



Austin Climate Equity Plan | *Quarterly Update*

Transportation Electrification

September 27, 2022



Climate Equity Plan Summary – Plan Focus Areas

5 Goal Areas

1 Consumption of Goods



2 Sustainable Buildings



3 Natural Systems



4 Transportation & Land Use



5 Transportation Electrification



Presentation Outline

- Plan Implementation Updates
- Transportation Electrification Focus
- State of the EV Marketplace & Federal Funding Landscape
 - *Laura Morrison, Texas Electric Transportation Resources Alliance (TxETRA) & Former Austin City Council member*
- Local Efforts
 - *Karl Popham, Austin Energy*
 - City of Austin Vehicle Fleet
 - CapMetro
- Next Steps



Plan Implementation Updates

- The **2nd Cohort of Community Climate Ambassadors** launched in August
- New Projects funded in FY23 Budget ready to launch (highlighted in the Net Zero section of the Budget Proposal)
- Starting this Fall, a new **Climate Equity Plan Community Task Force**, focused on measuring equity in implementation
- Next quarterly briefing proposed for January, to focus on **Sustainable Buildings**



The Implementation Dashboard is LIVE

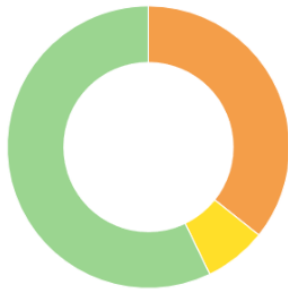
Work Status Summary

Transportation Electrification

Status available for
14 of 14
strategies.

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Number of Strategies

Status Coming Soon

Not Yet Started

5

Starting Soon

1

Underway / Ongoing

8

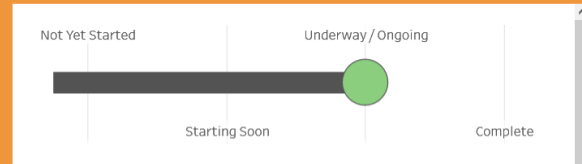
Complete



Strategy 1: Create a network with more low-cost, accessible charging stations

Continue to incentivize the installation of EV charging infrastructure by the City, businesses, auto manufacturers, and third-party charging companies to create a compelling (convenient, reliable, and low-cost) network accessible to all.

Work status



LINK: <https://bit.ly/ACEP-Dashboard>

Goal 1

By 2030, 40% of total vehicle miles traveled in Austin are electrified, and EV ownership is culturally, geographically, and economically diverse.

[Read strategy updates.](#)

Goal 2

By 2030, Austin has an equitably distributed mix of level 1, 2, and DC fast-charging stations to support more EVs on the road.

[Read strategy updates.](#)

Goal 3

The Austin-Round Rock-San Marcos area is a leader in transportation electrification through policies and technologies that support the growth of this emerging industry by 2030.

[Read strategy updates.](#)

Transportation Electrification – 3 Goals by 2030

40% total Austin VMT electrified, EV ownership culturally, geographically, economically diverse.

- Conduct EV Community Needs Assessment
- Create Equitable Incentives for Buying & Leasing EVs
- Reduce Tolls for EVs in Eastern Crescent
- Launch e-Bike + Electric Car Sharing Program
- Electrify Public Sector Fleets
- Electrify Private Sector Fleets

Austin has an equitably distributed mix of level 1, 2, & DC fast charging, to accommodate 40% of total vehicle miles traveled.

- Create Low-cost, Accessible Charging Station Network
- Incentivize Internet-Connected Smart Charging
- Adopt New Energy & Building Codes
- Expand Outreach to Underserved Groups

Austin-Round Rock-San Marcos area leads in transportation electrification, adopting policies & technologies that maximize economic & health benefits, supporting industry growth.

