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# Arapahoe County Regional Electric Vehicle Action Plan

March 11, 2024



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# TODAY'S OBJECTIVES

- Recap public process and what we heard from the public
- Review plan edits
- Discuss Implementation schedule
- Allow time for comments and questions







Source: Partners in Energy

# PUBLIC PROCESS

REGIONAL PLANNING  
THROUGH XCEL ENERGY'S  
PARTNERS IN ENERGY

# XCEL ENERGY'S PARTNERS IN ENERGY

- Partners in Energy is a collaboration with Xcel Energy to develop and implement energy and electric vehicle plan strategies with communities and regions.
- Opportunity to engage stakeholders, create goals and strategies, and develop a work plan for success.
- Through this process, stakeholders developed regional electric vehicle strategies for Arapahoe County communities and implementation is expected to begin in April 2024.



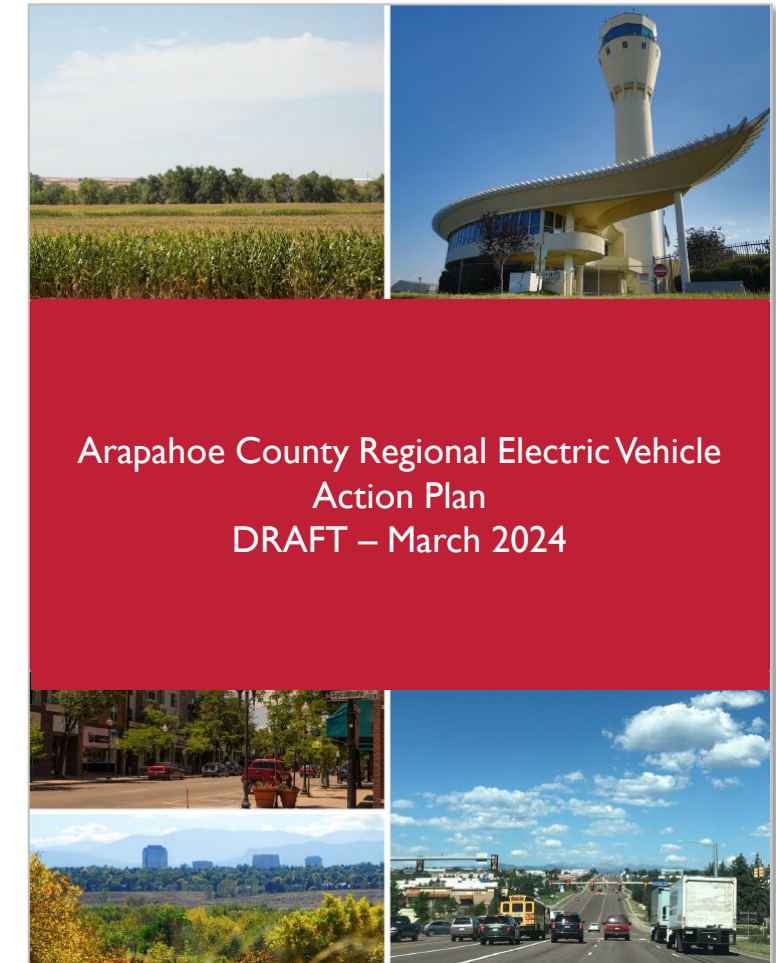
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# PLAN DEVELOPMENT PROCESS

- Developed through Xcel Energy Partners in Energy



# PUBLIC FEEDBACK PROCESS RECAP

## Virtual Public Event

- February 8, 2024
- Commissioners Campbell-Swanson and Baker participated
- Presented plan development and draft plan
- Nearly 600 attendees
- Gathered feedback from participants with live poll questions and live questions

## Public Comment

- Developed survey to collect feedback on the plan
- Opened comments on January 12<sup>th</sup> closed on February 29<sup>th</sup>
- Over 65 survey responses
- 20 questions
- Made revisions based on feedback



