**Analyze Boston**

**Track 1:**

Reducing Boston’s Carbon Footprint: Participants will use the Boston Energy Reporting and Disclosure Ordinance (BERDO), City of Boston Utility Billing Data, City of Boston Real-Time Energy Metering (coming soon!), and other relevant datasets from Analyze Boston to find new ways to promote energy efficiency and reduce greenhouse gas emissions in Boston

**Prompt:**

Please provide a brief summary of your submission and its results (or anticipated results, if still in progress). \*

**Team Name:**

Beantown Solar: *The Future Never Looked So Bright*

**Deliverable:**

<https://tcb-analytics.shinyapps.io/bostonsolar/>

**Objective:**

In an effort to reduce the City of Boston’s carbon footprint our reliance on fossil fuels and non-renewable types of energy must be limited. Solar power is a great alternative and offers free and renewable energy source at a small upfront cost that requires little to no maintenance for the first twenty to thirty years. A switch to solar energy is an investment in the future and not only benefits the cost of energy but also reduces carbon emissions.

To aid in the efforts to make solar more widespread our team has created a tool to help city planners determine how to best find a scenario for implementing solar technologies. Rooftops in Boston cover a major part of the city and often go unused. By using Google’s Project Sunroof a calculator that determines optimal areas and placement for solar and cross-referencing usage data from “City of Boston Utility Billing Dataset” we were able to calculate energy and cost savings for the areas around Boston who could benefit most from the use of rooftop solar. This tool will encourage the growth and financial feasibility of solar in the City of Boston.

*“Whenever there’s a huge solar energy spill, it’s just called a nice day.”*