CARBON FOOTPRINT CALUCULATOR

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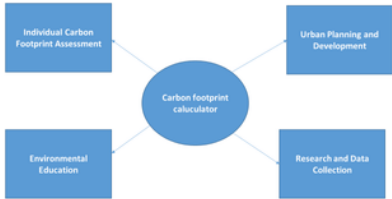
CARBON FOOTPRINT CALUCULATOR

INTRODUCTION

Project Overview
Title: Carbon Footprint Calculator
Objective: Develop a user-friendly tool to calculate the carbon footprint based on electricity usage, gas consumption, water usage, and waste production.
Platform: Desktop application using Python and Tkinter.
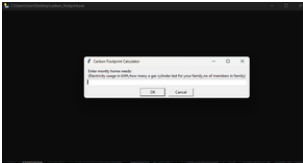
Applications of Carbon footprint caluculator

Working of project

Step1: The user will click the application to lauch it

Step2: After clicking it a window will open to take the user input

Step3: After entering the data it will caluculate the carbonfootprint on the basis of following carbon factor

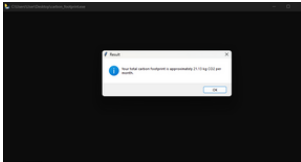electricity: 0.4 (kg CO_2 per kWh)

gas: 2.0 (kg CO_2 per cubic meter)

water: 0.02 (kg CO_2 per liter)

waste: 0.3(kg CO_2 per kg of waste)

Step4: After caluculation it will show the result in a dialog box

Complete Process of Project Working

Input1: A dialog box appears to enter the data

Output: It will calaculate the carbon footprint for each factor by the given data

Input2: The footprint of each factor is given to a function to add up to get the total footprint

Output: it will display the total carbonfootprint in a dialog box

Future scope

Mobile Application Development:

Transform the calculator into a mobile app to reach a broader audience. This could involve using frameworks like React Native, Flutter, or Kivy to develop a cross-platform mobile application.

Social Integration and Challenges:

Localize the application for different regions and allow customization based on local environmental factors, energy sources, and waste management practices.
By exploring these future scopes, the Carbon Footprint Calculator can evolve into a more advanced and comprehensive tool for promoting sustainable living and environmental awareness

Conclusion

- **By following these steps, users can assess their carbon footprint based on daily or monthly home-related activities.**

- **Gain insights into their environmental impact and contribute to a more sustainable lifestyle.**