



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

## HYBRID TECHNOLOGY COMMITTEE MEETING

Mayor Carlos Rodriguez, Committee Chair  
Supervisor Curt Hagman  
Mayor Patricia Lock Dawson  
Councilmember Larry McCallon  
Supervisor Janet Nguyen  
Board Member Veronica Padilla-Campos

**March 20, 2026 ♦ 12:00 p.m.**

### TELECONFERENCE LOCATIONS

Yorba Linda Public Library Study Room 2 4852 Lakeview Avenue Yorba Linda, CA 92886	Riverside City Hall 3900 Main Street 7 <sup>th</sup> Floor Conference Room Riverside, CA 92522	Huntington Beach Central Library Balboa Room 7111 Talbert Avenue Huntington Beach, CA 92648
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**A meeting of the South Coast Air Quality Management District Technology Committee will be held at 12:00 p.m. on Friday, March 20, 2026 through a hybrid format of in-person attendance in the Dr. William A. Burke Auditorium at the South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, and remote attendance via videoconferencing and by telephone. Please follow the instructions below to join the meeting remotely.**

**Please refer to South Coast AQMD's website for information regarding the format of the meeting, updates if the meeting is changed to a full remote via webcast format, and details on how to participate:**

<http://www.aqmd.gov/home/news-events/meeting-agendas-minutes>

### ELECTRONIC PARTICIPATION INFORMATION (Instructions provided at bottom of the agenda)

*Join Zoom Meeting - from PC or Laptop*

<https://aqmd.zoomgov.com/j/1605167850>

**Zoom Webinar ID: 160 516 7850 (applies to all)**

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**Audience will be allowed to provide public comment in person  
or through Zoom connection or telephone.**

**PUBLIC COMMENT WILL STILL BE TAKEN**

*Cleaning the air we breathe...*

**AGENDA**

*Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't. Code Section 54954.3(a)). If you wish to speak, raise your hand on Zoom or press Star 9 if participating by telephone. All agendas for regular meetings are posted at South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes total for all items on the agenda.*

*Please note that under the California Public Records Act (Gov't. Code § 7920.000 et seq.) your written and oral comments, attachments, and associated contact information (e.g., your address, phone, email) become part of the public record and can be released to the public on request or posted on the South Coast AQMD website.*

**CALL TO ORDER**

**ROLL CALL**

**ACTION ITEMS: (1-2)**

**1. Adopt Resolution to Recognize Funds for FY 2025-26 Year 28 Carl Moyer Program, Execute Contracts to Implement Carl Moyer, SOON, and Community Air Protection Programs, and Reimburse the General Fund for Administrative Costs (*Motion Requested*)**

Alyssa Yan  
Program Supervisor

In March 2025, Program Announcements for Year 27 of the Carl Moyer Program and Surplus Off-Road Opt-in (SOON) Program were released and closed in July 2025. The solicitations generated an unprecedented response, with approximately \$700 million in grant applications. Staff has identified \$235 million to support project awards with the remaining eligible projects placed on an extensive backup list as contingency should additional funds be made available. Eligible applications were evaluated and ranked based on cost-effectiveness, domicile location, and the prioritization of zero-emission technologies and infrastructure projects. These actions are to: 1) adopt resolution and recognize up to \$47,196,730 of the FY 2025-26 Year 28 Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) funds from CARB, into the Carl Moyer Program Fund (32); 2) execute contracts to implement the Carl Moyer Program, SOON, At Berth Remediation, and Community Air Protection Programs (CAPP) in the amount of \$235,370,261 as identified in Tables 2, 3 and 4; 3) if needed, authorize the Executive Officer to redistribute funding sources for the awarded projects between various incentive programs, to ensure liquidation targets are met; and 4) reimburse the General Fund (01) up to \$5,894,966 and \$5,899,591 from the Carl Moyer Program Fund (32) Year 27 and Year 28, respectively, for administrative costs necessary to implement the Carl Moyer program.

**2. Execute Contract to Develop and Demonstrate Plug-In Hybrid Heavy-Duty Refuse Truck (*Motion Requested*)**

Sam Cao, Ph.D.  
Program Supervisor

CARB's Advanced Clean Fleets (ACF) regulation mandates a transition to zero-emission vehicles for state and local government fleets. The plug-in hybrid vehicles with minimum all-electric range are permitted as compliance options for the ACF regulation. While plug-in hybrid technology development has been demonstrated for drayage applications, it has not yet been developed or proven in the refuse sector. Peterbilt Motors Company, in partnership with Brudeli Green Mobility, Cummins, and Hexagon Agility, proposes to develop a plug-in hybrid heavy-duty refuse truck and demonstrate it with Waste Management Collection & Recycling, Inc. The emissions testing will be conducted by University of California, Riverside Center for Environmental Research and Technology. This action is to execute a contract with Peterbilt Motors Company in an amount not to exceed \$1,000,000 to develop and demonstrate a plug-in hybrid heavy-duty natural gas refuse truck, from the Clean Fuels Program Fund (31).

**3. Other Business**

Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Gov't. Code Section 54954.2)

**4. Public Comment Period**

At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the Committee's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.

**5. Next Meeting Date**

**Friday, April 17, 2026 at 12:00 p.m.**

**ADJOURNMENT**

**Document Availability**

*All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available by contacting Penny Shaw Cedillo at 909.396.3179, or send the request to [pcedillo@aqmd.gov](mailto:pcedillo@aqmd.gov).*

### **Americans with Disabilities Act and Language Accessibility**

*Disability and language-related accommodations can be requested to allow participation in the Technology Committee meeting. The agenda will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). In addition, other documents may be requested in alternative formats and languages. Any disability or language-related accommodation must be requested as soon as practicable. Requests will be accommodated unless providing the accommodation would result in a fundamental alteration or undue burden to South Coast AQMD. Please contact Penny Shaw Cedillo at 909.396.3179 from 7:00 a.m. to 5:30 p.m., Tuesday through Friday, or send the request to [pcedillo@aqmd.gov](mailto:pcedillo@aqmd.gov).*

## **INSTRUCTIONS FOR ELECTRONIC PARTICIPATION**

### **Instructions for Participating in a Virtual Meeting as an Attendee**

As an attendee, you will have the opportunity to virtually raise your hand and provide public comment.

Before joining the call, please silence your other communication devices such as your cell or desk phone. This will prevent any feedback or interruptions during the meeting.

**Please note:** During the meeting, all participants will be placed on Mute by the host. You will not be able to mute or unmute your lines manually.

After each agenda item, the Chair will announce public comment.

Speakers may be limited to a total of 3 minutes for the entirety of the consent calendar plus board calendar, and three minutes or less for each of the other agenda items.

A countdown timer will be displayed on the screen for each public comment.

If interpretation is needed, more time will be allotted.

**Once you raise your hand to provide public comment, your name will be added to the speaker list. Your name will be called when it is your turn to comment. The host will then unmute your line.**

### **Directions for Video ZOOM on a DESKTOP/LAPTOP:**

- If you would like to make a public comment, please click on the “**Raise Hand**” button on the bottom of the screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

### **Directions for Video Zoom on a SMARTPHONE:**

- If you would like to make a public comment, please click on the “**Raise Hand**” button on the bottom of your screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

### **Directions for TELEPHONE line only:**

- If you would like to make public comment, please **dial \*9** on your keypad to signal that you would like to comment.

BOARD MEETING DATE: April 3, 2026

AGENDA NO.

