

California Vehicle Incentives

Green California Summit

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Center for
Sustainable Energy™

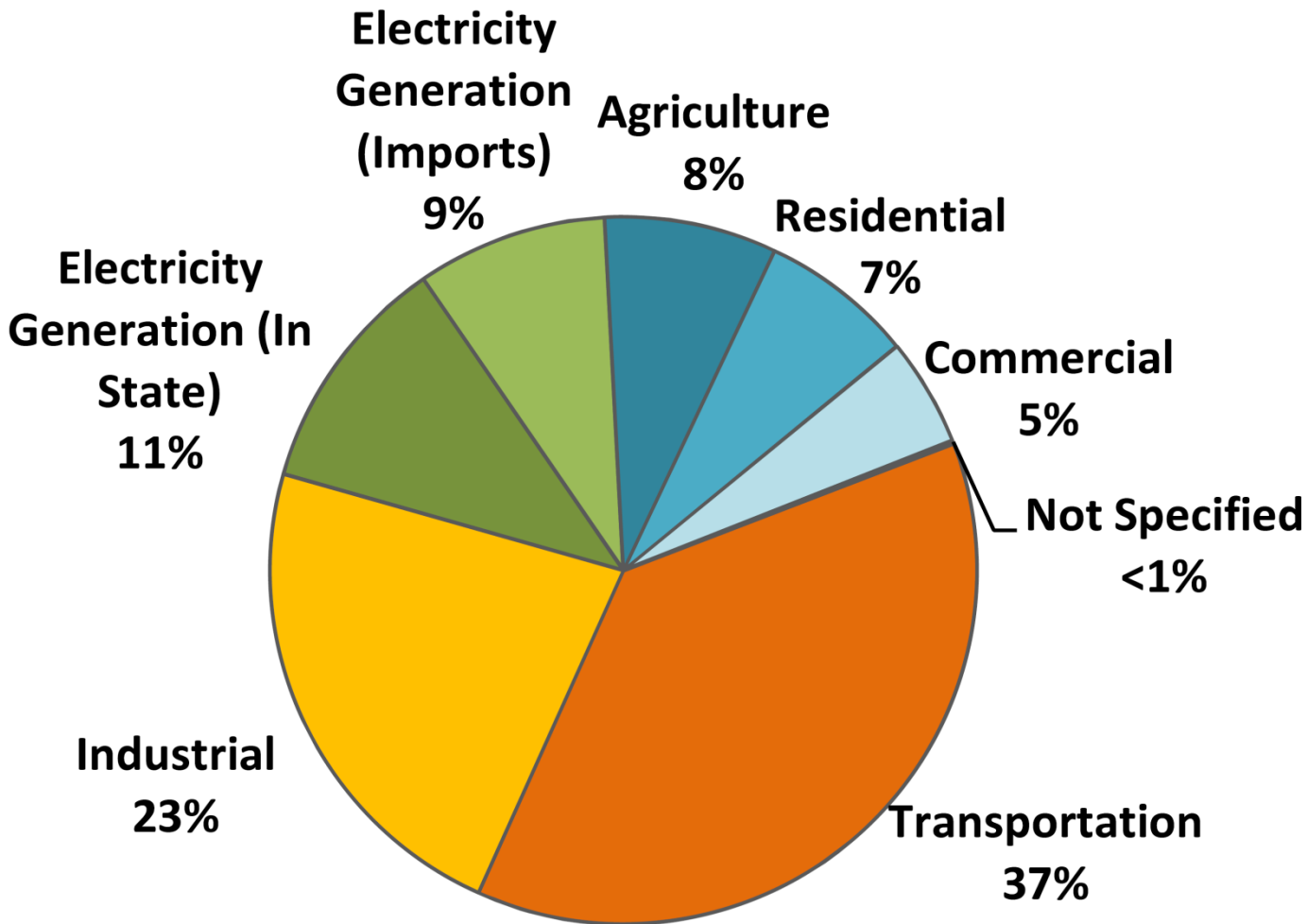
Our Mission:

