable energy sources

1.2 energy consumption per country per capita

1.2.1 amount of energy per energy source,

1.2.1.1 specific renewable energy sources, and

1.2.1.2 specific non-renewable energy sources

1.2.2 proportion per energy source (renewable and non-renewable), specifically:

1.2.2.1 specific renewable energy sources, and

1.2.2.2 specific non-renewable energy sources

1.3 proportion of energy consumption per country with respect to global consumption in terms of:

1.3.1 total energy consumption

1.3.1.1 specific renewable energy sources, and

1.3.1.2 specific non-renewable energy sources

1.3.2 energy source (renewable and non-renewable)

1.3.2.1 specific renewable energy source

1.3.2.2 specific non-renewable energy source

- - kind of “Group By” countries

2. Provide comparative description of countries according to rankings:

2.1 energy consumption in terms of:

2.1.1 energy source (renewable and non-renewable)

2.1.1.1 specific energy source for renewables

2.1.1.2 specific energy source for non-renewables

2.2 energy source proportion in terms of:

2.2.1 energy source (renewable and non-renewable)

2.2.1.1 specific energy source for renewables

2.2.1.2 specific energy source for non-renewables

3. Identify time-series trends regarding:

3.1 energy consumption in terms of:

3.1.1 energy source (renewable and non-renewable)

3.1.1.1 specific energy source for renewables

3.1.1.2 specific energy source for non-renewables

3.2 energy source proportion in terms of:

3.2.1 energy source (renewable and non-renewable)

3.2.1.1 specific energy source for renewables

3.2.1.2 specific energy source for non-renewables

4. Determine the correlation of the following:

4.1 energy consumption of countries and GDP

4.2 energy consumption of countries and GDP per capita

4.3 energy consumption and population

5. Explore insights that could be derived from the GDP of countries, their energy consumptions, and the percentage of renewables in their energy mix.

6. Create projections of energy usage for the next ten years using regression.

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| **Objectives** | **Statistical Procedure** | **Analytics Tool** | **Other Notes** |
| 1. Provide a description of the following: |  |  | Most of the process for Objective 1 is on the data itself already. |
| 1.1 energy consumption per country, including: |  |  | Do one that is the total of the wold’s as well. Just in case per continental is needed, data is availble from the entries per continent that have already been aggregated in the main table (world\_energy\_consumption) |
| 1.1.1 amount of energy per energy source, |  | PostgreSQL, Tableau | Get only the \_consumption, \_cons\_per\_capita, \_electricity, \_elec\_per\_capita, \_share\_elec, \_share\_energy |
| 1.1.2 proportion per energy source (renewable and non-renewable), specifically: | percentage | PostgreSQL, Tableau | I think there is a column saying pct or percent. Explore if it totals to 100%. If so, just query them. |
| 1.1.2.1 specific renewable energy sources, and |  |  |  |
| 1.1.2.2 specific non-renewable energy sources |  |  |  |
| 1.2 energy consumption per country per capita |  |  |  |
| 1.2.1 amount of energy per energy source, |  |  |  |
| 1.2.2 proportion per energy source (renewable and non-renewable), specifically: |  |  |  |
| 1.2.2.1 specific renewable energy sources, and |  |  |  |
| 1.2.2.2 specific non-renewable energy sources |  |  |  |
| 1.3 proportion of energy consumption per country with respect to global consumption in terms of: |  |  |  |
| 1.3.1 total energy consumption  1.3.2 energy source (renewable and non-renewable) |  |  |  |
| 1.3.2.1 specific renewable energy source |  |  |  |
| 1.3.2.2 specific non-renewable energy source |  |  |  |
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