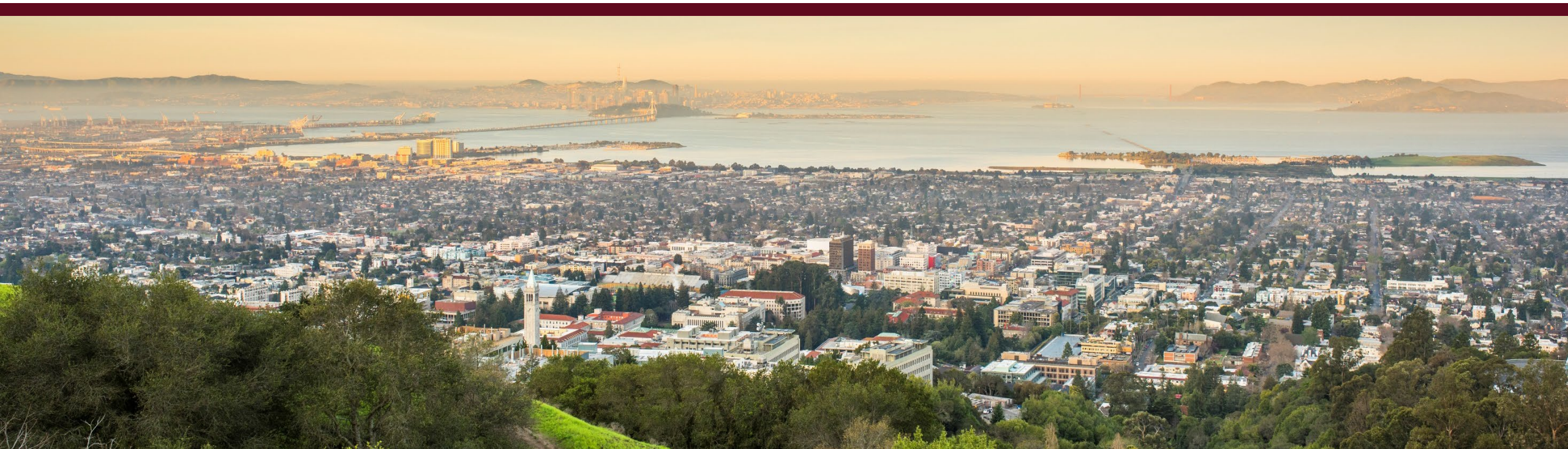


Climate Action and Resilience Update (2020 Greenhouse Gas Data)

June 20, 2023



Berkeley's Ambitious Climate Action Goals



- Climate Action Plan (2009)
- Fossil Fuel Free City (2018)
- Climate Emergency Declaration (2018)
- 100% Renewable Electricity by 2035 (2018)
- Net Zero Carbon Emissions by 2045 (2018)
- Race to Zero (2021)
- National Building Performance Standards Coalition (2023)