Accelerate the transition
to a sustainable world
powered by clean energy

Agenda

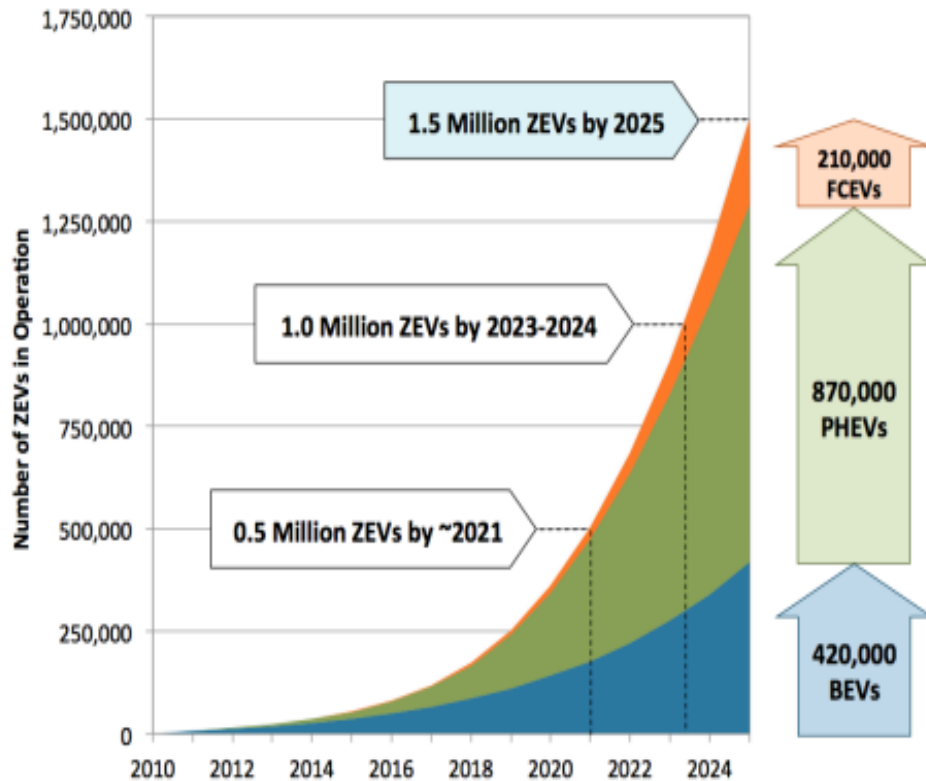
- Policy Context
- Light-Duty Incentives
- Medium-Heavy Duty Incentives
- Other Funding
- Conclusions

