



# Lone Tree EV – Workshop 3

March 15, 2023

# AGENDA

Time	Duration	Agenda Item
10:00 – 10:10	10 min	Welcome
10:10 – 10:40	30 min	Goals
10:40 – 11:50	70 min	Strategy Action Planning for Implementation (Breakout Groups)
11:50 – 11:55	5 min	EV Action Plan Overview
11:55 – 12:00	5 min	Wrap Up & Next Steps

## OBJECTIVES FOR TODAY

- Finalize the EV plan goal
- Develop detailed action steps and roles/responsibilities for strategies
- Discuss appropriate targets for each strategy and/or focus area

# PARTNERS IN ENERGY CONTACTS

Xcel Energy				Partners in Energy Facilitators			City of Lone Tree	
								
<b>Tami Gunderzik</b> <i>Program Manager</i>	<b>Makaela Turner</b> <i>Marketing Coordinator</i>	<b>Liz Gardner</b> <i>Area Manager</i>	<b>Joe Limone</b> <i>Account Manager</i>	<b>Terry Hatfield</b> <i>Lead Facilitator</i>	<b>Andrea McCarthy</b> <i>Facilitator</i>	<b>Jessica Sharkey</b> <i>Facilitator, Data Lead</i>	<b>Pearce Miller</b> <i>Former Management Fellow</i>	<b>Austin Good</b> <i>Assistant City Manager, Community Lead</i>

# TIMELINE

Task	Oct '22	Nov '22	Dec '22	Jan '23	Feb '23	Mar '23	Apr '23	May '23
Kick-off Meeting								
Baselining & Intake								
Workshop Series			#1		#2	#3		
Team Survey								
Plan Development								
Plan Review & Approval								
City Council Updates								



# GOALS, REVISITED



Source: City of Lone Tree



## QUICK GOAL RECAP: SURVEY RESULTS

Focus Area	Level of Ambition	Metric	Time Horizon
EV Plan Goal	Ambitious (49/100)	# of EVs in the community	--
Municipal Transportation Electrification	Ambitious (54/100)	% of fleet vehicles electrified	Mid-term
Public Charging	Ambitious (51/100)	Number of public charging stations in Lone Tree	Mid-term
Outreach & Education	Ambitious (49/100)	Number of outreach activities	Short-term

## EV BASELINE

Type	Total (updated 3/8/23)
Total Registered Vehicles	12,574
Battery EVs	310
Plug-in/Hybrid EVs	525
EVs % of Registration	7%

