

- Welcome & Introductions
- Project Status Update
- Kick-off Meeting Recap
- Assessment Phase – Stakeholder Outreach
- Assessment Phase – Infrastructure Demand Analysis
- Next Steps & Action Items



Schedule



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 EVRSC Meeting

 Draft Roadmap

 Final Roadmap

Project Overview

- Background, History, Purpose, Objectives
- Steering Committee
- Project Approach

Discussion

- Key Challenges, Barriers & Strategies
- Roadmap Vision & Goals

High-Level Context

- EV roadmap is **just one piece of a larger transportation strategy**
 - Make transport faster, more convenient, and cleaner
 - Shift land use patterns to shorten trips and reduce the need to drive
 - Increase use of multimodal transportation (e.g., public transit, bikes)
 - Reduce VMT and trips in personal vehicles (esp. single-occupancy)
- To the extent that people continue to use personal/fleet vehicles, the City wants to support the use of electric EVs (air quality, climate, cost benefits)
- Scope of roadmap is focused on supporting current and future adoption of EVs, including on-road personal and fleet vehicles
 - Bicycles (including e-bikes) are outside the scope of this roadmap

DRAFT Vision & Goals

Residents, businesses, and visitors to Fort Collins will consider EVs as a preferred transportation option, on par with or preferred to gasoline- or diesel-powered vehicles.

1. Increase the percentage of vehicles owned and operated in Fort Collins that are plug-in electric.
2. Increase the percentage of vehicle miles traveled in Fort Collins that are electrified.
3. Reduce greenhouse gas and criteria air pollutant emissions from personal and fleet vehicles, while reducing community reliance on fossil fuels.
4. Make it easier and less expensive to buy or lease an EV, install EV charging infrastructure, and operate an EV in Fort Collins.
5. Make EVs and charging accessible to a broad range of users in an equitable way.
6. Improve EV awareness among residents, business, and visitors to Fort Collins.
7. Integrate EVs and the grid to minimize emissions, maximize resilience, and reduce costs.

Interviews & Discussions

Non-Profits/ Advocacy Groups

- Northern Colorado Clean Cities (NCCC)
- Drive Electric Northern Colorado (DENC)
- Southwest Energy Efficiency Project (SWEEP)

