

Innovative Clean Transit

Incentive Funding for Zero-Emission Transit Buses



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South Coast AQMD

October 2019

VW Mitigation Funds for California



1st Installment: \$65M
Total Funding: \$130M

**Zero-Emission
Transit, School,
and Shuttle Bus**



1st Installment: \$27M
Total Funding: \$90M

**Zero-Emission
Class 8 Freight
and Port Drayage
Trucks**



1st Installment: \$30M
Total Funding: \$60M

**Combustion
Freight and Marine
Projects**



1st Installment: \$35M
Total Funding: \$70M

**Zero-Emission
Freight and Marine
Projects**



Total Funding: \$10

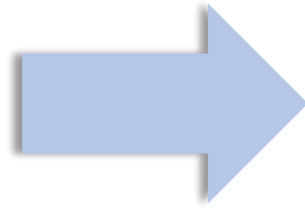
**Light-Duty Zero-
Emission
Infrastructure**

Zero-Emission Transit, School, and Shuttle Buses – Key Points



**Total Statewide
Funds: \$130M**

**Zero-Emission
Transit, School, and
Shuttle Bus**



Who Can Apply?

Public and private
organizations
statewide

Type of Solicitation:

First-Come,
First-Served

1st Installment

\$65M available
Opens October
2019

Priority Funding:

Disadvantaged or
low income
communities

Project Funding Table

Vehicle Type	Vehicle Class	Replacement Technology	Applicant	Maximum Funding Percentage (of Total Cost)	Maximum Funding Limit (per Vehicle)
School Bus	4 to 8	Zero Emission	Government	100%	\$400,000
			Non-Government	75%	
Transit Bus	4 to 8	Battery Electric	Government	100%	\$180,000
			Non-Government	75%	
		Fuel Cell	Government	100%	\$400,000
			Non-Government	75%	
Shuttle Bus	4 to 8	Zero Emission	Government	100%	\$160,000
			Non-Government	75%	

Grantee Reporting and Operational Requirements



Inspection

- Old and new engine/vehicle will need to be made available for inspections



Operation

- “Grant-funded” engine/vehicle needs to be operated in accordance with contract requirements



Payment

- Submit request for grant funds AFTER receiving grant award and project completion



Reporting

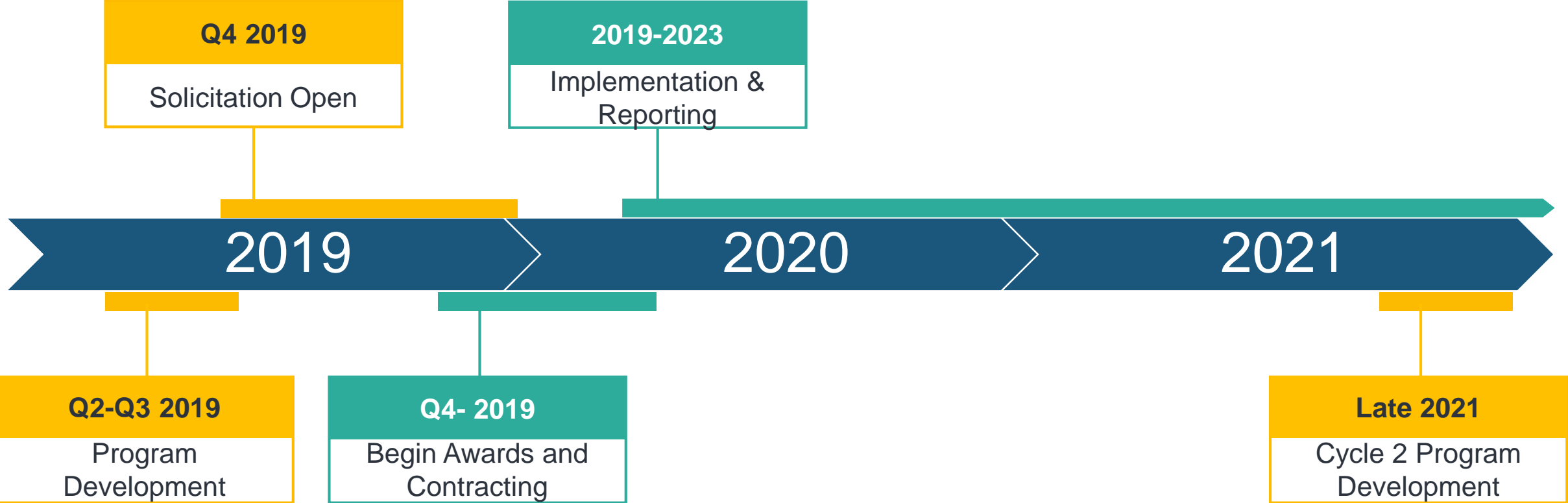
- Submit annual reports for the term of the contract (expected contract term is 3 years)



