Carbon Footprint Calculator

This project is created as a part of the assignment from Computer Programming module in GISMA University of Applied Sciences. The primary functionality of this tool revolves around enabling users to input data concerning their energy consumption, waste generation, and travel habits. Upon processing this data, the tool calculates the overall carbon footprint and generates detailed reports. These reports highlight areas where emissions exceed recommended limits and offer suggestions for reducing their carbon footprint. From a technical standpoint, the project utilizes a combination of Python for backend calculations and Streamlit for creating an interactive web interface.

Github Link: https://github.com/WIUT-00006401/Carbon Foorprint

Student ID: GH1028483

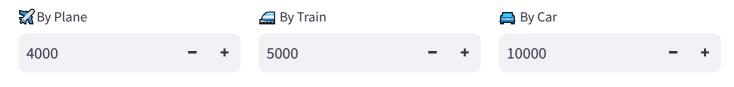
Energy consumption (monthly bill in euros)



Monthly Waste generated (kg) and recycled (%)



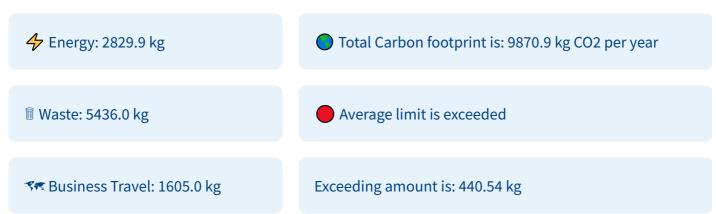
SMS Business travel per year (in km)



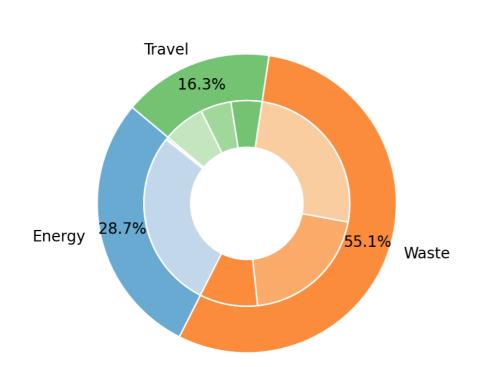
Calculate CO2 Emissions

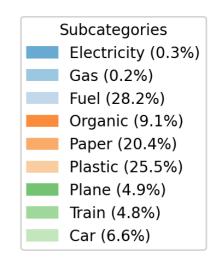
Results

By Categories Total Carbon Footprint



Pie chart Analysis





	Emission Factors	CO2 in kg	Average limit in kg	Difference in kg
0	Electricity	30.0	30.0	0.0
<u></u>	Gas	15.9	6.36	9.54
	Fuel	2784.0	2784.0	0.0
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	Paper	2016.0	1440.0	576.0
4	Plastic	2520.0	2700.0	-180.0
X	Plane	480.0	480.0	0.0
	Train	475.0	570.0	-95.0
	Car	650.0	520.0	130.0

- Consider switching to renewable energy sources if possible.
- Improve home insulation to reduce heating and cooling needs.
- Invest in energy-efficient appliances.

Suggestions to reduce waste emissions

- Increase recycling efforts for organic, paper, and plastic waste.
- Compost organic waste.
- Reduce usage of single-use plastics.

Suggestions to reduce travel emissions

- Opt for public transportation or carpooling whenever possible.
- Consider the necessity of each flight and explore alternatives.
- Maintain your vehicle regularly to ensure fuel efficiency.