

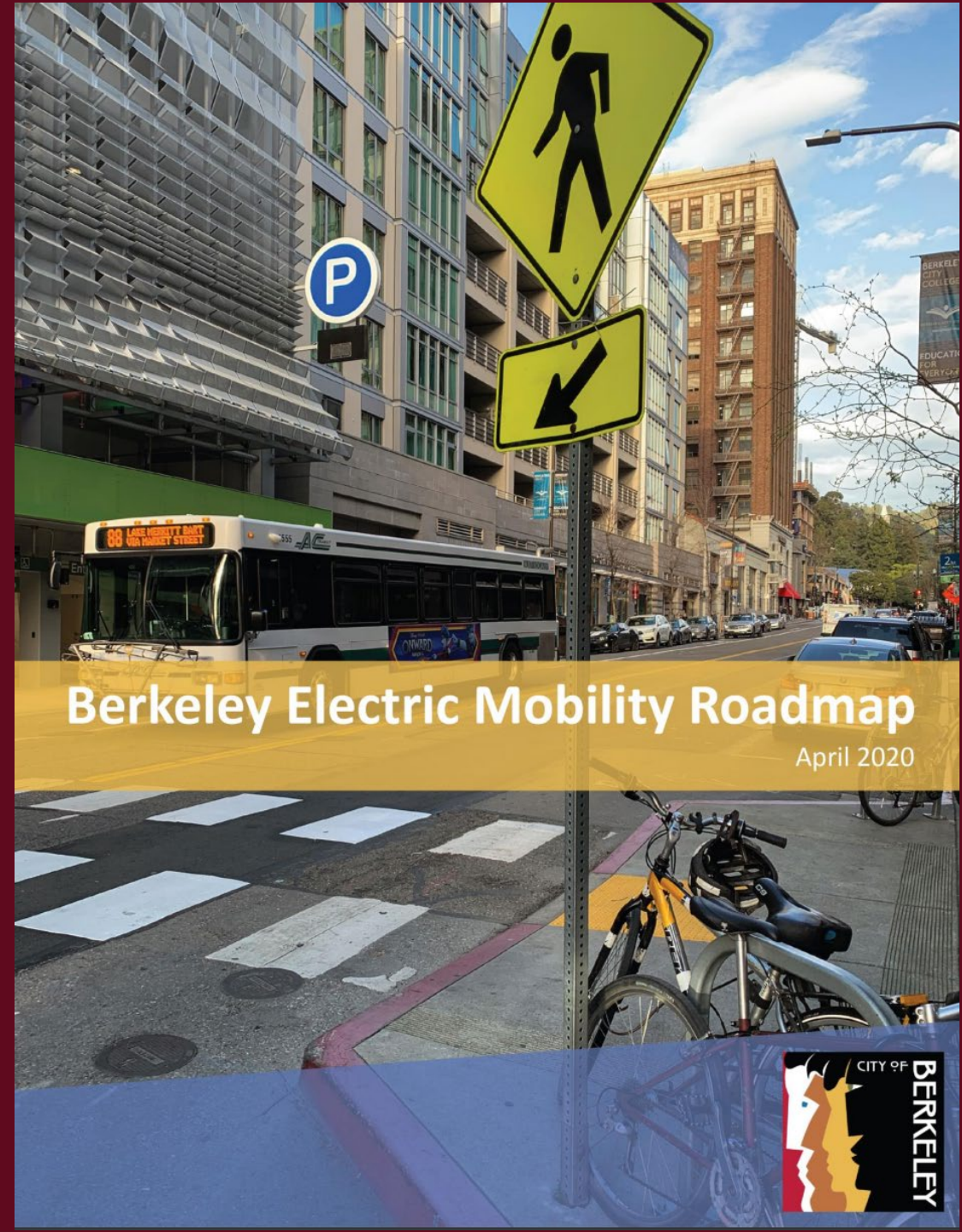
Office of Energy & Sustainable Development Electric Mobility Roadmap Update

Environment and Climate Commission

October 19, 2022



Berkeley Electric Mobility Roadmap



Berkeley Electric Mobility Roadmap
April 2020

Roadmap Needs Assessment Overview



Online Survey of
Berkeley residents

Interviews with
representatives of
underserved
communities and
other key stakeholders

