



# South Coast Air Quality Management District



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

Revised

## TECHNOLOGY COMMITTEE MEETING

### Committee Members

Council Member Carlos Rodriguez, Chair  
Supervisor Andrew Do  
Supervisor Curt Hagman  
Board Member Gideon Kracov  
Mayor Larry McCallon  
Board Member Veronica Padilla-Campos

**March 17, 2023 ♦ 12:00 p.m.**

### TELECONFERENCE LOCATION

County Administration North  
400 West Civic Center Drive, First Floor, Room 101  
Santa Ana, CA 92701

A meeting of the South Coast Air Quality Management District Technology Committee will be held at 12:00 p.m. on Friday, March 17, 2023 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/or virtual attendance via videoconferencing and by telephone. Please follow the instructions below to join the meeting remotely.

Given health and safety concerns, meeting the format may be changed to full remote via webcast. 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>

**Face coverings: In accordance with state and local public health department guidelines, people may choose to wear a mask based on personal preference while in South Coast AQMD facilities.**

### ELECTRONIC PARTICIPATION INFORMATION

(Instructions provided at bottom of the agenda)

*Join Zoom Meeting - from PC or Laptop*

<https://scagmd.zoom.us/j/96669409722>

**Zoom Webinar ID: 966 6940 9722 (applies to all)**

**Teleconference Dial In**

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**One-Tap Mobile**

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**Audience will be able to provide public comment through telephone or Zoom connection during public comment periods.**

**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.*

**CALL TO ORDER**

**ROLL CALL**

**ACTION ITEMS (1-3):**

**1. Adopt Resolutions Recognizing Revenues for FY 2022-23 Community Air Protection Program and Funding Agricultural Replacement Measures for Emission Reductions and Reimburse General Fund for Administrative Costs (*Motion Requested*)**

Alyssa Yan  
Program Supervisor

In December 2022, South Coast AQMD executed grant agreements with CARB to receive FY 2022-23 incentive funds from the Community Air Protection Program (CAPP) and the Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program, in the amount of \$91,199,804 and \$1,413,500, respectively, of which 6.25 percent may be used to fund administrative costs. These actions are to: 1) adopt Resolutions recognizing up to \$92 million in CAPP funds and \$1.5 million in FARMER funds from CARB into the Community Air Protection AB 134 Fund (77) and Carl Moyer Program Fund (32), respectively; and 2) reimburse the General Fund for administrative costs up to \$5,699,988 from the CAPP grant and up to \$88,344 from the FARMER Program.

**2. Recognize Revenue, Transfer Funds, and Execute Contracts for Assistance Implementing Enhanced Fleet Modernization Program (*Motion Requested*)**

Victor Juan  
Program Supervisor

Since 2015, South Coast AQMD has implemented CARB's Enhanced Fleet Modernization Program (EFMP), branded as Replace Your Ride in the South Coast Air Basin. CARB is awarding an additional \$3 million for FY2021-22 due to high demand, additional funding is needed to help cover the cost of program implementation. These actions are to: 1) recognize, upon receipt, up to \$3 million in supplemental funds from CARB into the HEROS II Special Revenue Fund (56); 2) reimburse the General Fund up to \$450,000 from the HERO II Special Revenue Fund (56) for administrative costs necessary to implement EFMP; 3) transfer funds, not to exceed \$2 million, from the BP ARCO Settlement Projects Fund (46) to the HEROS II Special Revenue Fund (56) for EFMP administrative expenditures; 4) transfer and appropriate

up to \$40,000 from the HEROS II Special Revenue Fund (56) to the General Fund (01) Technology Advancement Office's FY 2022-23 and/or FY 2023-24 Budget, Services and Supplies Major Object to provide outreach assistance to EFMP participants; and 5) authorize the Executive Officer to execute or amend contracts for EFMP implementation support with Opus Inspection, Foundation for California Community Colleges and Green Paradigm Consulting, Inc. in an amount not to exceed \$610,000, \$320,000, and \$330,000, respectively, from HEROS II Special Revenue Fund (56).

