

The background features a lit lightbulb with a glowing filament, set against a dark blue gradient. White circuit-like lines with circular nodes are overlaid on the image, extending from the left and right sides towards the central text box.

# ADVANCED CLEAN FLEETS: OVERVIEW, IMPACT, AND NEXT EV PHASE

GENERAL SERVICES AGENCY

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DEPUTY DIRECTOR-FLEET SERVICES

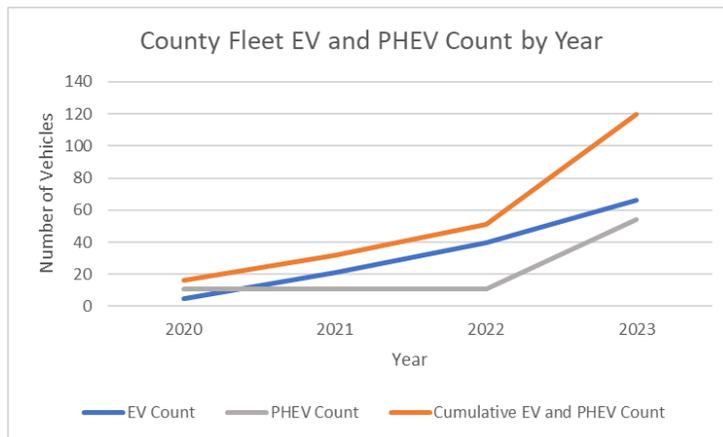
# AGENDA: CARB IMPACTS AND RECOMMENDED ACTION

- Fleet Electrification Highlights
- California Air Resources Board (CARB) Regulation Overview
- CARB's Advanced Clean Fleets (ACF) Mandate
- County Fleet Impact from ACF
- Fleet Services' Plan to Address ACF
- Recommended Actions

# GSA FLEET – IT'S ELECTRIC



- Phase I Completed
  - 18 EV Charger Installation at Central Motorpool (CMP) with SCE Charge Ready
  - 18 Chevrolet Bolts purchased with County Contributions
- Phase II Completed
  - Utilized VCREA Grant to purchase 9 Solar Offgrid EV Chargers and 18 Chevrolet Bolts
  - Solar Offgrid Chargers dispersed between 4 Remote Motorpool (RMP) locations
- Phase III In Progress
  - 89 EV Charger Installations at 5 separate sites with SCE Charge Ready (combined public and County Fleet)
  - In Final Design process with SCE, in final steps prior to construction
  - 26 Electric Vehicles and 43 plug-in hybrid (PHEV) added to the fleet with County Contributions



# MAJOR CARB REGULATIONS

- Advanced Clean Fleets - *Focus of Presentation*
  - Requires transition of Medium and Heavy Duty (MD/HD) vehicles to Zero Emission Vehicles (ZEVs) starting 2024
    - Option to phase in ZEVs over time
  - Affects many fleet types including local government
  - Requires vehicle vendors to sell 100% MD/HD ZEVs starting 2036
  - Entities that hire organizations with non-compliant fleets can risk fines
  - Penalties can total up to \$100,000 per non-compliant vehicle per year
- In-Use Off-Road Diesel-Fueled Fleets 2022 Amendment-Approved Regulation
  - Requires phasing out of older vehicles and the use of renewable diesel in off-road equipment starting 2024
  - Projects awarded by Public Works or where the County is a prime contractor must hire compliant contractors and subcontractors

# OTHER CARB REGULATIONS

- Advanced Clean Cars II-Approved Regulation
  - Requires 100% Zero or Near-Zero Emission passenger car sales by 2035, starting with 35% of sales in 2026
- Advanced Clean Trucks-Approved Regulation
  - Requires increased sales of Zero Emission (ZE) Medium-Duty and Heavy-Duty Vehicles (MD/HD) starting 2024
- Clean Truck Check (HD I/M)-Approved Regulation
  - Requires additional emissions monitoring and testing of HD trucks starting 2024
- Small Off-Road Equipment 2021 Amendment-Approved Regulation
  - Requires 100% ZE sales of small engine equipment under 25 HP starting 2024
- Zero Emission Forklifts-Proposed Regulation
  - Requires 100% ZE sales of new forklifts starting 2026 and phasing out of older forklifts

