



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
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TECHNOLOGY COMMITTEE MEETING

Committee Members

Council Member Joe Buscaino, Chair
Supervisor Lisa Bartlett
Board Member Gideon Kracov
Mayor Pro Tem Larry McCallon
Vice Mayor Rex Richardson
Mayor Pro Tem Carlos Rodriguez

June 18, 2021 ♦ 12:00 p.m.

Pursuant to Governor Newsom's Executive Orders N-25-20 (March 12, 2020) and N-29-20 (March 17, 2020), the South Coast AQMD Technology Committee meeting will only be conducted via video conferencing and by telephone. Please follow the instructions below to join the meeting remotely.

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

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

PUBLIC COMMENT WILL STILL BE TAKEN

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 each.

CALL TO ORDER

ROLL CALL

ACTION ITEMS (1-3):

- 1. Execute Contract to Develop and Demonstrate Hydrogen Fuel Cell Medium-Duty Buses (*Motion Requested*)**

A-1 Alternative Fuel Systems and partners propose to develop two Class 4 hydrogen fuel cell power medium-duty buses and demonstrate the technology with Sunline Transit Agency. This action is to execute a contract with A-1 Alternative Fuel Systems in an amount not to exceed \$531,166 to develop, demonstrate and commercialize hydrogen fuel cell medium-duty buses from the Clean Fuels Program Fund (31).

Sam Cao
Air Quality
Specialist
- 2. Execute Contracts for Technical Assistance and Program Implementation to Support South Coast AQMD's Technology Advancement Activities (*Motion Requested*)**

South Coast AQMD administers and manages pre-commercial research, development, demonstration and deployment of low and zero emission technologies. On April 2, 2021, the Board approved the release of RFQ #Q2021-06 to solicit proposals to support advanced, low and zero emission technologies for the Clean Fuels Program and Implementation efforts. Eleven proposals were received in response to this solicitation. This action is to execute contracts with qualified consultants and consulting firms to provide technical assistance and outreach support in advanced, low and zero emission technologies. These contracts will not exceed \$775,000 from the Clean Fuels Program Fund (31).

Joseph Impullitti
Technology
Demonstration
Manager
- 3. Recognize Funds and Execute Memorandums of Understanding with City of Los Angeles and City of Long Beach, acting by and through Port of Los Angeles and Port of Long Beach, for New Cleanest Available Drayage Trucks Meeting the Proposition 1B Program Guidelines (*Motion Requested*)**

South Coast AQMD administers and implements the Proposition 1B – Goods Movement Emission Reduction Program, which is now in the final phase of funding. The Port of Los Angeles and Port of Long Beach would like to partner with the South Coast AQMD to fund drayage trucks deploying the newest, cleanest available technologies. This action is to recognize funds in an amount of up to \$1 million from each Port, totaling \$2 million, and execute MOUs with the City of Los Angeles and City of Long Beach, acting by and through their respective Board of Harbor Commissioners, POLA and POLB, to fund drayage trucks utilizing the cleanest available technologies in accordance with the criteria and funding amounts specified by the Proposition 1B Program.

Fan Xu
Air Quality
Specialist

OTHER MATTERS:

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, August 20, 2021 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.

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 7:30 a.m. to 6:00 p.m., Tuesday through Friday, or send the request to 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.

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: August 6, 2021

AGENDA NO.

PROPOSAL: Execute Contract to Develop and Demonstrate Hydrogen Fuel Cell Medium-Duty Buses

SYNOPSIS: A-1 Alternative Fuel Systems and partners propose to develop two Class 4 hydrogen fuel cell power medium-duty buses and demonstrate the technology with Sunline Transit Agency. This action is to execute a contract with A-1 Alternative Fuel Systems in an amount not to exceed \$531,166 to develop, demonstrate and commercialize hydrogen fuel cell medium-duty buses from the Clean Fuels Program Fund (31).

COMMITTEE: Technology, June 18, 2021; Recommended for Approval

RECOMMENDED ACTION:

Authorize the Chairman to execute a contract with A-1 Alternative Fuel Systems in an amount not to exceed \$531,166 to develop, demonstrate and commercialize hydrogen fuel cell medium-duty buses from the Clean Fuels Program Fund (31).

Wayne Natri
Executive Officer

MMM:AK:JI:SC

Background

As CARB continues to adopt zero emission mandates such as the Innovative Clean Transit (ICT), Zero-Emission Airport Shuttle and Advanced Clean Trucks regulations, there is growing demand for longer range, fast fueling options that meet more vigorous duty cycles. Ford medium-duty vehicles have significant market share in multiple applications, including local and regional goods movement, municipal fleets, utilities, and a variety of transit, shuttle and school bus operations.

