<table>
<thead>
<tr>
<th><strong>Docket Number:</strong></th>
<th>16-OIR-06</th>
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<tbody>
<tr>
<td><strong>Project Title:</strong></td>
<td>Senate Bill 350 Disadvantaged Community Advisory Group</td>
</tr>
<tr>
<td><strong>TN #:</strong></td>
<td>243537</td>
</tr>
<tr>
<td><strong>Document Title:</strong></td>
<td>Presentation of Item 4 - June 17, 2022 DACAG Meeting</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>National Electric Vehicle Infrastructure (NEVI) Program</td>
</tr>
<tr>
<td><strong>Filer:</strong></td>
<td>Dorothy Murimi</td>
</tr>
<tr>
<td><strong>Organization:</strong></td>
<td>California Energy Commission</td>
</tr>
<tr>
<td><strong>Submitter Role:</strong></td>
<td>Commission Staff</td>
</tr>
<tr>
<td><strong>Submission Date:</strong></td>
<td>6/15/2022 11:09:55 AM</td>
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<tr>
<td><strong>Docketed Date:</strong></td>
<td>6/15/2022</td>
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ITEM 4

National Electric Vehicle Infrastructure (NEVI) Program
NEVI Information

• **Workshop Event Webpage:**

• **Docket Webpage:**

• **Draft California State Electric Vehicle Infrastructure Deployment Plan:**
National Electric Vehicle Infrastructure (NEVI) Program

• Established through Infrastructure Investment and Jobs Act (IIJA)

• Establish an interconnected network of 500,000 publicly available electric vehicle chargers along Alternative Fuel Corridors

• California’s distribution of the formula funding is estimated at $384 million over 5 years
  • Federal cost share is 80%
NEVI Is Part of State Strategy

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Light-Duty</th>
<th>Medium- and Heavy- Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021-22&lt;sup&gt;1&lt;/sup&gt;</td>
<td>$317 million</td>
<td>$391 million</td>
</tr>
<tr>
<td>Proposed 2022-23 through 2025-26&lt;sup&gt;2&lt;/sup&gt;</td>
<td>$1.358 billion</td>
<td>$1.339 billion</td>
</tr>
</tbody>
</table>

1. Clean Transportation Program (CTP) and ZEV Package 1.0
2. CTP and ZEV Package 2.0, including NEVI
Alternative Fuel Corridors

NEVI Minimum Technical Standards

• Public stations

• 4 DC Fast Charging (CCS Connectors)

• Max 50 mi between stations

• Max 1 mi from highway

• Site power $\geq 600$ kW supporting $\geq 150$ kW per port
NEVI Deployment Plan Concept

- Identify "segments" along AFC designated corridors
- Issue competitive solicitation(s) for agreements to install chargers on identified segments
- Entities other than state agencies will acquire, install, own, develop, operate, and maintain chargers
- Incorporate all NEVI and State requirements into agreements
- Consider travel/charging demand (EVI-RoadTrip) in defining segment requirements
- Rank segments to fund highest priorities first
# NEVI Timeline

<table>
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<td>Draft plan released</td>
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State Plan for Electric Vehicle Infrastructure Deployment – TEMPLATE –

Note that the following abbreviations are used in this document: EV- Electric Vehicle; EVSE – Electric Vehicle Supply Equipment; AFC – Alternative Fuel Corridors; NEVI Formula Program – National Electric Vehicle Infrastructure Formula Program.

Note that in order to receive NEVI Formula Program funds each State is required to develop an FHWA-Approved EV Infrastructure Deployment plan that describes how the State intends to use the funds in accordance with the NEVI Formula Program Guidance. Refer to Section III.B of the Program Guidance for additional details on each section below.

Introduction
<Insert an overview of the Plan and Plan development process.>

Dates of State Plan for Electric Vehicle Infrastructure Deployment Development and Adoption
<Insert anticipated dates of Plan milestones and EV Infrastructure deployment as well as a discussion of Plan adoption authority and process.>

State Agency Coordination
<Insert discussion of how the State has coordinated with other State agencies in developing and approving the Plan consistent with the NEVI Formula Program Guidance, and steps taken to maximize opportunities to utilize U.S.-made EV supply equipment.>

Public Engagement
<Insert overview of public involvement in the Plan’s development to include general public, governmental entities, federally recognized Tribes, labor organizations, private sector industry representatives of the transportation and freight logistics industries, state public transportation agencies,
State Agency Coordination

- Zero-Emission Vehicle (ZEV) Market Development Strategy
  - Overall strategy to meet state ZEV goals

- Coordination between Caltrans and California Energy Commission (CEC) to develop draft plan

- Input and guidance from other state agencies
Public Engagement

- IIJA Transition to Zero Emissions Sub Working Group
  - Hosted three joint workshops
  - CEC Docket for receipt and public sharing of comments

- Disadvantaged Community and Tribal Outreach
  - Disadvantaged Communities Advisory Group (DACAG)
  - Electric Vehicle Infrastructure Strike Force’s Equity Workgroup
  - Native American Advisory Council (NAAC)
Plan Vision and Goals

**Plan Vision:** Build out electric vehicle (EV) charging stations to at least minimum standards in NEVI Program Guidance along AFC in an equitable and efficient manner.

**Plan Goals:** Provide seamless access around and through California. Provide access to rural, tribal, and disadvantaged communities.

