Team Data Squad – Project Proposal

# Option

Interactive Dashboard

# Members

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# Hypothesis

Energy creation is more efficient in well developed countries as they have access to cleaner sources of energy but consumption of energy overall is higher in countries with higher per capita income as they demand more goods and services that require electricity.

# Source

We are accessing an API of time series data for World Development Indicators available from the World Bank. This API lives on Quandl.

<https://www.quandl.com/data/WWDI-World-Bank-World-Development-Indicators/documentation>

# Project Plan

## Planned Languages

* Python
  + API Interaction
  + Data Cleanup
  + Flask app Creation
* MySQL
  + Joining fields into tables
  + Data Storage to Serve to Flask App
* Javascript
  + Plotly libraries
* D3
* HTML
* CSS
* Leaflet

## Planned Visuals

* Main: Interactive Bubble Chart: Energy Consumption and C02 Emissions by country (Per capita)
  + Bubble sized based off of population
* 100% Stacked Bar Graph for each country that is selected
  + Total CO2 Emissions by Type of Fuel (Solid, Liquid, Gas)
* Interactive Heatmap with Leaflet
  + World map with filters, additional layers