**3. Execute a Contract to Develop and Demonstrate Hydrogen Fuel Cell Mobile Power Generation System (*Motion Requested*)**

Sam Cao  
Program Supervisor

Zero-emission alternatives to diesel-fired stationary power generation systems are beginning to be addressed through fuel cell microgrids and energy storage. However, there has been little research into zero-emission energy alternatives for mobile power generation systems. This action is to execute a contract with RockeTruck, Inc. in an amount not to exceed \$200,000 to develop and demonstrate a mobile fuel cell power generation system from the Clean Fuels Program Fund (31).

**4. 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)

**5. 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.

**6. Next Meeting Date**

Friday, April 21, 2023 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 Chairman 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.

**Technology Committee Agenda #1**

BOARD MEETING DATE: April 7, 2023

AGENDA NO.

**PROPOSAL:** Adopt Resolutions Recognizing Revenues for FY 2022-23 Community Air Protection Program and Funding Agricultural Replacement Measures for Emission Reductions and Reimburse General Fund for Administrative Costs

**SYNOPSIS:** In December 2022, South Coast AQMD executed grant agreements with CARB to receive FY 2022-23 incentive funds from the Community Air Protection Program (CAPP) and the Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program, in the amount of \$91,199,804 and \$1,413,500, respectively, of which 6.25 percent may be used to fund administrative costs. These actions are to: 1) adopt Resolutions recognizing up to \$92 million in CAPP funds and \$1.5 million in FARMER funds from CARB into the Community Air Protection AB 134 Fund (77) and Carl Moyer Program Fund (32), respectively; and 2) reimburse the General Fund for administrative costs up to \$5,699,988 from the CAPP grant and up to \$88,344 from the FARMER Program.

**COMMITTEE:** Technology, March 17, 2023; Recommended for Approval

**RECOMMENDED ACTIONS:**

1. Adopt the attached Resolution recognizing, upon receipt from CARB, up to \$92 million in CAPP Funds into the Community Air Protection AB 134 Fund (77);
2. Adopt the attached Resolution recognizing, upon receipt from CARB, up to \$1.5 million in FARMER Program funds into the Carl Moyer Program Fund (32);
3. Reimburse the General Fund for administrative costs in an amount up to \$5,699,988 from Community Air Protection AB 134 Fund (77); and
4. Reimburse the General Fund for administrative costs in an amount up to \$88,344 from the FARMER Program Fund (32).

Wayne Nastri  
Executive Officer

**Background**

In June 2022, the Governor approved the Budget Act of 2022 (SB 154) which appropriated \$260 million for financial incentives to reduce mobile and stationary sources of criteria air pollutants or toxic air contaminants, consistent with community emissions reduction programs pursuant to AB 617 (including projects under the Community Air Protection Program (CAPP)). South Coast AQMD was allocated approximately \$92 million in funding to implement projects under CAPP. CAPP funds will support incentive projects that reduce emissions and improve public health in communities with high burdens of cumulative pollutant exposure consistent with the requirements of AB 617, AB 1550 and SB 535. AB 1550 and SB 535 require at least 70 to 80 percent of the funds go towards emission reduction projects that directly benefit disadvantaged and low-income communities.

Also, the agricultural industry in California, including the South Coast and Coachella Valley Air Basins, consist of many farms and ranches that produce commodities shipped throughout the world. This industry consists of producers, custom operators and first processors that own and operate numerous on- and off-road diesel-fueled equipment. Even with increasingly stringent emission standards on engine manufacturers, emissions from older diesel agricultural vehicles and equipment continue to be a significant source of air pollution. Reducing these emissions are necessary to meet federal ozone and particulate matter air quality standards, and natural turnover of these vehicles and equipment is not sufficient to meet South Coast AQMD's clean air goals. For FY 2022-23, the State Legislature allocated \$150 million to CARB to fund grants with air districts under the Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program. South Coast AQMD was allocated approximately \$1.5 million in funding to implement projects in the agricultural sector.

