Ecowatt

Introduction

Welcome to 'Ecowatt', a comprehensive tool designed to help individuals and organizations of all types contribute to saving our planet by transitioning to renewable energy resources. Whether you're a homeowner, business executive, or government agent, our app provides tailored solutions to meet your energy needs and sustainability goals.

Features

1. Energy Calculator

Functionality: Users input their monthly energy usage and select their state. The app retrieves state-specific energy prices via an API.

Results Provided:

- Required solar system power

- Roof surface area needed for installation

- Installation cost

- CO2 emission reduction per year

- Annual savings

- List of local solar providers with details and links

2. Integrated Map

Functionality: *Utilizes the Leaflet API to display wind speed, solar irradiation, and solar system providers at any location.

Features:

  - Pop-up information about wind speed and solar irradiation

  - Pins showing solar system providers with detailed information

3. News Feed

Functionality: Provides the latest news on renewable energy through an integrated API.

Features:

  - Real-time updates on renewable energy developments

  - Articles and news from various sources

4. Custom Chatbot

Functionality: An interactive chatbot with knowledge of renewable energy.

Features:

  - Answering user questions about renewable energy

  - Providing guidance and information on various topics

5. Educational Pages

Functionality: Offers in-depth information on the importance of renewable energy.

Features:

  - Real statistics and data

  - Insights into why renewable energy is crucial for sustainability

How to Use

1. Energy Calculator Page:

- Enter your monthly energy usage.

- Select your state.

- View results including solar system requirements, costs, and local solar providers.

2. Integrated Map:

- Navigate to your location on the map.

- Click on pins to view details about solar system providers and local environmental data.

3. News Feed Page:

- Browse the latest articles and updates on renewable energy.

4. Chatbot:

- Ask questions related to renewable energy.

- Get instant answers and advice.

5. Educational Pages:

- Explore articles and statistics to learn more about the impact of renewable energy.