Europe Energy 2019 Report

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Summary

- The data for this report comes from World Energy Consumption dataset

- The report focuses on countries in Europe, in the year 2019

- Areas of focus are primary energy, electricity and their sources

Methodology

- Data for analysis came from World Energy Consumption dataset, https://www.kaggle.com/datasets/pralabhpoudel/world-energy-consumption

- The collected data was processed to improve the quality and alter formatting

- From many available years, countries, data measures and categories of energy sources, data of interest was selected and extracted

- The extracted data was presented with a dashboard

Results - dashboard

The dashboard available under the url below splits the findings into three categories: primary energy, electricity and shares of sources of power.
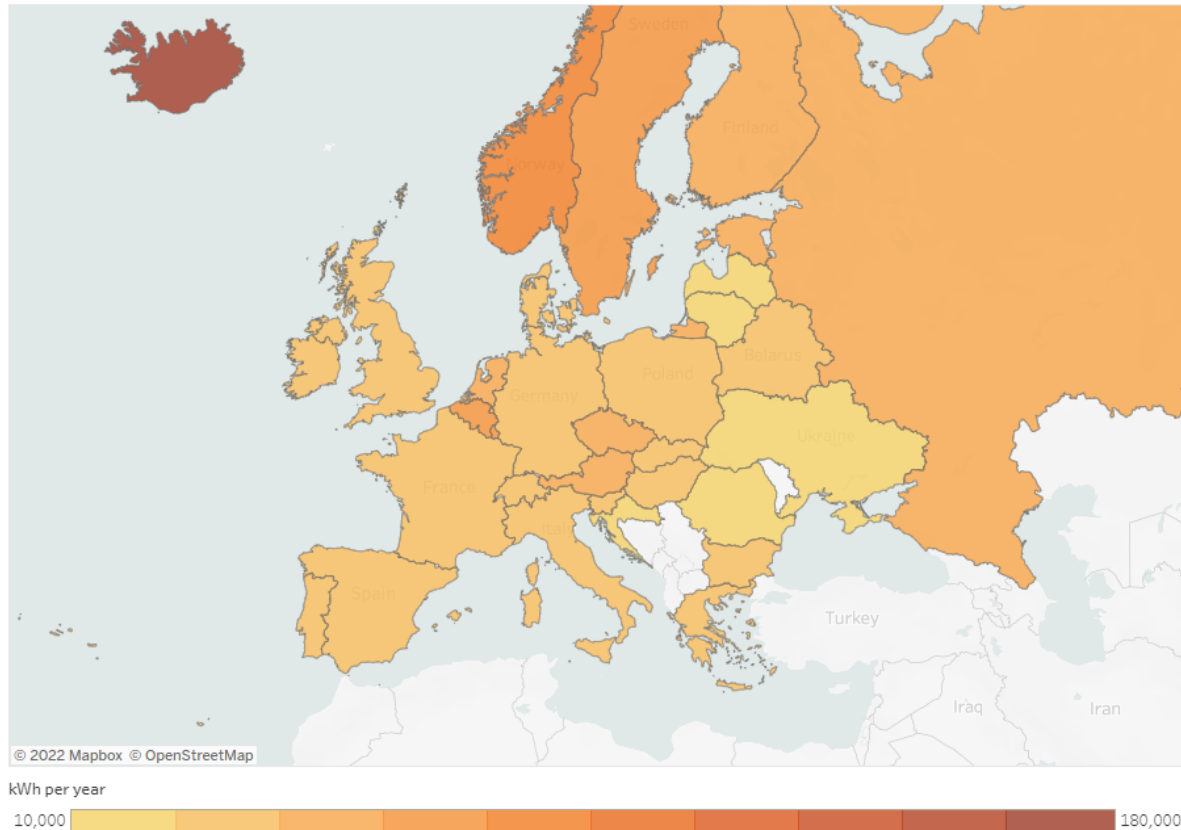
https://public.tableau.com/views/EuropeEnergy2019/Story1?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link
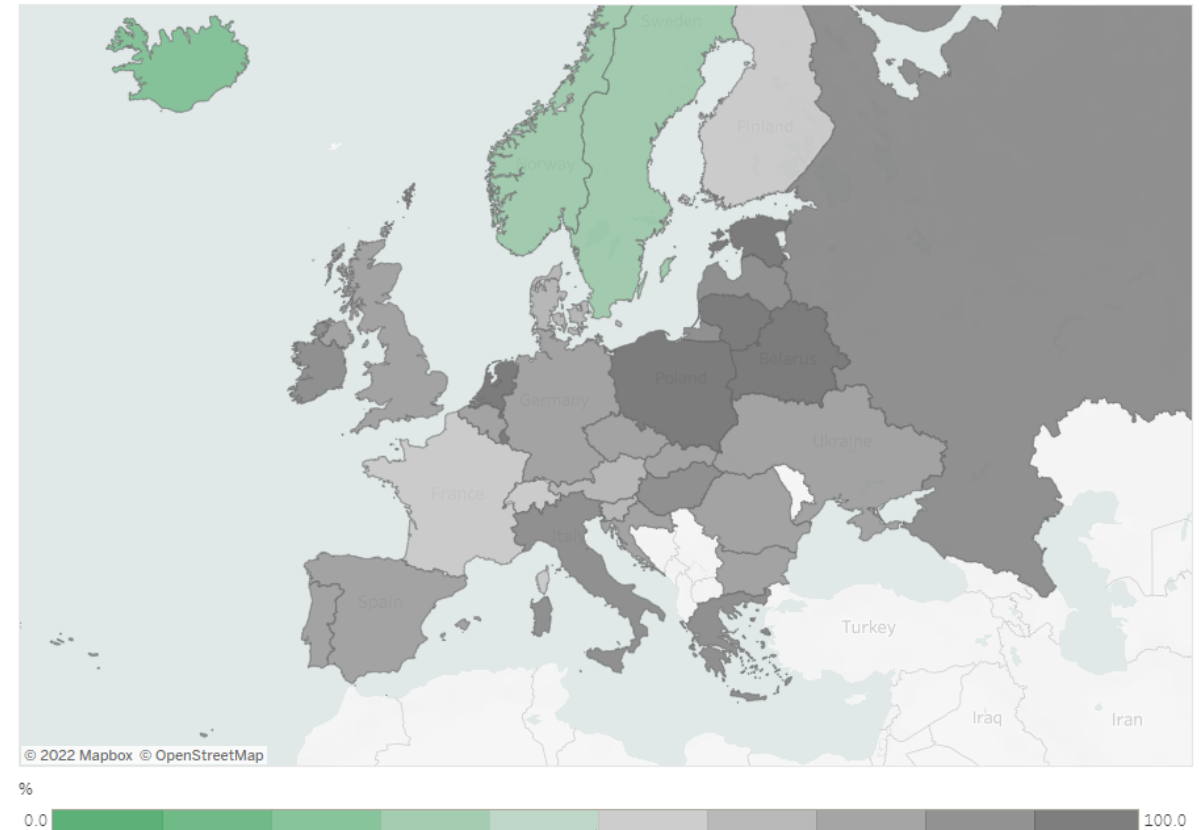
Results - dashboard: primary energy

