“V-Carbon”,
Designing a World Co2
Emission Observation and
Learning Mobile Application

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Penn State Capstone Project 2022

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01 Background
Global situation

1) Greenhouse effect: Global climate warming, Glacial melting, Sea level rise, El Niño phenomenon, etc...

2) Ecosystem crisis

3) Natural disaster

5) Desertification
The global carbon emissions generated by major electricity and heat production activities reached 13.98 billion tons, accounting for 41.7% of global carbon emissions in that year.
“Out of the 135 countries pledging carbon neutrality, only 66 have put a target year on their policies, laws or propositions according to data by Net Zero Tracker.”
Current Issues and challenges

- greenhouse gas emissions will continue to increase without critical steps to shift economies towards carbon neutrality
Objectives
The primary goals and objectives of this project include the design, build-out, and testing of a user-friendly mobile application that will enable to:

a. Query, visualize, and report the effective carbon emissions status of each country and region.

b. Identify, compare and analyze the performance of carbon emissions for each area.

c. Allow users to receive essential messages related to CO2 emissions and take action.
03 Methodology
DATA

1) Our World In Data
2) World Bank
3) Carbon Monitor
4) Climate Watch
Our World in Data

Research and data to make progress against the world’s largest problems

3343 charts across 297 topics
All free: open access and open source
Prototyping platform: “MODOU”
04 Results
Observe, learn and interact

Application

Data Observation

Knowledge Graph
Welcom, Login Page, and Registration

welcome page

Sign up Page

Login Page
Data Observation - Define the categories

Define the Year

Define the Region
Data Observation - Define the categories

Define the Categories by:
- Building Carbon Emissions
- Transportation Emissions
- Industry Carbon Emissions
Data Observation - Data Analysis

Finish the Categories selection

Chart

Map

Table
Knowledge Module

The Global Carbon Project (GCP) is an organisation that seeks to quantify global greenhouse gas emissions and their causes. Established in 2001, its projects include global budgets for three dominant…

globalcarbonproject.org

The International Energy Agency (IEA; French: Agence internationale de l'énergie) is a Paris-based autonomous intergovernmental organisation established in the framework of the Organisation for Econom…

Carbon Dioxide Information Analysis Center (CDIAC)
https://cdiac.ess-dive.lbl.gov/home.html

2017-8-11 · Carbon Dioxide Information Analysis Center ESS-DIVE CDIAC Data Transition. The Carbon Dioxide Information Analysis Center (CDIAC), located at the U.S. Department of Energy…
Low carbon economy aims to obtain more economic output based on less consumption of natural resources and environmental pollution, thus achieving higher standards of living and better quality of living.

05 Reference


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THANKS