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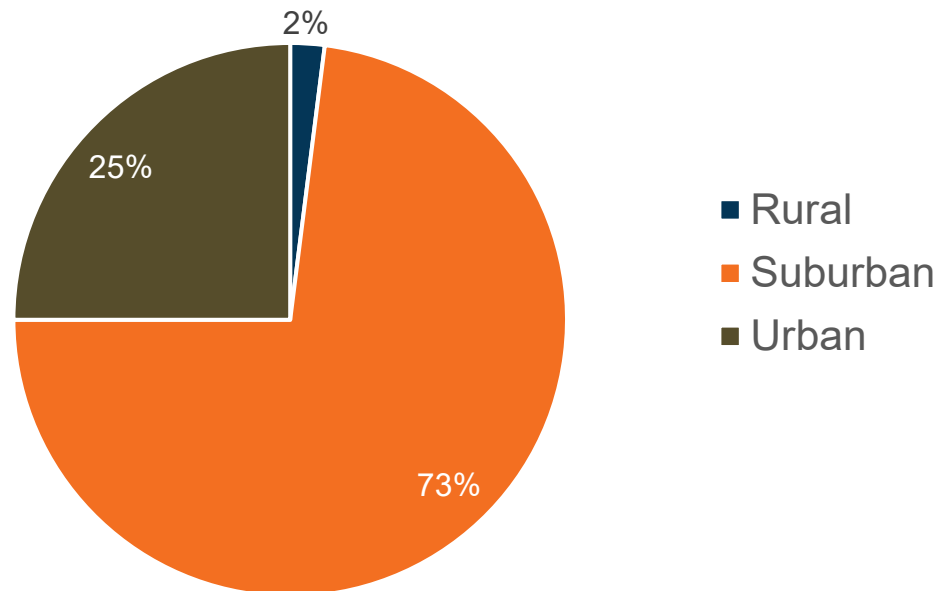
Source: Arapahoe County Government

## REVIEW: WHAT WE HEARD

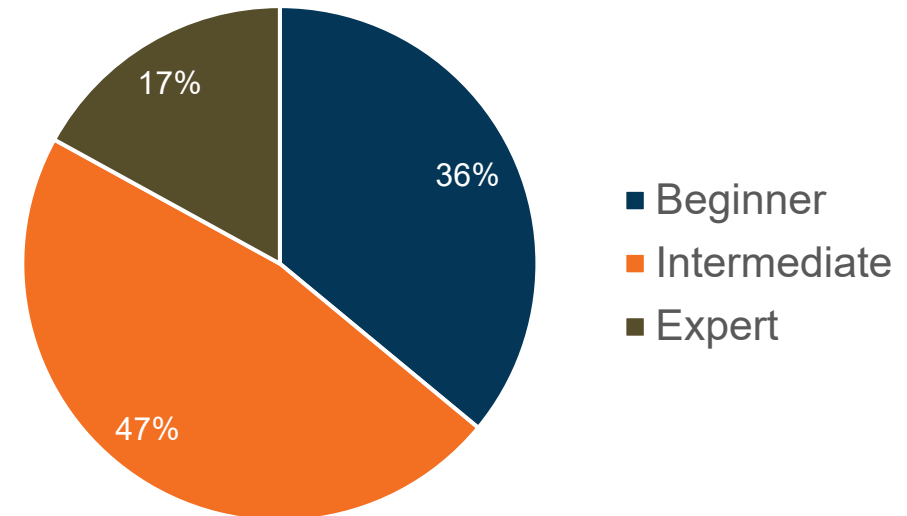
PUBLIC EVENT AND  
RESULTS FROM PUBLIC  
SURVEY

# PUBLIC EVENT POLLING QUESTIONS RESULTS

Geographical area that best describes where you live in the county



How would you rate your EV awareness?



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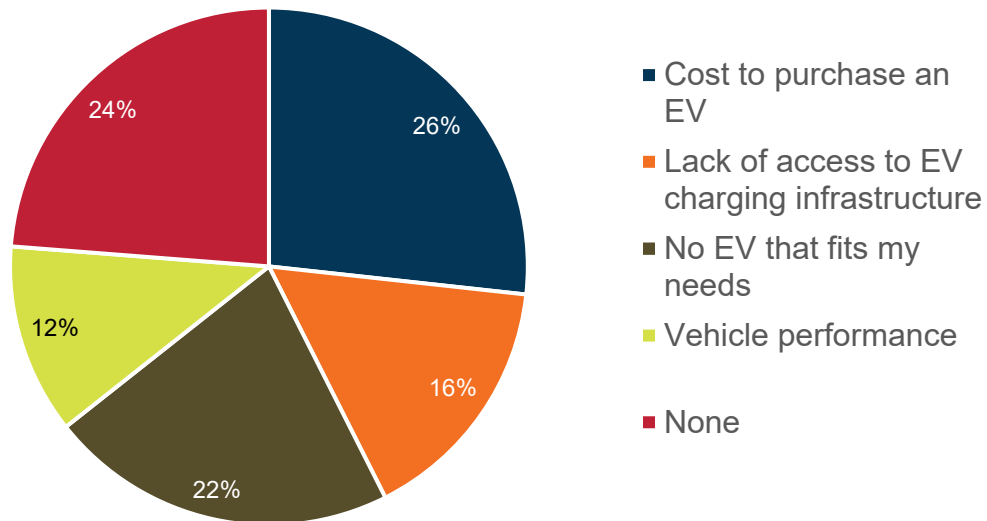