**State Goals:**
- By 2025: 250,000 chargers including 10,000 direct current fast chargers (DCFC)
- By 2030: Projected need for 1.2 million chargers (37,500 DCFC)
- Accelerating deployment and ensuring equitable outcomes
Contracting (Process)

• Utilize CEC’s Grant Solicitation Process
• Joint development by CEC and Caltrans
• AFCs divided into segments. Specific sites not selected.
• Performance standards that meet NEVI Program Requirements
  • DCFC Power Levels
  • Number of chargers
  • Maximum distance between stations
• Evaluation team comprised of CEC and Caltrans staff

Conduct Research ➔ Meet with Stakeholders ➔ Define Minimum Requirements ➔ Public Workshop ➔ Release Grant Funding Opportunity
Contracting (Awards/Timeline)

Awards:
• Provide funding for projects that address highest-ranking segments first, in rank order, until funding is exhausted
• Annual update of the plan will reevaluate priorities

Anticipated Timeline:
• NEVI solicitation released Winter 2022
• First chargers operational Q2 2024
• Buildout of final segments completed by 2030
Existing and Future Condition Analysis (1/4)

**Existing DC Fast Chargers**

**NEVI Built-Out Corridors and Gaps**

Legend:
- Public DCFCs that meet NEVI criteria (as of 02/04/2022)
- Public DCFCs to Upgrade (as of 02/04/2022)
- Proposed Corridors (Round 6)
- Alternative Fuel Corridors (Rounds 1-5)
- Out-of-state Alternative Fuel Corridors

Legend:
- DC Fast Charging Stations (Meets NEVI Criteria)
- Alternative Fuel Corridors (Rounds 1-6)
- NEVI Built-Out Corridors
- Out-of-state Alternative Fuel Corridors (Rounds 1-5)
So Cal NEVI Built Out Corridors
Nor Cal NEVI Built Out Corridors

Legend
- DC Fast Charging Stations (Meets NEVI Criteria)
- Alternative Fuel Corridors (Rounds 1-6)
- NEVI Built-Out Corridors
- Out-of-state Alternative Fuel Corridors (Rounds 1-5)
Existing and Future Conditions Analysis (2/4): Designated and Proposed Corridors in Northern California
Existing and Future Conditions Analysis (3/4): Designated and Proposed Corridors in Southern California

Legend

- Alternative Fuel Corridors (Rounds 1-5)
- Proposed Corridors (Round 6)
- Out-of-state Alternative Fuel Corridors (Rounds 1-5)

0 25 50 100 Miles
Existing and Future Conditions Analysis (4/4): Known Risks and Challenges

- Low utilization/business case
- Chargers not operated beyond required term of agreement
- Lack of public/site host awareness of chargers
- Supply chain disruptions and shortages delaying installs
- Permitting delays
- Long utility interconnection and energization timelines
- Rapid scaling of workforce for charger installations needed
- EVSE network and station reliability

Map Source:
https://california.maps.arcgis.com/apps/webappviewer/index.html?id=5b34002aaffa4ac08b84d24016bf04ce
• Competitive grant solicitations
• Divide AFCs into segments; rank segments by priority
• First year of funding will prioritize segments with infrastructure gaps
• Segments will be re-evaluated in future years and potentially re-ranked for subsequent grant solicitations
• Develop an interconnected network that meet or exceed NEVI standards
### EV Charging Infrastructure Deployment (2/2): AFC Segment Prioritization

<table>
<thead>
<tr>
<th>Corridor Type</th>
<th>CA DAC/LIC and Justice40 Communities</th>
<th>Potential Energy Demand</th>
<th>Existing and/or Planned Chargers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interstate Highway</td>
<td>• Potential locations of chargers in California DAC/LIC and Justice40 Communities</td>
<td>• EVI-RoadTrip model projected demand, based on Caltrans data</td>
<td>• Existing chargers that meet NEVI</td>
</tr>
<tr>
<td>State Route</td>
<td>• Connectivity and other benefits provided to DAC/LIC</td>
<td></td>
<td>• Planned charger deployments on AFC</td>
</tr>
<tr>
<td>US Route</td>
<td></td>
<td></td>
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Civil Rights

- Title VI (Civil Rights Act of 1964)
- California’s American Disabilities Act Compliance Standards for Electric Vehicle Charging Stations

NEVI funding will be expected to meet a minimum of:

- 50% of funding for projects within California designated disadvantaged communities and/or low-income communities
- 40% of funding in disadvantaged communities under Justice40

Quantify and measure:

- Percent of overall funding to DACs/LICs/Justice40
- Emissions reductions
- Petroleum displacement
- Access to charging infrastructure (Senate Bill 1000 Electric Vehicle Charging Infrastructure Deployment Assessment)
Labor and Workforce Considerations

• Workforce Needs for Charger Installations 2021 – 2030: 
  ~ 47,300 to 71,500 job-years

• Strong Workforce Support and Training

• On-the-Job Training for EVSE installations and service
  • Includes basic safety and health information
  • Provided to DAC/LIC and in rural areas of the state

• Tribal ZEV Training Project
  • EVITP Training and Certification to 23 California Native American tribes in rural areas of the state
## Next Steps

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Written Comments

Electronic Commenting System:
Visit the comment page for this docket at:
https://efiling.energy.ca.gov/Ecomment/Ecomment.aspx?docketnumber=22-EVI-03

Comment by E-mail:
E-mail: docket@energy.ca.gov
Subject Line: “22-EVI-03” and “NEVI Deployment Plan Development”

All comments due by Tuesday, June 28, 2022