Policy - Where we are at

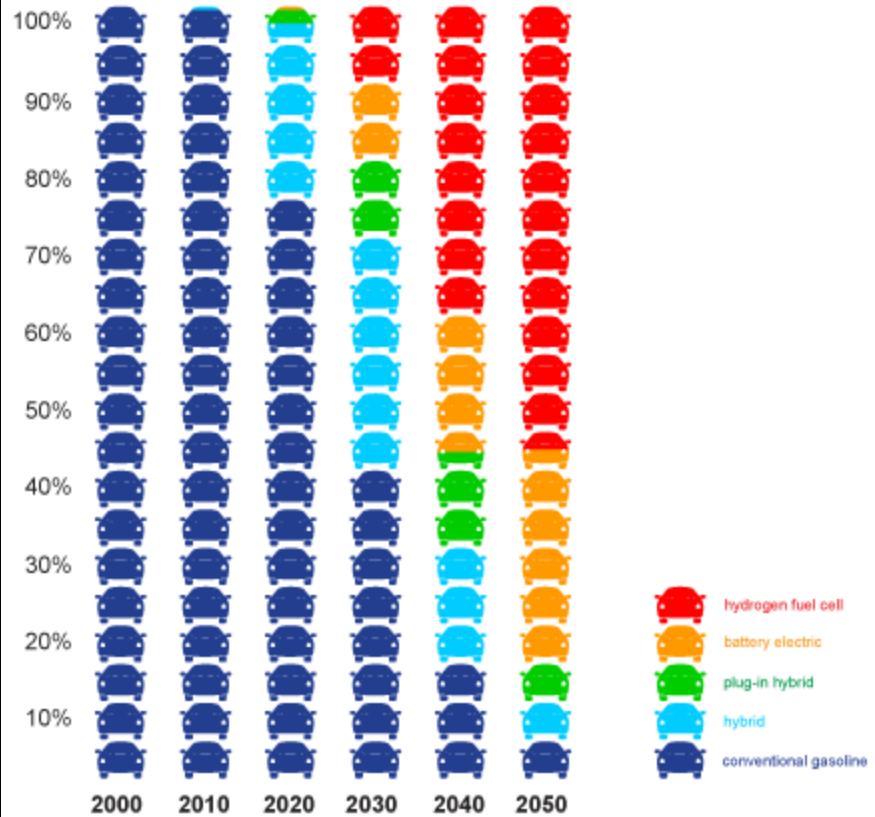


2013 Total CA Emissions: 459.3 MMTCO₂e

Policy- Where we need to go

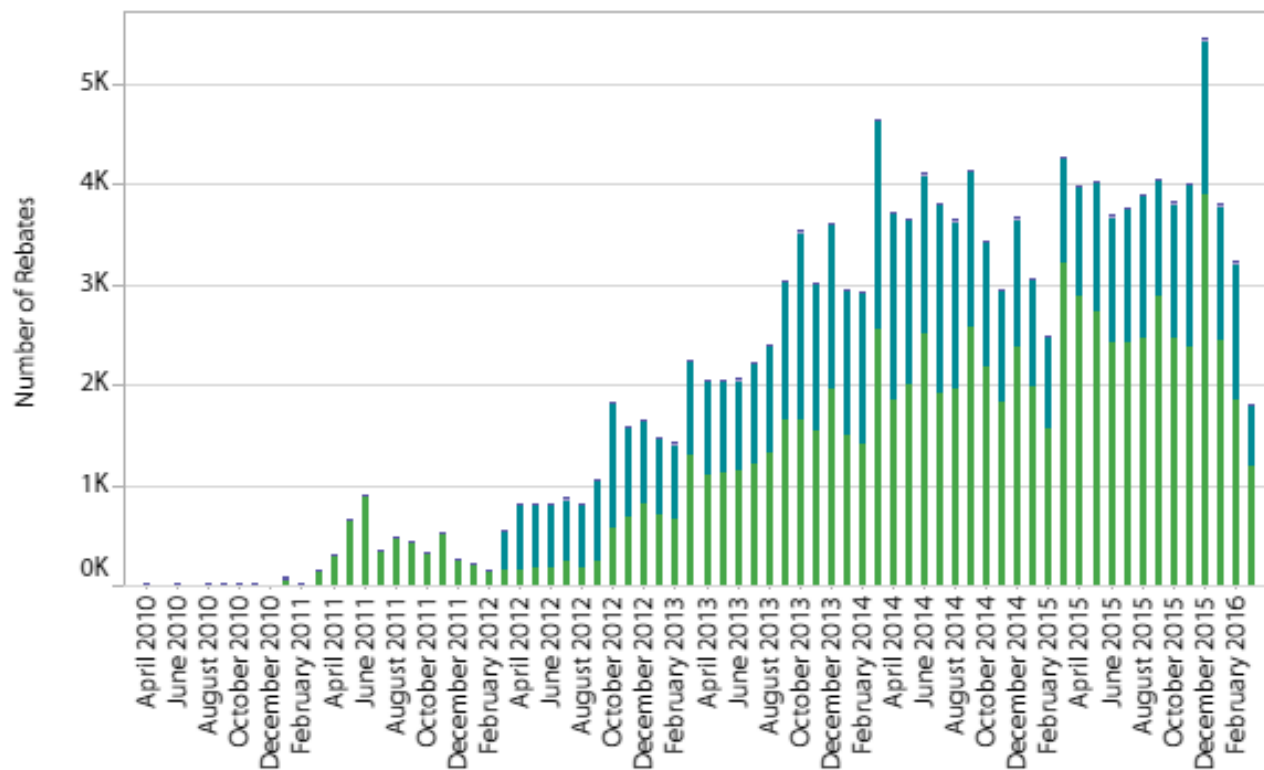


Makeup of California's on-road passenger vehicle fleet needed to reach 2050 goal



Rebate Statistics

CVRP Rebates by Month



Vehicle Category

■ BEV
 ■ PHEV
 ■ FCEV
 ■ Other

BEV	Highway capable, four-wheeled, all-battery electric vehicle
PHEV	Highway capable, four-wheeled, plug-in hybrid electric vehicle (electricity & gasoli..
FCEV	Fuel-cell electric vehicle
Other	Non-highway, motorcycle & commercial BEVs