Community

- Community Questionnaire
- EV Enthusiasts
- Under-served populations

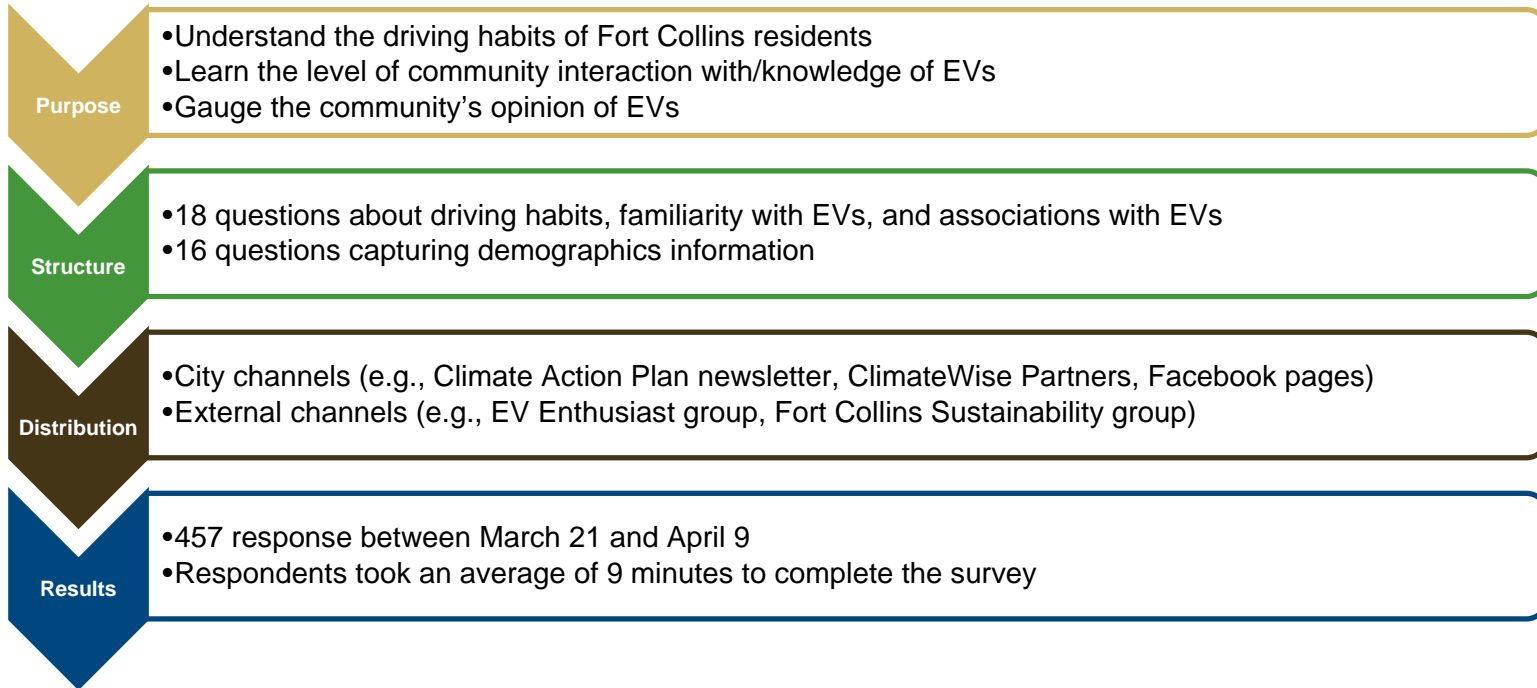
Stakeholders

- Platte River Power Authority
- Colorado State University
- Colorado State Energy Office

Local Businesses

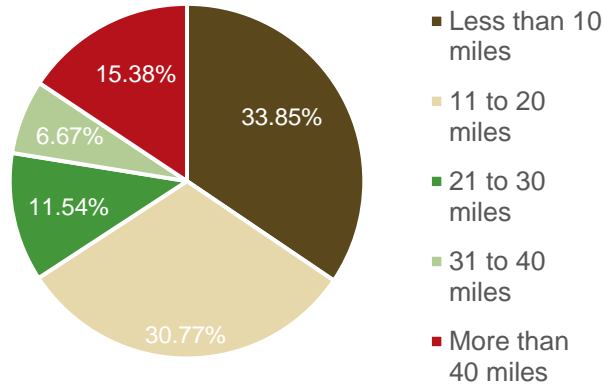
- Car dealerships
- Businesses
- Developers

Community Questionnaire: Background



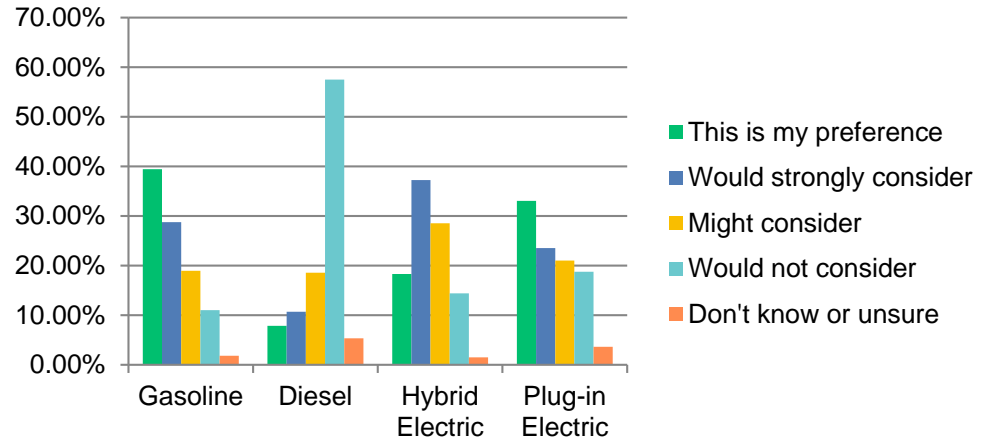
Community Questionnaire Results: Driving Habits, Vehicle Preference

