



Preparing for 2022 Funding Applications

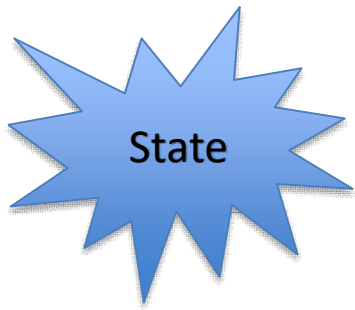
PEV DAC Subcommittee

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Presentation Overview

- Substantial amount of zero emission vehicle funding in 2022
- Exact application periods and requirements are still under development
- Funding targeted to improve disadvantaged communities
- Potential applicants can get an advantage if they prepare now



Zero-Emission Vehicle Investments

(Dollars in Millions)

Investment Category	Program	2021 ZEV Package Multi-Year Investment	2022 ZEV Package Multi-Year Investment	ZEV Package Totals
Passenger Vehicles	Clean Vehicle Rebate Project	\$525	\$0	\$525
	Clean Cars 4 All & Other Equity Projects	\$400	\$256	\$656
	ZEV Fueling Infrastructure Grants	\$300	\$600	\$900
	Equitable At-home Charging	\$0	\$300	\$300
Big ZEVs	Drayage Trucks & Infrastructure	\$470	\$475	\$945
	Drayage Trucks & Infrastructure Pilot Project	\$65	\$0	\$65
	Transit Buses & Infrastructure	\$290	\$460	\$750
	School Buses & Infrastructure	\$450	\$1,500	\$1,950
	Clean Trucks, Buses and Off-Road Equipment	\$700	\$1,100	\$1,800
	Ports	\$0	\$400	\$400
	Near-Zero Heavy Duty Trucks	\$45	\$0	\$45
Other	ZEV Consumer Awareness	\$5	\$0	\$5
	ZEV Manufacturing Grants	\$250	\$0	\$250
	Community-Based Plans, Projects and Support / Sustainable Community Strategies	\$0	\$419	\$419
	Emerging Opportunities	\$0	\$200	\$200
	Transportation Package ZEV	\$407	\$383	\$790
Totals		\$3,907	\$6,093	\$10,000

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Program Name	Agency Name	Funding Amount
National Electric Vehicle Infrastructure Formula Program	Department of Transportation	\$5,000,000,000
Charging and Fueling Infrastructure Grants (Community Charging)	Department of Transportation	\$1,250,000,000
Charging & Fueling Infrastructure Grants (Corridor Charging)	Department of Transportation	\$1,250,000,000
Low or No Emission (Bus) Grants	Department of Transportation	\$5,624,550,890
Clean School Bus Program	Environmental Protection Agency	\$5,000,000,000
Electric or Low-Emitting Ferry Program	Department of Transportation	\$250,000,000
Electric Drive Vehicle Battery Recycling And 2nd Life Apps	Department of Energy	\$200,000,000
Low or No Emission Vehicle Component Assessment Program	Department of Transportation	\$26,169,974
TOTAL - ELECTRIC VEHICLES, BUSES AND FERRIES		\$18,600,720,864

Statewide Funding

- \$10 billion in new state funds for ZEV vehicles and infrastructure
- \$18 billion in new federal infrastructure funding for vehicles and infrastructure
- Other state funding for VW Mitigation and Carl Moyer Program for \$535 million
- Funding likely over next 2-3 years, but applications soon

Preparing For Vehicle Applications

- What type of vehicles? Cars, light trucks, large trucks, buses
- Vehicle that meets your needs and range
- Talk with dealers to design and price the equipment
- Prepare historic usage and ownership paperwork
- Set a timeline that accounts for delays in approvals, manufacturing, and funding

Best Practices for Vehicles

- Plan for COVID and post-COVID needs
- 5-10 year purchasing plan instead of piecemeal
- Use existing vehicles, don't plan on new technology
- Prepare for challenges including maintenance, downtime, and other unknowns
- Work with drivers, maintenance, and facilities staff to build a coalition rather than forcing technology

Preparing For Infrastructure Applications

- What type of charging? AC or DC?
- Work with utility and electrician before application to determine site requirements
- Get detailed cost quotes including site work, transformer upgrades, and equipment costs
- Set a timeline that accounts for delays in approvals, manufacturing, and funding

Best Practices for Infrastructure

- Long term planning for infrastructure – parking locations, utility access and support, future-proofing installations
- Site work is the most expensive component; overbuild when possible, with stub outs for future expansion
- Work with utility for planning new and future transformer needs and power supply
- Investigate locating light duty charging into commercial plans

Assisting Disadvantaged Communities

- Many applications receive preference if based in DAC
- Using CES 3.0 or 4.0? Check both
- Work with business owners and landlords early in the process
- Nonprofits and community groups lack staff and resources and need assistance in planning and applying
- Infrastructure is often more neglected in DAC requiring more cost and time to support ZEV

ZEV Infrastructure and Land Use Planning

- Infrastructure construction requires compliance with CEQA and zoning by jurisdiction
- Planned charging should compliment or enhance existing or future land use
- Siting infrastructure on a property important
- Implications for transportation networks with shared mobility and autonomous vehicles

Discussion