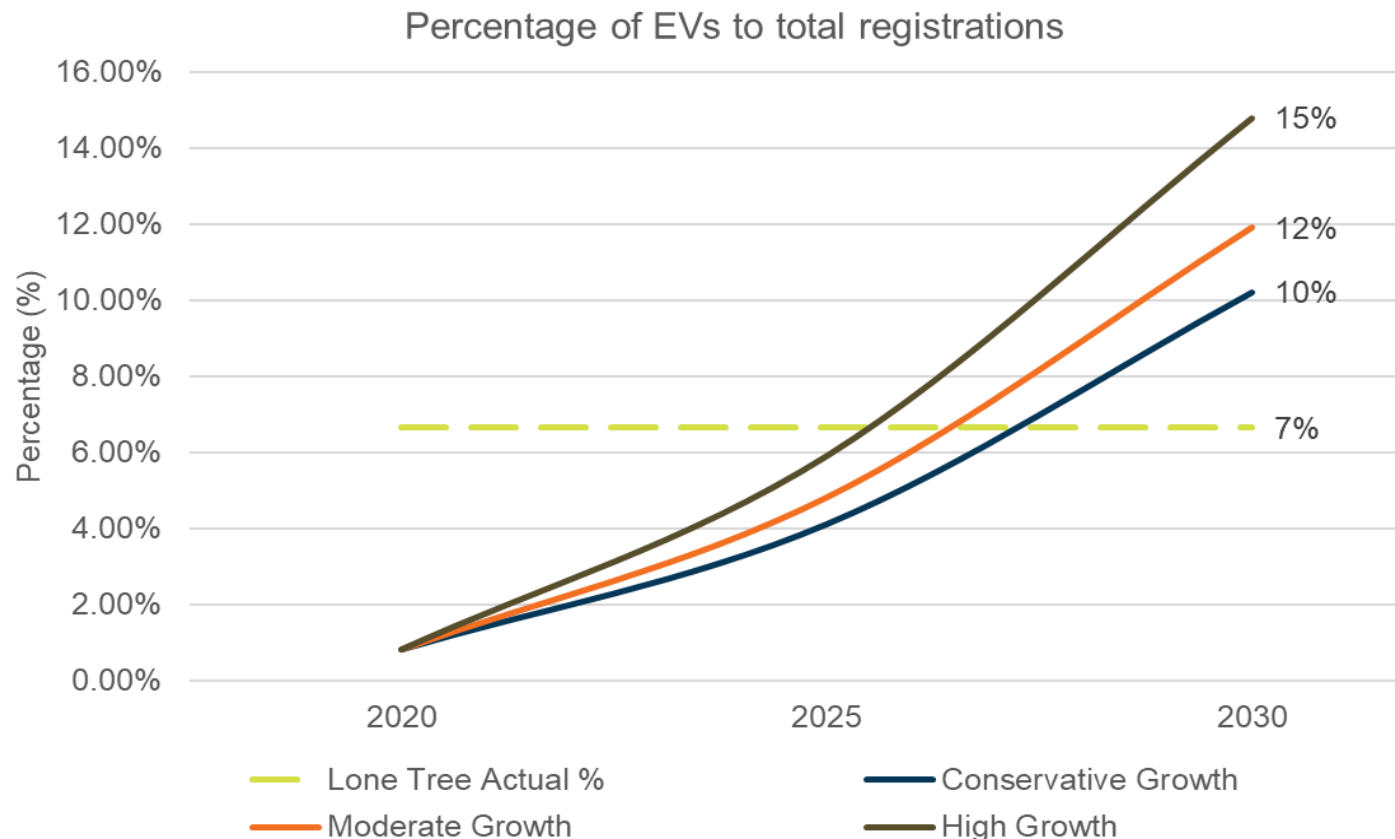
Source: Douglas County DMV, [Alternative Fuels Data Center: TransAtlas \(energy.gov\)](https://www.energy.gov/alternative-fuels-data-center)

Lone Tree is an EV leader

### EVs % of Registration (2021)

City of Boulder Average	9%
Colorado Average	1%
National Average	0.8%

# LONE TREE ADOPTION COMPARED TO FORECASTS



- CO EV Goal: 940,000 light-duty EVs by 2030
- State modeled scenarios to understand adoption & policy drivers
- Lone Tree is outpacing state estimates for all scenarios past 2025

Source: [Colorado EV Plan 2020 - FINAL.pdf](#) - Google Drive





# OVERARCHING GOAL ASSUMPTIONS

## GROWTH FORECASTS

- Population baseline: 14,253 (2023)
- Minimal growth; assumed 1.5% annual increase
- 3% annual growth results in over 40,000 residents by 2060
- 4% annual growth results in over 40,000 residents by 2050

## ASSUMPTIONS

- Assumed ratio of registered vehicles per person remained the same
- Scaled state growth scenarios to factor in Lone Tree's current adoption rates

## DRAFT OVERARCHING GOAL

- By 2030 Lone Tree strives to have **X** electric vehicles in the community to reduce transportation greenhouse gas emissions and air quality impacts.

