



Electric Vehicle Infrastructure Master Plan Update

Climate Action Subcommittee
July 5, 2023

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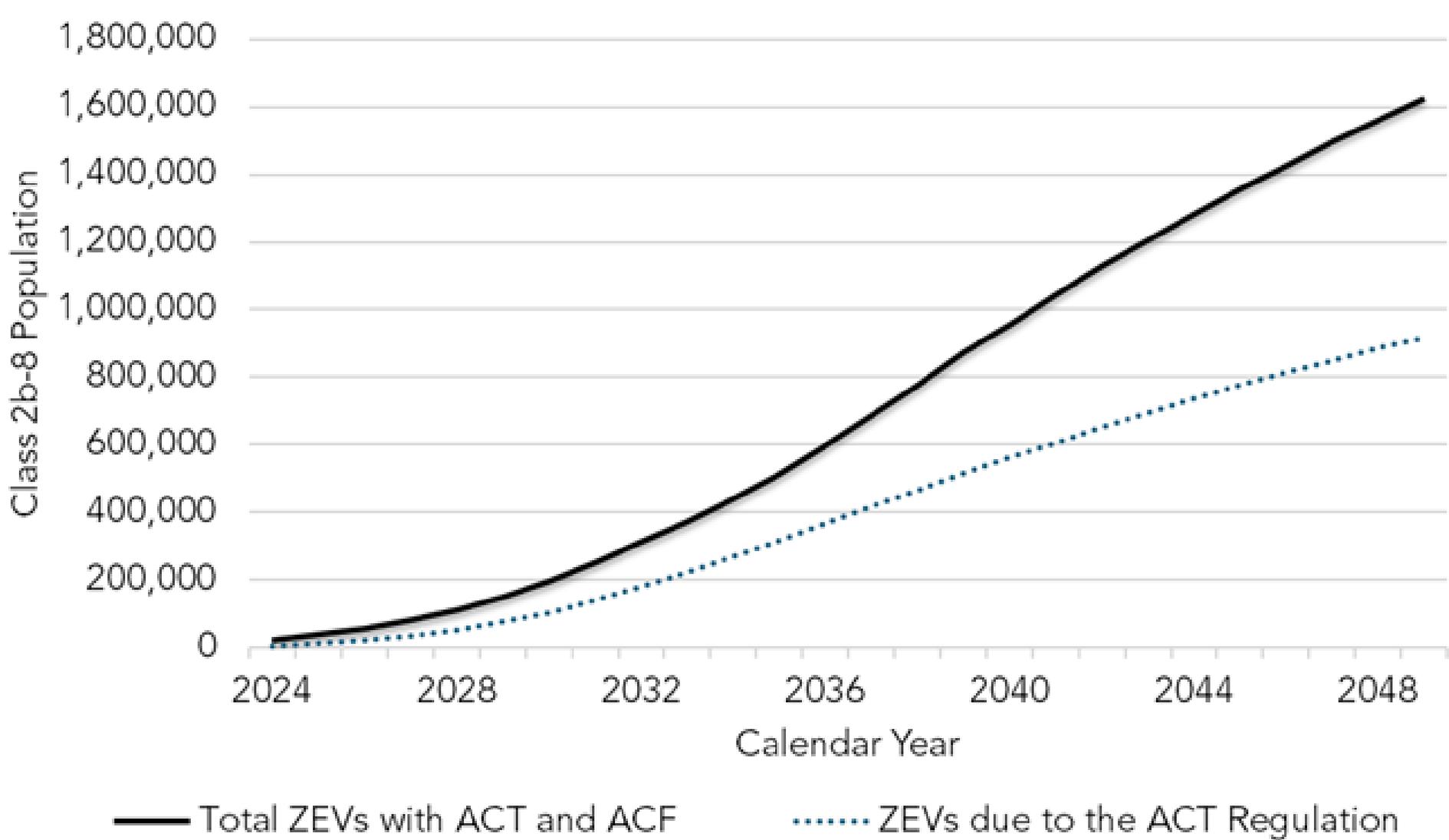
CITY OBJECTIVES AND DRIVERS

- Council Work Plan FY 2023/24: Initiate development of City-wide Fleet Electrification Master Plan
- Regulations: Compliance with the CA Air Resources Board Advanced Clean Fleet Rule
- Council Goals: Sustainability initiatives and policies; net-zero emission goals

