



California Energy Commission

Clean Transportation Program Investment Plan

Project Manager: Patrick Brecht

June 22, 2022



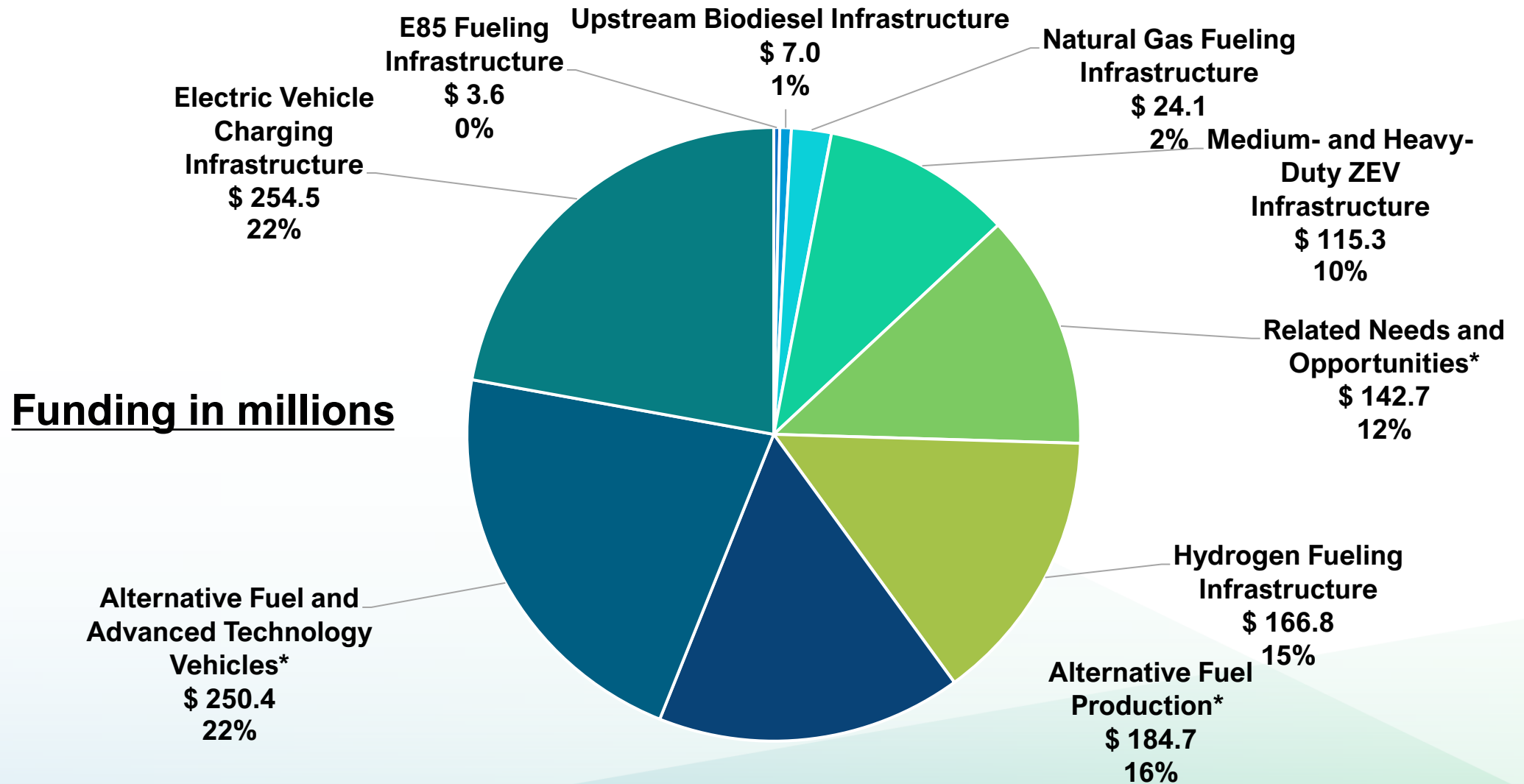
Clean Transportation Program Origins in Statute



- Established by Assembly Bill 118 (Nunez, 2007)
- Provides approximately \$95.2 million per year
- Extended to January 1, 2024 by Assembly Bill 8 (Perea, 2013)



Clean Transportation Program Investments as of December 2021





Highlights of Investments 2009-2021 (December)

