

Renewable Energy Production Dashboard (2000–2023)

Objective

The project analyzes renewable energy production trends across six countries, focusing on solar, wind, hydro, and other renewable sources. The goal is to understand country-level contributions, yearly growth, and energy distribution patterns.

Data Overview

Columns: Year, Country, SolarEnergy, WindEnergy, HydroEnergy, OtherRenewableEnergy, TotalRenewableEnergy

Countries Analyzed: France, India, Brazil, UK, China, Australia, Canada, Germany

Visuals Created

1. Page 1 – Renewable Energy: Production by Country

Bar Charts: Total solar, wind, hydro, and renewable energy by country

Pie Charts: Distribution of solar, wind, hydro, and other renewables



2. Page 2 – Renewable Energy: Trends Over Time

Line Charts: Total solar, wind, hydro, and renewable energy production (2000–2023)



Key Insights

Total Renewable Energy:

Highest: France (74K GWh)

Lowest: Brazil (57K GWh)

Close second: India (72K GWh)

Wind Energy:

Highest: UK (24K GWh)

Australia (22K GWh)

Lowest: Brazil (18K GWh)

Hydro Energy:

Highest: China (31K GWh)

France (29K GWh)

Lowest: Brazil (23K GWh)

Solar Energy:

Highest: India (16K GWh) & France (16K GWh)

Lowest: Brazil (10K GWh)

Other Renewables:

Highest: Canada (8.5K GWh)

UK (7.7K GWh)

Lowest: Germany (5.7K GWh)

Conclusion

France leads in total renewable production, driven by hydro and solar.

Brazil consistently underperforms across categories, particularly in solar and wind.

China dominates hydro energy production, while the UK excels in wind.

Canada is strong in other renewable sources (biomass, geothermal).

This dashboard provides governments, researchers, and policymakers with insights to compare renewable energy strategies and optimize future energy investments.