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Clean Transportation Program
Workforce Training and Development
Larry Rillera, Air Pollution Specialist
July 21, 2020
Clean Transportation Program

- Formerly known as the Alternative and Renewable Fuel and Vehicle Technology Program
- Established by Assembly Bill 118 (Nunez, 2007)
- Provides up to $100 million per year in funds
- Extended to January 1, 2024 by Assembly Bill 8 (Perea 2013)
- Develop and deploy innovative technologies that transform California's fuel and vehicle types to help attain the state's climate change policies (California Health and Safety Code Section 44272(a)).
- Total program investment in workforce training and development (to date): $33.3 million
Workforce Investment Portfolio: EVSE

• **ZEV and ZEV Infrastructure Manufacturing and Workforce**
  – Training for EVSE manufacturing
  – ChargePoint Inc., Freewire Technologies, Enel X N.A.

• **Energy Transit Apprenticeship Project (ETAP)**
  – Apprenticeship program approved by the California Division of Apprenticeship Standards for the Santa Clara Valley Transportation Authority with Mission Community College.
  – ETAP established the DAS-registered apprenticeships for municipal coach operators and service mechanics.

• **Electric School Bus Training Project**
  – Zero-emission buses (ZEB) and infrastructure (charging)
  – Focus on maintenance service technicians and coach operators
  – 64 Schools; 233 ZEB; 9 community colleges and faculty partners
Workforce Investment Portfolio: EVSE

• **AB 118 Pilot Training Project**
  – Agreement with the Employment Training Panel
  – EVITP Funded Projects:

<table>
<thead>
<tr>
<th>ETP Core Funding (2010-2012)</th>
<th>Approved Funding Amount</th>
<th>Estimated Trainees</th>
<th>Completed Training</th>
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</thead>
<tbody>
<tr>
<td>Original</td>
<td>$414,132</td>
<td>295</td>
<td>260</td>
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<table>
<thead>
<tr>
<th>CEC Funding (2012-2014)</th>
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<tbody>
<tr>
<td>Original</td>
<td>$749,708</td>
<td>1,124</td>
<td>58</td>
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<tr>
<td>As Amended*</td>
<td>$247,457</td>
<td>371</td>
<td>91</td>
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* Project reduced by $502,251 and 753 trainees
Workforce Policy Drivers

Upcoming CARB efforts - A focus on Zero and Low-Emission

Zero-Emission (ZE) Operation
- Innovative Clean Transit
- CA GHG Phase 2
- Truck OBD
- Truck Smoke Tests

ZE Airport Shuttle
- ZE truck certification
- Advanced Clean Trucks
- ZE ships at berth

Rail yard idling
- ZE TRUs

ZE forklifts
- ZE cargo equipment

ZE truck fleets
ZE drayage trucks

2018
- Lower Emissions
- Handbook-1 Warehouses
- Heavy-duty Omnibus
- Harbor craft

2019
- 2018
- Handbook-2 Ports, Rail
- Heavy-duty I/M

2020
- 2019
- Low-emission diesel fuel

2021
- 2020
- ZE forklifts

2022
- 2021
- ZE cargo equipment

Source: Sydney Vergis, Assistant Division Chief, Mobile Source Control Division, California Air Resources Board
## Proposed Workforce Training Allocations from 2020-2023 Investment Plan Update (in millions)

<table>
<thead>
<tr>
<th>Funded Activity</th>
<th>2020-2021</th>
<th>2021-2022</th>
<th>2022-2023</th>
<th>2023</th>
<th>Total</th>
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<tbody>
<tr>
<td>Workforce Training and Development</td>
<td>$1.5</td>
<td>$2.0</td>
<td>$1.5</td>
<td>$2.5</td>
<td>$7.5</td>
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