**PROPOSAL:** Adopt Resolution to Recognize Funds for FY 2025-26 Year 28 Carl Moyer Program, Execute Contracts to Implement Carl Moyer, SOON, and Community Air Protection Programs, and Reimburse the General Fund for Administrative Costs

**SYNOPSIS:** In March 2025, Program Announcements for Year 27 of the Carl Moyer Program and Surplus Off-Road Opt-in ( SOON) Program were released and closed in July 2025. The solicitations generated an unprecedented response, with approximately \$700 million in grant applications. Staff has identified \$235 million to support project awards with the remaining eligible projects placed on an extensive backup list as contingency should additional funds be made available. Eligible applications were evaluated and ranked based on cost-effectiveness, domicile location, and the prioritization of zero-emission technologies and infrastructure projects. These actions are to: 1) adopt resolution and recognize up to \$47,196,730 of the FY 2025-26 Year 28 Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) funds from CARB, into the Carl Moyer Program Fund (32); 2) execute contracts to implement the Carl Moyer Program, SOON, At Berth Remediation, and Community Air Protection Programs (CAPP) in the amount of \$235,370,261 as identified in Tables 2, 3 and 4; 3) if needed, authorize the Executive Officer to redistribute funding sources for the awarded projects between various incentive programs, to ensure liquidation targets are met; and 4) reimburse the General Fund (01) up to \$5,894,966 and \$5,899,591 from the Carl Moyer Program Fund (32) Year 27 and Year 28, respectively, for administrative costs necessary to implement the Carl Moyer program.

**COMMITTEE:** Technology, March 20, 2026; Recommended for Approval

**RECOMMENDED ACTIONS:**

1. Adopt the attached Resolution, accept terms and conditions, and recognize, upon receipt, FY2025-26 Year 28 Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program) funds of up to \$47,196,730 from

- CARB into the Carl Moyer Program Fund (32);
2. Authorize the Chair to execute contracts in an amount not to exceed \$235,370,261 as follows:
    - a) For the Carl Moyer Program and Surplus Off-Road Opt-in for Nox (SOON), as listed in Attachment B, Table 2, in an amount not to exceed \$82,561,901 from the Carl Moyer Program SB 1107 Fund (32), \$14,153,469 from the Carl Moyer Program AB 923 Match Fund (80), \$9,394,869 from interest accrued in the Carl Moyer Program SB 1107 Fund (32); \$16,959,051 from the Carl Moyer Program SB 129 Fund (32);
    - b) For CAPP Incentives projects as listed in Table 3, in an amount not to exceed \$65,435,388 from the Community Air Protection AB 134 Fund (77) and \$18,424,818 from interest accrued in the Community Air Protection Programs AB 134 Fund (77);
    - c) For At-Berth Remediation Fund projects as listed in Table 4, in an amount not to exceed \$28,440,765 from the At-Berth Remediation Fund (88);
    - d) Execute contracts from the backup projects as listed in Table 5, should any returned funds become available from any of the funding sources approved for projects in this Board Letter, or should any additional funds become available under the Carl Moyer Program, SB 129, SOON, State Reserve, CAPP Incentives, At-Berth Remediation, or Funding Agricultural Replacement Measures for Emission Reductions (FARMER) programs;
  3. If needed, authorize the Executive Officer to redistribute the funding source for awarded projects from unencumbered funds and executed contracts with no payments within and/or between the Carl Moyer Program Fund (32) (including SB 1107, SB 129, State Reserve, FARMER, and associated interest funds), Carl Moyer Program AB 923 Fund (80) match funds, Proposition 1B – Goods Movement Program Fund (81), Voucher Incentive Program Fund (59), Rule 2202 Air Quality Investment Program Fund (27), At-Berth Remediation (88), and the Community Air Protection Program AB 134 Fund (77), including reassigning Carl Moyer Program projects between funding years, as needed, in order to expeditiously meet program liquidation requirements to the extent that such actions are not in conflict with any applicable guidance, requirements, or directions from CARB; and
  4. Reimburse the General Fund from the Carl Moyer Program Fund (32) Year 27 and Year 28 for administrative costs related to the Carl Moyer Program implementation in an amount not to exceed \$5,894,966 and \$5,899,591 respectively.

Wayne Nastri  
Executive Officer

AK:MW:MH:AY

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## **Background**

### Carl Moyer Program

In March 2025, the Board adopted a resolution and recognized \$47,159,728 from FY 2024-25 Year 27 Carl Moyer Program, which also included 12.5 percent or up to \$5,894,966 in administrative funds. Program Announcements (PA) #PA2025-04 and #PA2025-05 were released to solicit projects for the Carl Moyer Program and SOON programs. The PAs were closed in July 2025 and were oversubscribed, with funding requests of more than \$690 million, far exceeding available Carl Moyer Program funds. Because projects eligible under the Carl Moyer Program may also be considered for funding through Carl Moyer Program SB 129, the At-Berth Remediation Fund, and CAPP Incentives, staff evaluated submitted projects for eligibility under these additional programs.

In September 2025, CARB allocated \$47,196,730 in FY 2025-26 Year 28 Carl Moyer Program funds to South Coast AQMD, which also includes 12.5 percent, or up to \$5,899,591, in administrative funds. Given the high number of eligible applications received from PAs #PA2025-04 and #PA2025-05, staff recommends implementing eligible projects using both Carl Moyer Program Year 27 and Year 28 funds. The required 15 percent match from South Coast AQMD to contribute to the Carl Moyer Program is \$7,073,959 for Year 27 and \$7,079,510 for Year 28, both sourced from the AB 923 Fund (80). Additional funds are available to support eligible projects under the Carl Moyer Program, including At-Berth Remediation, Carl Moyer Program SB129, and CAPP Incentives, as well as associated interest funds.

### CAPP Incentives

In December 2023, South Coast AQMD received a grant agreement (G23-MCAP-23) from CARB for FY 2023-24 CAPP Year 7 funds totaling \$88,919,808, including 6.25 percent in administrative funds. The funds will support low- and zero-emission projects eligible under the Community Air Protection Incentives 2024 Guidelines and subsequent amendments. Staff recommends awarding \$65,435,388 from Year 7 CAPP funding from Fund (77) to the Carl Moyer Program-eligible projects solicited through the PAs #PA2025-04 and #PA2025-05 that also meet CAPP requirements.

### SB 129

The SB 129 grant is a specific funding allocation from California's 2021 Budget Act, adding \$45 million to the existing Carl Moyer Program to accelerate the replacement of older, higher-polluting diesel medium- and heavy-duty trucks with cleaner vehicles, especially in areas with severe air pollution like the South Coast and San Joaquin Valley air basins. Staff recommends utilizing \$16,959,051 of available funds from the SB 129 grant (G21-MOSB-01) Fund (32) to fund eligible zero-emission on-road projects.

### At-Berth Remediation Funds

The CARB At-Berth Remediation Fund is a compliance mechanism under California's Ocean-Going Vessels (OGV) At-Berth Regulation. It allows vessel and terminal operators to pay a fee to remediate uncontrolled emissions when they are unable to use a CARB Approved Emission Control Strategy (CAECS) due to specific, limited circumstances. South Coast AQMD was selected as the Remediation Fund Administrator to manage funds and remediate excess emissions from the vessels calling the Ports of Los Angeles and Long Beach by implementing emission-reduction projects. Staff recommends utilizing \$28,440,765 from the At-Berth Remediation Fund (88) to fund infrastructure projects that support drayage operations, and other eligible zero-emission projects at and/or near the San Pedro Bay ports.

### **Outreach**

In accordance with South Coast AQMD's Procurement Policy and Procedure, a public notice advertising PA #PA2025-04 and #PA2025-05 to solicit projects for Carl Moyer Program and SOON and inviting bids was published in the Los Angeles Times, the Orange County Register, the San Bernardino Sun, and Riverside County's Press Enterprise newspapers to leverage the most cost-effective method of outreach to the South Coast Air Basin.

Additionally, potential bidders may have been notified utilizing South Coast AQMD's own electronic listing of certified minority vendors. Notice of the PAs was emailed to the Black and Latino Legislative Caucuses and to various minority chambers of commerce and business associations, and posted on South Coast AQMD's website (<http://www.aqmd.gov>).

In early 2025, staff held a series of in-person Carl Moyer Program workshops throughout South Coast AQMD's jurisdiction to further outreach and promote Carl Moyer Program funding opportunities to communities, fleet operators, and other stakeholders. Also, staff conducted specific outreach to AB 617 communities and provided added outreach at AB 617 Community Steering Committee meetings. Other efforts to promote the Carl Moyer Program include, but are not limited to: 1) coordination with the Ports of Los Angeles and Long Beach to disseminate Carl Moyer Program funding information to all drayage truck owners/operators listed in the Drayage Truck Registry, as well as the terminal operators of cargo handling equipment and truck dealers; 2) emails to over 16,000 subscribers to the Carl Moyer Program list serve; 3) coordinating social media outreach through partnerships with utilities including Southern California Edison and Southern California Gas Company; and 4) increasing social media presence through online announcements via South Coast AQMD's social media accounts.