Equity Guardrails



**ACCESS TO HEALTH,
SAFETY & MOBILITY
BENEFITS**



**ACCESS TO ECONOMIC
BENEFITS**

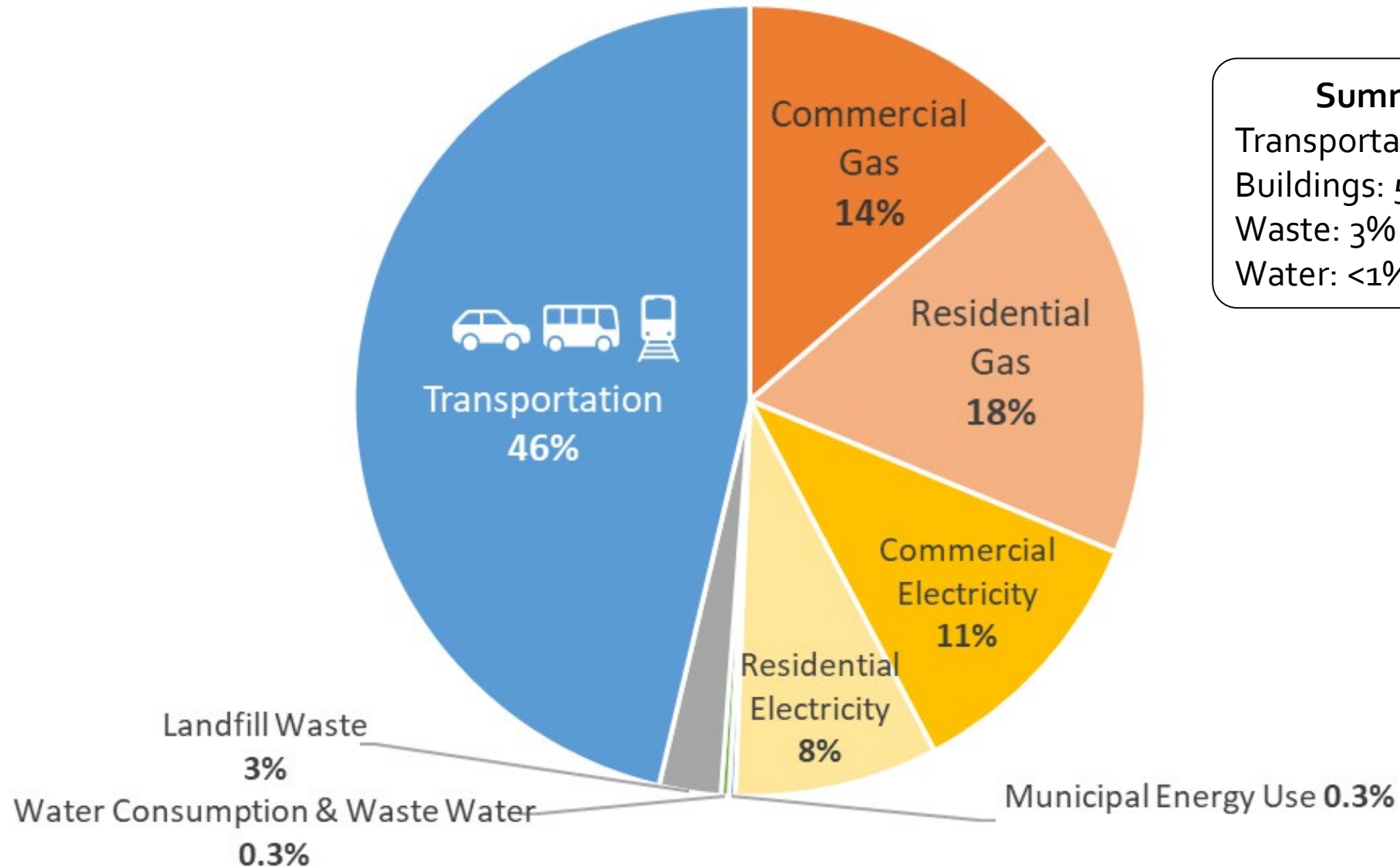


**MAXIMIZE EASE OF
PARTICIPATION**



**PROMOTE HOUSING
AFFORDABILITY &
ANTI-DISPLACEMENT**

2020 Greenhouse Gas Emissions Inventory

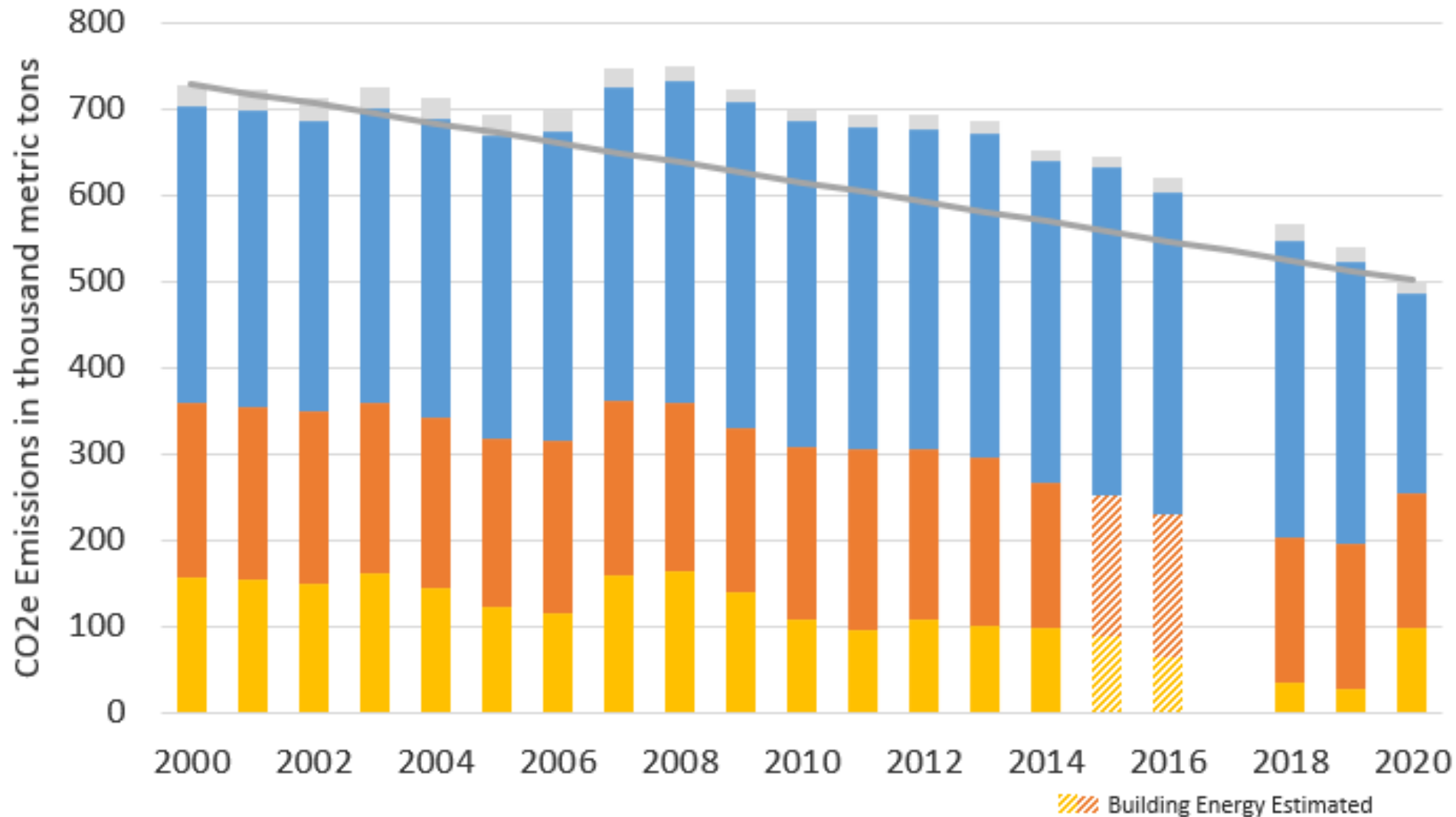


Note: UC Berkeley and the Berkeley Lab are not included in the GHG inventory

2020 Greenhouse Gas Emissions Inventory



Community-Wide Emissions



Since 2000...