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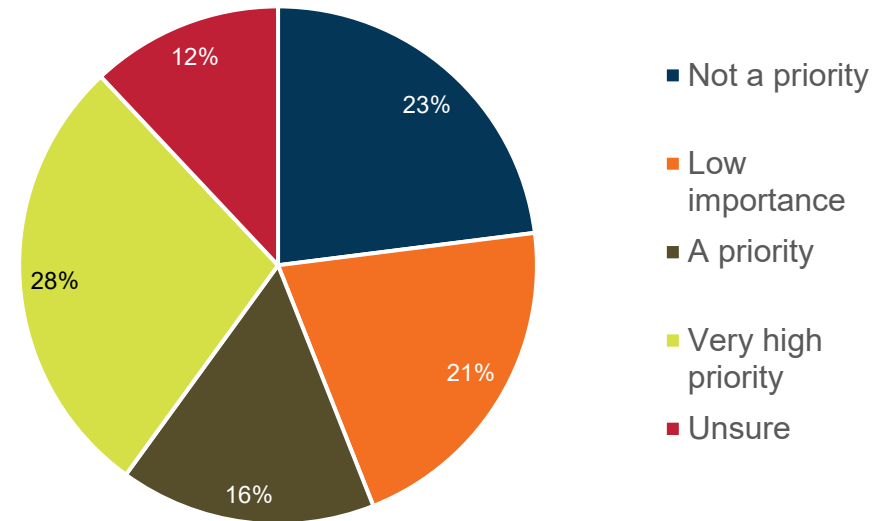


# PUBLIC EVENT POLLING QUESTIONS RESULTS

What is the biggest obstacle keeping you from leasing or owning an EV?



How important do you feel is it for local government to support electric vehicles?



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# EVENT QUESTION TOPICS

## EVs as one component of the overall transportation sector

- How electrified transportation is also part of transit and micromobility

## Electric grid

- Capacity

## Environmental Concerns about EV batteries

- Manufacturing and recycling

## Charging stations

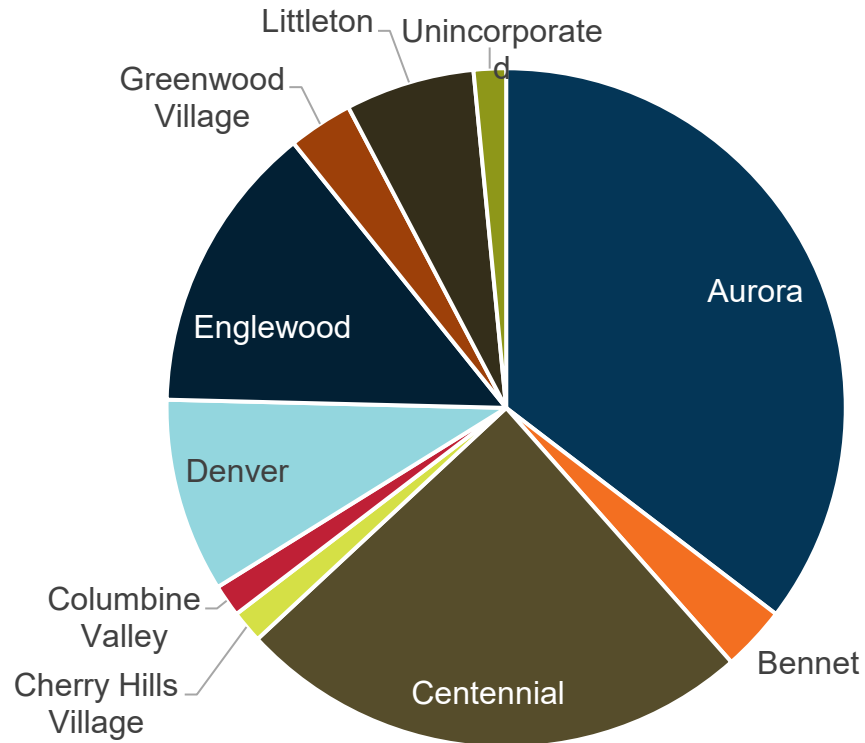
- Different levels needed and business models