# ADVANCED CLEAN FLEETS

- Vehicles over 8,500 GVWR and any size package delivery vehicles are affected, including most PWA vehicles.
- Emergency vehicles are not affected including any operating under CVC 165
- Milestone Option to phase in ZEVs/NZEVs

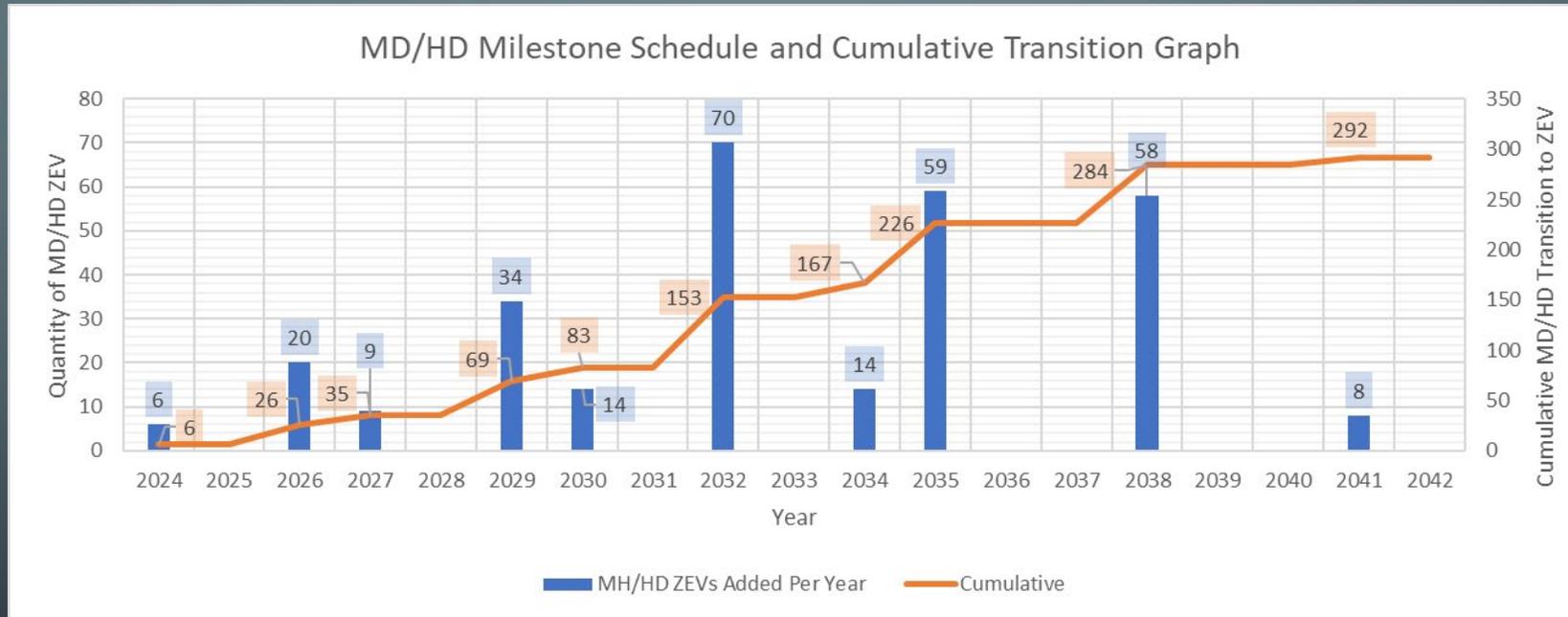
**Table 1: ZEV Fleet Milestones by Milestone Group and Year**