↓ 31%



Waste & Water



Transportation



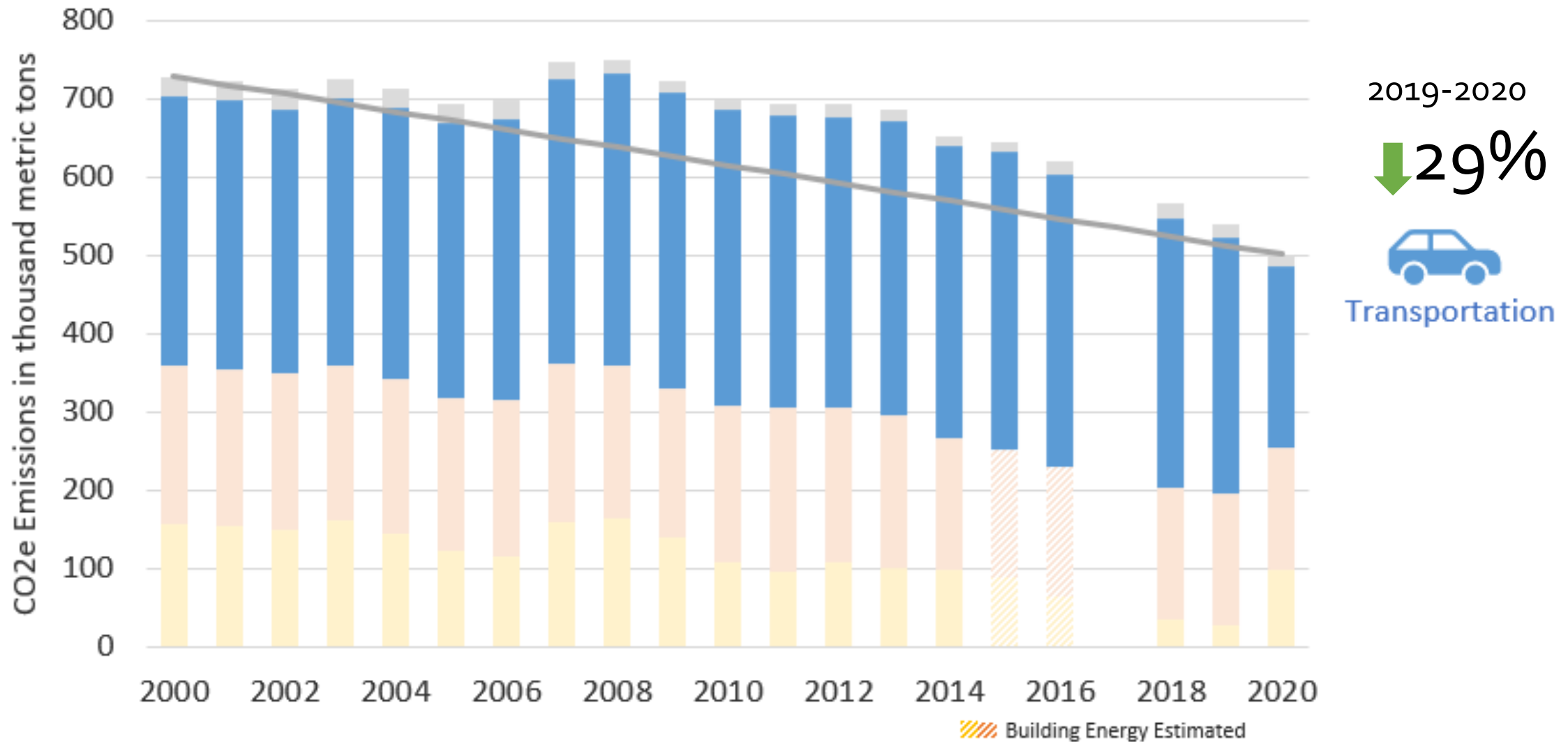
Gas



Electricity

2020 Greenhouse Gas Emissions Inventory

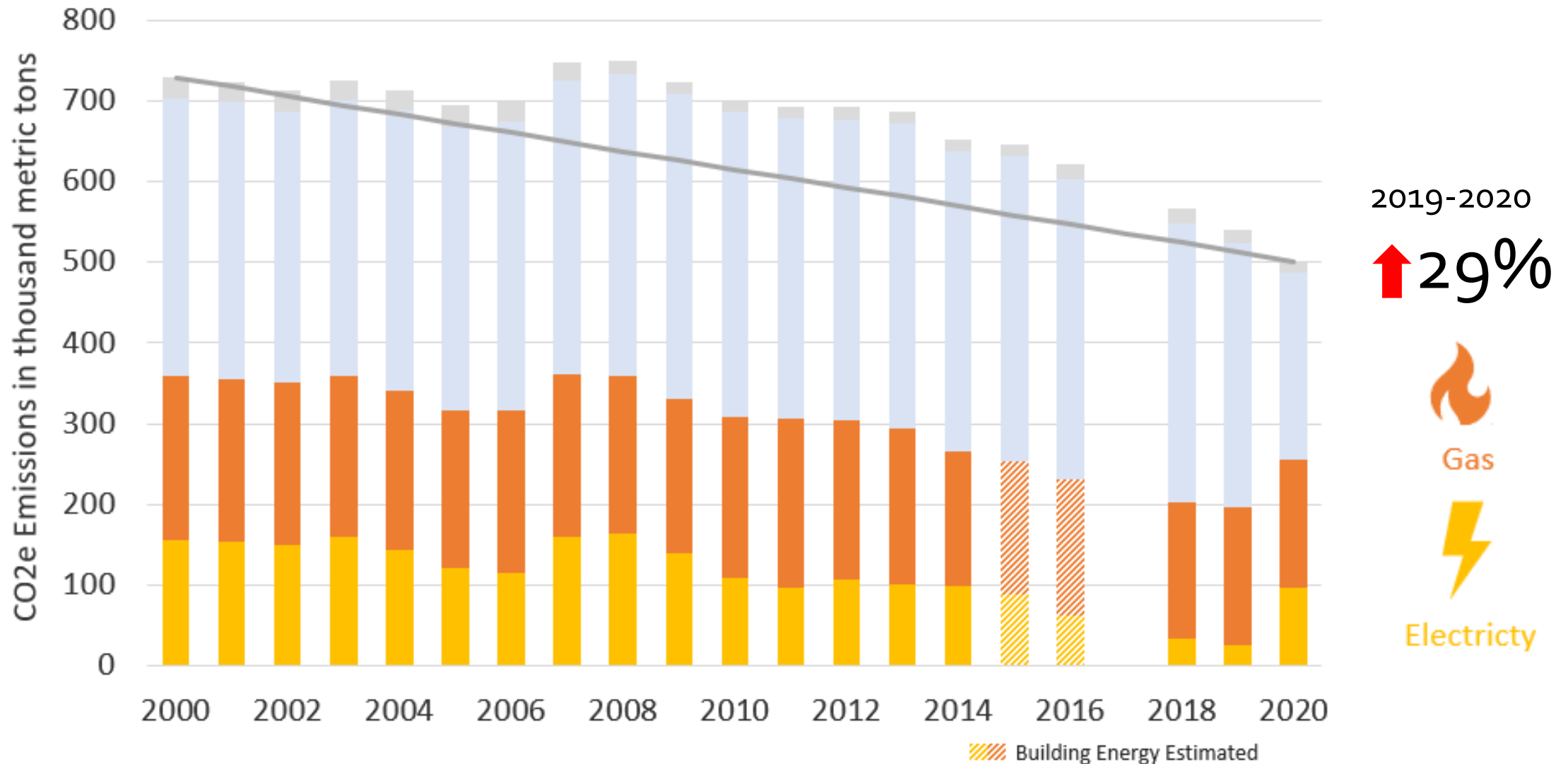
Community-Wide Emissions



2020 Greenhouse Gas Emissions Inventory



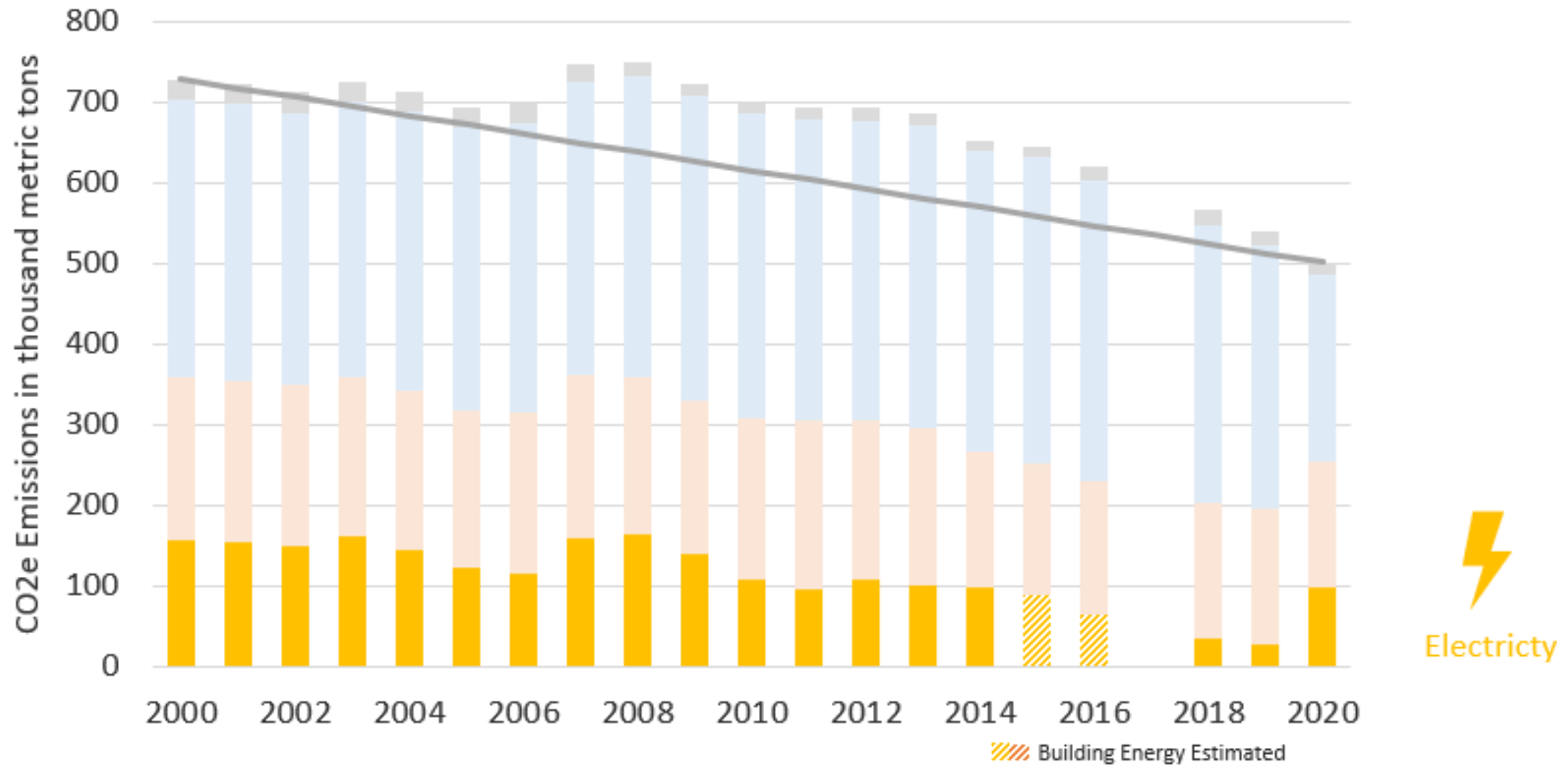
Community-Wide Emissions



2020 Greenhouse Gas Emissions Inventory



Community-Wide Emissions



Initial Sector Indicators



Measuring Progress in the Transportation Sector

% Sustainable Trips



32%
in 2020²

Goal: Increase of share of trips taken on sustainable modes of transportation to 50% by 2030 and 100% by 2040³