In December 2022, South Coast AQMD executed grant agreements with CARB to receive FY 2022-23 incentive funds for the CAPP and FARMER Programs. Funds received under CAPP will be utilized to implement incentive programs, including Carl Moyer, Proposition 1B – Goods Movement Program, and projects approved in Community Emission Reduction Programs. The funds received under the FARMER Program must be used to fund vehicles and equipment projects that are used in agricultural operations. The projects will be implemented according to the approved FARMER and Carl Moyer Program Guidelines.

**Proposal**

These actions are to adopt the attached Resolutions to recognize up to \$92 million and \$1.5 million and from CARB into the Community Air Protection AB 134 Fund (77) for the CAPP Program and the Carl Moyer Program Fund (32) for the FARMER Program, respectively, and to reimburse the General Fund up to 6.25 percent from the CAPP and FARMER grant amounts for the administrative costs incurred for CAPP and FARMER Program implementation.

**Benefits to South Coast AQMD**

The implementation of incentive projects funded by the CAPP funds will reduce emissions of criteria and toxic air pollutants, including diesel particulate matter (PM), in communities with high burdens of cumulative pollutant exposure. The CAPP incentive funds will be used for projects that meet or exceed the statewide targets specified by the CAPP incentive grant agreement. Also, the additional funds provided for the implementation of the FARMER Program will provide surplus NOx and PM emission reductions as required by the FARMER and Carl Moyer Program Guidelines. The funds will be used for projects that reduce emissions beyond what is required by existing regulations, and these reductions will continue throughout the life of the projects, resulting in long-term emission reductions and public health benefits.

**Resource Impacts**

South Coast AQMD will receive up to \$92 million and up to \$1.5 million from CARB for FY 2022-23 CAPP and FARMER Programs, respectively. Funds received under CAPP will be recognized under Community Air Protection AB 134 Fund (77) and funds received under FARMER will be recognized under Carl Moyer Program Fund (32). Administrative costs will not exceed 6.25 percent for each program.

**Attachments**

Resolutions



**RESOLUTION NO. 23-XX**

**A Resolution of the South Coast Air Quality Management District Governing Board  
Recognizing FY 2022-23 Community Air Protection Incentive Funds**

WHEREAS, under Health and 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 and Safety Code §§40402, 40440, 40448.5 as well as the Carl Moyer Memorial Air Quality Standards Attainment Program (§§44275 et seq.) to implement programs to reduce transportation emissions, including programs to encourage the use of alternative fuels, 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 and off-road vehicles, as well as emissions from other equipment, including infrastructure from the Carl Moyer Program, the Proposition 1B-Goods Movement 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, there are specific legislative requirements (e.g., expenditure records, quantification methodology, annual reporting, and disadvantaged/low-income community investments) of the cap and trade proceeds that the South Coast AQMD will need to adhere to; 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 FURTHER RESOLVED that the Governing Board of the South Coast AQMD, State of California, in regular session assembled on April 7, 2023, does hereby recognize up to \$92 million in FY 2022-23 (Year 6) Community Air Protection Program (CAPP) incentive funds from CARB to administer and implement the Year 6 CAPP.