Results - dashboard: electricity
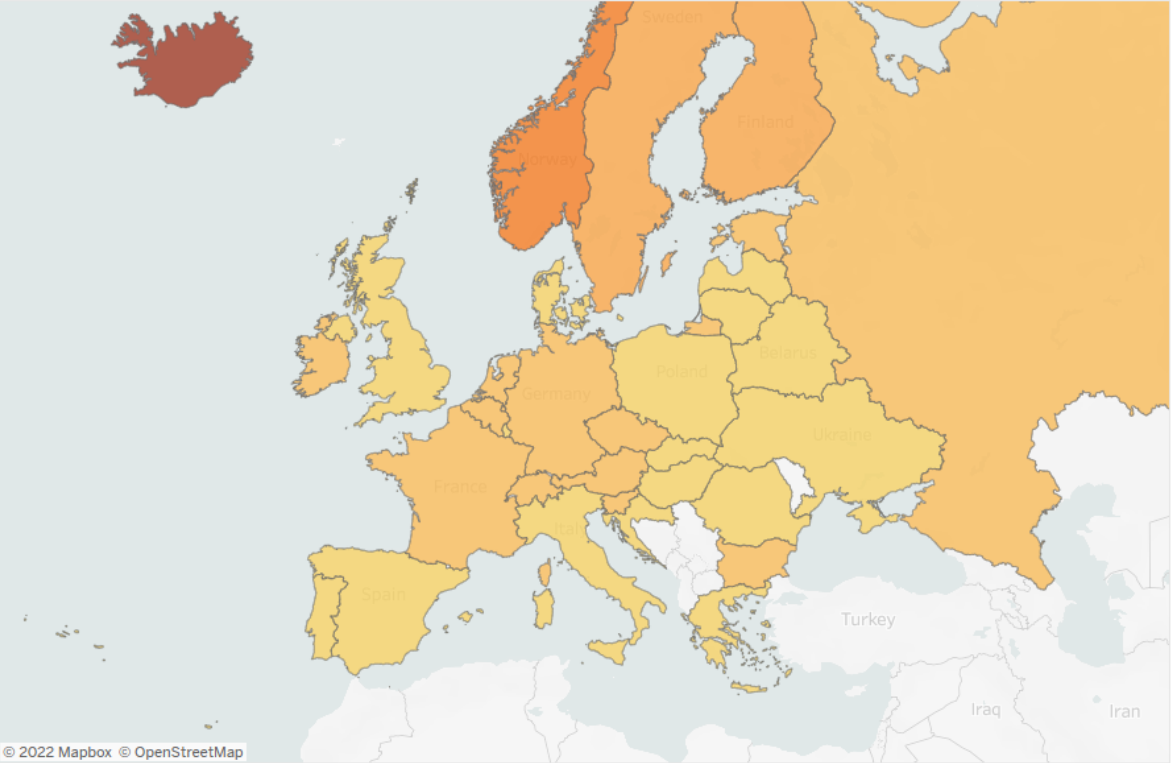