

# EV FLEET & CHARGING INFRASTRUCTURE UPDATE

Transportation & Environment Committee

12/4/23

Laura Stuchinsky, Climate Smart & Electric Mobility Lead, Transportation Department  
Walter Lin, Deputy Director, Public Works Department  
Kate Ziemba, Senior Environmental Program Manager, Energy Department



# AGENDA

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- Fiscal Year 23-24 Priorities
- Background
- Workplan overview



# PRIORITIES FOR FISCAL YEAR 23-24

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1. Developing a master plan to electrify the City of San José fleet and install accompanying charging infrastructure
2. Ensuring residents have equitable access to public charging infrastructure and affordable charging rates

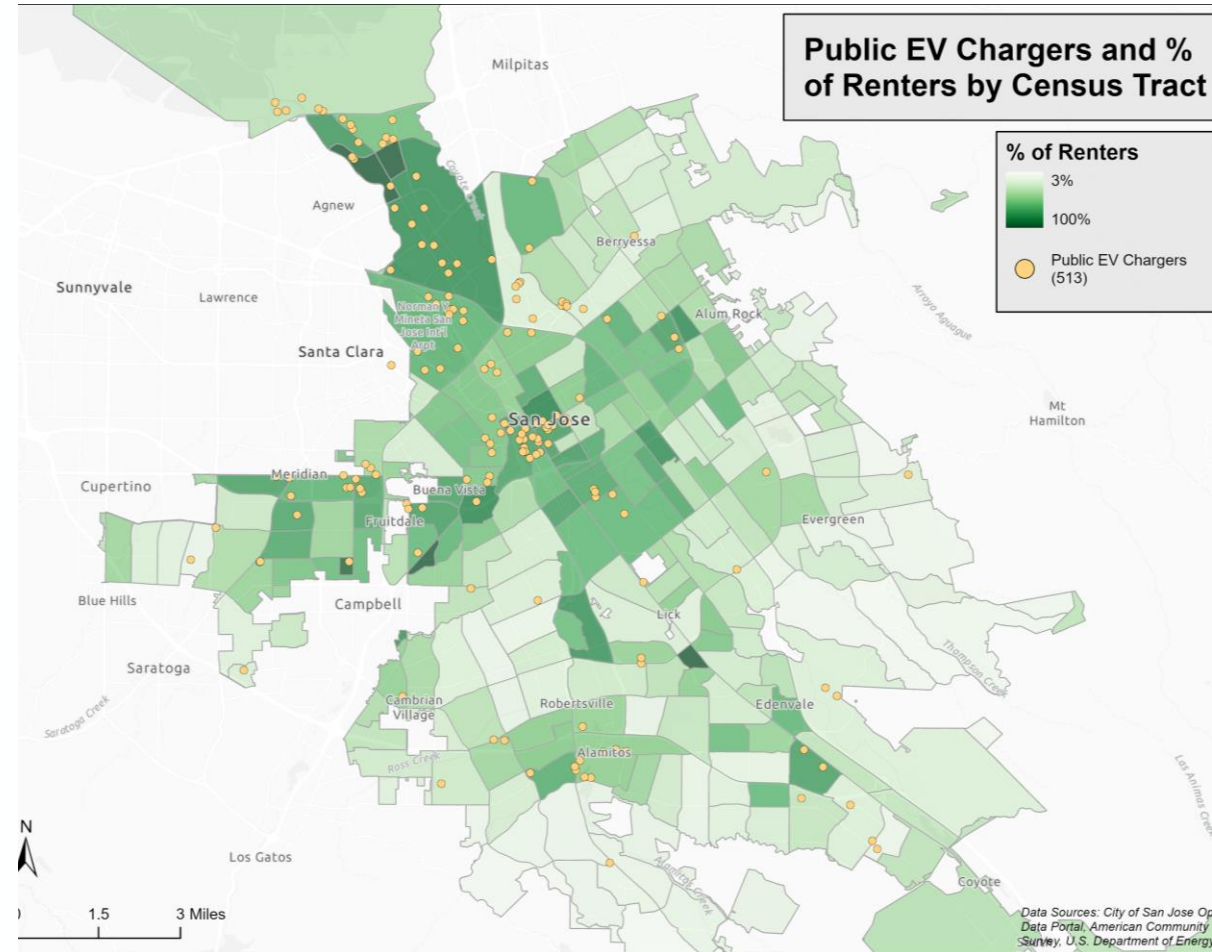
# RECENT STATE RULES DRIVING FLEET ELECTRIFICATION

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- 2022: Advanced Clean Car Rule
  - Only zero-emission cars and trucks for sale by 2035
- 2023: Advanced Clean Fleets
  - Begin to transition medium & heavy-duty vehicles to zero-emission options in 2024
  - 2 compliance pathways:
    1. 50% of new vehicle purchases must be zero-emission starting 2024; increases to 100% in 2027
    2. Transition a percentage of vehicles to meet zero-emission milestones that increases to 100% by 2035-2042, depending on vehicle type

# INEQUITIES IN EV CHARGING INFRASTRUCTURE ACCESS

- Low-income households and renters face barriers to installing charging at home and have little to no access to public charging options
  - More public investment in charging infrastructure and shared mobility options is needed
- Control of retail rates will be essential to ensure low-income drivers have affordable charging options



# FISCAL YEAR 23-24 WORKPLANS

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- Set up 2 working groups:
  - Fleet Electrification
  - Charging Infrastructure and Rate Equity
- Shared objective:
  - Applying for grants to install chargers on City properties for fleet and public use, particularly in low-income communities with little to no public charging infrastructure



# FLEET ELECTRIFICATION WORKPLAN

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- Hire consultant in Q2 to develop Fleet Electrification Master Plan, identifying:
  - Procurement, charging infrastructure, and fueling costs relative to ICE vehicles
  - Locations, number, and types of chargers to be installed over time based on assessment electrical capacity of City buildings and grid capacity to support charging and vehicle uses
  - Charging strategies to decrease capital and operating costs and greenhouse gas emissions while maintaining service levels
  - Opportunities for futureproofing
  - External funding and financing strategies



# CHARGING INFRASTRUCTURE & RATE EQUITY WORKPLAN

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Activities include:

- Refine GIS Charging Infrastructure Siting Tool
- Develop policy for siting third-party operated EV chargers on City property (e.g., EVGo, Tesla)
- Implement downtown micro-mobility hubs
- Expand bike share to Mayfair
- Secure funding to launch zero-emission microtransit service in East San Jose and install chargers to support it
- Continue Direct Current Fast Charging Hubs Pilot Program
  - Explore opportunities to align with fleet needs to scale program and lower costs
- Conduct workplace charging program analysis





# QUESTIONS?

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- Recommendation: Accept report on the status of the Electric Vehicle Fleet and Charging Infrastructure Workplan
- Staff
  - Andrea Arjona Amador, Climate Smart & Electric Mobility Lead, Transportation Department
  - Walter Lin, Deputy Director, Public Works
  - Kate Ziemba, Senior Environmental Program Manager, Energy