% 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 2025⁴

of Public DC Fast Chargers



22
in August 2022⁵

Goal: Install at least 100 public direct current fast chargers (DCFC) by 2025⁴

Measuring Progress in the Building Sector

Citywide Building Energy Usage from Gas Combustion



69%
in 2020

Goal: Decrease percentage of building energy from fossil fuel consumption, in the form of gas combustion, to 0 by 2045 while switching to clean electricity

BayREN Home+: # of Measures Completed



795
from 2019-2021

Goal: Increase BayREN Home+ participation

BayREN Multifamily: # of Units Participated



1,052
from 2014-2021

Goal: Increase BayREN Multifamily participation and upgrade more units to decrease energy use, emissions, and increase comfort

Total GHG emissions Saved through BayREN Upgrades



338_{mtCO2e}
from 2014-2021

Goal: Increase total GHG emissions saved through participation in BayREN Home+ and BayREN Multifamily

Transportation Sector Indicators



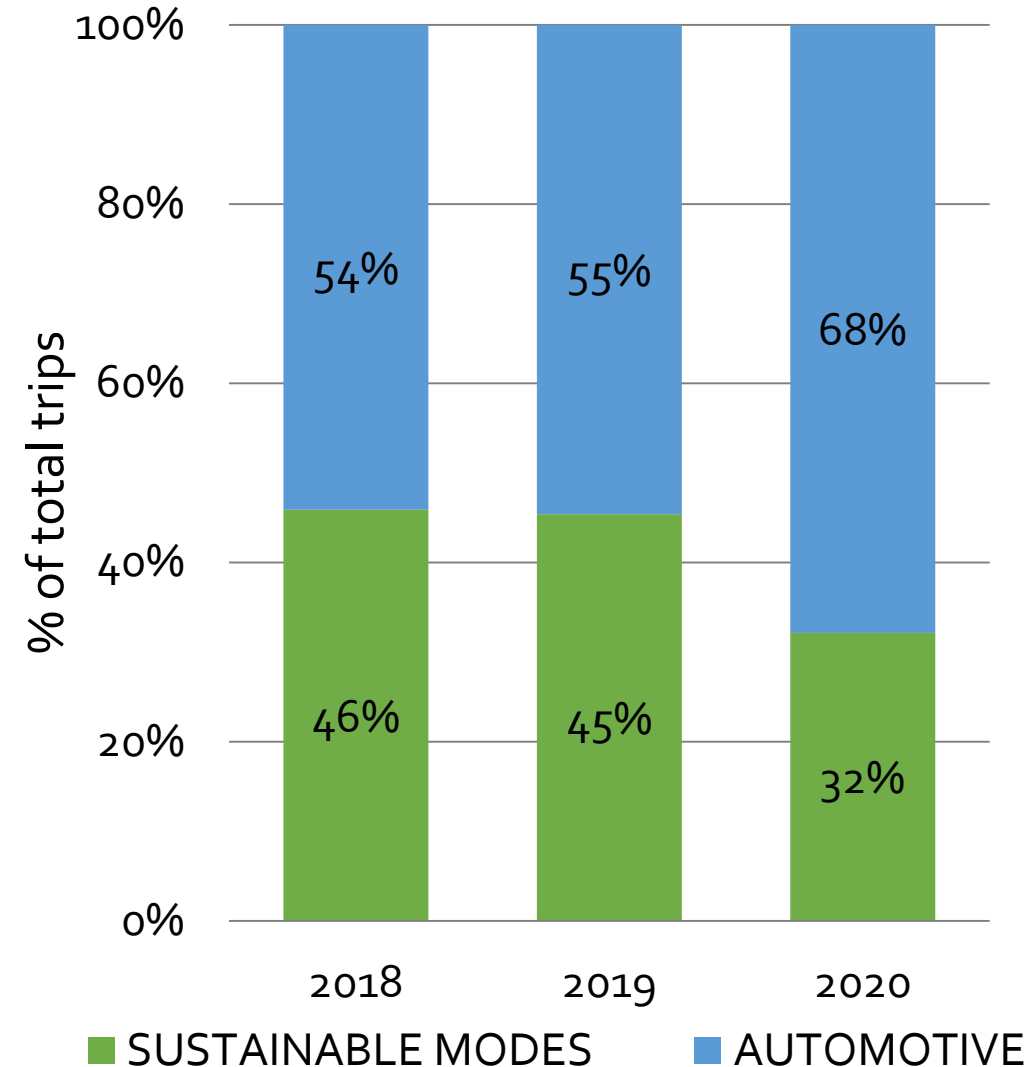
% Sustainable Trips



32%

in 2020

Goal: Increase of share of trips taken on sustainable modes of transportation to 50% by 2030 and 100% by 2040