Scenario	Number of EVs	Est % of Registrations	Level of effort
Baseline	835	7%	2023 Baseline
Conservative	2,200	16%	Can be accomplished with current budget & effort; assumes 1.5% annual growth
<b>Ambitious</b>	<b>2,800</b>	<b>18%</b>	<b>Requires addtl investments &amp; new effort but doable; assumes 3% annual growth</b>
Aspirational	3,500	21%	Requires more significant investment & leading efforts; assumes 4% annual growth



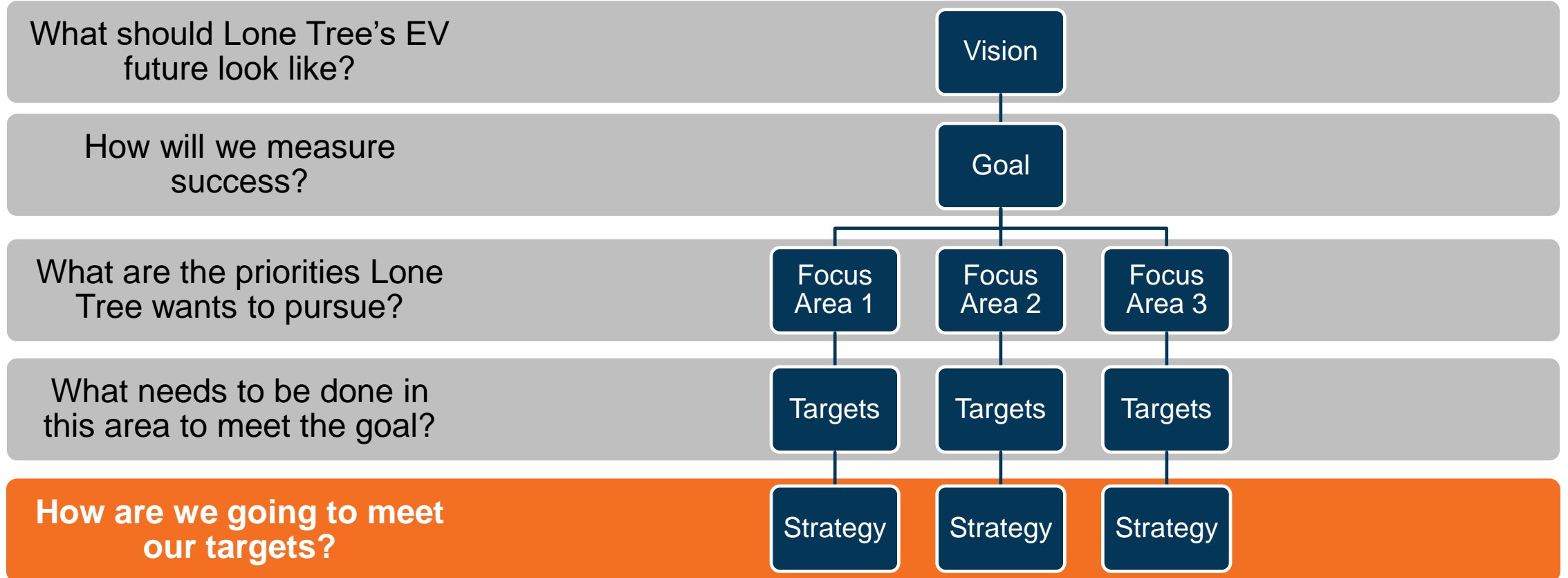


# STRATEGY ACTION PLANNING

WHAT WILL WE DO TOGETHER  
IN IMPLEMENTATION?