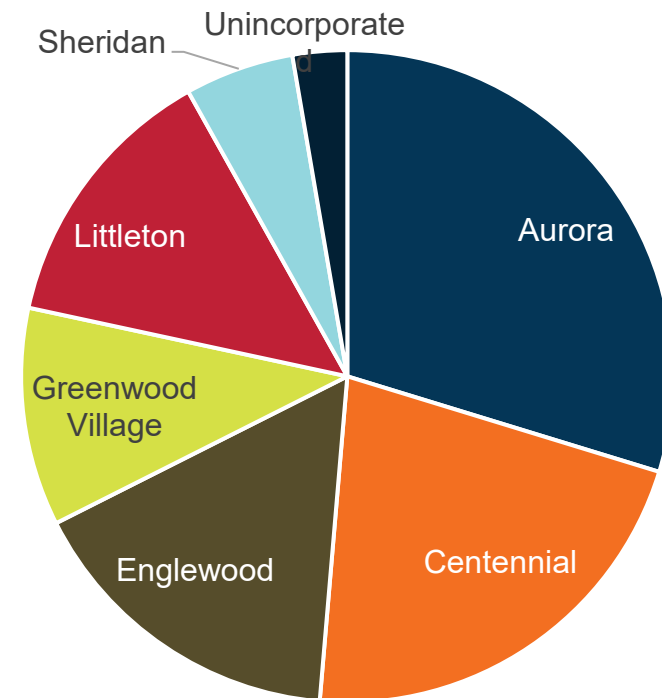
# SURVEY RESPONDENTS

## Where Respondents Live



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## Where Respondents Work\*



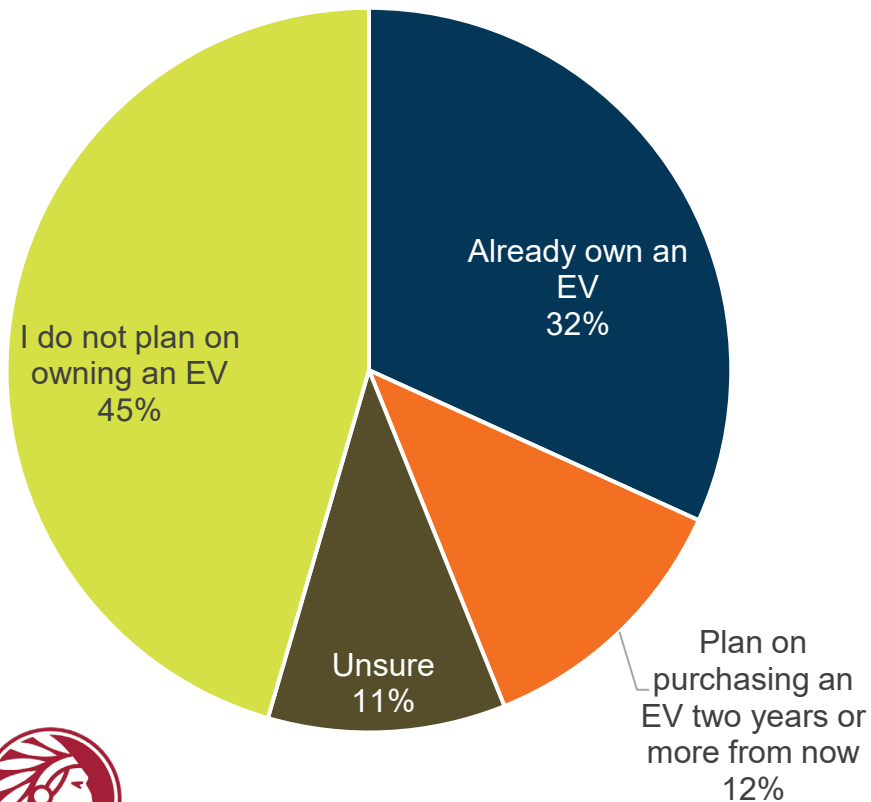
\*Only includes those that indicated where they work. Some respondents do not currently work (i.e., retired) and did not list a location.



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# EV OWNERSHIP AND BARRIERS

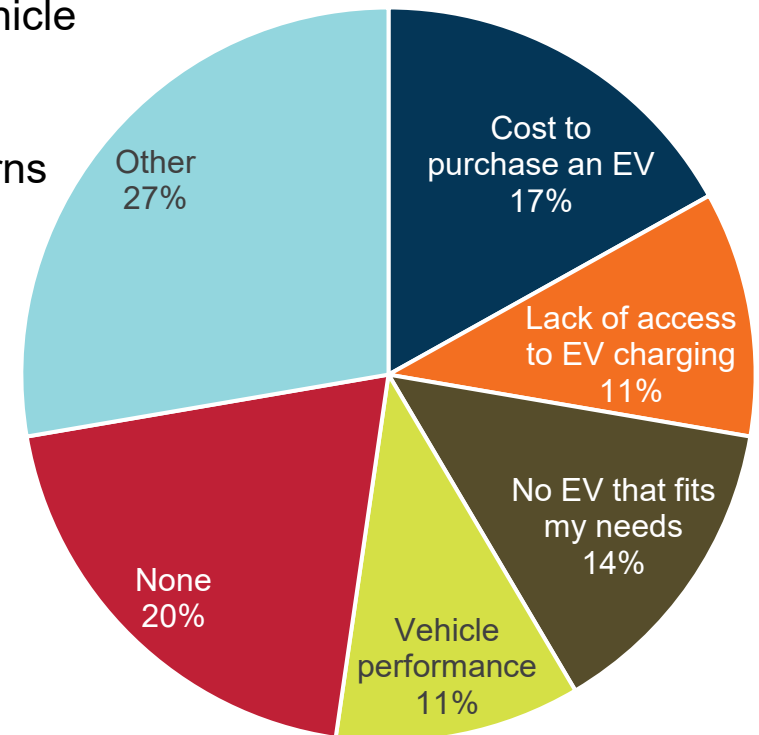
## EV Ownership



### “Other” responses

- not in market for vehicle
- don't drive enough
- battery concerns
- performance concerns

