



# County of Yolo

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## ZERO EMISSION VEHICLE MASTER PLAN

Proposed Early Action to Implement Resolution No. 20-114 Related to the Climate Crisis

### PROPOSED ACTION

The proposed action is to develop a Zero Emission Vehicle Master Plan (“ZEV Master Plan”). For this project, the term ZEVs includes battery electric vehicles and fuel cell electric vehicles. The development of a ZEV Master Plan includes the development of a scope of work, a request for proposal to qualified consultants, selection of a service provider to execute the scope of work, and the completion of the plan. At a minimum, the ZEV Master Plan scope of work would include the following components: 1) an analysis of existing conditions of the charging/fueling network, an evaluation of consistency with other regional ZEV master plans, and recommendations for siting additional charging stations, including establishment of priorities which consider a focus on light, medium and heavy duty vehicles and areas where ZEV infrastructure would result in the greatest reduction of greenhouse gas emissions; 2) an inventory of the existing County fleet ZEV needs and a timeline for transitioning the fleet to ZEV; 3) a community outreach strategy developed in partnership with community based organizations that would include, at a minimum, an analysis of existing survey results regarding opportunities to encourage households to purchase ZEVs or use ZEV mobility services, additional surveys to fill in knowledge gaps, development of a communications plan to advertise ZEV incentives, grants and rebates, and identification of implementation strategies to encourage ZEV infrastructure and adoption; and 4) recommendations for establishing ZEV mobility services (including electric bikes) for residents and businesses in the unincorporated area to enable residents, particularly farmworkers and rural residents, to use clean-mobility options to meet their travel demands. These mobility services may focus exclusively on helping low-income households and disadvantaged communities. Yolo County may consider partnerships with La Cooperativa de California, the UC Davis Institute for Transportation Studies, and the Yolo County Transportation District to implement this project.

### BACKGROUND

California has a goal to achieve five million ZEVs on the road by 2030 and 250,000 electric vehicle charging stations by 2025 as directed in the Executive Order B-48-18. The California Air Resources Board is further moving forward with regulations to require auto manufacturers to sell only zero-emission passenger cars and trucks in California by 2035. These goals are essential to meeting

California's air quality and climate change targets since the transportation sector contributes nearly 35% of statewide greenhouse gas emissions.<sup>1</sup>

In 2014, the County participated in the Yolo County-City of Woodland Workplace Charging Partnership ("Partnership"), which resulted in the installation of electric vehicle charging stations in downtown Woodland, providing City and County employees, along with the public, a convenient charging station in downtown Woodland free of cost. The Partnership was made possible through a \$15,000 Clean Air Fund grant award from the Yolo-Solano Air Quality Management District and with County matching funds. The County is currently implementing a Sacramento Area Council of Governments ("SACOG") grant to install charging stations in key locations around the County by mid-2022.

## **CONSISTENCY WITH EXISTING POLICIES**

Promoting the use of electric vehicles supports strategies outlined in the February 2021 *Yolo County Sustainability Plan*. Specifically, the *Yolo County Sustainability Plan* includes the following relevant strategy:

- Strategy AQ-1: Reduce Vehicle Miles Traveled
- Action AQ-1.2: Increase adoption of electric vehicles and equipment.

In addition, at the Board of Supervisor's direction, County staff is currently developing a purchasing policy that would favor the purchase of electric vehicles over gas-powered vehicles at the time of new purchases or replacement.

## **BENEFITS TO DISADVANTAGED/VULNERABLE COMMUNITIES**

This action may benefit low-income households and disadvantaged communities, depending on the ZEV Master Plan's recommendation regarding ZEV mobility services.

## **GREENHOUSE GAS EMISSION REDUCTION**

There is no short-term greenhouse gas emission reduction associated with developing a plan. The long-term greenhouse gas emission reduction impact of this action is dependent on the goals set by the ZEV Master Plan, and the implementation of the plan. For example, the City of San Francisco's EV Roadmap recommends an accelerated path toward electrification of all forms of private transportation with a goal ensuring all transportation in San Francisco emission-free by 2040. The ZEV Master Plan will include a process for measuring greenhouse gas emission reduction benefits.

## **CO-BENEFITS**

- Increased awareness of vehicular emissions and strategies to reduce emissions
- Improved air quality
- Improved public health by increasing active transportation opportunities
- Greater economic equity and opportunity

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<sup>1</sup> "Transportation Electrification". *California Public Utilities Commission*, <https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/infrastructure/transportation-electrification>

## TRANSFORMATIVE/REPLICABLE ELEMENTS

This project would create replicable models for effectively and equitably siting ZEV charging stations and distributing ZEVs to residents.

## DEGREE OF READINESS

Work on this project will begin during the 2022-23 Fiscal Year.

## COSTS

The development of a ZEV Master Plan is estimated to cost approximately \$250,000, not including the staff time needed to develop the scope of work and request for proposal, as well as the associated interview process to select a qualified consultant.

## FUNDING

The County will seek grants for this program from agencies such as Caltrans, SACOG, the California Energy Commission, and federal funding sources, and may decide to allocate American Rescue Plan funds as matching funds.

## CONCERNS

COVID-19 may make implementation of this proposed action difficult if in-person gatherings are restricted.

## PARTNERS

For the implementation of this project, the County aims to establish partnership with the following entities:

- City of Davis
- City of West Sacramento
- City of Winters
- City of Woodland
- California Energy Commission (CEC)
- Caltrans
- SACOG

## PERSONNEL

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