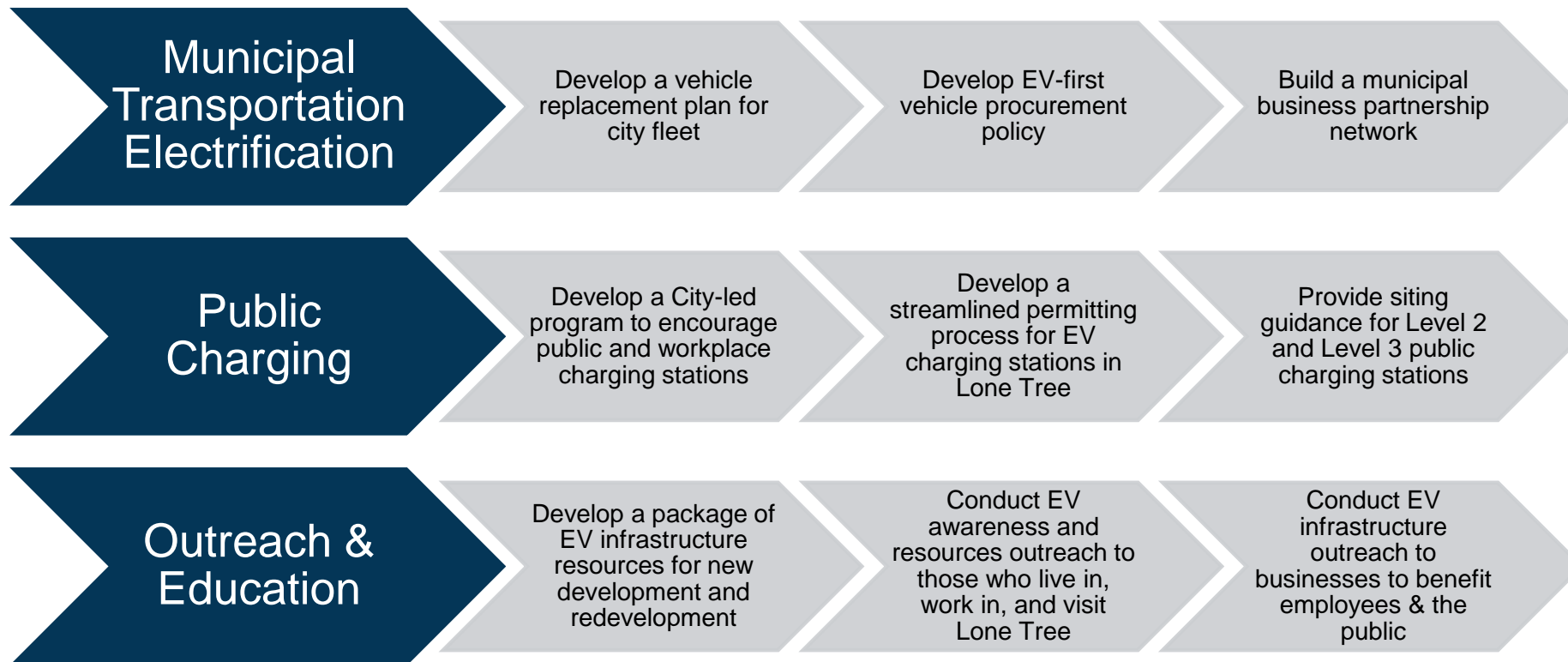


# PLAN FRAMEWORK





# TOP 3 STRATEGIES BY FOCUS AREA



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### **Municipal Transportation Electrification (MTE)**

- 1. Develop a fleet charging infrastructure implementation plan**
- 2. Develop City-funded grants for charging station development**
- 3. Develop City policies and training to support the City's fleet electrification plan**
- 4. Support the transition of Lone Tree's schools' bus fleet to electric options (e.g., peer learning, grant funding, utility programs)**

### **Public Charging (PC)**

1. Participate in the regional or sub-regional planning and implementation process
2. Conduct outreach to local businesses to encourage installation of EV charging stations
3. Promote the public charging station network to those who live in, work in, and visit Lone Tree
4. Install public charging stations at City facilities
5. Establish design standards for public charging stations, including signage and safety considerations
6. Develop a fee structure, for City-owned public charging stations, that can be used as a model for privately-owned public charging stations - including the possibility of free/reduced cost charging downtown
7. Identify block groups that may be appropriate for Higher Emissions Communities (HECs) designation; facilitate applications