## EV Barriers



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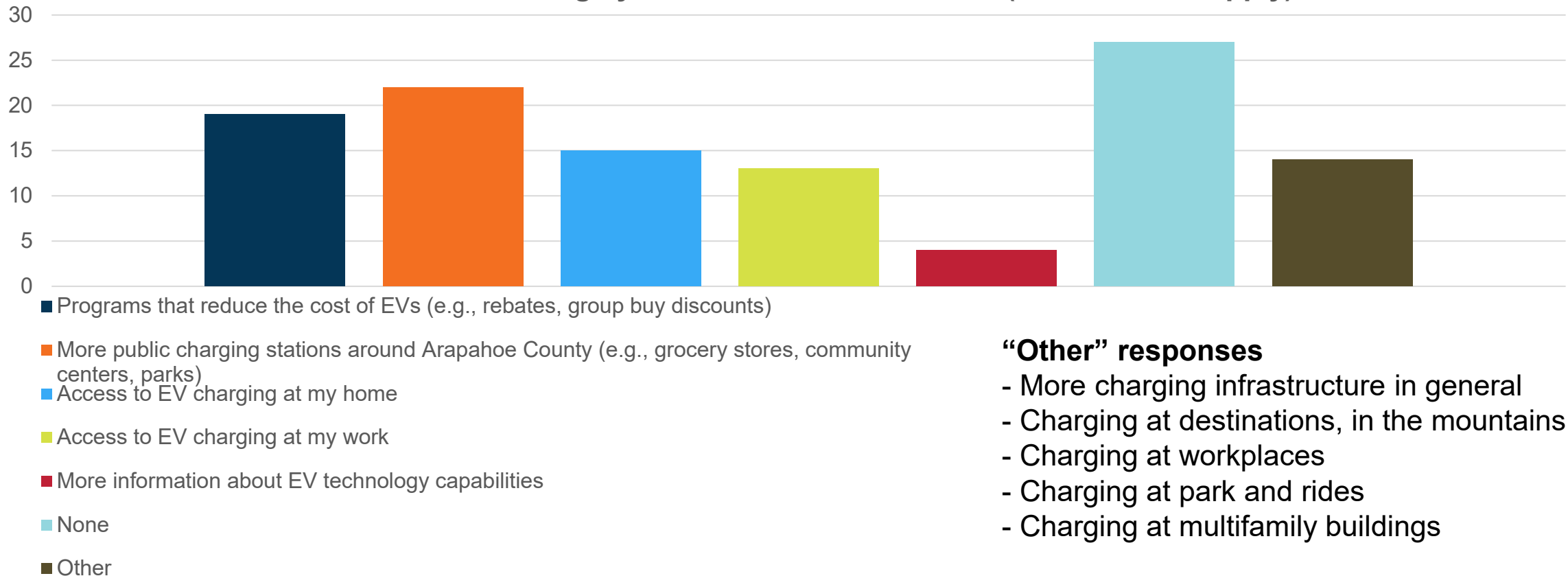


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# WHAT WOULD ENCOURAGE YOU TO OWN OR LEASE AN EV?

What would encourage you to own or lease an EV? (select all that apply)



## “Other” responses

- More charging infrastructure in general
- Charging at destinations, in the mountains
- Charging at workplaces
- Charging at park and rides
- Charging at multifamily buildings