15,000+ Installed or
Planned Chargers

Creation of Efficient
Block Grants for both LD
and MD/HD ZEV
Infrastructure

80 New or Upgraded
Publicly Available
Hydrogen Refueling
Stations
74 approved additional
stations

27 ZEV or ZEV
Infrastructure
Manufacturing Projects

Workforce Training for
More than 22,000
Trainees and 277
Businesses

71 Low-Carbon,
Sustainable Fuel
Production Projects
within California

Leveraged over \$700
Million in Private and
Other Public Funds



Purpose of the Investment Plan

- Guides the Clean Transportation Program's investments toward meeting the state's clean transportation goals
- Takes into consideration state regulations and other funding programs to promote coordination across agencies
- Allocates funding for multiple fuel and vehicle technologies, transportation sectors, and supporting activities (e.g. workforce development)
- Since 2020, sets multi-year funding allocations for improved planning and visibility

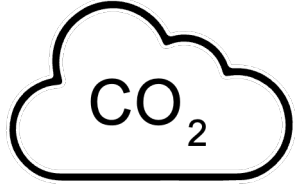


Commitment to Inclusion, Diversity, Equity and Access

- Seek to provide more than 50% of Clean Transportation Program funds to projects that benefit low-income and disadvantaged communities.
- Investment Plan input from Disadvantaged Communities Advisory Group (DACAG), diverse interests from the CTP Advisory Committee, and other groups and individual stakeholders.
- Expand outreach to local community-based organizations

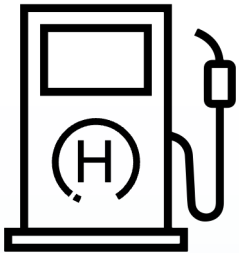


Key California ZEV Policy Goals



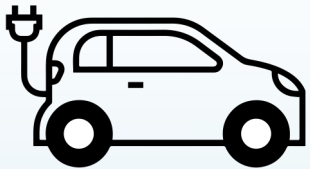
Climate

- Reduce GHG emissions to 40 percent below 1990 levels by 2030
- Achieve carbon neutrality by 2045



ZEV Infrastructure

- 250,000 electric vehicle chargers, including 10,000 DC fast chargers, by 2025
- 200 hydrogen refueling stations by 2025



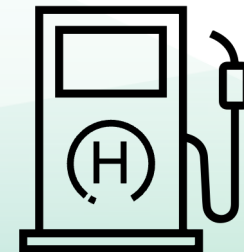
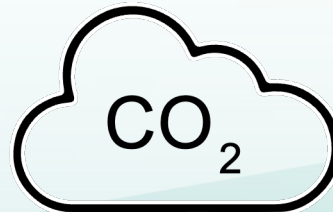
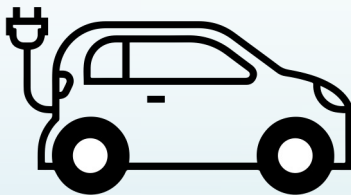
ZEV Fleet

- 1.5 million electric vehicles by 2025
- 5 million zero-emission vehicles by 2030



Executive Order N-79-20 Goals

- ✓ 100% in-state sales of new passenger cars and trucks be zero-emission by 2035
- ✓ 100% medium- and heavy-duty vehicles be zero-emission by 2045 for all operations where feasible and by 2035 for drayage trucks
- ✓ 100% zero-emission off-road vehicles and equipment by 2035 where feasible