- Create Regional Coalition to Support EVs
- Pilot & Adopt New Technology
- Prioritize Just Transition
- Expand EV-related Business Ecosystem

*If we meet these goals,
we could reduce
community-wide GHG
emissions by 18% or 2.3
MMT by 2030.*

VMT = Vehicle Miles Traveled
EV = Electric Vehicle

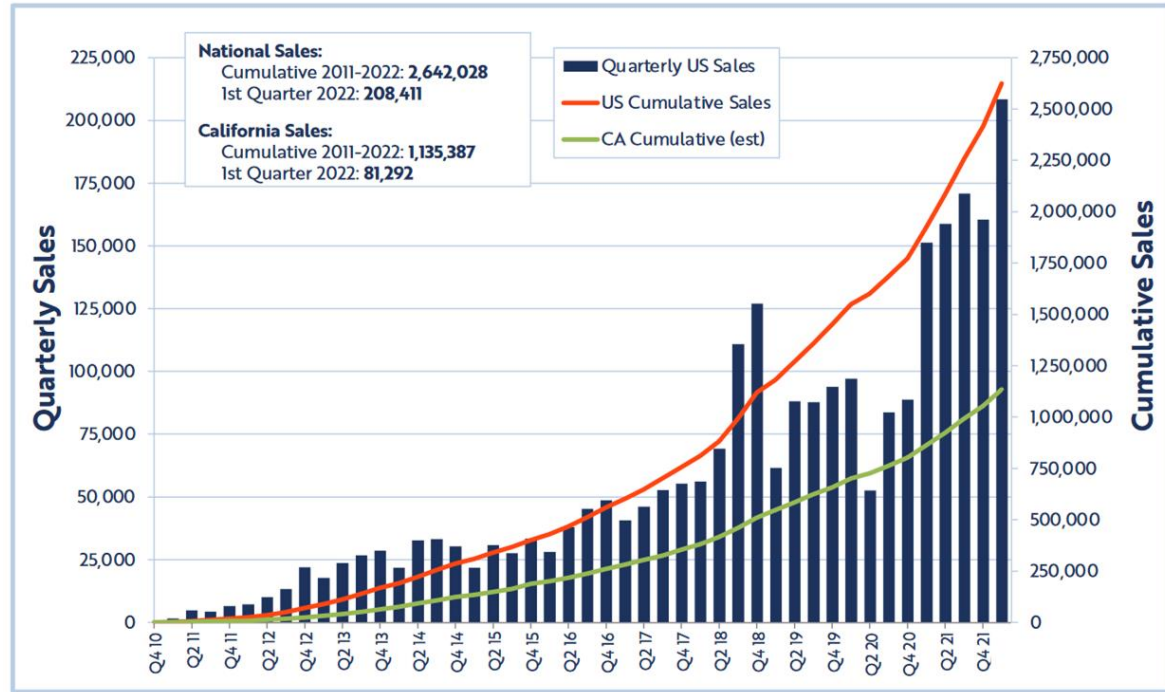
Context

- Not driving a car is the best option for climate change, but **cars are currently somewhat necessary** in Austin
- **Austin's transportation electrification goals** are some of the most aggressive in the country
- **Manufacturers and the market are moving quickly**, advancing faster by the day
- CA and other states are **banning the sale of new gas-powered vehicles by 2035**
- Currently, most new EVs are too expensive for most, need to **keep the focus on Equity** as this transition occurs
- **EVs support our local economy**, save users money on maintenance, reduce air pollution, support renewable energy, and cushion residents and businesses against fluctuating gas prices

Electric Vehicle Sales Trends



Electric Vehicle Sales in California and the U.S.

