

## PROPOSED EMPIRICAL INDICATORS OF SOCIAL EQUITY IN CFB

Indicator	Category	Description
Potential of rooftop solar	Buildings	Total potential rooftop solar per TAZ aggregated from potential rooftop solar per building parcel.
Renew Boston Participating Households	Buildings	Number and characteristics of HHS participating in Renew Boston.
Improved E Systems*	Buildings	Current number of installations of improved energy systems (retrofits, improved heating systems, heat pumps) by building per TAZ.
Current rooftop solar*	Buildings	Current utilization of rooftop solar by building per TAZ.
Cost of energy as a % of household income	Cost	Annual energy cost in dollars by energy type mix as a percentage of median HH income per traffic analysis zone (TAZ). Aggregated from Census block group geography.
Energy use by fuel type	Consumption	Units of energy per capita and/or per HH by fuel type per TAZ.
Energy use by end use	Consumption	Energy use per capita and/or per HH by end use per TAZ.
Air pollution impacts	Health	Change in morbidity and mortality rates due to changes in PM <sub>2.5</sub> and ozone.
Active transport impacts	Health	Improved health outcomes due to active transport.
Location and density of transit and subway stops	Transportation	Number of transit stops per TAZ and density of transit stops per unit area per TAZ.
Proximity to transit and subway stops	Transportation	Walking-distance transit stop buffer area over total area per TAZ, weighted by residential density. Accessibility to transit and subway stops based on 1 mile buffers.
Proximity to electric vehicle infrastructure	Transportation	Number of EV charging stations per TAZ and driving-distance EV charging station buffer area over total area per TAZ, weighted by residential density.
Proximity to bike lane infrastructure	Transportation	Accessible bike lane infrastructure buffer area over total area per TAZ, weighted by residential density.
Bike sharing	Transportation	Accessible bike lane infrastructure buffer area over total area per TAZ, weighted by residential density.
Reliance on private vehicles	Transportation	Number of workers 16+ who depend on vehicles to get to work. Aggregated to TAZ level from Census block group geography. Related directly to proximity and location/density of transit stops.
VMT Tax Burden relative to HH Income	Transportation	Impact of VMT tax burden in dollars relative to HH income per TAZ.

TAZ – Traffic analysis zone    VMT – Vehicle miles travelled    EV – Electric vehicle    HH – Household

\* Data constraints may prevent these indicators from being developed.