Transportation Sector Indicators

% EV Adoption

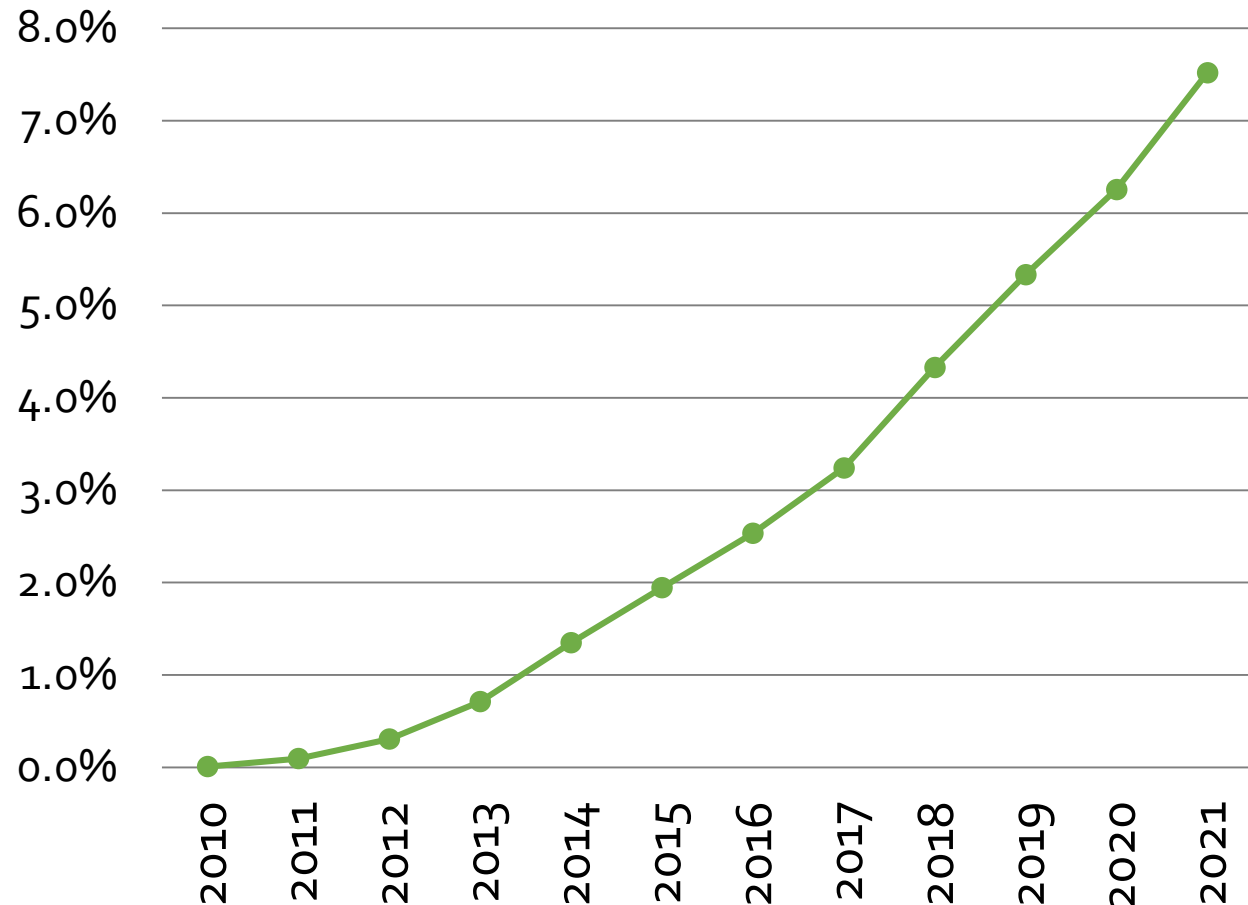


7.5%

in 2021

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

% Electric Vehicle Adoption



Building Sector Indicators



BayREN Home+: # of Measures Completed

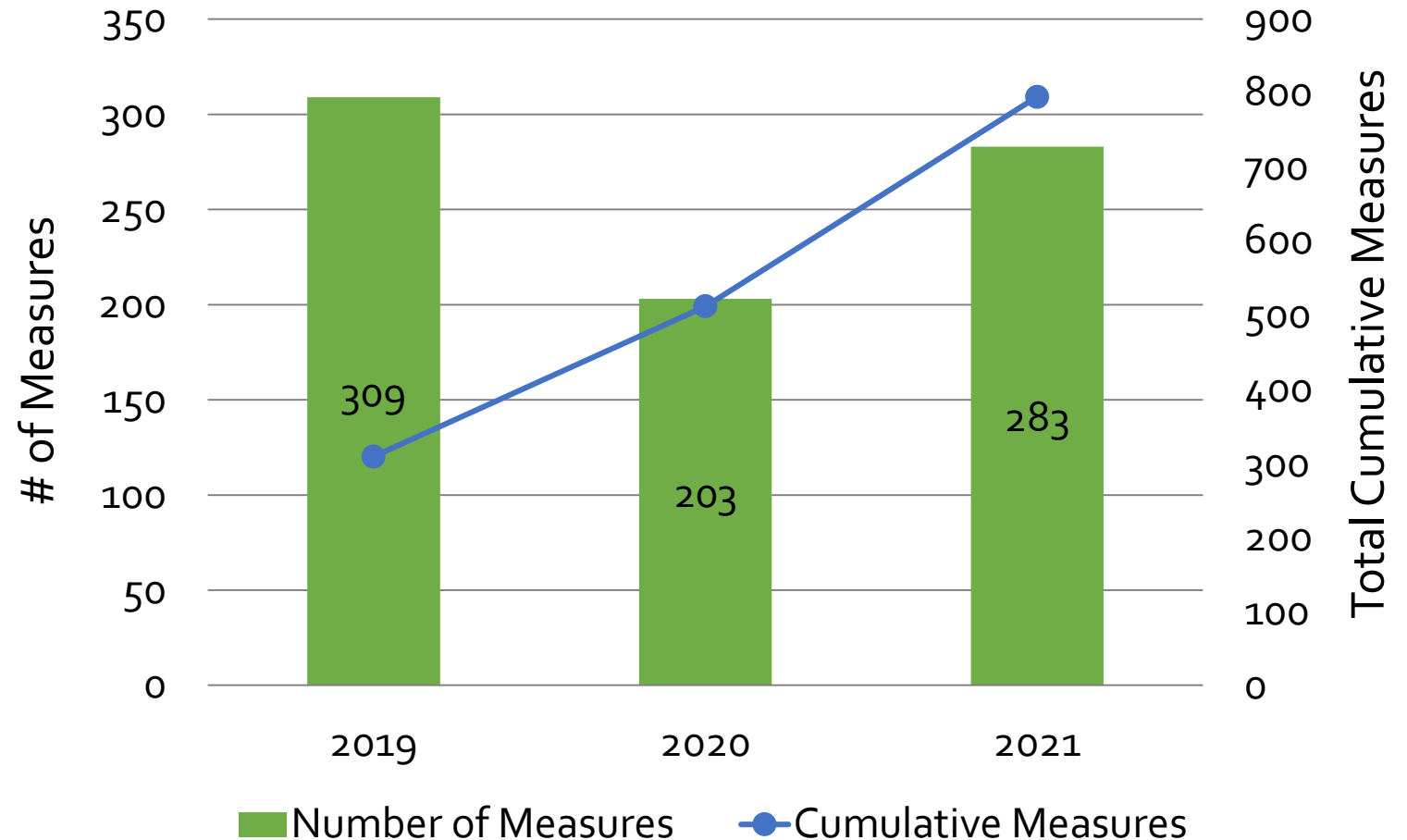


795

From 2019-2021

Goal: Increase BayREN Home+ participation

BayREN Home+ Participation

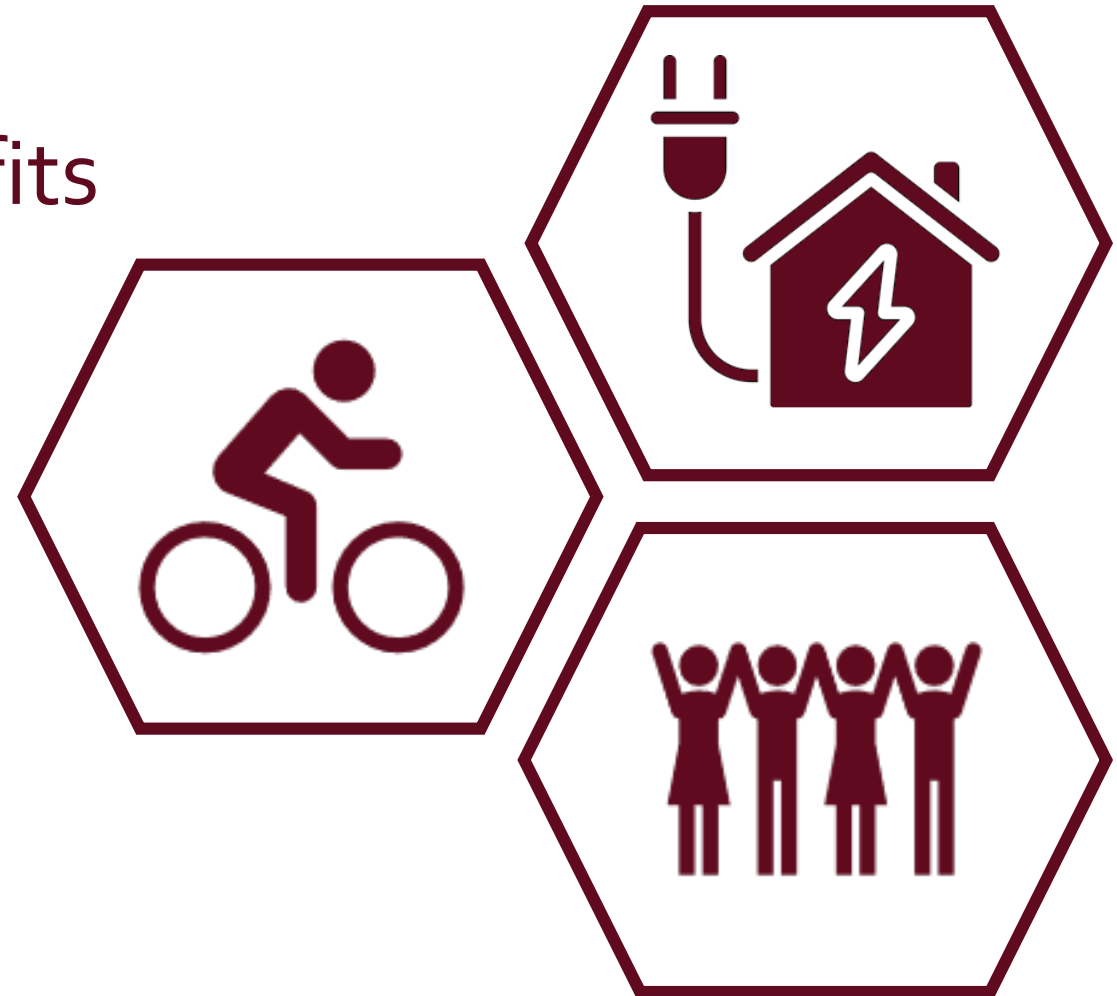


Climate Equity Fund Pilot Programs

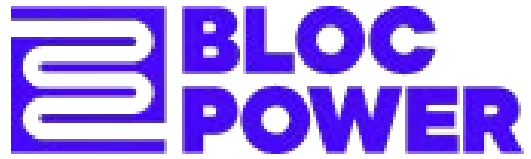


Provide climate & resilience benefits to low-income residents

1. Resilient Home Retrofits
2. Berkeley E-Bike Equity Project (BEEP)
3. Climate Equity Collaborative



1: Resilient Homes Retrofit Program



NORTHERN
CALIFORNIA
**LAND
TRUST**

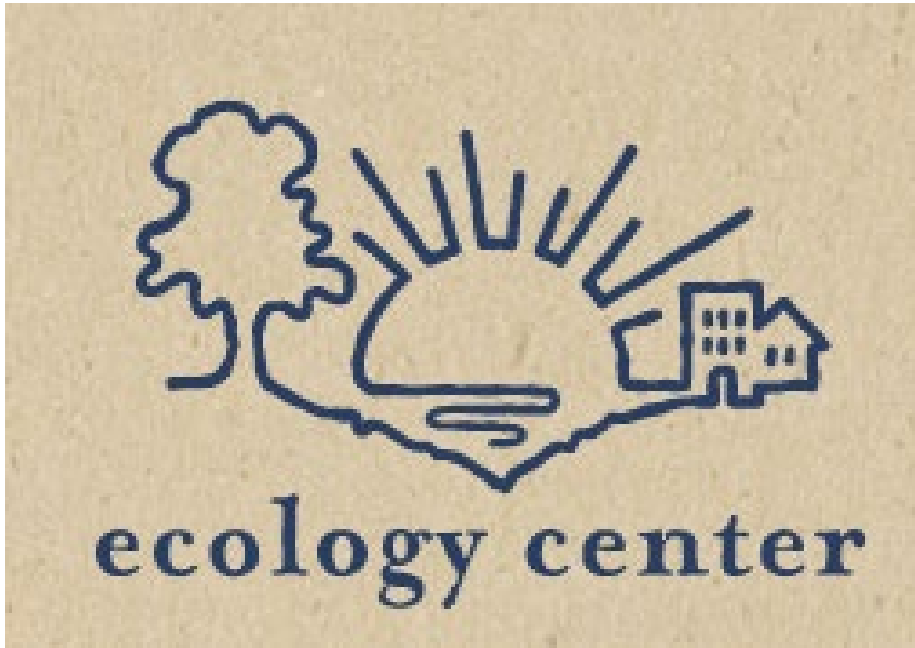


Photo: Northern California Land Trust

2: Berkeley E-Bike Equity Project (BEEP)