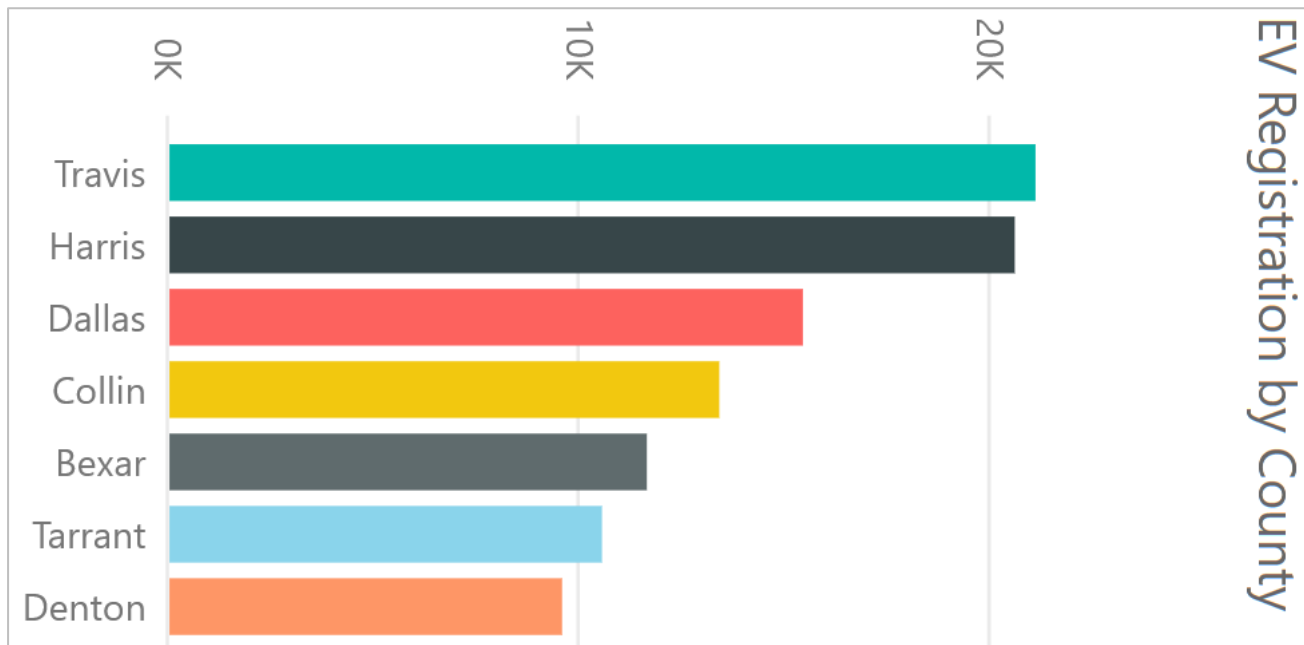


Note: According to California Air Resources Board data, California sales fluctuate between 40-50% of national sales.
Data source: California Energy Commission (2022). Retrieved April 22, 2022 from energy.ca.gov/zevstats.