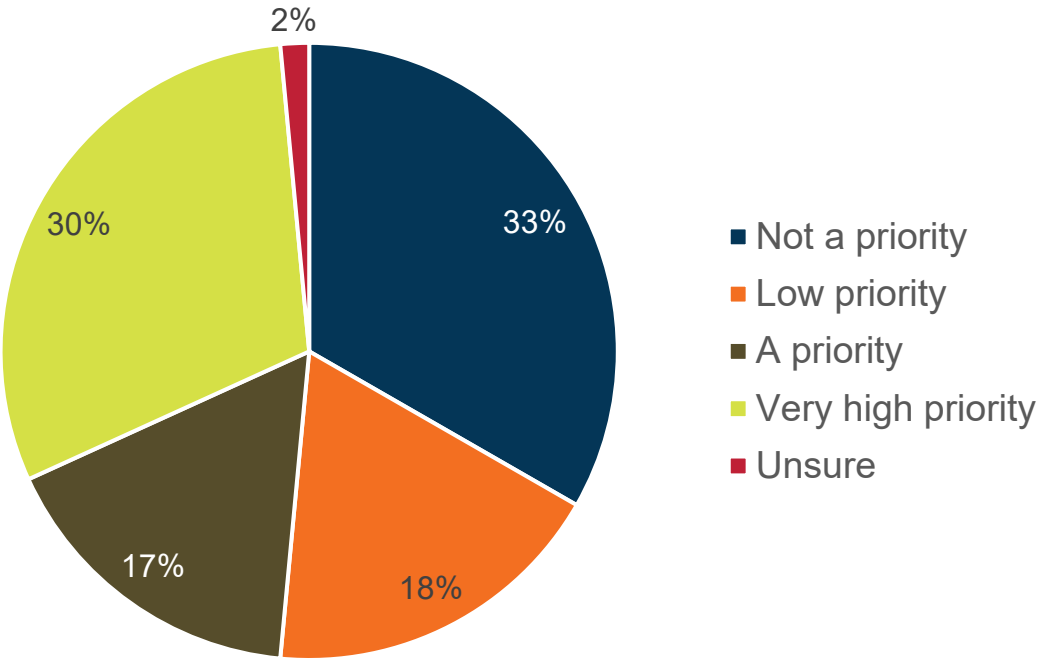


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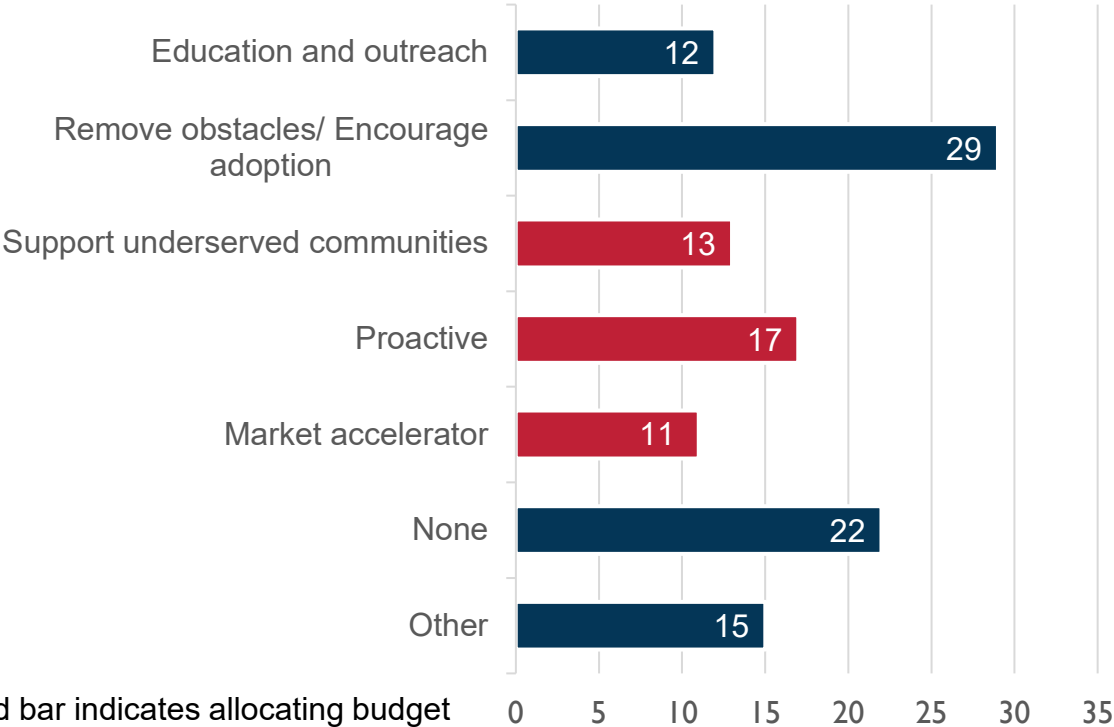
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# WHAT IS THE PRIORITY FOR ELECTRIFYING THE TRANSPORTATION SYSTEM?



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# COUNTY GOVERNMENT’S ROLE IN ELECTRIFIED TRANSPORTATION?



Red bar indicates allocating budget for EV infrastructure and adoption



# GENERAL THEMES FROM COMMENTS

Need to define: “public charging station”

The County should be supporting EVs to improve air quality.

The Plan describes the status of EV adoption and State projections and needs for EVs and charging infrastructure.

Also focus on other choices for transportation modes and impacts: transit and the frequency, e-bikes, bike paths, commute time.

The Plan’s Electric Multimodal Transportation focus area supports the County’s other transportation efforts such as the County’s Transit and Micromobility Study.

The County should not be spending resources on EVs.