Scrapping

- Old engine/vehicle needs to be scrapped and replaced with “grant-funded” engine/vehicle

Tentative Schedule



Administrator of VW Bus Category:



San Joaquin Valley APCD:

<http://vwbusmoney.valleyair.org/>

Innovative Clean Transit

Carl Moyer Program Funding Opportunities for Transit Buses and Infrastructure

October 2019

Carl Moyer Program : General Information

THE CARL MOYER PROGRAM GUIDELINES

2017 Revisions

VOLUME I: PROGRAM OVERVIEW, PROGRAM
ADMINISTRATION AND PROJECT CRITERIA



Approved by the Board: APRIL 27, 2017

California Environmental Protection Agency
 **Air Resources Board**

- Carl Moyer Program Announcement expected to open March 2020
- Competitive process
- Project selection will be based on cost effectiveness (\$/tons reduced)
- Priority given to zero emission technologies (pending availability of funds and Board direction)

Carl Moyer Program: Funding Caps



Vehicle Type	Project Type	Replacement Technology	State Funding Cap
Transit Bus	Replacement	Optional Low NOx	\$25,000
	Repower	Optional Low NOx	\$20,000
	Replacement / Conversion	Zero-Emission	\$80,000

Carl Moyer Program: General Requirements

- Maximum project life is 12 years (dependent on regulatory requirements)
- Emission reductions must be surplus to the Transit Bus Regulation
- Grant amounts will be based on the minimum of two 12-month periods of California mileage during the previous 24-months
- Replacement engine must be CARB-certified to meet the emissions levels of 0.10 g/bhp-hr NO_x or cleaner
 - South Coast AQMD may restrict Carl Moyer funding to those transit buses meeting the lowest optional low NO_x standard of 0.02 g/bhp-hr.

Carl Moyer: Project Eligibility

- Applicant must be the owner of the existing vehicle (demonstrated by clean vehicle title)
- Applicant must have owned and operated the existing vehicle for the previous 24 months
- The existing vehicle must be currently operational and roadworthy
- Existing vehicle must be scrapped

Carl Moyer Program: Infrastructure



Carl Moyer Program Infrastructure: Eligible Projects

- Infrastructure for zero or near-zero emission heavy-duty vehicles
- New, conversion or expansion of existing stations
- Battery charging station
- Alternative fuel station (renewable natural gas, hydrogen fueling)

Carl Moyer Program Infrastructure: Funding Table

Maximum Percentage of Eligible Cost *	Infrastructure Project Type
50%	All Project Types (electric charging, hydrogen fueling or renewable natural gas)
60%	Publicly Accessible Projects
65%	Projects with Solar/Wind Power Systems
75%	Publicly Accessible Projects with Solar/Wind Power Systems

* Additional funding criteria may apply, as determined by South Coast AQMD's Governing Board.

Carl Moyer Program Infrastructure: Eligible Costs

- Limited to the purchase and installation of the equipment for power delivery or fueling directly related to the infrastructure project
- Must utilize commercially available technologies
- Equipment and parts must be new
- Eligible project costs include:
 - Cost of design and engineering (i.e., labor, site preparation, Americans with Disabilities Act accessibility, signage)
 - Cost of equipment (e.g., charging/fueling units, parts for electrical upgrade, energy storage equipment, materials)
 - Meter/data loggers
 - On-site power generation system that fuels or powers covered sources (i.e., solar and wind power generation equipment)

Carl Moyer Program Infrastructure: Ineligible Costs

- Existing station enhancement
- Fuel and energy costs
- Operation cost (e.g., operational fees, maintenance, repairs, improvements, spare parts)
- Extended warranty
- Insurance
- Data collection and reporting
- Travel/lodging
- Travel/lodging
- Employee training and salaries
- Legal fees
- Real estate property purchase/leases
- Security costs
- Testing and soil sampling
- Hazardous materials, including permitting, handling and disposal

Contact Information: South Coast AQMD



For more information, please visit:

VW Mitigation: <http://www.aqmd.gov/vw/>

Carl Moyer: <http://www.aqmd.gov/moyer>

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VW Mitigation Program

- Combustion Freight and Marine Projects
- Zero-Emission Class 8 Freight and Port Drayage Trucks

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