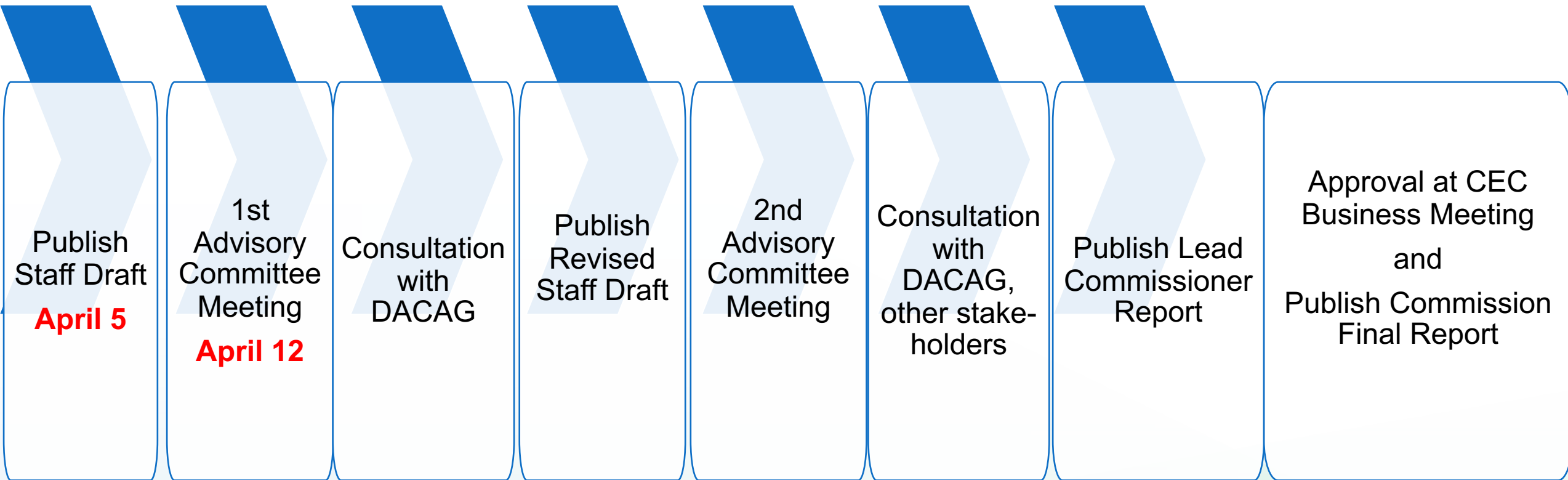


Informing the Investment Plan

- *AB 2127 Electric Vehicle Charging Infrastructure Assessment*
- *SB 1000 Electric Vehicle Charging Infrastructure Deployment Assessment*
- Public meetings/workshops with the Advisory Committee
- Consultation with the Disadvantaged Communities Advisory Group, other stakeholders
- Experience with administration of past Investment Plans
- Adjusting for General Fund augmentations



Investment Plan Process & Schedule





Key Priorities in the 2022-2023 Investment Plan Update



\$95.2 million/year as baseline funding, adjusted for General Funds from Budget Act of 2021.



Accelerate charging and hydrogen fueling station deployment and promote in-state ZEV and ZEV-related manufacturing.



Coordination across various state agencies through the Zero-Emission Vehicle Infrastructure Plan (ZIP) and other state-wide efforts



Ensuring investments benefit disadvantaged communities, low-income communities, rural communities, tribal communities, those living in multifamily housing, and others.



Future Investments

Key ZEV Clean Transportation Program Investments Planned for FYs 2022-2023 and 2023-2024



\$50M

Light-Duty
EV Charging
Infrastructure and
eMobility



\$298M

Medium and
Heavy-Duty
ZEVs and
Infrastructure
(battery-electric
and hydrogen fuel cell)



\$30M

Hydrogen
Refueling
Infrastructure



\$125M

ZEV
Manufacturing



\$10M

Workforce
Development



Combined Clean Transportation Program and General Fund Allocations in the Draft Staff Report (in millions)

Clean Transportation Program + General Fund (Budget Act of 2021)

Category	Funded Activity	FY 2021-2022 (for reference)	FY 2022-2023* (proposed)	FY 2023-2024* (proposed)
Zero-Emission Vehicles and Infrastructure	Light-Duty Electric Vehicle Charging Infrastructure and eMobility	\$30.1 (CTP) \$240.0 (GF)	\$30.1 (CTP)	\$13.8 (CTP)
Zero-Emission Vehicles and Infrastructure	Medium- and Heavy-Duty Zero-Emission Vehicles and Infrastructure (battery-electric and hydrogen fuel cells)	\$30.1 (CTP) \$361.25 (GF)	\$30.1 (CTP) \$130.0 (GF)	\$13.8 (CTP) \$125.0 (GF)
Zero-Emission Vehicles and Infrastructure	Hydrogen Fueling Infrastructure	\$20.0 (CTP) \$27.0 (GF)	\$20 (CTP)	\$10 (CTP)
Alternative Fuel Production and Supply	Zero- and Near Zero-Carbon Fuel Production and Supply	\$10.0 (CTP)	\$10 (CTP)	\$5 (CTP)
Related Needs and Opportunities	Manufacturing	\$118.75 (GF)	\$125 (GF)	-
Related Needs and Opportunities	Workforce Training and Development	\$5.0 (CTP)	\$5 (CTP)	\$5 (CTP)
	CTP Total	\$95.2	\$95.2	\$47.6
	General Fund Total	\$747.0	\$255.0	\$125.0

*Subject to appropriation by the Legislature



Governor's Proposed Budget



Governor's 2022-23 Budget

New CEC Funding: ZEV Infrastructure



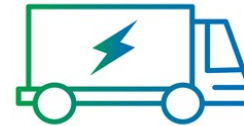
\$600 Million

ZEV Infrastructure Grants



\$300 Million

Equitable At-Home Charging



\$250 Million

Drayage



\$140 Million

Transit Buses & Infrastructure



\$500 Million

Clean Trucks, Buses and Off-Road Equipment



\$150 Million

Ports



\$100 Million

Emerging Opportunities

**\$2 BILLION
TOTAL**



California Electric Vehicle Infrastructure Project (CALeVIP) & Second Block Grants