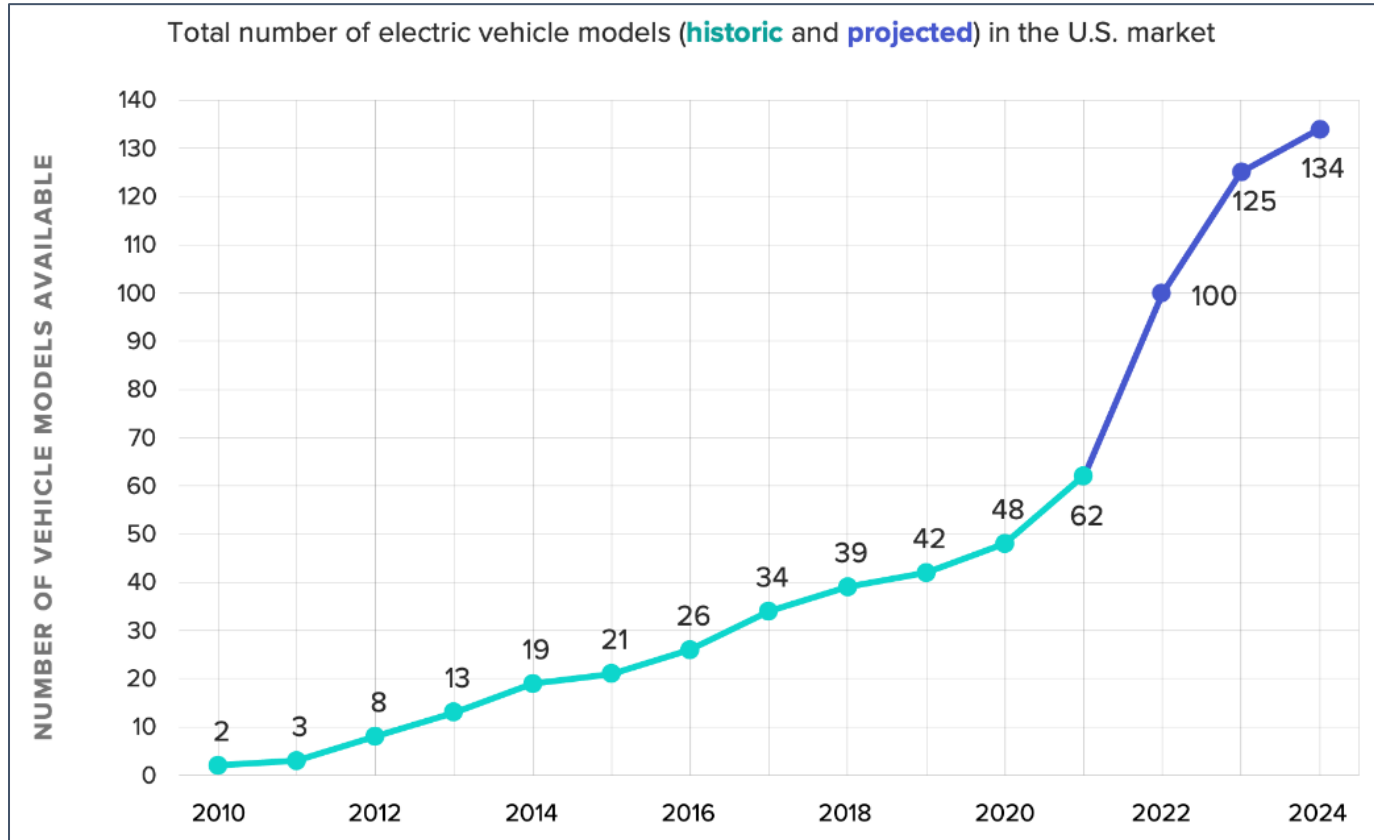
Q1 2022 data update.

Texas EV registrations increased ~ 40% *January - August 2022*

140,966 EVs in Texas as of August 10, 2022



Number of Available Models in the US



Advancing Electric Transportation in Texas

Federal Action & Incentives

- Biden Goal: 50% Light duty sales electric by 2030
- Chips & Science Act, August 2022
- Infrastructure Investment & Jobs Act, Fall 2021
 - National EV Infrastructure Program
 - Electric Buses and Electric School Buses
 - Battery Reuse and Recycling
 - Ports, Freight Electrification

Advancing Electric Transportation in Texas

\$7.5B National EV Infrastructure Program

\$2.5B: Discretionary Grant Program for Publicly Accessible Charging and Fueling Infrastructure

- **\$1.25B Corridor Charging Grant Program**
- **\$1.25B Community Charging Grant Program**

\$5B: National Electric Vehicle Infrastructure (NEVI) Formula Program

- **\$408M to Texas**
 - **~1/2 Funding:**
 - 55 public high-speed chargers: *Every 50 Miles along Alt-Fuel Corridors*
 - 190 rural high-speed Chargers
 - **~1/2 Funding: Metropolitan Planning Organizations**
 - **CAMPO's allocation: \$14.6M for installations, \$4.5M for O&M**

