Reimagining Highway Investments/Carbon Reduction Program

IIJA Implementation, Subgroup Kickoff Meeting #1
April 11, 2022
11:00 – 12:00 PM

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Welcome & Participation
Caltrans Highway Investments Approach
IIJA Bill Provisions
Survey Results
Next Steps
Ground Rules

- Webcam when possible
- Use ‘Chat’ feature as Parking lot for other topics
- One conversation at a time
- ‘Raise Hand’ and participate, participate, participate
Caltrans Highways Investment Approach
• Guides investments on the State Highway System (SHS) to maximize use of the existing system to:
  • Improve travel and accessibility,
  • Advance equity, environmental, climate, health, and safety goals, and
  • Promote a shift away from single occupant vehicle use by providing competitive alternatives to driving

• Strives to create a modern, efficient SHS where new lanes are only added to the network in limited cases, based on analysis of net benefits and careful consideration of other available tools and alternatives

• Will guide plans, guidance, projects going forward, as well as projects in pipeline
Carbon Reduction Program
Carbon Reduction Program (CRP) (23 USC 175)

- New Formula Program
  - CA: approx. $107m per year

- Purpose: Projects that reduce transportation emissions or the development of carbon reduction strategies.

- Focus areas:
  - Freight movement, ports, diesel engines
  - Expand multi-modal options
  - Support alternative fuel vehicles and infrastructure - hydrogen, natural gas, propane (see next slide).

- 65% of CRP funds are distributed within the state based on urbanized area population

<table>
<thead>
<tr>
<th>Carbon Reduction Program</th>
<th>FY22</th>
<th>FY23</th>
<th>FY24</th>
<th>FY25</th>
<th>FY26</th>
<th>Total Apportionment (nationally)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nationally</td>
<td>$1,234</td>
<td>$1,258</td>
<td>$1,283</td>
<td>$1,309</td>
<td>$1,335</td>
<td>$6,420</td>
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2. FHWA Budget Estimates FY23 (transportation.gov)
Carbon Reduction Program

Projects and programs that contribute to the clean modernization and transformation of our Nation’s infrastructure such as:

1. vehicle to infrastructure communications equipment
2. public electric vehicle charging infrastructure
3. energy efficient alternatives to existing street lighting and traffic control devices
4. advanced congestion management technologies
5. transit projects
6. on- and off-road pedestrian and bicycle trail facilities
7. port electrification + projects to reduce environmental, community impacts of freight movement
8. a project/strategy to support
   1. congestion pricing
   2. shifting demand to nonpeak hours or other modes
   3. increasing vehicle occupancy rates
   4. reducing demand including electronic toll collection, TDM
9. STBGP eligible projects IF State has demonstrated reduction in transportation emissions
Carbon Reduction Program Provisions (cont’d)

Develop & Update a Carbon Reduction Strategy

- States have two years to develop a carbon reduction strategy.
- Requires State, in consultation with MPOs, to develop (and update at least every 4 years) a carbon reduction strategy and submit it to DOT for approval.

DOT must certify that a State’s strategy meets the statutory requirements
Survey Results
Survey Results

Majority of respondents indicated their agencies are shifting their approach to highway investments

Key themes

➢ Strategically distribute funding
➢ Major re-envisioning of conventional state highways and interchanges optimizing existing system rather than new construction
➢ Multi-modal approach and transportation options, including bus, commuter rail, rapid transit, bike/ped
➢ Environmental mitigation efforts
Survey Results

Important topics that California should address/include in its Carbon Reduction Strategy

Key themes

➢ ZEV/ZE/NEVI (vehicle and freight electrification and charging infrastructure)
➢ Address goods/freight movement challenges
➢ Shift travel modes
➢ Multiple strategies to meet local/regional needs
➢ Roadway pricing considerations (all lane tolling; including equity considerations)
Survey Results

How should the State develop and formulate its Carbon Reduction Strategy?

Key themes

➢ Develop strategies in an open and collaborative public process
➢ Coordinate with regional/local entities since there is no “one size fits all approach”
➢ Other potential strategies?
Survey Results

What should the state’s priority be?

IIJA Priority Sections

- Pedestrian and Bicyclist
- Public Transportation
- Congestion and Traffic Management and Mitigation
- Congestion Pricing
- Emissions and Carbon Reduction
- Other
What else should be considered?
Thank you!

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