Achievements of CALeVIP 1.0 (Light-Duty First Block Grant)

- Launched 13 projects:
 - 36 Counties
 - \$226 million in incentives (\$40 million from partners)
 - Installed:
 - 981 Level 2 connectors
 - 320 DC fast chargers
 - In progress: 4,646 Level 2 and 1,099 DC fast chargers
 - 57% in disadvantaged and/or low-income communities
- Southern CA Level 2 (P13) launched April 5, 2022, in Los Angeles, Orange, Riverside, San Bernardino counties





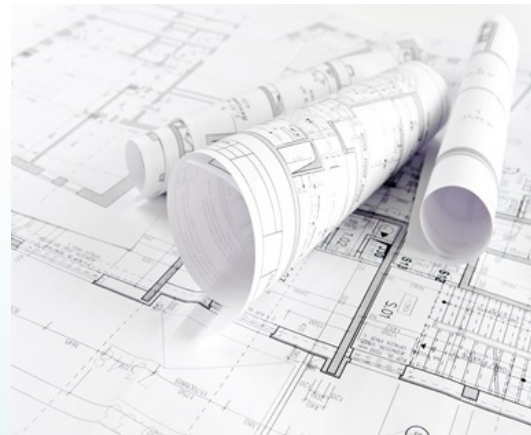
More Light-Duty Block Grants

Up to \$250 million each, for both block grants

Two Implementers: CSE and CALSTART

Goal: Fund & Deploy EV chargers across state regions & use cases

Project Launches – Q4 2022





Expanding EV Infrastructure





Expansion of Light-Duty EV Infrastructure & Encouraging EV Adoption

REACH: Multifamily Housing
Charging Accessibility
\$8.5 million



CARTS: On-demand Transportation
Services
\$16.6 million



REV: Rural Drivers
Station Availability
\$4.8 million





Medium- and Heavy-Duty Block Grant





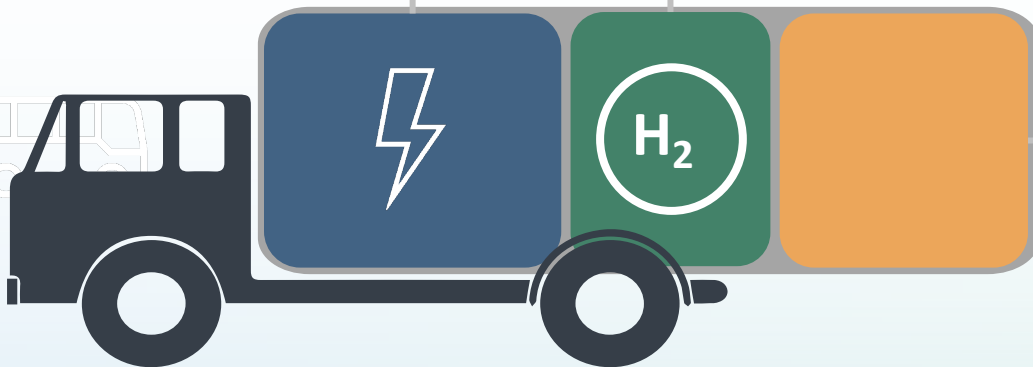
EnergIIZE

Energy Infrastructure Incentives for Zero-Emission Commercial Vehicles

EnergIIZE Commercial Vehicles provides financial incentives to increase the adoption of commercial zero emission medium- and heavy-duty (MHD) vehicles to promote healthy communities

EnergIIZE helps commercial fleets keep pace with industry demands as they transition to zero-emission vehicles, and helps advance zero-emission **infrastructure** technology

Up to \$276m funding by the Clean Transportation Program (CTP)





energIIZE

COMMERCIAL VEHICLES



EV Fast-Track
Applicants in this funding lane are ready to go and may already have prior experience applying for commercial MHD EV funding



EV Jump Start
Applicants in this funding lane will need to meet specific eligibility criteria and will be allotted more time to submit required documents



EV Public Charging Station
Applicants in this funding lane intend to develop publicly available charging stations for commercial MHD EVs



Hydrogen
Applicants in this funding lane intend to develop a hydrogen infrastructure project for commercial MHD vehicles



Closing Links and Contact

More information:

<https://www.energy.ca.gov/programs-and-topics/topics/transportation>

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