



STAFF REPORT
Board Meeting of September 20, 2023

AGENDA ITEM: 5-D

PREPARED BY: Dylan Stone, Principal Regional Planner

SUBJECT:

Madera County Zero-Emission Vehicle Readiness and Implementation Plan

Enclosure: No

Action: Approve

SUMMARY:

Background

An increasing number of national and state level policies have focused on measures to reduce greenhouse gas (GHG) emissions from the transportation sector. Strategies and policies to achieve this goal have been directed towards two connected areas: zero-emission vehicle (ZEV) types and infrastructure used to fuel these vehicle types.

Decreed in 2020, Governor Newsom's Zero-Emission by 2035 Executive Order (N-79-20) called for the elimination of new internal combustion passenger vehicle sales by 2035: 100% zero-emission vehicle sales for new passenger cars and trucks by 2035. The same target holds for medium and heavy-duty vehicles by 2045.

The transportation sector, including all passenger cars and light trucks, heavy-duty trucks, off-road vehicles, and the fuels needed to power them, is estimated to be responsible for more than 40% of California GHG emissions. By setting the target for 2035 the Executive Order provides time to plan for and support the increasing consumer demand for these vehicles. The Madera County Zero-emission Vehicle Readiness and Implementation Plan (ZEV Plan) presents information and recommendations to better accommodate existing ZEV users and improve access and effectiveness for increasing future ZEV usage in Madera County in an equitable manner.

Discussion

The ZEV Plan proactively plans for the anticipated increase in Zero Emission Vehicle (ZEV) adoption throughout the Madera County region and surrounding areas. The plan provides an overview of ZEV infrastructure as it stands today, an analysis of future needs for the county and suggested goals and actions for effective implementation to support future ZEV needs.

The primary objective of the ZEV Plan include:

- Assessing existing ZEV infrastructure environment
- Identifying key community challenges and barriers to advancement
- Recommending infrastructure improvements and investments
- Identifying implementation strategies and policies to promote ZEV infrastructure adoption
- Providing stakeholders with tools to procure, site and install ZEV infrastructure

MCTC retained DKS Associates to assist in the development of the ZEV Plan. The project team conducted a ZEV existing conditions analysis for the county, conducted stakeholder outreach, utilized online tools to collect input from the community, and used various sources of data to forecast ZEV adoption and travel patterns.

The ZEV Plan contains five sections and six appendices including:

- *Project Overview* highlighting the need and purpose for the plan
- *Executive Summary* providing a high-level overview of the plan details
- *Chapter 1: Community Engagement* outlining outreach initiatives utilized to develop the plan
- *Chapter 2: Future Infrastructure Needs* reporting on ZEV growth, travel and infrastructure demand, potential infrastructure siting, and funding opportunities
- *Chapter 3: Implementation* highlights recommended actions, strategies for ZEV implementation, funding strategies and estimated costs to meet projected needs
- *Appendix A. ZEV and Infrastructure Existing Conditions Report*
- *Appendix B. Engagement Supplemental Materials*
- *Appendix C. ZEV Transitions Funding Opportunities*
- *Appendix D. Potential Charging Station Locations*
- *Appendix E. ZEV Planning Resources*

As part of the development of the ZEV Plan, MCTC has published a ZEV Planning Resources webpage. The webpage includes information for home and public charging, including resources for residential charging, employers, businesses, multifamily properties, and local governments. These include links to various rebate and incentive programs for an array of potential users and implementors.

The webpage also contains various toolkits to assist in ZEV infrastructure planning activities. The following downloadable planning toolkits are available:

- *Workplace Charging* - Resources for business owners and managers, and business property managers that want to provide EV charging stations for employees, clients, and fleet vehicles
- *Multifamily Charging* - Resources for apartment, condominium, and manufactured housing property owners and managers that want to provide EV charging stations for residents, guests, and employees

- *Retail and Restaurant Charging* - Resources for restaurants, stores, fitness centers, hotels, healthcare providers, and entertainment providers that want to provide EV charging stations in parking lots
- *Public Parking Charging* - Resources for local government, airports, parking lot operators, and others that want to provide EV charging stations in parking lots
- *Site Evaluation Tool* - A simple checklist to evaluate a site and a location on the site for an EV charging station
- *Fleet Inventory Tool* - An Excel spreadsheet for fleet managers to collect information about their vehicles and facilities to plan for a transition to EVs
- *EV Station Permitting Resources* - Information for local governments to implement streamlined permitting for EV charging stations
- *EVITP for Electricians* - Information for journeyman electricians to become certified to install charging stations

The ZEV Plan and the online ZEV Planning Resources can be found at the following web address: <https://www.maderactc.org/transportation/page/zero-emission-transportation>.

FISCAL IMPACT:

No fiscal impact to the approved 2023-24 Overall Work Program and Budget.