A-1 Alternative Fuel Systems (A-1) have demonstrated their commercialization strategy as well as aftermarket service and warranty capability from their two decades of

alternative fuels industry experience. A-1 and partners propose to develop two new zero emission hydrogen fuel cell powered Ford platforms for medium-duty commercial trucks and buses. This project will leverage A-1 and partners' core capabilities to co-develop and bring to market long-range, fast filling medium-duty zero emission platforms that are currently not commercially available.

Proposal

A-1, along with SoCalGas, Plug Power, Inc., SEA Electric LLC, Turtle Top, Hometown Manufacturing, Inc. and Luxfer Gas Cylinders propose to develop, demonstrate and commercialize two hydrogen fuel cell Class 4 medium-duty buses on Ford platforms that are capable of 175-300 miles of range. Plug Power, Inc. and SEA Electric LLC, will engineer and develop the hydrogen fuel cell and chassis electrification components for use on the Ford medium-duty platforms. Hometown Manufacturing, Inc. and Turtle Top will supply the suitable shuttle bus bodies. A-1 will perform the final systems integration of a low floor kneeling bus on a Ford F-53 platform and a standard floor bus on Ford E-450 platform at their engineering and production facilities. Luxfer Gas Cylinders will provide the hydrogen fuel tank storage systems. Both buses will be used for Altoona/CARB verification and extended in-service demonstration with Sunline Transit Agency for up to 12 months. SoCalGas will provide funding support as well as assist the team in developing additional outlets for hydrogen fueling infrastructure.

This proposal is to execute a contract with A-1 Alternative Fuel Systems in an amount not to exceed \$531,166 to develop, demonstrate and commercialize hydrogen fuel cell medium-duty buses from the Clean Fuels Program Fund (31).

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 in order to achieve federal ambient air quality standards and protect public health. Projects to support development and demonstration of advanced technologies are included in the Technology Advancement Office Clean Fuels Program 2021 Plan Update under the category of "Hydrogen & Fuel Cell Technology and Infrastructure". Successful demonstration of this technology will help support the commercial viability and wide-scale deployment of zero emissions technology in the medium-duty truck sector by offering more options that meet a variety of fleet needs.

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 projects include cash and in-kind cost-sharing from SoCalGas and the project proponents.

Resource Impacts

South Coast AQMD's cost-share will not exceed \$531,166 from the Clean Fuels Program Fund (31). The estimated partners cost-share and total project cost is summarized below.

Proposed Partners	Amount	Percent (%)
SoCalGas	\$531,166	25
Plug Power Inc.	\$258,000	12
SEA Electric LLC	\$250,000	12
Sunline Transit Agency (in-kind)	\$160,608	8
A-1	\$132,668	6
Hometown Manufacturing, Inc	\$110,000	5
Turtle Top	\$85,000	4
Luxfer Gas Cylinders	\$28,000	1
South Coast AQMD (<i>requested</i>)	\$531,166	25
Total Project Cost	\$2,086,608	100

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 Item #1

Sam Cao

Execute Contract to Develop and Demonstrate
Hydrogen Fuel Cell Medium-Duty Buses

Background

- CARB has adopted various zero-emission mandates
 - Innovative Clean Transit Regulation (ICT)
 - Zero-Emission Airport Shuttle Regulation
 - Advanced Clean Trucks (ACT) Regulation
- Growing demand for longer range, fast fueling options to meet more vigorous duty cycles currently not commercially available
- Ford medium-duty commercial vehicles have significant market share in multiple applications
- A-1 and partners propose to leverage their expertise and bring to market two new hydrogen fuel cell Ford medium-duty platforms



Proposal

Develop, demonstrate and commercialize hydrogen fuel cell medium-duty buses

- Partnering with SoCalGas
- Plug Power Inc. and SEA Electric LLC to development hydrogen fuel cell and chassis electrification components
- Turtle Top, Hometown Manufacturing, Inc. and Luxfer Gas Cylinders to provide shuttle bus bodies and hydrogen storage systems
- A-1 to perform the final integration and CARB & Altoona certifications
- Up to 12 months in-service demonstration with Sunline Transit



Proposed Project Cost

Project Partners	Amount	Percent
SoCalGas	\$531,116	25
Plug Power Inc.	\$258,000	12
SEA Electric LLC	\$250,000	12
Sunline Transit Agency (in-kind)	\$160,608	8
A-1	\$132,668	6
Hometown Manufacturing, Inc	\$110,000	5
Turtle Top	\$85,000	4
Luxfer Gas Cylinders	\$28,000	1
South Coast AQMD (<i>requested</i>)	\$531,116	25
Total Project Cost	\$2,086,608	100

Recommended Action

Execute contract with A-1 Alternative Fuel Systems in amount not to exceed \$531,116 to develop, demonstrate and commercialize hydrogen fuel cell medium-duty buses from the Clean Fuels Fund (31)

Technology Committee Agenda #2

BOARD MEETING DATE: August 6, 2021

AGENDA NO.