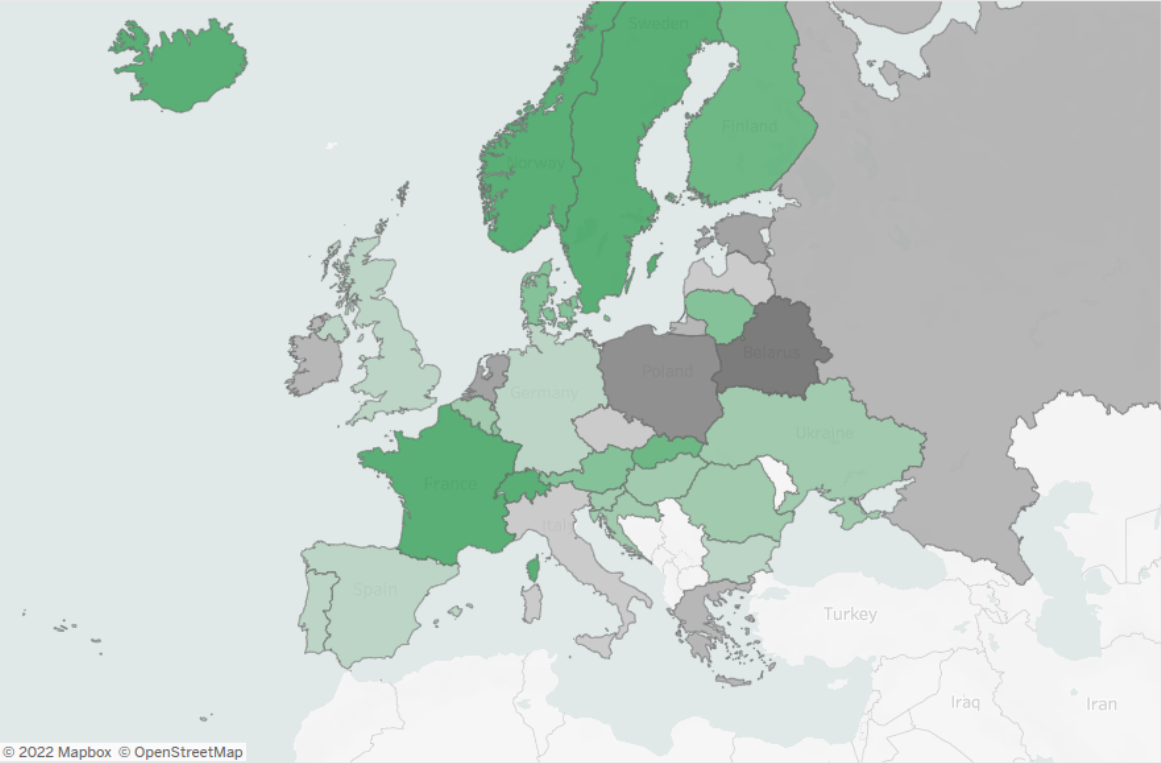
Results - dashboard: share of sources
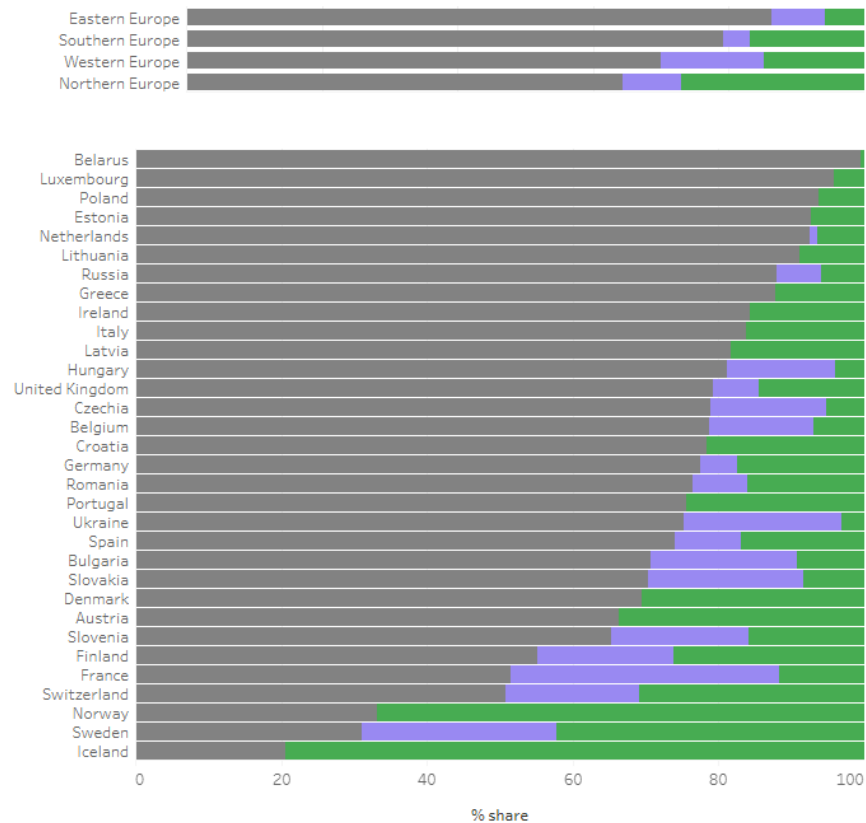