

# Group 37: Work plan for Ex2

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## 1 Questions

In the following we list the questions we want to answer, including (some) concrete points we will look at and which datasets may be interesting for tackling this question:

- 1.1 How is the adoption of renewable energy in Europe evolving?**
  - Renewable energy adoption trends over years in different countries and sectors [1]
  - Get context on how renewable energy integrates into the overall energy mix and consumption patterns [3,4]
- 1.2 How is the adoption of different types of renewable energy evolving?**
  - Electricity production capacities for different types of RE in different countries [2]
- 1.3 Are there characteristics of countries that correlate with their level of adoption of renewable energy?**
  - Find correlations to influencing factors (correlation), e.g. GDP, population size, energy prices, education level and more [5,6,7]

## 2 Datasets

We will use datasets of following datahubs:

- **Eurostat** Extensive data on energy, particularly renewable energy within the EU.
- **Worldbank** Global datasets for comparative analysis with EU data.

### 2.1 Concrete datasets

[1] **Eurostat - Share of Energy from Renewable Sources** Proportion of energy consumption derived from renewable sources across EU states, segmented by sector (electricity, heating and cooling, transport)

[2] **Eurostat - Electricity production capacities for renewables and wastes** Statistics on renewable energy production and consumption, including breakdowns by energy type (wind, solar, hydro, biomass) and country.

[3] **Eurostat - Simplified energy balances** Energy balance sheets for EU countries, including energy production, imports, exports, and consumption by fuel type and sector.

[4] **Eurostat - Supply and transformation of solid fossil fuels** Energy balance sheets for EU countries (as in dataset 3) but for solid fossils (coal).

[5] **Eurostat - Electricity prices for household consumers** Bi-Annual Electricity prices for households across EU countries.

[6] **Eurostat - GDP at Market Prices** Annual GDP data for EU countries, reflecting economic activity.

[7] **Eurostat - Population by educational attainment level** Percentage of the population and age with specific education.

## 3 Workload Distribution

Due to (i) the sequential dependencies of such a project, and (ii) the desire for all members to contribute to various aspects of the project, we will **keep track of the number of rounds completed by each person** and aim to minimize the intervals between shifts to ensure timely completion. Most of the work will be conducted during the **lecture-free Christmas period**.

**Note:** One team member has dropped out post-deadline, reducing our team to three members. We will distribute the workload accordingly.