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

\_\_\_\_\_  
Date

\_\_\_\_\_  
Faye Thomas, Clerk of the Boards



**RESOLUTION NO. 23-XX**

**A Resolution of the South Coast Air Quality Management District Governing Board  
Recognizing FY 2022-23 FARMER Funds**

WHEREAS, in June 2022, Governor Newsom signed into law Senate Bill (SB) 154, which appropriates \$150,000,000 from the State Budget for FY 2022-23 to the California Air Resources Board (CARB) for reducing criteria, toxic and greenhouse gas (GHG) emissions from the agricultural sector;

WHEREAS, CARB developed the Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program Guidelines to meet the Legislature's objectives and help meet the State's criteria, toxic and GHG emission reduction goals;

WHEREAS, the funding for the FARMER Program comes from the General Fund of SB 154;

WHEREAS, CARB has proposed an allocation of \$1,413,500 for the South Coast Air Quality Management District (South Coast AQMD) to implement projects pursuant to the FARMER Program Guidelines;

WHEREAS, there are specific legislative requirements (e.g., expenditure records, quantification methodology, annual reporting, and disadvantaged/low-income community investments) of the cap and trade proceeds that the South Coast AQMD will need to adhere to;

WHEREAS, the South Coast AQMD may need to transfer funds to other air districts, or may be invited to accept FARMER funds through inter-district transfer;

NOW, THEREFORE, BE IT RESOLVED that the Governing Board, in regular session assembled on April 7, 2023, does hereby approve South Coast AQMD participation in the FY 2022-23 FARMER Program and recognize up to \$1.5 million from CARB in FARMER Program funds.

BE IT FURTHER RESOLVED that the South Coast AQMD will comply with the FARMER Program requirements as specified in the grant award, applicable FARMER Program Guidelines and the South Coast AQMD's FARMER Policies and Procedure Manual.

BE IT FURTHER RESOLVED that the South Coast AQMD Governing Board authorizes the Executive Officer to enter into contracts or grants with other California air quality districts to transfer funds to other districts or accept FARMER funds through inter-district transfer as necessary.

BE IT FURTHER RESOLVED that the Executive Officer is hereby authorized and empowered to execute on behalf of South Coast AQMD grant agreements with CARB and all other necessary documents to implement and carry out the purposes of this Resolution.

\_\_\_\_\_

Date

\_\_\_\_\_

Faye Thomas, Clerk of the Boards

# Agenda Item #1

Adopt Resolutions Recognizing Revenue for the FY 2022-23 Community Air Protection Program (CAPP) and the Funding Agricultural Replacement Measures for Emission Reductions (FARMER) Program and Reimburse General Fund for Administrative Costs

Alyssa Yan

# Background

## Community Air Protection Program Funds

- Support projects for emission and exposure reductions from AB 617 Communities
- At least 70 to 80 percent of the funds must benefit disadvantaged and low-income communities (AB 535 and AB 1550)

CAPP Allocation	Initial Amount (\$)
Project Funds	\$85,499,816
Implementation Funds	\$5,699,988
<b>Total</b>	<b>\$91,199,804</b>

# Background (Cont'd)

## FARMER Funds

- Support funding of mobile equipment in the agricultural sector
- Promote equipment turnover to meet clean air goals in the South Coast and Coachella Valley Air Basins



FARMER Program Allocation	Initial Amount (\$)
Project Funds	\$1,413,500
Implementation Funds	\$88,344
<b>Total</b>	<b>\$1,413,500</b>

# Recommended Actions

- Adopt a Resolution Recognizing up to \$92 million in CAPP Funds from CARB into the AB 617 Fund (77)
- Adopt a Resolution Recognizing up to \$1.5 million in FARMER funds from CARB into the Carl Moyer Program Fund (32)
- Reimburse the General Fund for administrative costs up to \$5,699,988 from the CAPP Fund and up to \$88,344 from the FARMER Program

**Technology Committee Agenda #2**

BOARD MEETING DATE: April 7, 2023

AGENDA NO.