Rebates & Rebate Funding Issued & Approved to Date - Life of Project

	Rebates	Funding
BEV	85,040	216,323,208
PHEV	58,277	87,335,076
FCEV	178	812,500
Other	617	1,534,950
Grand Total	144,112	306,005,734

Filter by Application Date

March 18, 2010
April 8, 2016

<https://cleanvehiclerebate.org/eng/rebate-statistics>

Clean Vehicle Rebate Project (CVRP)

California Environmental Protection Agency



Post-delivery rebates for new electric vehicles (EVs) bought or leased statewide:

- **\$5,000** for fuel-cell EVs
- **\$2,500** for all-battery EVs
- **\$1,500** for plug-in-hybrid EVs
- **\$900** for motorcycle & neighborhood EVs

CVRP Requirements

- Take delivery prior to application
- New vehicles only
- Registered with CA DMV
- Purchases or leases of at least 30 months

CVRP – Public Fleets

- Federal, state or local government entity based in CA
- 30 rebates per fleet per calendar year
- “Fleet” defined by Taxpayer Identification Number
- Increased incentives available to **state and local public agencies** through the new Public Fleet Pilot Project

Public Fleet Pilot Project

Increased Incentives for Public Fleets in Disadvantaged Communities

- Local and state agencies in disadvantaged communities
- New vehicle **purchases** on or after July 1, 2014
- Reserve rebate funds up to 6 months prior to vehicle delivery

California Environmental Protection Agency

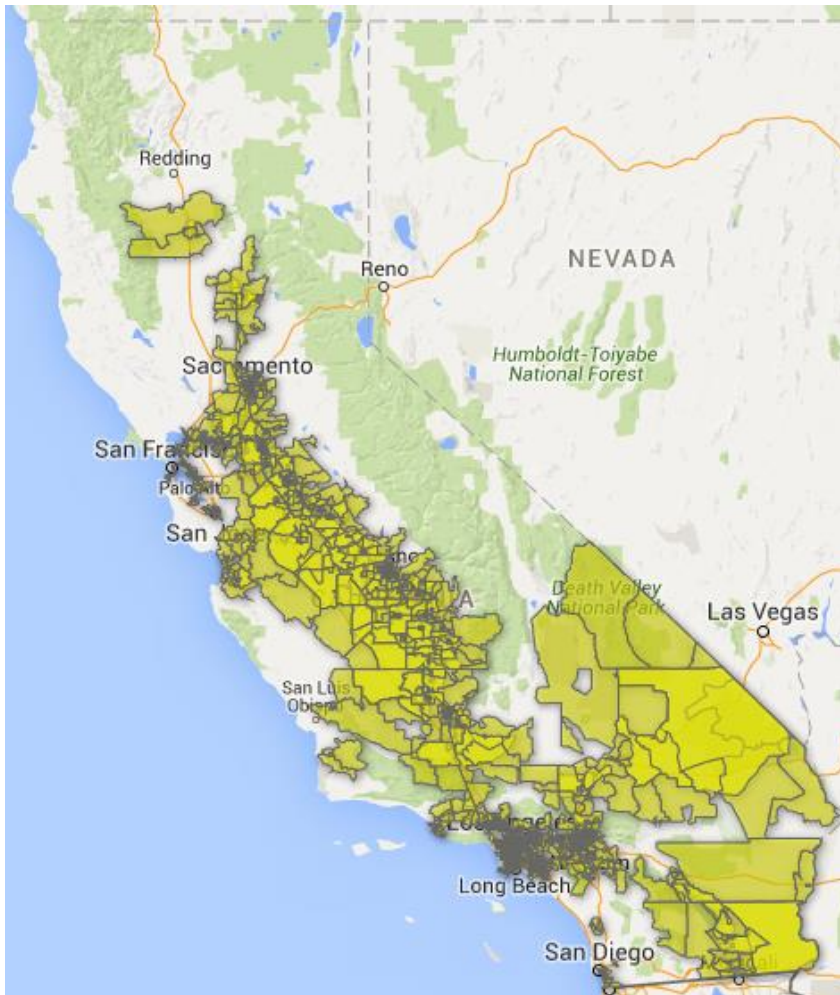
 **Air Resources Board**

\$15,000 for fuel-cell electric vehicles

\$10,000 for battery-electric vehicles

\$5,250 for plug-in-hybrid electric vehicles

Public Fleet Pilot Project - Eligibility



- CalEPA's CalEnviroScreen model
- ZIP code of vehicle domicile facility
- Check your ZIP code at cleanvehiclerebate.org/PFP