## **Proposal**

Staff recommends adopting the attached Resolution, accepting the terms and conditions, and upon receipt, recognizing FY2025-26 Carl Moyer Program Year 28 funds, up to \$47,196,730 from CARB, into the Carl Moyer Program Fund (32).

All the applications received were reviewed, and eligible applications were evaluated. The projects were selected or prioritized based on the Carl Moyer Program Guidelines, cost-effectiveness, zero-emission priorities, and achievable near-term NOx reductions, the project category's evaluation criteria, and the funding source priorities specified in the program announcement.

### Carl Moyer Program Awards (Table 2):

Staff recommends to authorize the Chair to execute contracts for projects listed in Table 2, in an amount not to exceed \$123,069,290, comprised of \$82,561,901 from the Carl Moyer Program SB 1107 Fund (32), \$16,959,051 from the Carl Moyer Program SB 129 Fund (32), \$14,153,469 from the Carl Moyer Program AB 923 Match Fund (80), and \$9,394,869 from interest accrued. The projects listed in Table 2 are based on cost-effectiveness in accordance with the Carl Moyer Program Guidelines, with emphasis on the most cost-effective projects and those that will achieve near-term NOx reductions to support the 2022 AQMP emission reductions needed in the South Coast Air Basin. Approximately 60 percent of the proposed projects will benefit overburdened communities.

### CAPP Funds (Table 3):

Staff also proposes to authorize the Chair to execute contracts using CAPP Incentives funds as listed in Table 3, in an amount not to exceed \$83,860,206, comprised of \$65,435,388 from the Community Air Protection AB 134 Fund (77) and \$18,424,818 from interest accrued. The proposed awards listed in Table 3 are projects located in AB 617 communities, including Wilmington/Carson/West Long Beach, East Los Angeles/Boyle Heights/West Commerce, San Bernardino/Muscoy, Eastern Coachella Valley, Southeast Los Angeles, and South Los Angeles. These projects will deliver direct emissions-reduction benefits to the AB 617 communities, which also align with Community Emission Reduction Plans (CERPs). Staff will further engage community members and Community Steering Committees on specifics of these proposed projects.

### At Berth Remediation Funds (Table 4)

The At-Berth Remediation Funds are used to support eligible zero-emission cargo handling equipment projects. As well as the charging and hydrogen-fueling infrastructure that supports the deployment of zero-emission vehicles and equipment to mitigate the impacts on communities from excess emissions from vessel visits to the Ports of Los Angeles and Long Beach.

Staff recommends authorizing the Chair to execute contracts for zero emission projects eligible under the At-Berth Remediation, as listed in Table 4, in an amount not to exceed \$28,440,765. The recommended awards in Table 4 are for infrastructure projects supporting drayage operations and a hydrogen fuel cell cargo handling equipment operating at a port terminal.

Through these funding sources, eligible zero-emission projects totaling \$160,380,588 are recommended for awards. Table 5 lists the backup projects in the event that any funds become available from the above-mentioned funding sources. Staff recommends authorizing the Chair to execute contracts from the backup projects as listed in Table 5, should any returned funds become available from any of the funding sources approved for projects in this Board Letter, or should any additional funds become available under the Carl Moyer Program, SB 129, SOON, State Reserve, CAPP Incentives, At-Berth Remediation, or Funding Agricultural Replacement Measures for Emission Reductions (FARMER) programs.

In order to expediate contracting and successfully meet the liquidation deadlines specified in the grants, staff recommends to authorize the Executive Officer to redistribute the source of funds within and/or between the Carl Moyer Program Fund (32) (including SB 1107, SB 129, SOON, State Reserve, FARMER and associated interest funds), Carl Moyer Program AB 923 Fund (80) match funds, Proposition 1B – Goods Movement Program Fund (81), Voucher Incentive Program Fund (59), Rule 2202 Air Quality Investment Program Fund (27), the Community Air Protection AB 134 Fund (77), and At-Berth Remediation Fund (88) as needed, to the extent the redistribution would not be in conflict with any applicable guidance, requirement or direction from CARB.

### **Overburdened Communities**

Based on the recommended awards, nearly 80 percent of the projects in Table 2-5 are expected to benefit overburdened communities. These recommended awards are consistent with AB 1390, which requires districts to ensure that at least 50 percent of Carl Moyer Program funds are spent in ways that directly benefit the overburdened communities.

### **Benefits to South Coast AQMD**

The successful implementation of the Carl Moyer Program, SOON, At Berth Remediation, and CAPP projects will reduce NOx, PM, and ROG emissions. The recommended projects will benefit overburdened and low-income communities identified in the Carl Moyer Program and CAPP incentive grants. Below are the estimated emissions reduction benefits from implementing the recommended awards:

Program	Estimated Emission Reductions (tons/year)	
	NOx	PM
Carl Moyer Program/SOON Programs	152.4	6.4
CAPP Incentives	47.5	2.9
At-Berth Remediation*	0.1	0.01
<b>Total</b>	<b>200</b>	<b>9.3</b>

\*At-Berth Remediation funds are utilized primarily for infrastructure projects which do not have direct emissions reductions. Only emission reductions from mobile source projects are presented in this table.

The Carl Moyer Program is an important and successful program that provides continuous incentive funding to owners of heavy-duty vehicles and equipment to reduce emissions beyond regulatory requirements by replacing, repowering, or retrofitting their older engines. The mobile source projects identified in this Board letter will achieve emission reductions beyond existing regulations and will occur throughout their lifetimes, yielding long-term emission reductions and public health benefits. Additionally, a total of thirty-one zero-emission infrastructure projects have been selected. While these projects do not directly generate emission reductions, they are essential for supporting the deployment and implementation of zero-emission technologies.

### Resource Impacts

Total funding for projects under the Year 27 and 28 Carl Moyer Program, SOON Program, CAPP Incentives, and At-Berth Remediation Fund will not exceed \$235,370,261, comprised of the following funding sources:

Program	Total Funds Awarded
Carl Moyer Program SB 1107 (Fund 32)	\$91,956,770
Carl Moyer Program SB 129 (Fund 32)	\$16,959,051
Carl Moyer Program AB 923 Match Funds (Fund 80)	\$14,153,469
CAPP Incentives (Fund 77)	\$83,860,206
At-Berth Remediation (Fund 88)	\$28,440,765
<b>Total</b>	<b>\$235,370,261</b>

The total allocation by project category are listed in the table below.

<b>Category</b>	<b>Award Amounts</b>
Zero-Emission Infrastructure	\$134,694,323
Zero-Emission Off-Road	\$15,105,010
Zero-Emission On-Road	\$10,581,255
Non-Zero-Emission Off-Road	\$62,392,920
Non-Zero-Emission On-Road	\$6,577,901
Non-Zero-Emission Locomotive	\$5,711,152
Non-Zero-Emission Marine	\$307,700
<b>Total</b>	<b>\$235,370,261</b>

**Attachments**

- A. Resolution for FY 2025-26 Carl Moyer Program Year 28 Funds
- B. Table 1: Total Amount of Available Funds; Table 2: Carl Moyer Program Awards; Table 3: CAPP Incentive Awards in AB 617 Communities; Table 4: At-Berth Remediation Awards; and Table 5: Recommended List of Backup Projects

**Attachment A**

**RESOLUTION NO. 26-**

**A Resolution of the South Coast Air Quality Management District  
Board Recognizing Funds and Accepting the Terms and Conditions  
of the FY 2025-26 Carl Moyer Program (CMP) Grant Award**

**WHEREAS**, under Health & Safety Code §40400 et seq., the South Coast Air Quality Management District (South Coast AQMD) is the local agency with the primary responsibility for the development, implementation, monitoring and enforcement of air pollution control strategies, clean fuels programs and motor vehicle use reduction measures; and

**WHEREAS**, the South Coast AQMD is authorized by Health & Safety Code §§40402, 40440, and 40448.5 as well as the Carl Moyer Memorial Air Quality Standards Attainment Program (Carl Moyer Program, §44275, et seq.) to implement programs to reduce transportation emissions, including programs to encourage the use of alternative fuels and zero- and low-emission vehicles; to develop and implement other strategies and measures to reduce air contaminants and achieve the state and federal air quality standards; and

**WHEREAS**, the Governing Board has adopted several programs to reduce emissions from on-road, marine, ocean-going vessels and off-road vehicles, as well as emissions from other equipment, including infrastructure from the Carl Moyer Program and projects included in approved Community Emissions Reduction Programs; and

**WHEREAS**, the Governing Board directs staff to prioritize funding of zero-emission vehicles and equipment whenever feasible, including charging/fueling infrastructure for medium- and heavy-duty vehicles, in disadvantaged and low-income communities; and

**WHEREAS**, the South Coast AQMD is designated as an extreme non-attainment area for ozone and as such is required to utilize all feasible means to meet national ambient air quality standards.