**PROPOSAL:** Recognize Revenue, Transfer Funds, and Execute Contracts for Assistance Implementing Enhanced Fleet Modernization Program

**SYNOPSIS** Since 2015, South Coast AQMD has implemented CARB's Enhanced Fleet Modernization Program (EFMP), branded as Replace Your Ride in the South Coast Air Basin. CARB is awarding an additional \$3 million for FY2021-22 due to high demand, additional funding is needed to help cover the cost of program implementation. These actions are to: 1) recognize, upon receipt, up to \$3 million in supplemental funds from CARB into the HEROS II Special Revenue Fund (56); 2) reimburse the General Fund up to \$450,000 from the HERO II Special Revenue Fund (56) for administrative costs necessary to implement EFMP; 3) transfer funds, not to exceed \$2 million, from the BP ARCO Settlement Projects Fund (46) to the HEROS II Special Revenue Fund (56) for EFMP administrative expenditures; 4) transfer and appropriate up to \$40,000 from the HEROS II Special Revenue Fund (56) to the General Fund (01) Technology Advancement Office's FY 2022-23 and/or FY 2023-24 Budget, Services and Supplies Major Object to provide outreach assistance to EFMP participants; and 5) authorize the Executive Officer to execute or amend contracts for EFMP implementation support with Opus Inspection, Foundation for California Community Colleges and Green Paradigm Consulting, Inc. in an amount not to exceed \$610,000, \$320,000, and \$330,000, respectively, from HEROS II Special Revenue Fund (56).

**COMMITTEE:** Technology, March 17, 2023; Recommended for Approval

**RECOMMENDED ACTIONS:**

1. Recognize upon receipt, up to \$3 million from CARB into the HEROS II Special Revenue Fund (56);
2. Reimburse the General Fund up to \$450,000 from the HEROS II Special Revenue Fund (56) for administrative costs necessary to implement EFMP;
3. Transfer funds, not to exceed \$2 million, from the BP ARCO Settlement Projects Fund (46) to the HEROS II Special Revenue Fund (56) for EFMP administrative expenditures;



4. Transfer and appropriate up to \$40,000 from the HEROS II Special Revenue Fund (56) to the General Fund (01) Technology Advancement Office's FY 2022-23 and/or FY 2023-24 Budget, Services and Supplies Major Object to provide outreach assistance to EFMP participants; and
5. Authorize the Executive Officer to execute or amend contracts for EFMP implementation support with Opus Inspection, Foundation for California Community Colleges and Green Paradigm Consulting, Inc. in an amount not to exceed \$610,000, \$320,000, and \$330,000, respectively, from HEROS II Special Revenue Fund (56).

Wayne Nastri  
Executive Officer

AK:MW:TL:VJ

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### **Background**

Since 2015, South Coast AQMD has been implementing an Enhanced Fleet Modernization Program (EFMP), branded as Replace Your Ride. South Coast AQMD's Replace Your Ride Program is a vehicle retirement and replacement program which provides incentives to lower income households to scrap and replace their older, high emitting vehicles with newer, cleaner models or other transportation options. Since its inception, South Coast AQMD has provided over \$73 million in EFMP funding and replaced over 9,200 older passenger vehicles with newer fuel-efficient vehicles, e-Bikes and transportation vouchers which has resulted in reducing 27 tons of NOx, 1.5 tons PM, and 37,193 tons of GHG emission annually. Approximately 93 percent of the vouchers have been issued to low-income participants residing in disadvantaged communities.

In 2021 and 2022 CARB awarded a total of \$28 million to South Coast AQMD for FY 2021-22 to implement EFMP. To help meet the high demand for the program, CARB is awarding an additional \$3 million for FY2021-22. Implementation of the EFMP is very resource intensive and requires extensive interaction with applicants. In the past two years administrative costs incurred to support the program have increased largely due to the program's popularity and a one year funding pause during the pandemic. Thus, additional funding from other sources is needed to help cover the cost of program implementation.