Scan of existing EV
initiatives at local,
regional, utility, and
state levels

Best Practices
Research

EV Adoption Rate
Scenarios and EVSE
Estimates

Geospatial Analysis

Key Barriers to Electric Mobility Adoption



Cost and Financing



Education and Awareness



EV Charging Access



Physical Barriers



Technological

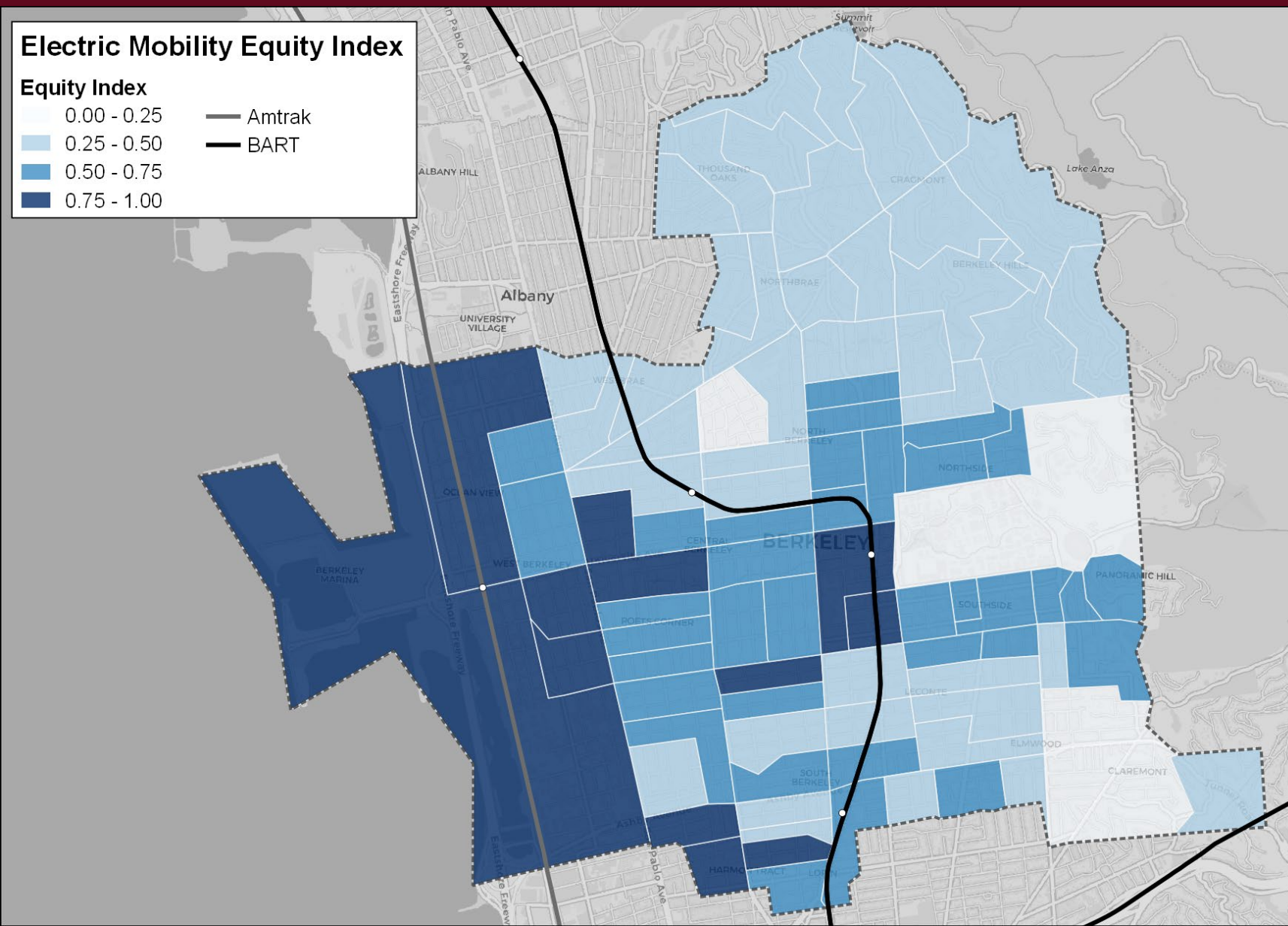


Reliability



Regional and Systemic Challenges

Electric Mobility Equity Index Map



Electric Mobility Equity Index Map

This map identifies areas to prioritize equity in electric vehicle deployment, with a focus on residents:

- With less access to transport options
- Who live in affordable and/or multifamily housing
- Are more highly impacted by pollution, poverty, and other socioeconomic vulnerabilities

Roadmap Goals

- **Ensure Equity in Access to Electric Mobility**
 - Maximize electric mobility benefits in underserved communities
- **Improve Alternatives to Driving**
 - Shift trips to walking, biking, and shared electric modes
- **Achieve Zero Net Carbon**
 - Eliminate emissions from private vehicles
- **Demonstrate City Leadership**
 - Lead by example and guide the electric mobility transition



Roadmap Goals & Implementation Updates



- **Ensure Equity in Access to Electric Mobility**
 - *Pilot Climate Equity Fund*
- **Improve Alternatives to Driving**
 - *Micromobility Permit Program*
- **Achieve Zero Net Carbon**
 - *EV Charging Requirements for New Construction*
 - *EBCE DC Fast Charging Hubs*
 - *Electric Mobility Education and Outreach*
- **Demonstrate City Leadership**
 - *Municipal Fleet Electrification Assessment and implementation*
 - *Electric Mobility Coordinator position*



Measuring Progress



% Sustainable Trips



32%
in 2020

Goal: Increase of share of trips taken on sustainable modes of transportation

% EV Adoption



7.5%
in 2021

Goal: Increase the share of light-duty EVs registered in Berkeley to 25% by 2025, 55% by 2030, and 100% by 2045

of Gas Cars Per Household



1.3
in 2021

Goal: Reduce the number of gas cars per household to 0 by 2045

of Public Level 2 Chargers



184
in August 2022

Goal: Install at least 420 public Level 2 chargers by 2025

of Public DC Fast Chargers²



22
in August 2022

Goal: Install at least 100 public direct current fast chargers (DCFC) by 2025

Questions?

Traveling in Berkeley



Brian

Berkeley Resident and Business Owner
Cyclist

People think that an auto free lifestyle for families isn't attainable, but my electric cargo bike takes me places faster than a car. E-bikes are expensive but in six months they pay for themselves and then you have money to get around for your other transportation expenses like car share. On my e-cargo bike, I interact with my kids who actually notice landmarks. My favorite part of my commute is engaging with my community.