**THEREFORE, BE IT RESOLVED** that the Governing Board, in regular session assembled on April 3, 2026 does hereby authorize the Executive Officer to accept the terms and conditions of the FY 2025-26 (Year 28) Carl Moyer Program grant award and recognizes up to \$47,196,730 million from CARB to administer and implement the Year 28 Carl Moyer Program.

**BE IT FURTHER RESOLVED** that the Executive Officer is authorized and directed to take all steps necessary to carry out this Resolution.

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Date

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Faye Thomas, Clerk of the Boards

## Attachment B

<b>Table 1: Total Amount of Available Funds</b>			
<b>Funding Source</b>	<b>Available Project Funds</b>	<b>Grant Number</b>	<b>Comment</b>
Carl Moyer Program	\$41,264,762 Year 27	G24-MO-27	FY 2024-25 total grant award: \$47,159,728*
	\$41,297,139 Year 28	G25-MO-28	FY 2025-26 total grant award: \$47,196,730*
Carl Moyer Interest Funds	\$9,394,869	N/A	Total unobligated interest funds in Fund 32 as of June 30, 2025
AB 923 Match Funds	\$7,073,959 Year 27	N/A	Required match for Carl Moyer Program Year 27
	\$7,079,510 Year 28	N/A	Required match for Carl Moyer Program Year 28
Community Air Protection Program Incentives	\$65,435,388	G23-MCAP-23	FY 2023-24 total CAPP Year 7 grant award \$88,919,808
Community Air Protection Program Incentives Interest Funds	\$18,424,818	N/A	Total unobligated interest funds in Fund 77 as of October 31, 2025 (Year 1 to Year 6)
SB 129	\$16,959,051	G21-MOSB-01	FY 2021-22 total grant award \$32,100,000
At-Berth Remediation Fund	\$28,440,765	N/A	Funds Received as of December 31, 2025
<b>Total</b>	<b>\$235,370,261</b>		

\*Includes 12.5% administration costs

**Table 2: Carl Moyer Program Awards**

<b>Applicant</b>	<b>Project Category</b>	<b>Recommended Award</b>
Carolina Trucking, Inc.	On-Road Battery Electric	\$1,457,213
City of Manhattan Beach	On Road Emergency Vehicle	\$40,105
Ecology Auto Parts, Inc.	On-Road CNG 0.02 Optional Low NOx	\$6,377,796
Lincoln Transportation Services Inc.	On-Road Battery Electric	\$4,218,942
M & M Thrift Management Company, LLC	On-Road Battery Electric	\$226,896
NorthStar Moving Corporation	On-Road Battery Electric	\$26,907
Osterkamp Trucking Inc.	On-Road Battery Electric	\$4,290,588
PacTrack, Inc.	On-Road Battery Electric	\$213,798
USA Waste of California, Inc.	On-Road Battery Electric	\$146,911
Balboa Island Ferry	Zero-Emission Infrastructure	\$274,672
City of Beaumont	Zero-Emission Infrastructure	\$2,544,438
City of Beaumont	Zero-Emission Infrastructure	\$2,615,095
City of Long Beach	Zero-Emission Infrastructure	\$1,403,794
Consolidated Disposal Service, L.L.C	Zero-Emission Infrastructure	\$1,000,000
Desert Sands Unified School District	Zero-Emission Infrastructure	\$251,552
Empyrean Power LLC	Zero-Emission Infrastructure	\$6,993,240
EV Western Tenant LLC	Zero-Emission Infrastructure	\$9,845,776
Kingfisher HoldCo, LLC	Zero-Emission Infrastructure	\$7,750,000
Linde Services Inc.	Zero-Emission Infrastructure	\$10,628,679
Long Beach Unified School District	Zero-Emission Infrastructure	\$58,157
Rainbow Disposal Co., Inc.	Zero-Emission Infrastructure	\$850,000
Republic Waste Services of Southern California, LLC	Zero-Emission Infrastructure	\$1,500,000
USA Waste of California, Inc.	Zero-Emission Infrastructure	\$1,484,011
805 Discing and Grading, Inc.	Off Road	\$292,330
Ag Concepts, Inc.	Off Road	\$375,655
Alba's Oranges & Nursery, LLC	Off Road	\$171,521
Amentum Services, Inc.	Off Road Battery Electric	\$309,123
Aviation Farms LLC	Off Road	\$622,500
Boersma Dairy	Off Road	\$3,130,535
Bridge Street Farms, Inc.	Off Road	\$271,999
Brito Ranches, LP	Off Road	\$78,565
C. & R. Agriculture, Inc.	Off Road	\$189,660
C. Smith Transport, Inc., DBA CST Organic Recycling	Off Road	\$938,748
Calwest Tropical, Inc.	Off Road	\$89,795
Chino Development League, Inc.	Off Road	\$786,840
Circle Green, Inc.	Off Road	\$3,412,633
City of El Monte	On Road	\$160,000
City of Manhattan Beach	Off Road Battery Electric	\$31,707
Coburn Equipment Rentals Inc.	Off Road	\$2,269,343
DevSouthHills LLC	Off Road	\$1,604,582
Donald S. Bean	Off Road	\$163,780

**Table 2: Carl Moyer Program Awards (Continued)**

<b>Applicant</b>	<b>Project Category</b>	<b>Recommended Award</b>
Eagle Eye Equipment, LLC	Off Road	\$984,840
Eldorado Polo Clubhouse, Inc. DBA Eldorado Polo Club	Off Road	\$113,824
Emerald Acres LLC	Off Road	\$7,767,989
EPC Landscaping LLC	Off Road	\$288,590
Fabian Rodriguez dba. Rodriguez Nursery	Off Road	\$107,415
Galway Downs, LLC	Off Road	\$253,150
GH Dairy	Off Road	\$1,556,916
Gilberto De Leon Salado	Off Road	\$103,440
Greg Anderson	Off Road	\$91,653
Gurpartap S. Gill	Off Road	\$84,666
Hansen Steel Services, LLC	Off Road Battery Electric	\$287,052
Jacques Moret Inc.*	Off Road Battery Electric	\$247,597
James McMinn, Inc.	Off Road - SOON	\$431,963
JC Farming, Inc.	Off Road	\$966,175
Joe Arias	Off Road	\$481,400
Lee Tabbaa	Off Road	\$744,110
Lucky Farms, Inc.	Off Road	\$634,950
Manalisco Growers, Inc.	Off Road	\$107,415
McMinn Equipment Rental and Leasing, Inc.	Off Road - SOON	\$4,016,015
Michael D. Fisher	Off Road	\$207,060
Michael Oosten DBA Marvo Holsteins	Off Road	\$1,256,840
Mountain Top Quarries, LLC	Off Road	\$600,000
Nicholas Eugene Nuciforo	Off Road	\$81,910
NorthHills Recycling, Inc.	Off Road	\$1,962,607
NorthHills Recycling, Inc.	Off Road Battery Electric	\$1,247,103
Ontario Livestock	Off Road	\$55,610
Organic Depot, LLC	Off Road	\$4,499,261
Pacific Harbor Line, Inc.	Locomotive	\$5,711,152
Pacific Star Charters, Inc.	Marine	\$307,700
Philip Ambrose Viramontes	Off Road	\$76,681
Rancho Vista Estrellas, Inc. dba Raul Ramirez Bodegas Y Vinedos	Off Road	\$463,203
Robert W. Whittaker	Off Road	\$76,681
Roberto Carlos Melchor Gonzalez	Off Road	\$58,362
Robin Barth DBA First Choice Ready Mix	Off Road	\$391,500
Rolando Topete DBA T5 Cattle	Off Road	\$76,681
Santos Lopez-Colin, DBA Desert Cacti Nursery	Off Road	\$102,750
Saucedo Equipment Rentals, Inc.	Off Road	\$132,800
Scott Bros. Dairy Farms, L.P.	Off Road	\$436,699
Southern California Landscape Supply, LLC	Off Road Battery Electric	\$382,194
Southern California Mulch Incorporated	Off Road	\$201,687
Specialty Municipal Services, Inc.	Off Road	\$287,100
Stephen Wesselink Farms, Inc.	Off Road	\$320,380
Steve Buoye dba. Steve Buoye Honey Company	Off Road	\$78,912