### **Proposal**

These actions are to: (1) upon receipt from CARB, recognize up to \$3 million into the HEROS II Special Revenue Fund (56); (2) reimburse the General Fund up to \$450,000 from the HEROS II Special Revenue Fund (56) for administrative costs necessary to

implement EFMP; (3) transfer funds not to exceed \$2 million from the BP ARCO Settlement Projects Fund (46) to the HEROS II Special Revenue Fund (56) for administrative expenditures; (4) transfer and appropriate \$40,000 from the HEROS II Special Revenue Fund (56) to the General Fund (01) Technology Advancement Office's FY 2022-23 and/or FY 2023-24 Budget, Services and Supplies Major Object to provide outreach assistance to EFMP participants; and (5) authorize the Executive Officer to execute or amend contracts with Opus Inspection, Foundation for California Community Colleges and Green Paradigm Consulting, Inc. in an amount not to exceed \$610,000, \$320,000, and \$330,000, respectively, from HEROS II Special Revenue Fund (56) for program implementation support.

**Sole Source Justification**

Section VIII.B.2 of the Procurement Policy and Procedure identifies provisions under which a sole source award may be justified. The request for sole source awards to contractors identified in Recommended Action No. 5 is made under Section VIII.B.2.c.1: the contractors have unique experience and capabilities; and Section VIII.B.2.d.2: other circumstances exist which in the determination of the Executive Officer require such a waiver in the best interest of the South Coast AQMD - time extensions of an existing contract. The contractors have been assisting South Coast AQMD on EFMP program implementation and their support continues to be required.

**Benefits to South Coast AQMD**

EFMP will continue to provide clean vehicle incentives to qualifying lower income households primarily for those residing in disadvantaged communities and provide emission reduction benefits to these communities and throughout the region.

**Resource Impacts**

CARB funding (Grant G21-CC4A-01) up to \$3 million, upon receipt, for the FY 2021-22 EFMP Programs will be recognized into the HEROS II Special Revenue Fund (56). Sufficient funding is available from BP ARCO Settlement Projects Fund (46) for the transfer to support program implementation.

## Agenda Item #2

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Recognize Revenue, Transfer Funds,  
and Execute Contracts for Assistance  
Implementing the Enhanced  
Fleet Modernization Program

Victor Juan



# Background

- Enhanced Fleet Modernization Program (EFMP) branded Replace Your Ride in South Coast AQMD
- Started in 2015
- Scrap older vehicles and replace with cleaner options
- Over 9,200 vehicles replaced totaling \$72 million
- 93% reside in disadvantaged communities (DAC)
- Reduced 27 tons of NO<sub>x</sub>, 1.5 tons PM, and 37,193 tons of GHG emission annually





# Background (Cont'd)

- Program popularity
- Resource intensive
  - Significant program implementation costs
  - Administered with assistance of three contractors
  - Delays in receiving funding
  - One-year funding moratorium
  - No increase in program administrative funds since 2015



# Proposal

- Recognize an additional \$3 million in supplemental funds to previously recognized \$28 million FY 2021-2022 funding from CARB for EFMP implementation
- Transfer \$2 million from BP ARCO Settlement Projects Fund to reimburse administrative expenditures and outreach support
- Execute and amend consultant contracts for EFMP implementation support



# Recommended Actions

- Recognize \$3 million from CARB for EFMP implementation
- Reimburse the General Fund with the 15% Administration portion of the \$3 million CARB funds (\$450,000)
- Transfer up to \$2 million from BP ARCO Settlement Projects Fund (48) to the HEROS II Special Revenue Fund (56) to reimburse administrative expenditures
  - Transfer and appropriate \$40,000 to the General Fund for the costs of EFMP outreach support





# Recommended Actions (Cont'd)

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- Authorize the Executive Officer to execute or amend contracts with Opus Inspection, Foundation for California Community Colleges and Green Paradigm Consulting, Inc. in an amount not to exceed \$610,000, \$320,000, and \$330,000 from HEROS II Special Revenue Fund (56)

BOARD MEETING DATE: April 7, 2023

AGENDA NO.