Percentage of vehicles that must be zero-emission	10%	25%	50%	75%	100%
Milestone Group 1: Box trucks, vans, buses with two axles, yard tractors, light-duty package delivery vehicles	2025	2028	2031	2033	2035 and beyond
Milestone Group 2: Work trucks, day cab tractors, buses with three axles	2027	2030	2033	2036	2039 and beyond
Milestone Group 3: Sleeper cab tractors and specialty vehicles	2030	2033	2036	2039	2042 and beyond

“California Air Resources Board.” *Advanced Clean Fleets Regulation Summary* | California Air Resources Board, 17 May 2023, [ww2.arb.ca.gov/resources/fact-sheets/advanced-clean-fleets-regulation-summary](http://ww2.arb.ca.gov/resources/fact-sheets/advanced-clean-fleets-regulation-summary).

# ADVANCED CLEAN FLEETS

- Estimated impact on 292 MD/HD County Fleet vehicles based on current fleet structure



# LONG TERM COUNTY IMPACTS

- Higher upfront cost for vehicles. For vehicles in this phase, the price is 42% higher than conventional models.
- Existing infrastructure needs to be evaluated to determine required upgrades to service to enable charging for identified electric capable vehicles. Infrastructure upgrades could range from \$6,000,000 up to \$16,000,000. This does not include passenger vehicle electrification.
- Increased Agency Budget costs from higher vehicle prices, higher rates for Enterprise Fund customers, and higher rates for Internal Service Fund customers.
- More complicated replacement process could take over 2 years of planning to accommodate building out charging infrastructure.
- Agency leadership and appointing authorities will have reduced choice in vehicles to remain in compliance.
- Non-compliance penalties are severe and could have large impacts on budget units not in compliance.
- Driver behavior adjustments will be required to adapt to differences in ZEVs.
- Impact of Hydrogen Fuel Cell ZEVs are unknown as it is a nascent technology.

# HOW TO MEET THE CHALLENGE

- Continue measured, responsible transition of vehicles.
- Focus on transitioning MD/HD vehicles with mission-ready, market available options in line with milestone timeline.
- Pursue grants and incentives wherever possible to reduce County impacts.
  - **Initiate SCE Charge Ready Transport evaluations on all County owned facilities.**
- Define energy management as central to infrastructure projects to curb future recharging costs.
- Update the Fleet Sustainability Plan to address the latest transport regulations, recommend transitions, and observed market trends.



# EV TRANSITION PHASE IV

- Transition 6 MD Cargo Vans before Jan 2024 to meet CARB's ACF Milestone requirements and be eligible for applicable exemptions.
- Target Government Center (GC) Service Building for Installation of 6 EV Chargers.
- Partner with SCE Charge Ready Transport Program (CRTP) on EV Charger project, PENDING APPROVAL.
  - Estimated Project Costs: **\$2,104,000**
  - Agency Budget Burden\*: **(\$ 398,000)**
  - Less: County Contribution: **(\$ 52,000)**
  - **Estimated Project Savings: \$1,654,000**



**800 S. Victoria Ave.  
Service Building**

- 6 Fleet EV vans
- 6 Fleet Charging Stations

\*Agency Budget Burden is the incremental cost of purchasing EV's less any replacement funds previously paid.

# RECOMMENDED ACTIONS

## ✓ Recommended Board Actions

- ✓ Recommend approval of General Fund Contribution of **\$52,000** for EV Infrastructure in line with the County of Ventura Strategic Plan: Strategic Priority 3; Goal 3 (Reliable Infrastructure and Sustainability; Invest in sustainable infrastructure)
- ✓ Authorize GSA Director or Designee to sign CRTP Participation Agreement for proposed project if approved by SCE.
- ✓ Authorize Public Works Director or Designee to execute a Grant of Easement for proposed project if approved by SCE.
- ✓ Find project categorically exempt from CEQA
- ✓ Recommend authorization for Auditor Controller to process necessary budget transactions

QUESTIONS?