Advancing Electric Transportation in Texas

Federal action & incentives

Inflation Reduction Act, August 2022

- Light Duty Tax Credit (Rebate) – New & Used
- Commercial EV Tax Credit
- MD/HD Incentives for States, Muni, Indian Tribes, School Transportation providers
- Charging Station Tax Credit (Residential/Commercial)
- Funding for 100% Electrified Fleet for USPS
- \$3B for Port Electrification
- Green Bank Funding

Austin Energy "5 EV Pillar" Strategy



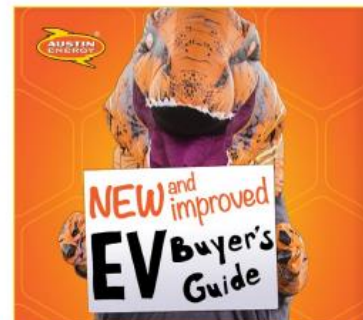
Charging Infrastructure



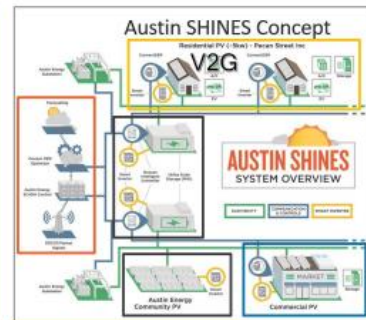
Equity & Affordability



Fleets & New Mobility



Outreach & Education



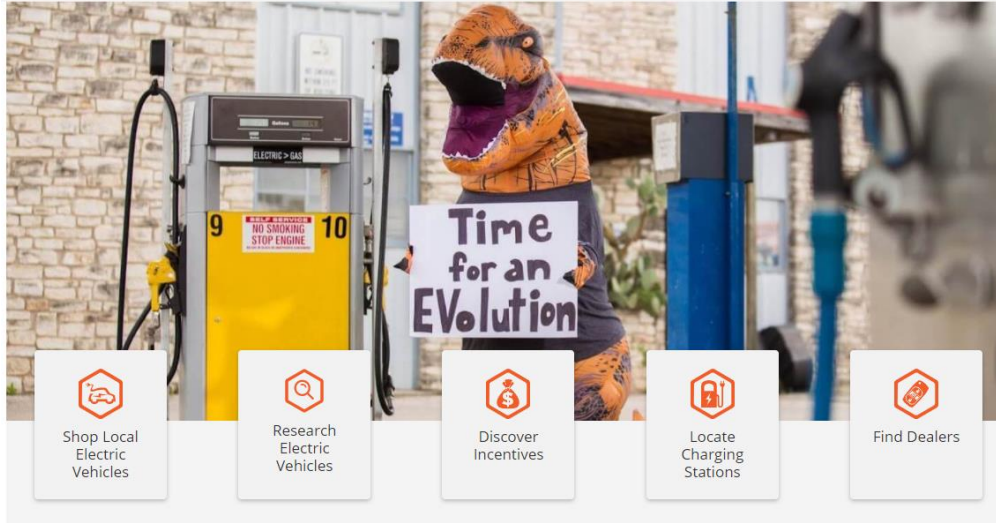
Grid Integration



Austin Energy EV Buyers Guide



[Home](#) [Shop Local EVs](#) [Electric Vehicles](#) [Incentives](#) [Charging Stations](#) [EV Facts](#) [FAQ](#)



ev.austinenergy.com

10,000+ unique visitors per month that helps drive 1,000 registered EVs per month

- Real-time inventory, new & used
- Companion app and dealership “in-store” kiosk
- Information on local, state, and national programs and incentives
- Comparison tools and cost calculators for other EVs and gas vehicles
- Public charging map

Austin Energy “EVs for Schools” Program

“EVs for Schools” pilot prioritized deployment for economically disadvantaged students at title-one schools

- Program accelerated from 4 original pilot schools to 140+ in Central Texas
- As a response to COVID19, course was made online and free of charge to families nationally
- Offered in English and Spanish
- Companion Virtual Reality (VR) experience/gamification
- Curriculum incorporated by other communities & districts nationwide