Miles Driven on a Typical Week Day



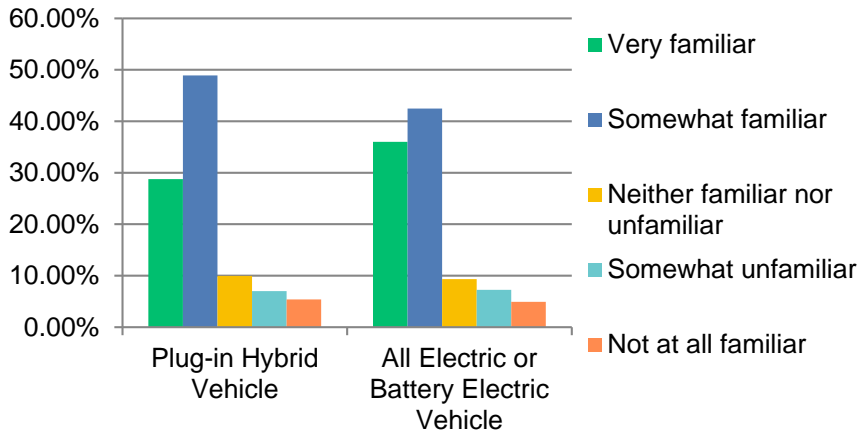
Median number of trips over 100 miles per year: 2.5

Which of the following fuel types would you consider for your next primary vehicle?



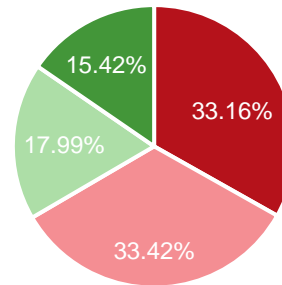
Community Questionnaire Results: EV Knowledge

How familiar are you with each of the following types of vehicle?

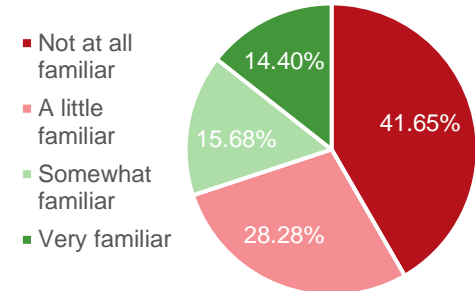


How familiar are you with incentives for EVs?

Federal Incentives



State Incentives



Community Questionnaire Results: Opinions of EVs

Top 3 Motivators

- Environmental impact
- Government incentives for purchasing
- Ability to charge at home

Top 3 Barriers

- Purchase price
- Number of public charging stations
- Vehicle range

Statement	% of Respondents that Agree
Electric vehicles are very quiet.	93%
I could use an electric vehicle to drive to most places I regularly drive.	77%
Electric vehicles save money on fuel.	77%
Sales of electric vehicles in Colorado will continue to increase.	76%
I am familiar with electric vehicles.	73%
Electric vehicles are the most fuel efficient option available.	69%
I like electric vehicles.	68%
Electric vehicles are the most environmentally friendly vehicles out there.	66%
Electric vehicles are safe.	65%
Electric vehicles look good.	54%
Electric vehicles have great performance.	50%
Electric vehicles are an affordable option for me.	42%
In the next three years, I expect to own or lease an electric vehicle.	31%

Community Questionnaire Results: Opinions of EVs

Words that come to mind about EVs
(grouped into categories):

1. Environment (118)
2. Range Anxiety (110)
3. Efficient (53)
4. Expensive (47)
5. Quiet (44)
6. Poor Performance (34)
7. Inadequate Charging Infrastructure (30)
8. The Future (30)
9. Fuel Cost Saving (26)
10. Small (26)



Objective

- Quantify the likely demand for EV charging infrastructure

Inputs

- Trip Data (*Source: NFRMPO travel demand model*)
- Key Socioeconomic Inputs
 1. Income (*Source: American Community Survey, ACS*)
 2. Hybrid vehicle ownership (*Source: IHS Markit/R.L. Polk*)
 3. Home ownership (*Source: ACS*)
 4. Housing type (*Source: ACS*)



income



hybrid ownership



tenure



dwelling type



likely EV ownership profile



trips



workplace



non-work



map it



Preliminary Results

Reviewed in real-time

- Residential, multi-family, workplace, public
- ***Disclaimer: This is the first cut!***

Discussion

- What jumps out at you?
- What requires a closer look?
- Other questions?

- Next Steering Committee Meeting
 - June dates TBD
- Action Items from This Meeting

Thank you!

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