PROPOSAL: Execute Contracts for Technical Assistance and Program Implementation to Support South Coast AQMD's Technology Advancement Activities

SYNOPSIS: South Coast AQMD administers and manages pre-commercial research, development, demonstration and deployment of low and zero emission technologies. On April 2, 2021, the Board approved the release of RFQ #Q2021-06 to solicit proposals to support advanced, low and zero emission technologies for the Clean Fuels Program and Implementation efforts. Eleven proposals were received in response to this solicitation. This action is to execute contracts with qualified consultants and consulting firms to provide technical assistance and outreach support in advanced, low and zero emission technologies. These contracts will not exceed \$775,000 from the Clean Fuels Program Fund (31).

COMMITTEE: Technology, June 18, 2021; Recommended for Approval

RECOMMENDED ACTIONS:

1. Authorize the Chairman to execute the following contracts in an amount not to exceed \$775,000 from the Clean Fuels Program Fund (31):
 - a) Green Paradigm Consulting, Inc., (GPCI) for technical assistance and program implementation support with alternative fuels, alternative fuel vehicles, charging and fueling infrastructure in an amount not to exceed \$200,000;
 - b) Gladstein, Neandross & Associates (GNA) for technical assistance with alternative fuels, fueling infrastructure, proposal development and outreach in an amount not to exceed \$300,000;
 - c) CALSTART, Inc., for technical assistance with assessment of cleaner technologies and mobile source applications in an amount not to exceed \$100,000;
 - d) University of California Riverside (UCR) for technical assistance with heavy-duty vehicle emission testing, test methods, analyses and engine development and applications in an amount not to exceed \$75,000; and

- e) AEE Solutions LLC for technical assistance with heavy-duty vehicle emission testing, test methods, and analysis of real-world activity data in an amount not to exceed \$100,000;

Wayne Natri
Executive Officer

MMM:AK:JI:PSK

Background

The AQMP is the comprehensive regional plan for attaining federal air quality standards in the South Coast Air Basin. In addition to full implementation of current technologies and control methods, there is a need to further develop and promote advanced cleaner technologies. In particular, mobile sources such as NO_x from heavy-duty diesel engines and/or vehicles are responsible for the majority of air pollution in the South Coast Air Basin.

South Coast AQMD's Technology Advancement Office (TAO) administers and manages pre-commercial research, development, demonstration and deployment of low and zero emission technologies. The Clean Fuels Program receives more than \$12 million annually in revenue and typically has over 100 active contracts annually. The Clean Fuels Program supports a mix of short-, medium-, and long-term goals, representing a portfolio of technologies at different stages of technology readiness to achieve cleaner air. Due to constant and rapid innovations in technologies and the sheer breadth of potential projects, staff occasionally requires input from experts and in-the-field practitioners to aid in establishing projects and carrying out specialized tasks for the Clean Fuels Program.

On April 2, 2021, the Board approved RFQ #Q2021-06 to solicit proposals for technical assistance for the Clean Fuels Program and implementation of various incentive funding programs. The RFQ solicited qualifications from individuals and organizations capable of providing technical assistance in a variety of areas to support staff activities. These areas of technical assistance include: mobile applications – low and zero emission technologies; fuels – processing, reformulation and emission analyses; stationary applications – advanced combustion and renewables; emissions and analyses – in-use measurements and health analyses; outreach – latest technological advancements; and financial analyst services – financial studies and cost analyses. Proposals were due on May 18, 2021.

Outreach

In accordance with South Coast AQMD's Procurement Policy and Procedure, a public notice advertising the RFQ 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 Basin.

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

Proposal Evaluation

Seven of the eleven proposals received in response to RFQ #Q2021-06, as shown in Table 1 were evaluated for the Technology Demonstration group and scored by a three-member panel in accordance with established South Coast AQMD guidelines. The panel consisted of one Assistant Deputy Executive Officer, one Technology Demonstration Manager and one Contracts and Outreach Manager. The panel breakdown was as follows: three males; two Caucasians and one Asian Pacific Islander.