Austin American-Statesman

Charging stations at schools to power electric vehicles, student minds

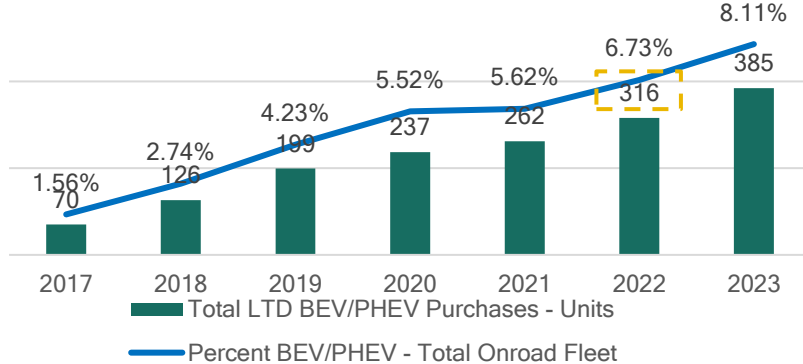


City of Austin BEV Fleet Program

Steady Progress – Ahead of Savings Plan!

Fleet BEV Deployment

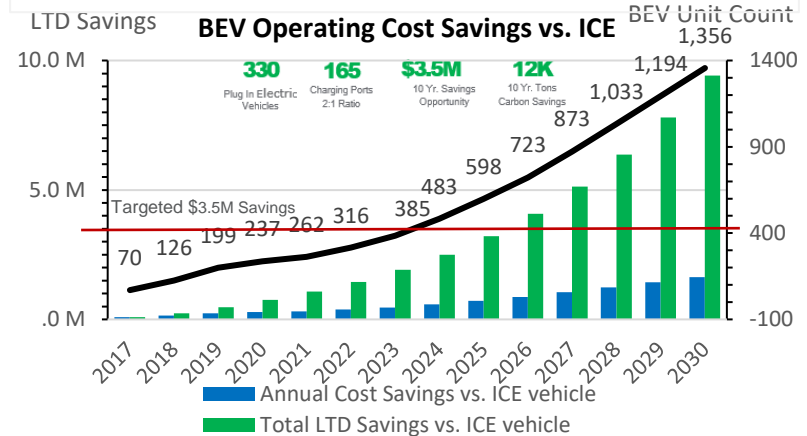
BEV In-Service | Percent On-Road



FY22: Total Forecasted Deployment: 316
Percent On-road Fleet: 6.73%

FY23: Forecasted Deployment: 385
Purchase Forecast: 69, \$3.4M

Program Savings



FY22: 316 BEV in service end of year; LTD Operating Cost Savings vs. ICE \$1.4M

Ahead of Planned Savings of \$3.5M in 10 Yrs.
2026 Will exceed original 10-year savings est. \$3.5M
12-18 months ahead of plan

CapMetro Bus Electrification



Completed:

- North Ops Bus Depot to power up to 187 electric buses with 100% renewable energy through Austin Energy's GreenChoice program
- Board approval to purchase an additional 197 e-Buses (12 in service)

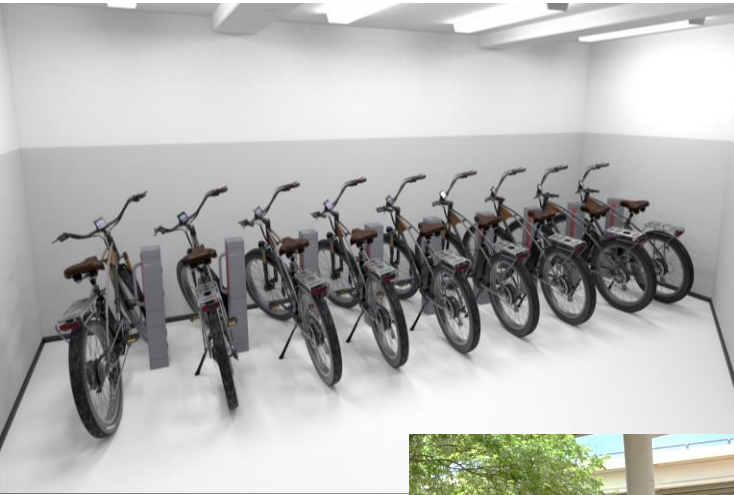
Planned by end of 2023:

- Two electrified bus rapid transit (BRT) lines; Pleasant Valley Metro and Expo Center Metro
- 70 e-Buses in service and 24 light-duty EVs in the fleet
- Expansion of bus electrification infrastructure at Central Bus Depot (2910 E. 5th)

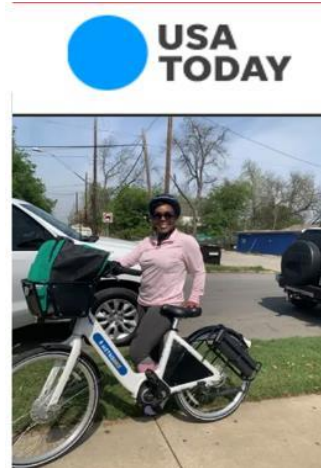
Future:

- Commitment to 100% zero emission (electric) bus fleet by 2035
- Commitment to zero emission light rail
- \$20 FTA Grant Award to build an electric-ready facility for MetroAccess and Pickup operations

Austin Energy “E-Bikes are for EVeryone” Campaign



- Austin Energy is leading a collaborative effort with MetroBike, CapMetro, and HACA to conduct e-Bike share access for residents in affordable housing
- Includes general public training (in-person and online videos) to promote e-Bike adoption & safety
- Developing an e-Bike pilot at a 75% Affordable Housing development (secured infrastructure and e-Bike)



Collaboration = Success

Critical to the success of the Austin Energy EV program is the wonderful partnerships with stakeholders to include:

Government

- Austin Transportation Dept
- Office of Sustainability
- City Fleet Mobility Services
- City of Austin Equity Office
- Housing Authority of Austin
- Travis County
- Congressman Lloyd Doggett's Office
- Austin Bergstrom International Airport
- CapMetro
- Texas Commission on Environmental Quality
- US Department of Energy

Education

- Austin Independent School District
- AISD Environmental Stewardship Action
- Pflugerville Independent School District
- Del Valle ISD
- EcoRise
- Huston-Tillotson University
- University of Texas LBJ School of Public Affairs
- E4 Youth
- Latinas
- Bike Texas
- Austin Community College

Community & Engagement

- TX Electric Transportation Alliance
- Austin Forum on Technology & Society
- Foundation Communities
- Chestnut Neighborhood Revitalization Corp
- Austin Pathways/Smart Mobility Ambassadors
- American Public Power Association
- TX Public Power Association
- Zpryme
- TX Energy Poverty Research Institute
- Electrify Expo @COTA
- Austin Auto Dealership Association
- CleanTX
- Local E-Bike retailers



Next Steps – Leverage Public-Private Partnerships

- Leverage the EV Buyer's Guide and encourage residents, businesses, and car dealerships to take advantage of tax credits, especially the \$4k "up front" credit for used EVs
- Partner with NGOs, School districts, and others to apply for federal funding
- Align with CAMPO, TXDOT, and other regional/state organizations
- Collaborate with housing providers on charging stations, Carshare, and e-bike infrastructure and outreach
- Further expand and develop educational outreach, EVs for Schools
- Austin Energy e-bike program revamp per Council resolution (November)
- CapMetro to finalize the design to deploy two fully-electric Bus Rapid Transit lines by FY23
- City Fleet to continue to expand EVs in operation



Thank you!



More information:

- austintexas.gov/climateplan
 - txetra.org
 - ev.austinenergy.com
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