The Plan calls for private sector support to install public EV charging infrastructure and identifies federal and state funding opportunities to reduce or eliminate installation costs.

Focus on providing cost-effective infrastructure at locations where Arapahoe County residents would like chargers.

The Public Charging focus area incorporated additional criteria for mapping from comments.



## OTHER COMMENTS

Negative Environmental Concerns (battery production/recycling/safety, tire ware, etc.)

Charger Reliability

Lack of access to electric mobility and inconsistent bike bath rules

County should stay out of the EV Business and funding, should be done by private industry

Reliability on Cold Weather

Other great options out there to reduce travel cost besides EV like hybrids





Source: Arapahoe County Government

# ARAPAHOE COUNTY REGIONAL ELECTRIC VEHICLE ACTION PLAN EDITS

## WHAT CHANGED IN THE PLAN?



# REGIONAL ELECTRIC VEHICLE ACTION PLAN OVERVIEW

## Executive Summary

- Narrative summary of the plan.

## Introduction

- Case for a regional transportation electrification plan.

## Where We Are Now

- Outlines current levels of EV adoption and public charging, along with other existing efforts.

## Where We Are Going

- Vision and EV adoption and EV charger projections.

## How Do We Get There

- **Strategies and implementation details** – denotes high level plan with costs to be determined as part of implementation.

## How We Stay On Course

- Outlines how the City will track progress toward Arapahoe County's EV vision, and how it will adapt to a changing landscape during implementation.

## Appendices

- Electric Vehicles 101, Arapahoe County EV Baseline, **Supplemental Information, Public Feedback Process**, Works Cited.





# PLAN EDITS AND ADDITIONS

## Public charging

- Defined public charging station as a station that is publicly accessible

## Additions from comments

- Outreach and education materials (debunking myths, information on qualified installers and training topics)
- Public charging criteria - safety features (e.g., lighting, cameras)
- Engage disability advocates and organizations in electric multimodal transportation strategies

## County staff added to the supplemental report

- New section on guardrail impacts, lack of noise from EVs, car insurance impacts





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PLAN  
IMPLEMENTATION  
HOW WILL WE ACHIEVE OUR  
GOALS?

# IMPLEMENTATION ROLES – A COLLABORATIVE APPROACH



# IMPLEMENTATION THOUGHTS

- PWD's concerns with timeline
  - Competing Priorities
  - Limited Resources
- Strategies – recommendation over the next 18 months
  - Outreach and Education
    - Develop material to address EV 101 (pros and cons), EV requirements for development and general public
  - Charging Infrastructure
    - Map existing and potential EV stations
    - EV Charging station outreach material for developers and homeowners (see above)
  - Fleet Electrification
    - Encourage public fleets to conduct fleet analyses to recommend opportunities for electrification
  - Electric Multimodal
    - Incorporate electric multimodal considerations into the Transit and MM Study



# PARTNERS IN ENERGY IMPLEMENTATION SUPPORT



## Project Management

Facilitating meetings  
Following up on action items



## Technical Expertise

Best practice research  
Monitoring funding  
Connecting to Xcel Energy EV  
program managers