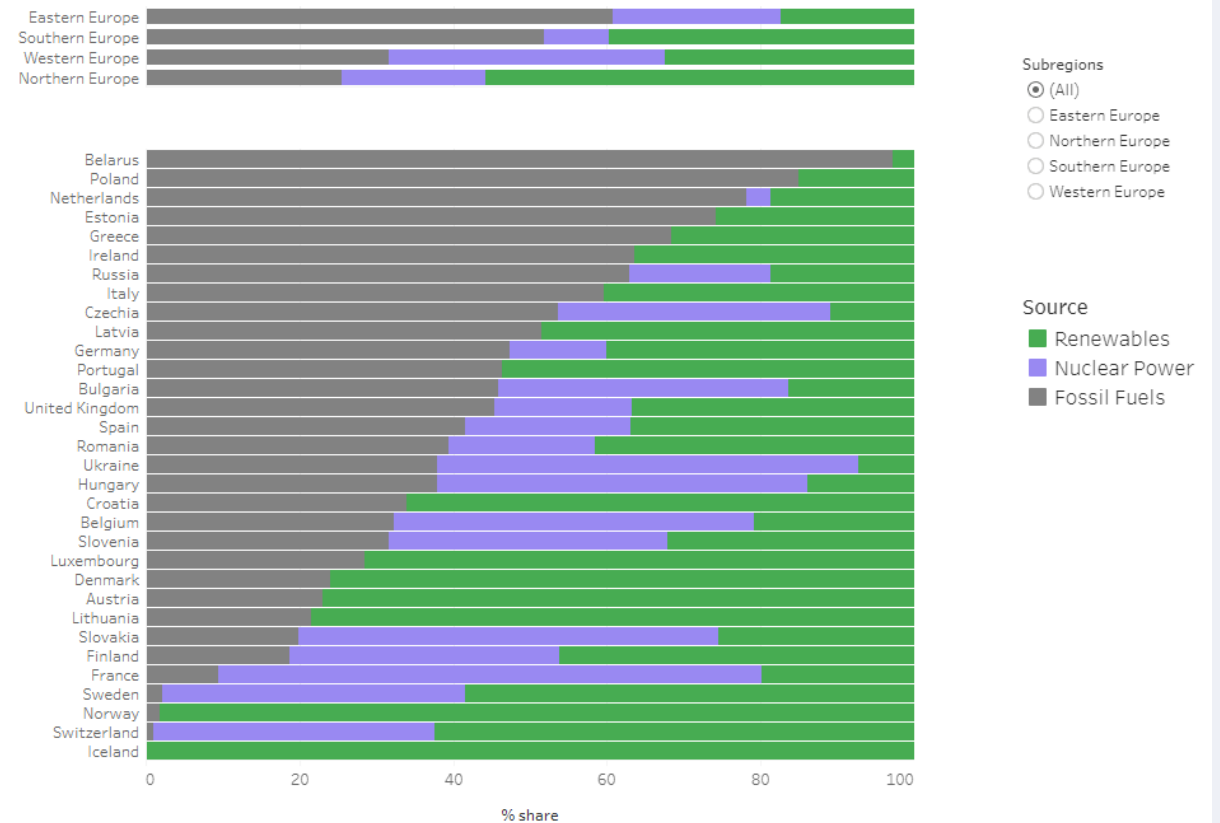
Findings - primary energy