ADVANCED CLEAN FLEETS REGULATION

- May 2023 - Advanced Clean Fleets Regulation Adopted
- Local governments: show progress on transition to Zero Emission Vehicles (ZEVs) for medium- and heavy-duty on-road vehicles (GVW > 8,500 lbs)
 - 2024: 50% of vehicle purchases are ZEVs
 - 2027: 100% of vehicle purchases are ZEVs
- Exemptions / Alternative compliance pathways
- Reporting & Certification begins January 2025

Statewide medium- and heavy-duty ZEV forecast



EV INFRASTRUCTURE MASTER PLAN

GOALS

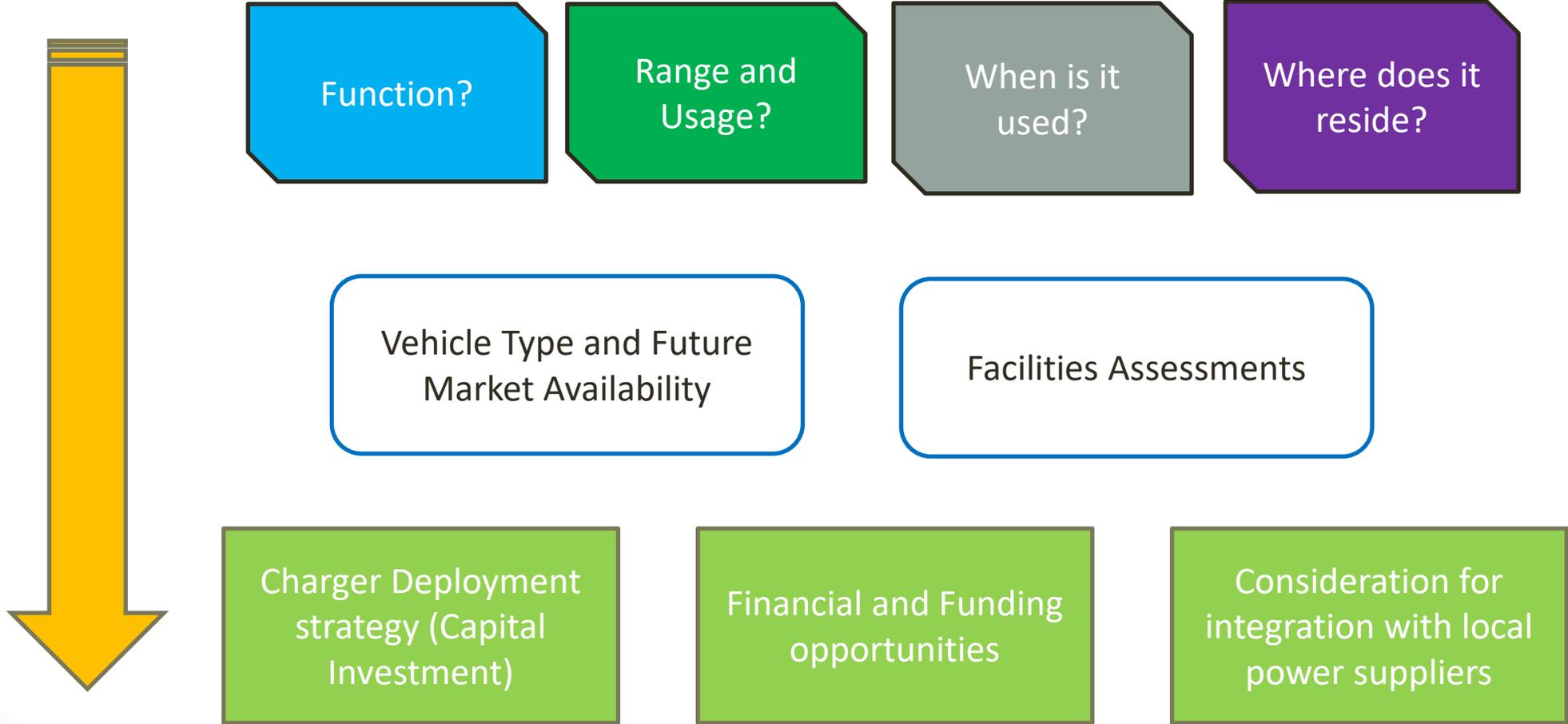
- A roadmap to compliance with ACF Regulations
- Strategy for continuity of fleet operations, city services
- Establish priority of integration with city-owned facilities