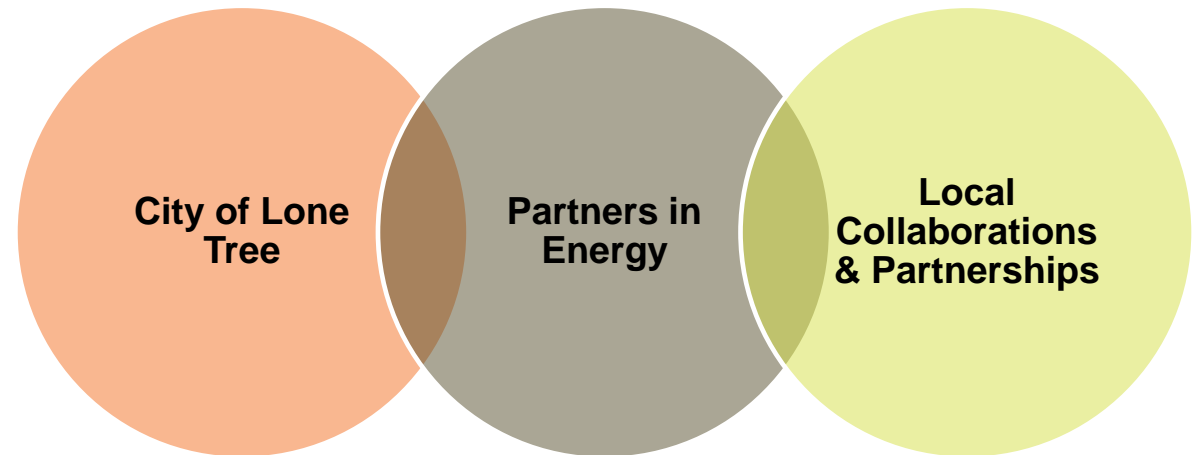
### **Outreach & Education (OE)**

1. Conduct outreach to multifamily properties, to promote the installation of EV charging stations for residents
  2. Conduct neighborhood-level planning that will support access to other mobility options (e.g., EVs, e-bikes, electric buses, paratransit)
  3. Pilot an EV carshare program at a multifamily property in Lone Tree
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# STRATEGY LIBRARY

# ACTION PLANNING FOR IMPLEMENTATION STRATEGIES

- Target Audience
- Measurable Metrics of Success
- Roles/Responsibilities/Partners
- Key Activities / Implementation Steps
- Impact & Co-benefits
- Resource Considerations
- Other Considerations



# ACTIVITY: IMPLEMENTATION ACTION PLANNING

## Instructions

- Select Group 1 or Group 2
- Reviewing the **three strategies** in your focus area, **discuss the following topics:**
  - **Key implementation steps:** What is missing?
  - **Roles & responsibilities:** Who will help to achieve the implementation steps?
  - **Funding needs:** Is additional funding needed for the strategy?
  - **Considerations:** What other context is important to keep in mind for the strategy?
- **Answer the specific questions called out by strategy**

## BREAKOUT GROUPS

**Round 1: 35 minutes (10:40 – 11:15a)**

**Group 1: Municipal Transportation Electrification**

**Group 2: Public Charging**

*Report out: 5 minutes (11:05-11:10a)*

**Round 2: 35 minutes (11:15 – 11:50a)**

**Group 1 & Group 2: Outreach & Education**

*Report out: 5 minutes (11:45-11:50a)*





# LONE TREE'S EV ACTION PLAN

AT A GLANCE



# WRAP UP AND NEXT STEPS



## NEXT STEPS



### FOCUS GROUP DISCUSSIONS

NEW DEVELOPMENT



### WRAP UP EV ACTION PLAN



### CITY COUNCIL UPDATE MAY 2, 2023



**PARTNERS IN ENERGY**

An Xcel Energy Community Collaboration