- In 2019, whole Europe consumed almost 30 000 tera-Watt-hours of primary energy (energy harvested directly from natural resources)

- Majority of this energy came from fossil fuels

- Highest share of fossil fuels in energy consumption was observed in Eastern Europe (86 %), the lowest in Northern Europe (64 %)

- There is a clear correlation between latitude and energy consumption per capita, which can be explained by higher power consumption in winter due to lower temperatures

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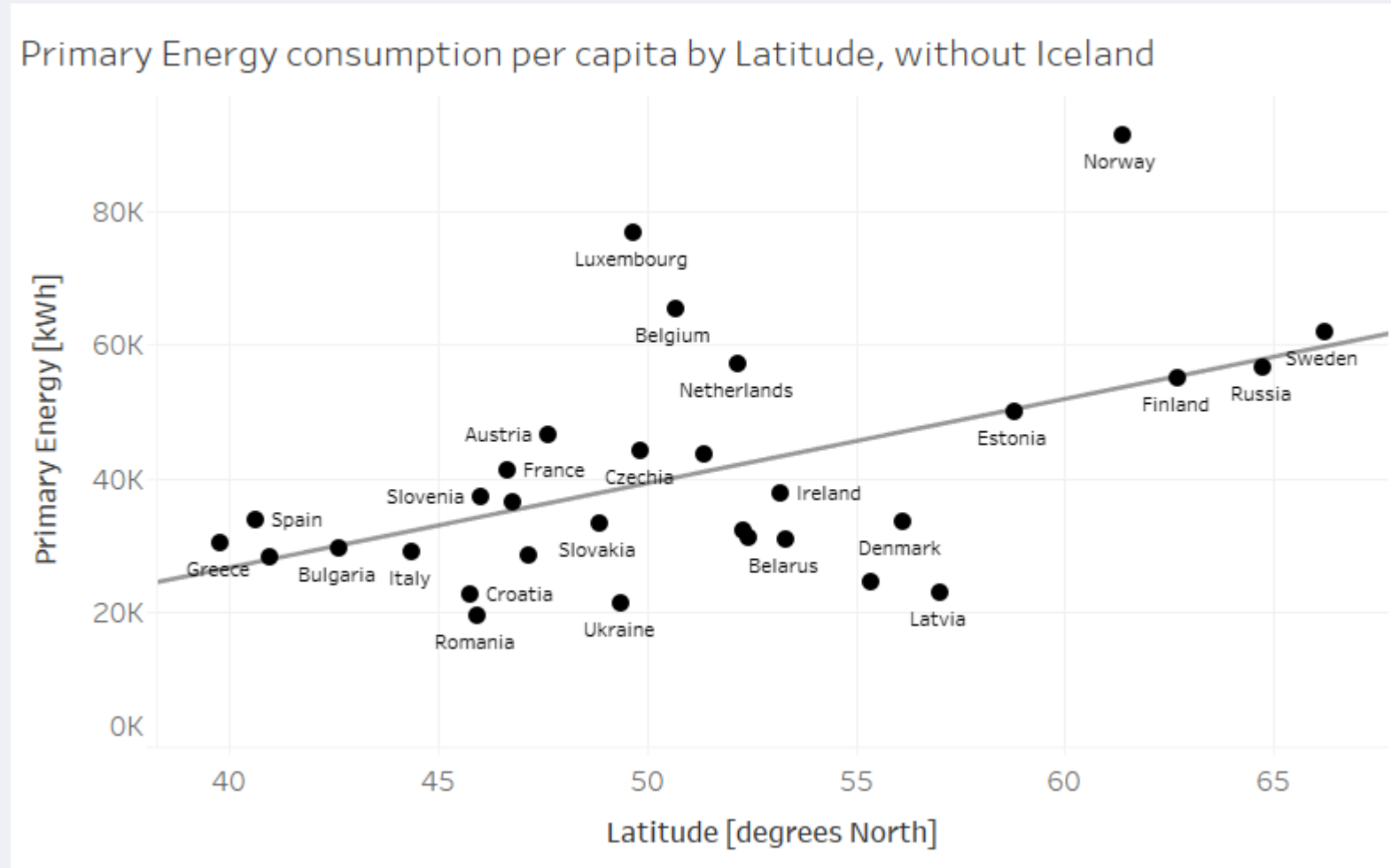
Primary Energy consumption per capita by Latitude, without Iceland

Findings - electricity

- In 2019, whole Europe generated about 5000 tera-Watt-hours of electricity

- In total, almost half of this electricity came from fossil fuels

- Highest share of fossil fuels in electricity generation was observed in Eastern Europe (61 %), the lowest in Northern Europe (24 %)

- Most countries in Eastern Europe heavily rely on nuclear power

- Countries in Southern Europe seem to be most averse to nuclear power

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