SCOPE – MUNICIPAL FLEET TRANSITION EVALUATION

- Fleet Electrification Market Analysis
 - Study existing fleet usage and availability of replacement ZEV vehicles
 - Light-, Medium-, and Heavy-duty vehicles
- EV Vehicle and Charging Technology Strategies
 - Operational Facilities Assessments
 - Plan for types of charging stations (Level I, II, Fast Charging) to match usage
 - Load Calculations / High-level costs for improvements

Municipal Fleet Transition Analysis



SCOPE – MUNICIPAL FACILITY ENERGY AND RESILIENCY EVALUATION

- Off Grid / Renewable / Distributed Energy Potential and Opportunities
 - Use existing analyses where available
 - Energy storage solutions
 - Backup generation needs
- Load considerations and strategies for home facilities
- Phasing for capital improvements, financial strategies



<https://www.ysgsolar.com/blog/top-50-energy-storage-companies-2021-ysg-solar>



<https://new.abb.com/medium-voltage/packaging-and-solutions/energy-storage-solutions>

SCOPE - PRIVATE DEVELOPMENT POLICIES

- Identify requirements for private development projects to incorporate public charging in city right-of-way or ownership
- Impact Fee Options, Incentive Programs, Development Standards



SCOPE - OTHER DELIVERABLES

- Meetings to present information to the public and incorporate targeted feedback
- Meetings and coordination with targeted regional stakeholders that have overlapping interests (RCPA, Sonoma Clean Power, PG&E, and others)
- Study Sessions and presentations to the City Council and other subcommittees



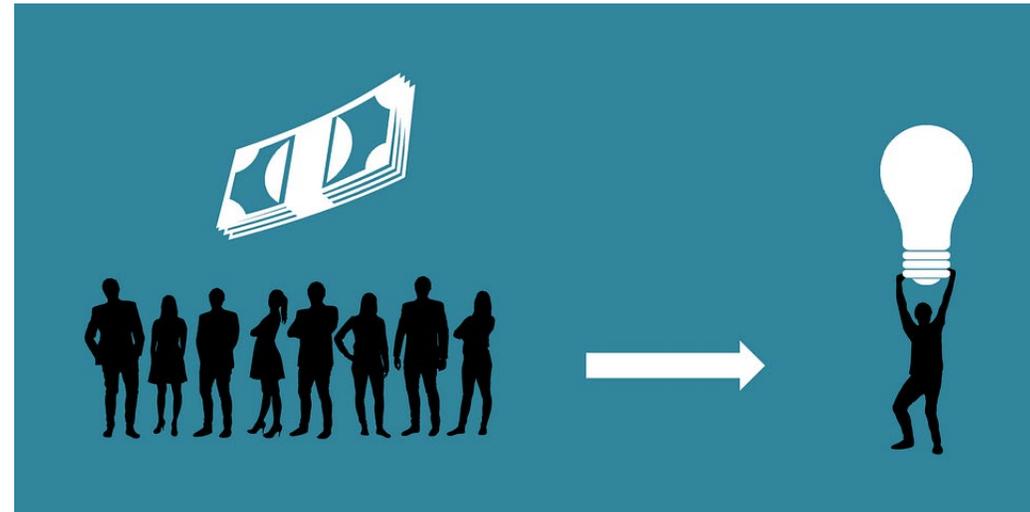
PUBLIC CHARGING INFRASTRUCTURE?

- The Parking Division has secured grant funding from the Metro Transportation Commission to evaluate:
 - Parking fleet electrification
 - Public charging needs (garages, city facilities, other access points)
- Parking will present to Climate Action Subcommittee



FUNDING - EECBG

- Department of Energy's Energy Efficiency and Conservation Block Grant Program (EECBG) will become available this year
- Santa Rosa's block appropriation is \$210,000 for eligible activity of our choice
- Funding can be used for local governments to develop strategies for deployment of clean energy programs or projects
- Other funding from departments according to fleet contributions



QUESTIONS?