<b>Table 2: Carl Moyer Program Awards (Continued)</b>		
<b>Applicant</b>	<b>Applicant</b>	<b>Applicant</b>
Tad Shackford	Off Road	\$79,035
Talley Meadows Layups and Retirement, Inc.	Off Road	\$140,315
Tina McMinn Equipment Rental, Inc.	Off Road - SOON	\$796,112
Universal City Studios LLC	Off Road Battery Electric	\$4,014,930
Wallace Walter Hall	Off Road	\$117,262
Whittier Fertilizer Company	Off Road	\$462,112
Wilson Creek Winery & Vineyards, Inc.	Off Road	\$77,605
	<b>Total:</b>	<b>\$123,069,290</b>

\*This project is pending CARB case-by-case approval

**Table 3: CAPP Incentive Awards in AB 617 Communities**

<b>Applicant</b>	<b>Project Category</b>	<b>Recommended Award</b>
A & D Building Supply Inc.	Zero-Emission Off Road	\$63,804
Agser Contracting	Off Road	\$575,643
Alfredo Alcocer	Off Road	\$88,728
Alvaro Arellano	Off Road	\$49,736
Amazing Coachella, Inc.	Off Road	\$1,270,016
Anita's Mexican Foods Corp.	Zero-Emission Off Road	\$263,003
Anthony Vineyards, Inc.	Off Road	\$345,240
Antonio Ramirez dba Coachella Valley Land Preparation	Off Road	\$169,546
Arc Boat Compan	Zero-Emission Infrastructure	\$3,870,345
Bautista Family Organic Date Ranch, Inc.	Off Road	\$112,619
Chuchian, Inc.	Off Road	\$78,764
City of Los Angeles	Zero-Emission Infrastructure	\$8,076,569
Coachella Valley Ranch Development, Inc.	Off Road	\$1,222,134
Cocopah Nurseries, Inc.	Off Road	\$619,682
Consolidated Disposal Service, L.L.C.	Zero-Emission Infrastructure	\$1,359,351
Del Rey Farms LLC	Off Road	\$711,904
Del Rey Farms LLC	Zero-Emission Off Road	\$13,500
Desert Custom Farming, Inc.	Off Road	\$860,223
Desert Palms East	Off Road	\$295,968
Desert Valley AG LLC	Off Road	\$110,970
Earth Concepts, Inc	Off Road	\$101,301
Escaleon Farms	Off Road	\$279,719
EV Range, Inc.	Zero-Emission Infrastructure	\$523,680
George Dill Farms, L.L.C.	Off Road	\$92,353
Growers Topping and Hedging, LLC	Off Road	\$406,002
Harbor Breeze, Corp.	Zero-Emission Infrastructure	\$1,212,008
Jose Antonio Gonzales	Off Road	\$147,709
Jose Ramirez	Off Road	\$554,316
Juan Campos	Off Road	\$75,789
Junior Enterprises, LLC	Off Road	\$1,523,988
Larsen Land and Cattle Co., LLC	Off Road	\$2,017,593
Lineage Logistics Services, LLC	Zero-Emission Infrastructure	\$1,439,700
Long Beach Unified School District	Zero-Emission Infrastructure	\$58,157
Long Life Farms, Inc.	Off Road	\$652,058
Los Angeles Unified School District	Zero-Emission Infrastructure	\$11,172,761

**Table 3: CAPP Incentive Awards in AB 617 Communities (Continued)**

<b>Applicant</b>	<b>Project Category</b>	<b>Recommended Award</b>
Maria Vazquez	Off Road	\$131,029
Mayor West Coast, LLC	Zero-Emission Infrastructure	\$430,678
Michael Oosten DBA Marvo Holsteins	Off Road	\$524,464
New Connect Freight, Inc.	Zero-Emission Off Road	\$17,040
North Shore Date Garden, LLC	Off Road	\$153,085
O.M. Investments, Inc.	Off Road	\$397,026
Prologis Mobility, LLC	Zero-Emission Infrastructure	\$17,843,534
Rancho Meladuco, LLC	Off Road	\$236,188
Rigoberto Hernandez Osorno dba. R Hernandez Produce	Off Road	\$63,668
Supra National Express, Inc.	Zero-Emission Infrastructure	\$3,420,000
Thermiculture Management Inc.	Off Road	\$169,332
Total Terminals International, LLC	Zero-Emission Infrastructure	\$4,236,000
Total Terminals International, LLC*	Zero-Emission Off Road	\$7,387,860
Total Terminals International, LLC*	Off-Road	\$989,499
Tudor Ranch, Inc.	Off Road	\$491,720
Universal Waste Systems, Inc.	Zero-Emission Off Road	\$134,536
West Coast Turf	Off Road	\$400,725
Wm. D. Young and Sons, Inc.	Off Road	\$764,133
Zum Services Inc	Zero-Emission Infrastructure	\$5,654,810
	<b>Total:</b>	<b>\$83,860,206</b>

\*This project is pending CARB case-by-case approval

**Table 4: At Berth Awards**

<b>Applicant</b>	<b>Project Category</b>	<b>Recommended Award</b>
Fenix Marine Services, Ltd.	Off Road	\$243,449
Forum Mobility, Inc.	Zero-Emission Infrastructure	\$9,744,586
LBCT LLC	Zero-Emission Infrastructure	\$15,000,000
Optima Energy EV	Zero-Emission Infrastructure	\$3,452,730
	<b>Total:</b>	<b>\$28,440,765</b>

**Table 5: Recommended List of Backup Projects**

<b>Applicant</b>	<b>Project Category</b>	<b>Recommended Award</b>
AAA Farm, Inc.	Off Road	\$1,367,750
Agriscape Inc.	Off Road	\$189,473
Airport Mobil, Inc.	On Road	\$106,672
All Season Nursery Inc.	Off Road	\$106,214
Alvaro Arellano	Off Road	\$140,241
Amazing Coachella, Inc.	Off Road	\$1,000,000
American Honda Motor Co., Inc.	Zero-Emission Infrastructure	\$4,879,107
American Marine Corporation	Marine	\$187,771
Augello Enterprises, LLC	Marine	\$81,692
Aviation Farms LLC	Off Road	\$2,597,900
Balboa Island Ferry	Marine	\$6,741,914
Baydelta Maritime LLC	Marine	\$967,165
Boersma Dairy	Off Road	\$2,203,574
Buffalo Meadows Ranch, Inc.	Off Road	\$34,063
Bula Vida Sport Fishing LLC	Marine	\$116,875
Burchett Grading Inc.	Off Road	\$539,400
C. & R. Agriculture, Inc.	Off Road	\$235,770
C. Smith Transport, Inc., DBA CST Organic Recycling	Off Road	\$740,912
Canyon Pacific Equipment, LLC	Off Road - SOON	\$1,296,158
Catalina Island Company	Marine	\$7,712
Chris Romero	Off Road	\$150,281
Circle Green, Inc.	Off Road	\$1,085,404
City of El Monte	On Road	\$80,000
City of South Gate	Off Road	\$10,096
Coachella Valley Ranch Development, Inc.	Off Road	\$625,055
Coburn Equipment Rentals Inc.	Off Road	\$8,039,665
Cocopah Nurseries, Inc.	Off Road	\$423,235
Corona Cattle, Inc.	Off Road	\$141,100
Del Rey Farms LLC	Off Road	\$355,678
DevSouthHills LLC	Off Road	\$188,736
Domenigoni Brothers Ranch, LP	Off Road	\$211,650
Donald S. Bean	Off Road	\$205,156
Eagle Eye Equipment, LLC	Off Road	\$1,419,840
Earth Concepts, Inc	Off Road	\$287,918
Eldorado Polo Clubhouse, Inc. DBA Eldorado Polo Club	Off Road	\$48,006
EPC Landscaping LLC	Off Road	\$155,398
Saltchuk Resources, Inc. dba Foss Maritime Company, LLC	Marine	\$213,576

NOTE: Projects listed as part of Recommended Backup list may pend CARB case-by-case approval and/or compliance verification and application supplementals.