**PROPOSAL:** Execute a Contract to Develop and Demonstrate Hydrogen Fuel Cell Mobile Power Generation System

**SYNOPSIS:** Zero-emission alternatives to diesel-fired stationary power generation systems are beginning to be addressed through fuel cell microgrids and energy storage. However, there has been little research into zero-emission energy alternatives for mobile power generation systems. This action is to execute a contract with RockeTruck, Inc. in an amount not to exceed \$200,000 to develop and demonstrate a mobile fuel cell power generation system from the Clean Fuels Program Fund (31).

**COMMITTEE:** Technology, March 17, 2023; Recommended for Approval

**RECOMMENDED ACTION:**

Authorize the Executive Officer to execute a contract with RockeTruck, Inc. in an amount not to exceed \$200,000 to develop and demonstration a mobile fuel cell power generator system from the Clean Fuels Program Fund (31).

Wayne Natri  
Executive Officer

AK:MW:SC

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**Background**

California's wildfire and severe weather events has caused grid outages which has increased demand for stationary and mobile backup generation. Most facilities today use diesel fired backup generators during outages. Diesel particulate is a carcinogen and widespread use of diesel backup generators can adversely impact residents and other sensitive receptors. A clean energy alternative is needed to minimize impacts to affected communities during these events or other emergency outages. Another benefit of zero-emission mobile systems is that they can be used by a community or customer to fill power voids during normal grid operations, such as providing power for battery electric vehicle charging. With the increased adoption of battery electric vehicles, mobile based

power generation systems can help provide grid resiliency and power for charging vehicles without the emissions from fossil-fueled combustion generation.

In late 2021, RockeTruck, Inc. (RockeTruck) was awarded a \$3 million grant from CEC under GFO-20-310 to develop and demonstrate independent mobile backup generation systems. As a proof of concept, the first system will utilize an existing 80kW fuel cell and battery system from a Honda Clarity Fuel Cell vehicle donated by American Honda Motor Company. With the proposed 150 kg onboard hydrogen storage, the trailer mounted mobile fuel cell generator can enable 35 kW of continuous power generation for up to 48 hours or 50 kW for 16 hours while having the ability to ramp up to an 80 kW peak. In mid-2022, RockeTruck was awarded another grant from DOE's Small Business Technology Transfer (SBTT) Program to increase the peak power capability. The goal of this project is to produce a commercially viable mobile based fuel cell generator by the end of 2024.

### **Proposal**

RockeTruck will develop and demonstrate the second phase mobile based fuel cell generator. The proposed project leverages an existing mobile fuel cell generator project funded by CEC and DOE to develop a second higher powered system. Power output will be increased by using two Honda fuel cells and a 70 kWh commercial battery system provided by Coulomb Solutions, Inc. (CSI). The power system upgrade will enable the second mobile fuel cell generator to maintain 35kW of continuous power generation for 48 hours with increased capabilities of 100 kW for up to 16 hours and 120kW peak output. The project will also include electrical upgrades that enable 480 volts three-phase power to provide high power charging of electric vehicles. The capability to charge vehicles will be demonstrated at the Hydrogen Research and Fueling Facility (HRFF) located at California State University, Los Angeles. Both Southern California Edison (SCE) and San Diego Gas & Electric Company (SDG&E) have agreed to participate in the testing of the mobile generator and support field demonstration within their service territories.

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

The proposed project is relevant to South Coast AQMD's priorities to reduce NOx and PM emissions from transportation sources required to achieve federal ambient air quality standards and protect public health. Projects to support the clean generation efforts are included in the Technology Advancement Office Clean Fuels Program 2022 Plan Update under the category of "Stationary Clean Fuel Technologies." Successful demonstration of this clean mobile generation concept will help develop zero-emission mobile power generating platforms that will reduce the emissions associated with mobile power generation. Depending on application, the estimated NOx reduction will be up to 0.2 tons per year.