Domicile Location Eligibility Check

Zip / Postal Code

Click the search button to see if your vehicle domicile location is eligible for increased rebates.

Search

Apply Now

Increase Your Savings

The Public Fleet Pilot Project rebate **can** be combined with:

- Local air district funding
- State or federal grants

(more info at driveclean.ca.gov)

It **cannot** be combined with:

- Standard CVRP rebate
- Federal tax credit

CVRP and PFP Requirements

Project Parameter	Standard CVRP	Public Fleet Pilot Project
Eligible Fleet Types	Public and Private	Public - State and Local
Locations eligible	Statewide	Disadvantaged Communities
Pre-delivery reservations	No	Optional
NEVs/ZEMs eligible	Yes	No
Leases eligible	Yes	No

CVRP and PFP Incentives

Technology Type	Standard CVRP	Public Fleet Pilot Project
Fuel-cell EV	\$5,000	\$15,000
All-battery EV	\$2,500	\$10,000
Plug-in hybrid EV	\$1,500	\$5,250
NEV/ZEM	\$900	N/A

HVIP

The California Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP) is a streamlined program to help speed the early market introduction of clean, low-carbon hybrid and electric trucks and buses.



HVIP Incentives- Zero Emissions

GVWR (lbs)	Base Vehicle Incentive		
	1 to 100 vehicles ¹		101 to 200 vehicles
	Outside DC ²	Within DC ²	
5,001 – 8,500	\$20,000	\$25,000	\$12,000
8,501 – 10,000	\$25,000	\$30,000	\$18,000
10,001 – 14,000 ³	\$50,000	\$55,000	\$30,000
14,001 – 19,500	\$80,000	\$90,000	\$35,000
19,501 – 26,000	\$90,000	\$100,000	\$40,000
> 26,000	\$95,000	\$110,000	\$45,000

1 - The first three vouchers received by a fleet, inclusive of previous funding years, are eligible for the following additional funding amount: \$2,000/vehicle if below 8,501 lbs; \$5,000/vehicle if 8,501 to 10,000 lbs; and \$10,000/vehicle if over 10,000 lbs.

2 – ‘DC’ refers to a disadvantaged community.

3 - This weight range is not intended for vehicles utilizing a pick-up truck chassis/platform typically found in vehicles below 10,001 lbs GVWR. Vehicles at the lower end of the 10,001 to 14,000 lbs weight range will be evaluated on a case-by-case basis to determine eligibility for the full Base Vehicle Incentive.

HVIP Incentives- Hybrids

GVWR (lbs) ¹	Base Vehicle Incentive	
	1 to 100 vehicles ²	101 to 200 vehicles
6,001 – 8,500 (plug-in hybrids only) ³	\$ 8,000	\$ 6,000
8,501 – 10,000 (plug-in hybrids only) ³	\$10,000	\$ 8,000
10,001 – 19,500	\$15,000	\$10,000
19,501 – 33,000	\$20,000	\$12,000
33,001 – 38,000	\$25,000	\$15,000
> 38,000	\$30,000	\$20,000

1 - Tractor trailers utilize Gross Combined Vehicle Weight for purposes of determining Base Vehicle Incentive.

2 - The first three HVIP vouchers received by a fleet, inclusive of previous funding years, are eligible for the following additional funding amount: \$2,000/vehicle if below 8,501 lbs; \$5,000/vehicle if 8,501 to 19,500 lbs; and \$10,000/vehicle if over 19,500 lbs.

3 - Vehicle must be ARB-certified as an Ultra-Low Emission Vehicle. Voucher amount is increased by \$2,000 for each of the following: ARB-certification as a Super Ultra Low Emission Vehicle and ARB-certification for zero-evaporative emissions.