**Table 5: Recommended List of Backup Projects (Continued)**

<b>Applicant</b>	<b>Project Category</b>	<b>Recommended Award</b>
GH Dairy	Off Road	\$3,477,087
Richard Varge dba Green Horse Polo Park	Off Road	\$53,123
Greenlane Infrastructure, LLC	Zero-Emission Infrastructure	\$10,229,250
Hayden Yacobucci	Marine	\$136,850
Holladay Ag Services, Inc.	Off Road	\$172,384
Indio Hills Farm Feed LLC	Off Road	\$237,001
James McMinn, Inc.	Off Road - SOON	\$5,159,698
JBT, Inc.	Off Road	\$61,365
Jose Aceves Aquino	Off Road	\$216,079
Josh Fisher	Marine	\$159,800
La Quinta Date Growers, LP	Off Road	\$407,855
Larsen Land and Cattle Co., LLC	Off Road	\$508,823
Lee Tabbaa	Off Road	\$83,614
Lineage Logistics Services, LLC	Zero-Emission Infrastructure	\$10,158,900
Long Life Farms, Inc.	Off Road	\$177,552
Lucky Farms, Inc.	Off Road	\$721,974
Luis Huerta DBA Sunland Cactus Nursery	Off Road	\$903,998
Magurohanta, LLC	Marine	\$342,550
Margarito Rodriguez dba Y & M Nursery	Off Road	\$106,214
Marina del Rey Bait Company, Inc.	Marine	\$71,392
Maxey Backhoe Service Inc	Off Road	\$172,346
McMinn Equipment Rental and Leasing, Inc.	Off Road - SOON	\$578,346
Melkesian Ranch, Inc.	Off Road	\$228,430
Michael Oosten DBA Marvo Holsteins	Off Road	\$1,452,072
Mission Springs Water District	Off Road	\$10,073
MJD Bait Company, LLC	Marine	\$186,150
Mountain Top Quarries, LLC	Off Road	\$1,438,936
Myers Family Tree Inc. dba Randy G. Myers & Nurseries	Off Road	\$180,840
O & S Holsteins, LP	Off Road	\$199,200
O.M. Investments, Inc.	Off Road	\$215,751
Omar Meza	Off Road	\$45,378
Orange County Water District	Off Road	\$81,715
P&T Enterprises, LLC	Off Road	\$171,534
Palm Springs Cemetery District	Off Road	\$10,303
Parkcrest Construction, Inc.	Zero-Emission Infrastructure	\$24,059,162
Petro-Builders, Inc.	Off Road	\$59,173
Prologis Mobility LLC	Zero-Emission Infrastructure	\$33,778,098

NOTE: Projects listed as part of Recommended Backup list may pend CARB case-by-case approval and/or compliance verification and application supplementals.

**Table 5: Recommended List of Backup Projects (Continued)**

<b>Applicant</b>	<b>Applicant</b>	<b>Applicant</b>
R.A. Landreth Equipment Incorporated	Off Road	\$460,271
Ramona Dairy LLC	Off Road	\$168,897
Rancho Vista Estrellas, Inc. dba Raul Ramirez Bodegas Y Vinedos	Off Road	\$78,589
Robin Barth DBA First Choice Ready Mix	Off Road	\$506,305
Rolando Topete DBA T5 Cattle	Off Road	\$185,411
S.C.J. LLC	Marine	\$37,154
SA Recycling LLC	Off Road - SOON	\$345,165
Santiago Figueroa Felix	Off Road	\$154,945
Schneider Resources, Inc.	Zero-Emission Infrastructure	\$5,168,822
Scott Bros. Dairy Farms, L.P.	Off Road	\$94,530
SGS US West Coast, LLC	Marine	\$8,839
SM Bay Sportfishing, Inc.	Marine	\$4,694
So. Cal. Ship Services, LLC	Marine	\$258,266
Southern California Landscape Supply, LLC	Off Road	\$307,100
Southern California Mulch Incorporated	Off Road	\$184,639
Specialty Municipal Services, Inc.	Off Road	\$143,550
St. Joseph, Inc., A California Corporation	Marine	\$459,358
Stephen Wesselink Farms, Inc.	Off Road	\$1,408,031
Steve Buoye dba. Steve Buoye Honey Company	Off Road	\$621,724
T.G.I. Equipment Corporation	Off Road - SOON	\$6,797,875
Talley Meadows Layups and Retirement, Inc.	Off Road	\$174,305
Thermiculture Management Inc.	Off Road	\$174,148
Tina McMinn Equipment Rental, Inc.	Off Road - SOON	\$1,357,430
U.S. Water Taxi Inc.	Marine	\$42,116
USA Boats Trading, Inc	Marine	\$202,014
Veda L fishing	Marine	\$313,506
West Coast Turf.	Off Road	\$206,718
Wilson Creek Winery & Vineyards, Inc.	Off Road	\$60,175
Wm. D. Young and Sons, Inc.	Off Road	\$152,195
Zum Services, Inc.	Zero-Emission Infrastructure	\$4,116,339

NOTE: Projects listed as part of Recommended Backup list may pend CARB case-by-case approval and/or compliance verification and application supplementals.

# Adopt Resolution to Recognize Funds for FY 2025-26 Year 28 Carl Moyer Program, Execute Contracts to Implement Carl Moyer, SOON and Community Air Protection Programs, and Reimburse the General Fund for Administrative Costs



**Alyssa Yan**

# Background

Program Announcements for the Carl Moyer Program and Surplus Off-Road Opt-In (SOON) Program opened in March 2025 and closed in July 2025

- Close to \$214 million awarded for Carl Moyer Program eligible projects
- Close to \$21 million awarded for SOON projects
- Close to \$700 million in requested funding for over 980 Projects
  - Off-road equipment, marine vessels, on-road trucks, ZE charging stations



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# Project Contingency and Program Continuity

In the event an approved project fall through, funds will be reallocated to designated backup projects across all eligible funding sources.

- Ensures that available funds are fully utilized before the liquidation deadline.

Other programs that benefit from the Carl Moyer Program and SOON Program include:

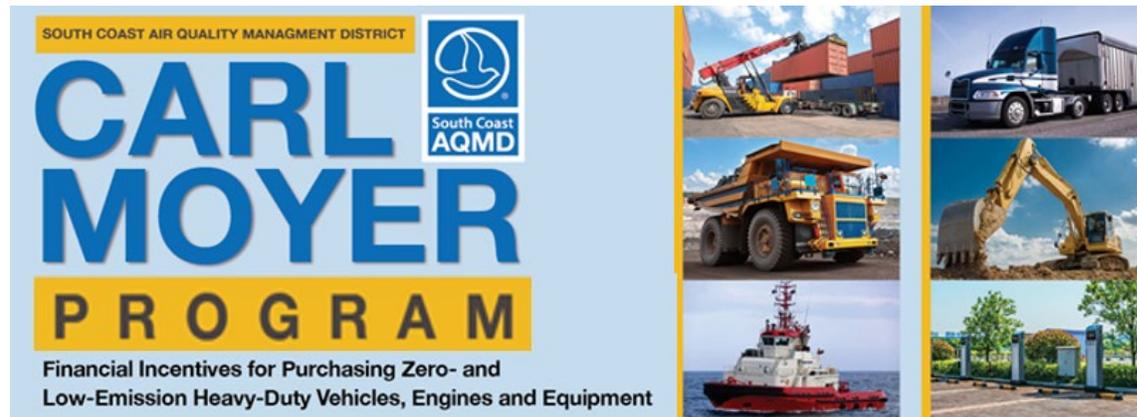
- At-Berth Program
- Community Air Protection Program
- Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program

