# Data Driven Approaches to Measuring and Tracking Environmental Justice

September 2022

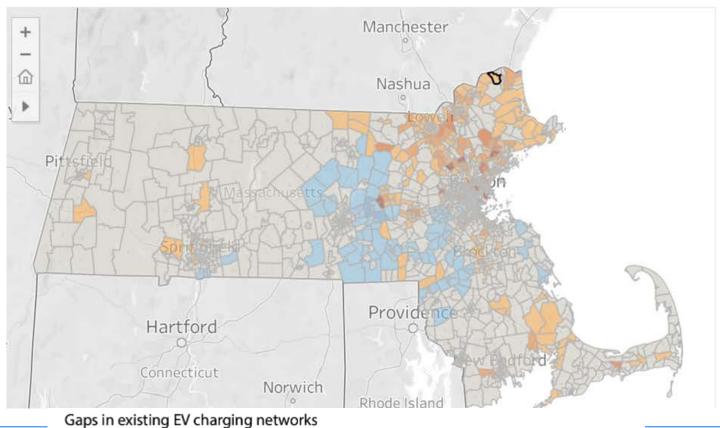


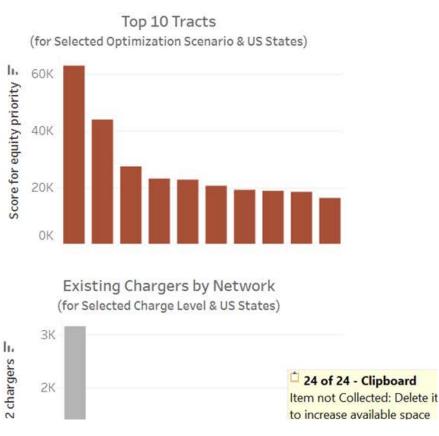
# Streetlight Equity Filters – Electric Vehicle Charging Dashboard

This dashboard shows gaps in the existing electric vehicle charging network. Select a scenario below to learn more.



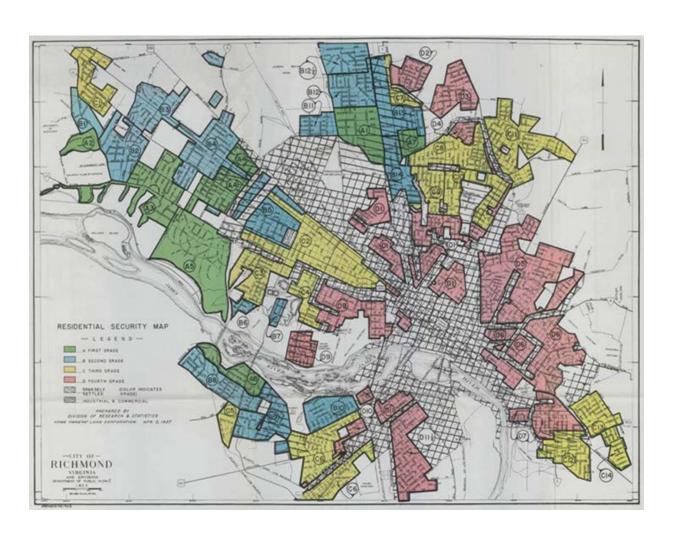
First, select a charging optimization goal. Then, select one or more states to see where charging stations should be prioritized to fulfill that goal. Red means the gap is significant. Blue areas may already have enough chargers. Scores are based on trip volumes, EV





# **GIS Heat Mapping – City of Richmond VA**

- "Heat is deadliest weather disaster in the U.S., killing as many as 12,000 people a year"
- During heat wave, every 1° temp increase, increases risk of dying by 2.5%