Energy Commission Funding

Table 3: Previous ARFVTP Awards as of December 31, 2015

Category	Funded Activity	Cumulative Awards to Date (in millions)*	# of Projects or Units
Alternative Fuel Production	Biomethane Production	\$50.9	16 Projects
	Gasoline Substitutes Production	\$27.2	14 Projects
	Diesel Substitutes Production	\$57.4	20 Projects
Alternative Fuel Infrastructure	Electric Vehicle Charging Infrastructure	\$40.7	7,490 Charging Stations
	Hydrogen Refueling Infrastructure	\$96.0	49 Fueling Stations
	E85 Fueling Infrastructure	\$13.7	158 Fueling Stations
	Upstream Biodiesel Infrastructure	\$4.0	4 Infrastructure Sites
	Natural Gas Fueling Infrastructure	\$21.0	65 Fueling Stations
Alternative Fuel and Advanced Technology Vehicles	Natural Gas Vehicle Deployment**	\$56.4	2,809 Vehicles
	Propane Vehicle Deployment**	\$6.0	514 Trucks
	Light-Duty Electric Vehicle Deployment	\$25.1	10,700 Cars
	Medium- and Heavy-Duty Electric Vehicle Deployment	\$4.0	150 Trucks
	Medium- and Heavy-Duty Vehicle Technology Demonstration and Scale-Up	\$93.7	44 Demonstrations
Related Needs and Opportunities	Manufacturing	\$57.0	22 Manufacturing Projects
	Emerging Opportunities	†	†
	Workforce Training and Development	\$27.7	83 Recipients
	Fuel Standards and Equipment Certification	\$3.9	1 Project
	Sustainability Studies	\$2.1	2 Projects
	Regional Alternative Fuel Readiness and Planning	\$7.6	34 Regional Plans
	Centers for Alternative Fuels	\$5.8	5 Centers
	Technical Assistance and Program Evaluation	\$5.6	n/a
Total		\$606.0	

Energy Commission Funding

Table 4: Most Recent and Current Proposed Investment Plan Allocations (in millions)

Category	Funded Activity	2014-2015	2015-2016	2016-2017 (Proposed)
Alternative Fuel Production	Biofuel Production and Supply	\$20	\$20	\$20
Alternative Fuel Infrastructure	Electric Charging Infrastructure	\$15	\$17	\$17
	Hydrogen Refueling Infrastructure	\$20	\$20	\$20
	Natural Gas Fueling Infrastructure	\$1.5	\$5	\$2.5
Alternative Fuel and Advanced Technology Vehicles	Natural Gas Vehicle Incentives	\$10	\$10	\$10
	Light-Duty Electric Vehicle Deployment	\$5	-	-
	Medium- and Heavy-Duty Vehicle Technology Demonstration and Scale-Up	\$15	\$20*	\$23*
Related Needs and Opportunities	Manufacturing	\$5		
	Emerging Opportunities	\$6	\$3	\$3
	Workforce Training and Development Agreements	\$2.5	\$3	\$2.5
	Regional Alternative Fuel Readiness and Planning	-	\$2	\$2
Total		\$100	\$100	\$100

Source: California Energy Commission. *See the text of these respective sections in Chapters 5 and 6 for details on the combination of these funding allocations.

<http://www.energy.ca.gov/contracts/transportation.html>

Available Incentives

Federal Programs	Details
Alternative Fuel Infrastructure Tax Credit	Commercial fueling equipment eligible for a 30% tax credit up to \$30,000.
CARB Programs	Details
Carl Moyer Memorial Air Quality Standards Attainment Program	Funding for cleaner on-road, off-road, marine, locomotive, agricultural vehicles being scrapped
Proposition 1B: Goods Movement Emissions Reduction Program	Financial incentives to owners of cleaner technology equipment used in freight movement
Light duty pilot projects in disadvantaged communities	EEFMP plus-up, car sharing, financing, vanpools
Heavy Duty investments	Advanced technology demonstrations, pilot deployments, low NOx engines, financing

Conclusions

- California has aggressive clean vehicle policies
 - Driven by climate and air quality concerns
- High level of consumer adoption of Light Duty ZEV, but more is needed
- Generous incentives for MD/HD ZEVs
- Fleets must get ready to take advantage of programs before they become mandates.



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