## Joint Marketing and Outreach

Customizing and distributing  
materials



## Tracking and Reporting Progress Toward Metrics

Informing potential plan  
adjustments

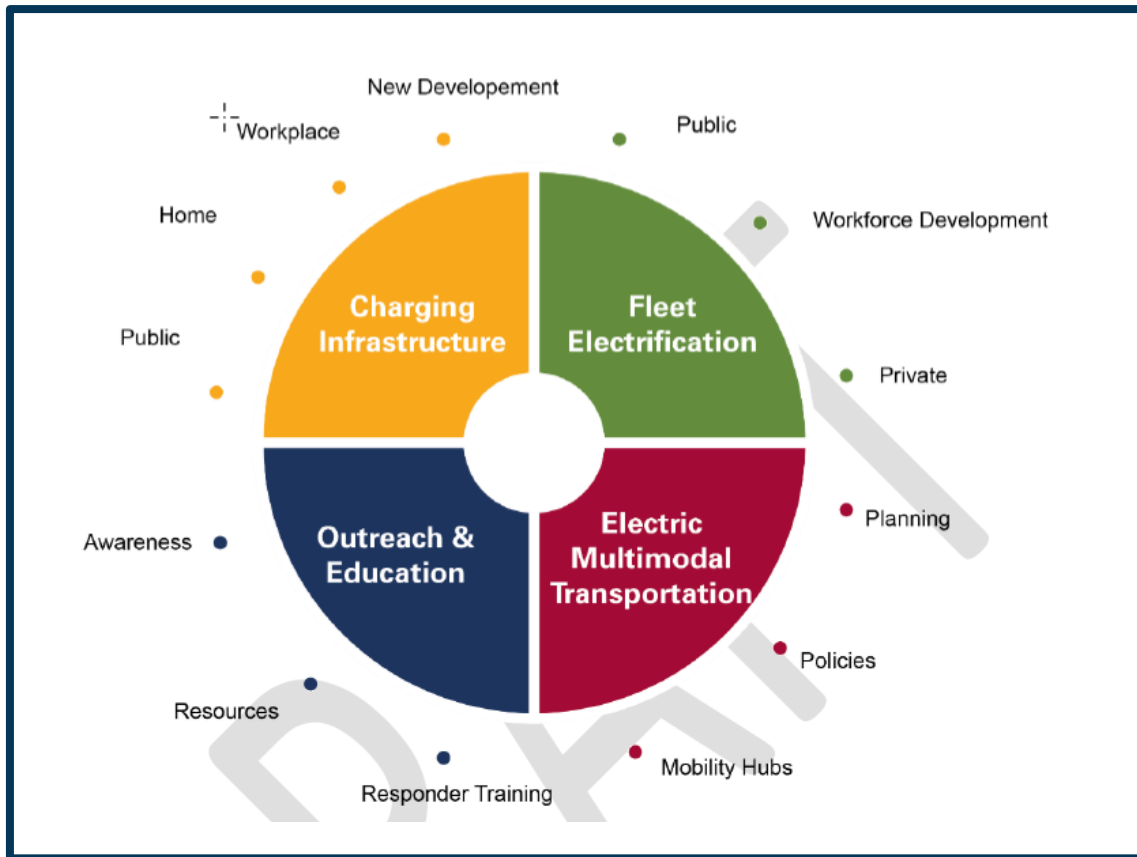


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# DIRECTION FROM THE BOCC



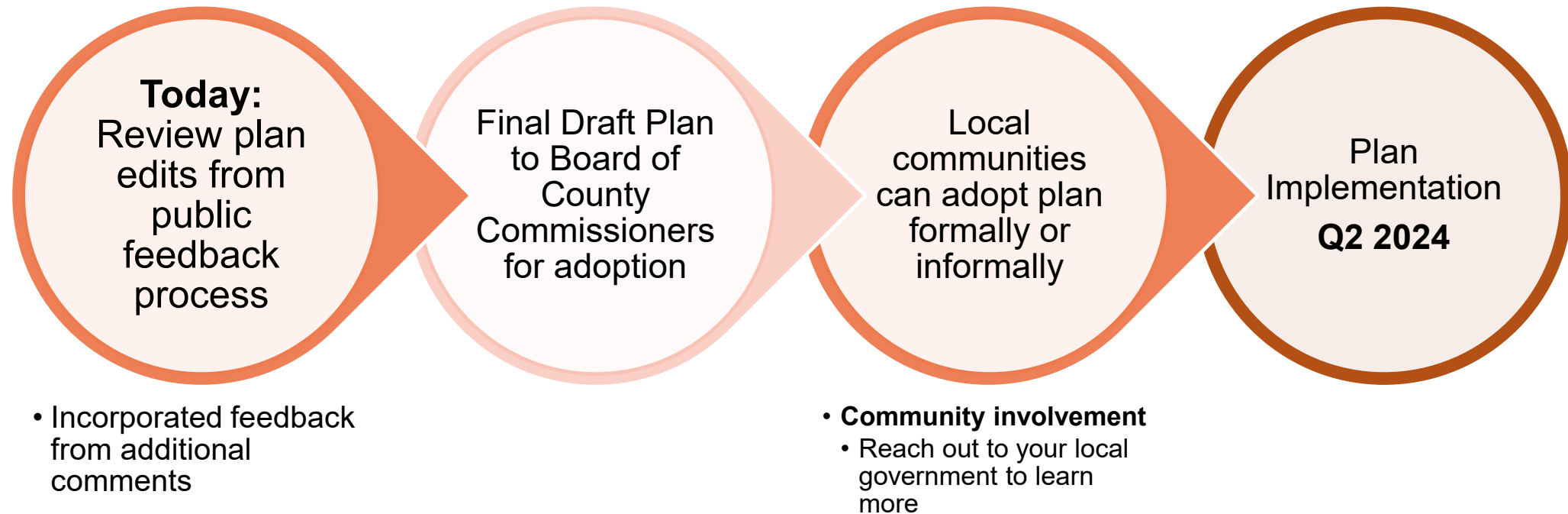
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- Does the BOCC have any changes to the draft plan?
- Is there support from the BOCC to move this forward for adoption?
- Is the BOCC comfortable with the proposed approach the County will take when implementing the EV Action Plan?
  - Concerns with Implementation Strategy and Timeframe?
  - Examples – develop communication resources, encourage fleet conversions, map charging stations within the County, support electric multimodal options in region



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## NEXT STEPS





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# QUESTIONS?