**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 awards is made under provision B.2.d.(1): Project involving cost-sharing by multiple sponsors. The proposed projects include cash and in-kind cost-sharing from CEC, DOE, RockeTruck, SCE, SDG&E, CSI and South Coast AQMD.

**Resource Impacts**

The estimated cost for this project is \$4,617,067. South Coast AQMD’s cost-share will not exceed \$200,000 from the Clean Fuels Program Fund (31). The estimated partners cost-share and total project cost is summarized below:

<b>Proposed Partners</b>	<b>Amount</b>	<b>Percent (%)</b>
CEC	\$3,000,000	65%
RockeTruck	\$1,005,567	22%
DOE	\$206,500	4%
South Coast AQMD ( <i>requested</i> )	\$200,000	4%
SDG&E	\$100,000	2%
SCE	\$90,000	2%
CSI	\$15,000	1%
<b>Total Project Cost</b>	<b>\$4,617,067</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 Cleans 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 Item #3

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Execute a Contract to Develop and  
Demonstrate Hydrogen Fuel Cell Mobile  
Power Generation System

Sam Cao

# Background

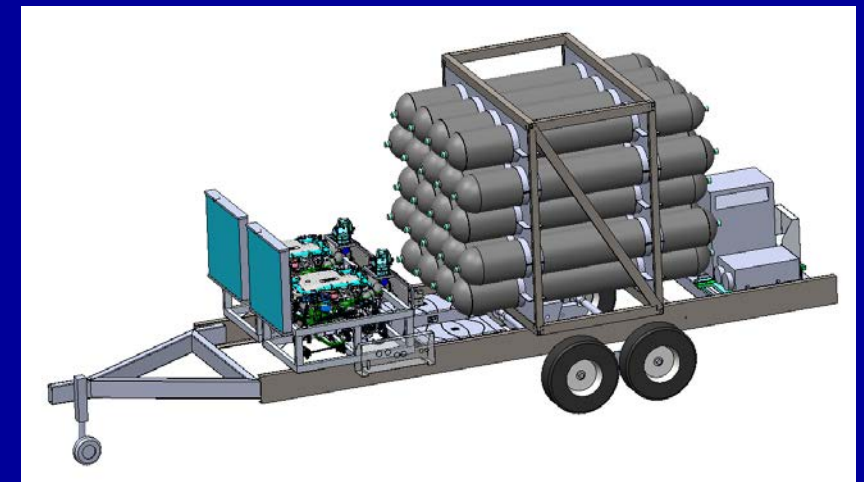
- Severe weather events increased demand for stationary and mobile backup power generations
- Majority of power generation is diesel backup engines
  - Diesel particulate is a carcinogen
- Zero-emission mobile power generation systems can support microgrids and battery electric vehicle charging



# Proposal

RockeTruck, Inc. proposes to develop and demonstrate mobile fuel cell generator system

- Leveraging existing project from CEC and DOE, utility partnership with SCE and SDG&E
- Uses fuel cells from Honda Clarity fuel cell vehicle, onboard hydrogen storage
- Demonstrate the mobile generator for grid resiliency at the Hydrogen Research and Fuel Facility at CSU Los Angeles





# Proposed Project Costs

Funding Source	Funding Amount	Percent
California Energy Commission	\$3,000,000	65%
RockeTruck	\$1,005,567	22%
U.S. Department of Energy	\$206,500	4%
<b>South Coast AQMD (requested)</b>	<b>\$200,000</b>	<b>4%</b>
SDG&E	\$100,000	2%
Southern California Edison	\$90,000	2%
Coulomb Solution Inc.	\$15,000	1%
<b>Total</b>	<b>\$4,617,067</b>	<b>100%</b>

# Recommended Actions

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Execute a contract with RockeTruck, Inc. to develop and demonstration a mobile fuel cell power generator system for power generation in an amount not to exceed \$200,000 from the Clean Fuels Program Fund (31)