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# Outreach

Several communication pathways taken to promote the Carl Moyer Program and SOON Program

- AB 617 Community Steering Committee meetings
- Coordination with Ports of Los Angeles and Long Beach
- Hybrid Workshops
- Emails to 16,000 subscribers and posts on Social Media outlets



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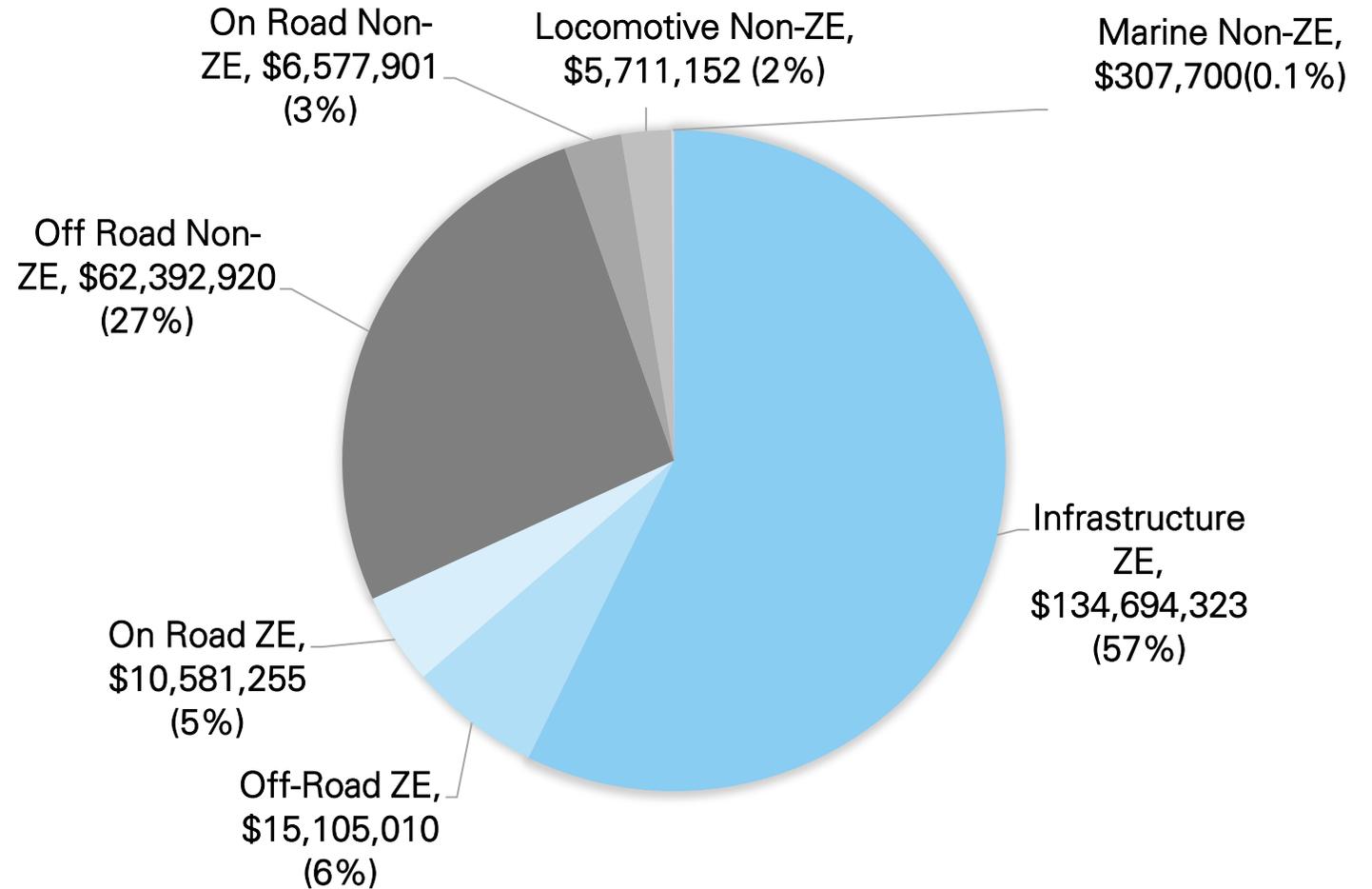
# Proposal

- All projects were evaluated based on CARB's Carl Moyer Program Guidelines
- Over 65% of projects, roughly \$160 million, received are zero-emission or supporting infrastructures, for zero-emission projects
- Approximately 75% of all eligible projects will benefit overburdened communities
- Priority given to the most cost-effective and zero-emission eligible projects



# Proposal

<u>Funding Source</u>	<u>Grant Amount</u>
Carl Moyer Funds	\$123,069,290
CAPP Incentives	\$83,860,206
At Berth	\$28,440,765
<b>Total</b>	<b>\$235,370,261</b>



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# Summary of Recommended Actions

- Adopt Resolution for FY 2025-26 Year 28 Carl Moyer Program funds up to \$47,196,730
- Authorize the Chair to execute contracts in an amount not to exceed \$235,370,261
  - Execute contracts from the backup projects should any returned funds become available from any of the funding sources approved
- Authorize the Executive Officer to redistribute the funding source from unencumbered funds and executed contracts with no payments
- Reimburse the General Fund from the Carl Moyer Program Fund (32) Year 27 and Year 28 for administrative costs related to the CMP Implementation in an amount not to exceed \$5,894,966 and \$5,899,591 respectively

# Benefits to South Coast AQMD



Program	Estimated Emission Reductions (tons/year)	
	NOx	PM
Carl Moyer/SOON Provision	152.4	6.4
CAPP Incentives	47.5	2.9
At-Berth*	0.1	0.01
Total	200	9.3

\*At-Berth funds are utilized primarily for infrastructure projects which reduce emissions indirectly but enable the deployment of zero-emission technologies.

A total of 31 zero-emission infrastructure projects have been selected. These infrastructure projects will not directly provide reductions, but are required to assist in the implementation of zero-emission technologies

BOARD MEETING DATE: April 3, 2026

AGENDA NO.

**PROPOSAL:** Execute Contract to Develop and Demonstrate Plug-In Hybrid Heavy-Duty Refuse Truck

**SYNOPSIS:** CARB's Advanced Clean Fleets (ACF) regulation mandates a transition to zero-emission vehicles for state and local government fleets. The plug-in hybrid vehicles with minimum all-electric range are permitted as compliance options for the ACF regulation. While plug-in hybrid technology development has been demonstrated for drayage applications, it has not yet been developed or proven in the refuse sector. Peterbilt Motors Company, in partnership with Brudeli Green Mobility, Cummins, and Hexagon Agility, proposes to develop a plug-in hybrid heavy-duty refuse truck and demonstrate it with Waste Management Collection & Recycling, Inc. The emissions testing will be conducted by University of California, Riverside Center for Environmental Research and Technology. This action is to execute a contract with Peterbilt Motors Company in an amount not to exceed \$1,000,000 to develop and demonstrate a plug-in hybrid heavy-duty natural gas refuse truck, from the Clean Fuels Program Fund (31).

**COMMITTEE:** Technology, March 20, 2026; Recommended for Approval

**RECOMMENDED ACTION:**

Authorize the Executive Officer to execute a contract with Peterbilt Motors Company in an amount not to exceed \$1,000,000 to develop and demonstrate a plug-in hybrid heavy-duty natural gas refuse truck from the Clean Fuels Program Fund (31).