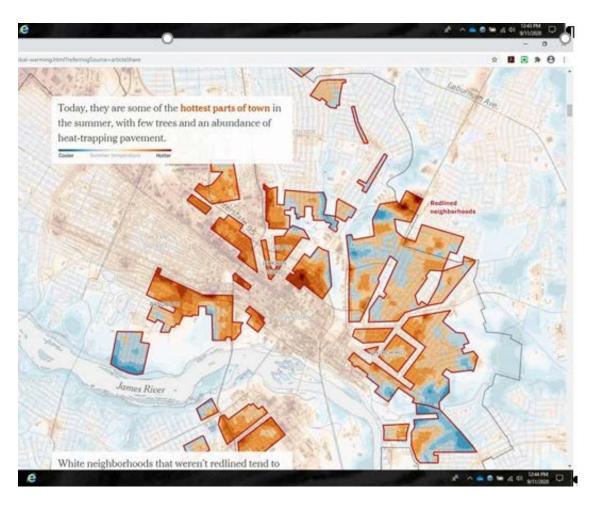


3 ©Jacobs 2022

Gilpin Neighborhood, in Richmond VA: 15° Hotter than Wealthy,

Non-minority neighborhoods





4 ©Jacobs 2022



## **Tree Cover in Red-Lined Areas**



5 ©Jacobs 2022

## **(C)**

# Autocase: Interactive Project Toolkit – Fresno California DMV

Testing the Building EJ Tool

655 W Olive Ave, Fresno, CA 93728, USA

Contact

Project Phase

Planning

Other

Project Type

Land Area

50000 sqft

Gross Floor Area

30000 sqft

Housing Price

\$286,168

-9%

below national avg

Zillow Home Value Index (ZHVI) for all homes in this zip code

Walk Score

56

Electricity Rate

41%

0.17 S/kWh

above national avg

S/kWh - Prices for the U.S. are collected by state from the U.S. Energy Information Administration

Natural Gas Rate

12%
9.04 \$/MMBtu above national avg

\$/MMBtu - Prices for the U.S. are collected by state from the U.S. Energy Information Administration

Walk Score is a number between 0 and 100 that measures the walkability of any address.







## **Social Value Tools - City of Vancouver**

Target by 2023: 50% spend (\$) and contracts (#) to social/diverse business in

identified categories

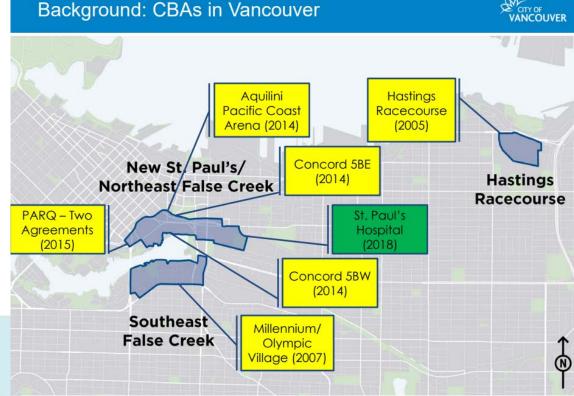
Community Benefit Agreements:

Saint Paul's Hospital: \$2 billion capital
10% local equity hiring
10% local
10% social purchasing

Providence Health owner/client

Living wage certification







# **DOE Funding Opportunities**

# Criteria for Justice 40 Covered Programs



## **Federal Investments**

- ✓ Federal financial assistance (e.g., grants, loans, credits)
- ✓ Direct payments or benefits to individuals
- ✓ Federal procurement benefits (acquisition of goods and services for the government's own use)
- ✓ Programmatic Federal staffing costs (e.g., federal pay for staff that provide technical assistance)
- ✓ Additional federal investments under covered programs as determined by OMB.

## **Covered Program**

A Federal Government program that makes **investments** in one or more of the following seven areas:

- √ Climate change
- ✓ Clean energy and energy efficiency
- ✓ Clean transportation
- ✓ Affordable and sustainable housing
- ✓ Training and workforce development
- ✓ Remediation and reduction of legacy pollution
- ✓ Critical clean water and waste infrastructure







# Roadmap to Funding and Engagement



**Funding Opportunity Process** 

Applying to and Engaging in Funding Opportunity

Request for Information (RFI)

Review & Respond to RFI to influence program design

Notice of Intent (NOI)

Review NOI and prepare to apply (if applicable) or engage

Funding Opportunity Announcement (FOA)

Review FOA and apply (if applicable) or engage

Funding Agreement (FA)

Awardees, communities, stakeholders stay engaged and accountable

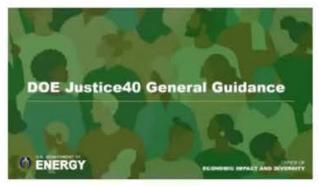


## **Justice 40 Resources**



### Guidance and Factsheets

#### DOE Justice40 General Guidance



#### **Environmental Justice Explainer**



#### Justice40 Factsheet



#### Justice40 Covered Program Highlights





Visit: www.energy.gov/justice40