3. Climate Equity Collaborative



Community Engagement Through Art - Kala Art Institute



Photo by Nye' Lyn Tho



Cheryl Derricotte (she/her)
Climate Equity Fund Artist
<https://www.cherylderricottestudio.com>



Marcel Pardo Ariza (they/them)
San Pablo Avenue Specific Plan Artist
<https://www.marcelapardo.com>

Just Transition Pilot Implementation



 **Rebuilding Together.** East Bay North

CTWI



Leveraged Funding



- Urban Sustainability Directors Network Emergent Learning Fund: \$15,600
- UC Berkeley Chancellor's Grants:
 - Waterside Workshops: \$25,000
 - Ecology Center: \$25,000
- Resilient Community Innovation Funds: \$50,000
- CA Governor's Office of Planning & Research Adaptation Planning Grant Program: \$497,042 total
- ICLEI-Google Grant: \$20,000+

Need to identify long-term program funding

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WE BUILD IT TOGETHER



Municipal Energy Upgrades

All-Electric Building Retrofits

- Mental Health Clinic
- North Berkeley Senior Center

Energy Projects

- Induction kitchen replacement
- Heat pump water heaters
- Efficient lighting upgrades



Other Active Projects

- Building Emissions Saving Ordinance (BESO)
 - Develop Energy Upgrade Requirements
- Projects in partnership with East Bay Community Energy (EBCE)
 - Solar + Storage at Critical Municipal Facilities
 - Electric Vehicle (EV) Charging – DC Fast Charging Hubs



Thank You!



Office of Energy & Sustainable Development

- More information on green buildings: <https://berkeleyca.gov/construction-development/green-building>
- More information on electric mobility: <https://berkeleyca.gov/city-services/getting-around/electric-mobility>

Contact Info:

- Billi Romain (she/her) | bromain@berkeleyca.gov
- Ammon Reagan (he/him) | areagan@berkeleyca.gov