Wayne Natri  
Executive Officer

## **Background**

CARB's Advanced Clean Fleets (ACF) regulation mandates a transition to zero-emission (ZE) vehicles for state and local government fleets where feasible, and by using near-zero-emission technologies powered by clean, low-carbon renewable fuels everywhere else. Heavy-duty refuse trucks are subject to the ACF regulation and plug-in hybrid vehicles that combine an ultra-low emission engine with a battery that has substantial all-electric range can be used as compliance options under the ACF regulation. While ZE battery electric refuse trucks are now commercially available, many of the duty cycles required of these trucks cannot be met by using only the ZE technology. Development of plug-in hybrid refuse trucks that can operate in ZE mode and recover energy from stop-and-go refuse pick-ups can provide significant emission reductions relative to traditional combustion powertrains. Plug-in hybrid refuse trucks can deliver immediate efficiency improvement and emission reductions, while providing fleets operational experience that supports a transition to full electrification.

Peterbilt Motors Company (Peterbilt), a leading U.S. manufacturer of refuse vehicles, proposes to partner with Brudeli Green Mobility (Brudeli), a Norway-based plug-in hybrid technology developer, to develop a plug-in hybrid heavy-duty refuse truck with an automatic side-loader body that can comply with CARB's ACF regulation. The project will leverage Peterbilt's and its partners' core capabilities to develop and deploy an ACF-compliant plug-in hybrid heavy-duty refuse truck that is not currently commercially available.

## **Proposal**

Peterbilt and its partners propose to develop a plug-in hybrid natural gas heavy-duty refuse truck using the Peterbilt 520 solid waste collection vehicle chassis. Brudeli and Cummins will engineer the plug-in hybrid powertrain, pairing it with the Cummins 8.9L ultra-low emission natural gas engine. The resulting vehicle is expected to deliver up to 45 miles of all-electric range, with the focus of operating in ZE while in neighborhoods and switching to an ultra-low emission hybrid mode when the charge is depleted. This vehicle is expected to achieve approximately 50% reductions in emissions and fuel use. Peterbilt will lead the final system integration at its engineering and production facilities in the US. Hexagon Agility will supply the fuel-storage tank system. The vehicle will then undergo real-world emissions testing by University of California, Riverside Center for Environmental Research and Technology and an extended in-service demonstration with Waste Management Collection & Recycling, Inc. for up to 12 months. To address the needs of typical solid waste collection vehicles, Waste Management Collection & Recycling, Inc. is providing a base CNG vehicle to develop a prototype CNG-hybrid retrofit and the Peterbilt will document the data collected and demonstrate the commercialization pathway in the final project report.

### **Benefits to South Coast AQMD**

The proposed project aligns with South Coast AQMD priorities to reduce NOx and PM emissions from transportation sources in support of federal ambient air quality standards and public health protection. Support for the development and demonstration of advanced technologies is identified in the Technology Advancement Office Clean Fuels Program 2026 Plan Update under “Electric/Hybrid Vehicle Technologies”. A successful demonstration will strengthen the commercial viability of plug-in hybrid technology and support broader deployment in the medium- and heavy-duty truck sector by expanding options for diverse fleet operating needs where ZE technologies are providing limitations.

### **Sole Source Justification**

Section VIII.B.2 of the Procurement Policy and Procedure identifies provisions by which sole source awards may be justified. The request for sole source award is made under provision B.2.d.(1): Project involving cost-sharing by multiple sponsors. The proposed project includes cash and in-kind cost-sharing from the project proponents.

### **Resource Impacts**

South Coast AQMD’s cost-share will not exceed \$1,000,000 from the Clean Fuels Program Fund (31). The estimated partners cost-share and total project cost are summarized below.

<b>Proposed Partners</b>	<b>Amount</b>	<b>Percent (%)</b>
Peterbilt	\$275,000	6
Brudeli	\$2,387,000	52
Cummins	\$165,000	4
Hexagon Agility	\$110,000	2
Waste Management	\$650,000	14
South Coast AQMD ( <i>requested</i> )	\$1,000,000	22
<b>Total Project Cost</b>	<b>\$4,587,000</b>	<b>100</b>

Sufficient funds are available in the Clean Fuels Program Fund (31) for this proposed project. The Clean Fuels Program Fund (31) is established as a special revenue fund resulting from the state mandated Clean Fuels Program. The Clean Fuels Program, under Health and Safety Code Sections 40448.5 and 40512 and Vehicle Code Section 9250.11, establishes mechanisms to collect revenues from mobile sources to support projects to increase the utilization of clean fuels, including the development of the necessary advanced enabling technologies. Funds collected from motor vehicles are restricted, by statute, to be used for projects and program activities related to mobile sources that support the objectives of the Clean Fuels Program.

## Agenda #2

# Execute Contract to Develop and Demonstrate Plug-In Hybrid Heavy-Duty Refuse Truck

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Sam Cao



# Background

- CARB Advanced Clean Fleets (ACF) regulation allows plug-in hybrid vehicles with substantial all electric range as a compliance option
- Plug-in hybrid refuse trucks expect to meet the rigorous duty-cycle needed for refuse collection activities
- Peterbilt and Brudeli propose to develop and demonstrate an ACF compliant plug-in hybrid refuse truck



# Hybrid Vehicles

Plug-in hybrid vehicles can deliver near-term emissions reductions:

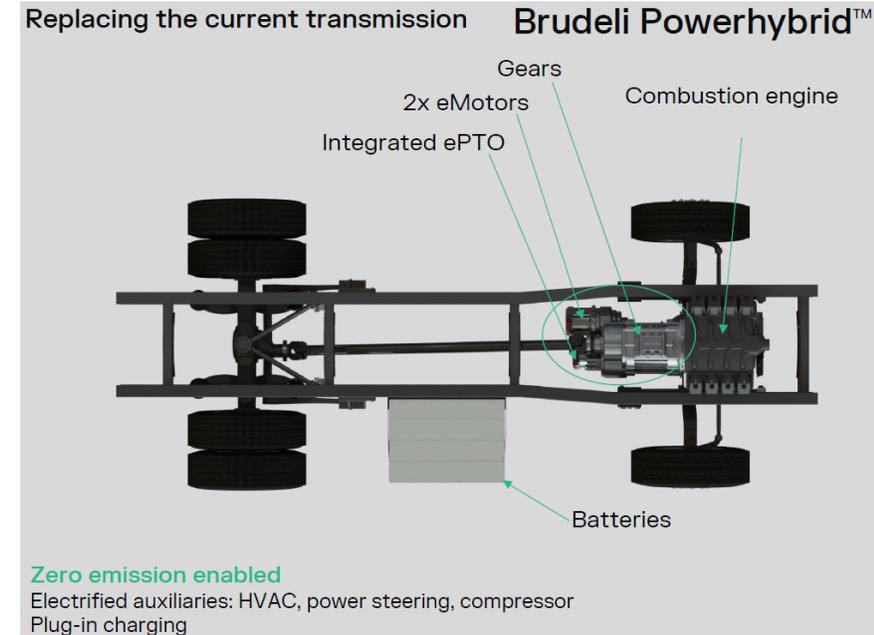
- Hybrid operation in transit; zero-emission operation in neighborhoods
- Regenerative braking benefits in stop-and-go duty cycles
- Support of electrified auxiliaries (e.g., HVAC, vocational equipment)
- Lower upfront cost and charging demand to support phased electrification



# Proposal

Peterbilt and partners will develop a prototype plug-in hybrid refuse truck:

- Brudeli hybrid powertrain with Cummins ultra-low emission CNG engine
- Waste Management to demonstrate for 1 year
- UCR/CE-CERT to conduct real-world emissions testing and data collection



# Resource Impacts

Proposed Funding Source	Funding Amount	Project %
Peterbilt	\$275,000	6%
Brudeli	\$2,387,000	52%
Cummins	\$165,000	4%
Hexagon Agility	\$110,000	2%
Waste Management	\$650,000	14%
<b><i>South Coast AQMD (requested)</i></b>	<b><i>\$1,000,000</i></b>	<b><i>22%</i></b>
<b><u>Total Project Cost</u></b>	<b><u>\$4,587,000</u></b>	<b><u>100%</u></b>

# Recommended Action

Authorize the Executive Officer to execute a contract with Peterbilt Motors Company in an amount not to exceed \$1,000,000 to develop and demonstrate a plug-in hybrid heavy-duty refuse truck from the Clean Fuels Program Fund (31)