App Description 2

App Idea

The PG&E Energy Reducer will be a web application for PG&E customers that will allow them to visualize their heat and electric consumption through easily readable and understandable graphical representations. The app will also show trends and recurring energy spikes and will give the customer advice to help reduce their energy consumption as well as their energy costs.

App Users

PG&E customers without smart home products or other applications that monitor energy consumption (i.e. smart thermostats, energy monitors) aged at 18+. These customers are not expected to be technically savvy, so the application will be tailored to the average non-technical customer.

App Workflow

To use our app an approved PG&E customer will be met with a single page with a few charts showing consumption for both gas and electric selectable by day, month, and year. Areas of high consumption will be identified and highlighted by the app, which will be accompanied with advice to reduce consumption in said areas. The users will use the information provided by the app to reduce their energy consumption.

App Data Types

JSON files of customer usage data from PG&E database
Auth credentials and interaction

App Views

Single page with different graphs/sections that refresh within the page
Select time range, energy type
Emotional translation of data i.e. carbon output in kg, miles driven (from PG&E), Wren API calls

Implementation Challenges

An anticipated challenge is the difficulty in plotting consistent and readable graphs. Inconsistent range and missing data are challenges that we will need to come up with a solution for so that our graphs are still useful and readable.
Possible limited range of data depending on how PG&E keeps their database