Table 1: List of Proposers by Area of Specialty

Proposer	Technology Demonstration
AEE Solutions LLC	Emissions testing, test methods
CALSTART, Inc.	Cleaner technology assessment, policy
GNA	Proposal development, outreach
GPCI	Project implementation support
Sonoma Technology, Inc.	Emissions modeling, data analysis
Tetra Tech, Inc.	Evaluation of alternative fuel technologies
UCR	Emission testing, test methods

Scores are shown in Table 2 of the attachment. Based on these scores and current needs, staff is recommending funding levels for each of the proposers as shown in Table 3 of the attachment. The technical expertise of four proposers - Associates Environmental, Cora Consulting LLC, Opus Inspection and Saint Malo Solutions LLC - did not match the specific objectives and needs of South Coast AQMD demonstration program at this time and are therefore not recommended for awards.

Table 2: Average Scores for Proposers

Proposer	Technical Points	Labor Rates	Additional Points*	Total Points
GPCI	63	30	15	108
GNA	64	25	17	106
CALSTART, Inc.	64	25	5	94
UCR	62	25	0	87
AEE Solutions LLC	56	25	0	81
Tetra Tech, Inc.*	40			
Sonoma Technology, Inc.*	35			

*These proposals did not score sufficient points for technical criteria by the panel

Proposal

This action is to execute level-of-effort contracts from the Clean Fuels Program Fund (31) as follows:

Green Paradigm Consulting, Inc., (GPCI) will provide technical assistance and program implementation support with alternative fuels, alternative fuel vehicles, charging and fueling infrastructure in an amount not to exceed \$200,000. GPCI has been providing program implementation support for large grant funded projects including the GGRF Zero Emission Drayage Truck Project, ZANZEFF Volvo LIGHTS, EPA Volvo Switch-On, and CARB-CEC Pilot Project.

Gladstein, Neandross & Associates (GNA) will provide technical expertise with alternative fuels, fueling infrastructure, proposal development and outreach in an amount not to exceed \$300,000. GNA has partnered with OEMs, fleets and infrastructure providers to develop projects such as the deployment of Class 8 battery electric trucks and cargo handling equipment for fleets in the ZANZEFF Volvo LIGHTS project and two 50 Class 8 battery electric truck deployments for fleets in the CARB-CEC Pilot Project.

CALSTART, Inc., will provide third party assessment of cleaner technologies and mobile source applications in an amount not to exceed \$100,000. CALSTART has professional experience and expertise in cleaner technologies such as alternative fuel infrastructure, zero and near-zero emission buses, medium- and heavy-duty vehicles and strategies for zero and near-zero market expansion. They have been assisting CARB in their long-term heavy-duty investment plan and other assessments for the past several years.

University of California Riverside (UCR) will provide technical assistance with heavy-duty vehicle emission testing, test methods, analyses and engine development and applications in an amount not to exceed \$75,000. UCR has professional experience and proven expertise in alternative fuels, low and zero emission technologies, emission testing, and federal policies and state regulations.

AEE Solutions LLC will provide technical assistance with heavy-duty vehicle emission testing, test methods, and real-world analysis of activity data in an amount not to exceed \$100,000. *AEE Solutions LLC* has professional experience and proven expertise in the areas of alternative fuels, low and zero emission technologies, emission controls, federal policies and state regulations.

Benefits to South Coast AQMD

The proposed awards will support the implementation of the Clean Fuels Program. In addition, outside expertise will provide an effective means of evaluating technology readiness of pre-commercial technologies and assessing emission reductions, benefits and impacts of federal policies and state regulations.

Resource Impacts

Total amount of awards will not exceed \$775,000 from the Clean Fuels Program Fund (31).

Table 3 Proposed Awards

Proposer	Clean Fuels Program Fund (31)
GPCI	\$200,000
GNA	\$300,000
CALSTART, Inc.	\$100,000
UCR	\$75,000
AEE Solutions LLC	\$100,000
Total	\$775,000

Sufficient funds are available from the Clean Fuels Program Fund, established as a special revenue fund resulting from the state-mandated Clean Fuels Program to cover the proposed \$775,000 for outside technical assistance. 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 #2

Joseph Impullitti

Execute Contracts for Technical Assistance
and Program Implementation to Support
South Coast AQMD Technology
Advancement Activities

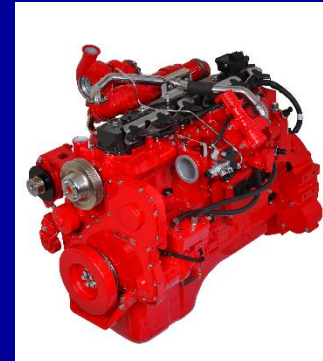
Background

- Technology Advancement Office administers and manages pre-commercial research, development, demonstration and deployment of low and zero-emission technologies
- Technology Demonstration
 - > \$12M annually from Clean Fuels Fund (31)
 - > 100 active contracts annually
 - Input from experts and assistance in carrying out specialized tasks



Demonstration: Areas of Expertise Requested

- Mobile applications – Low and zero emission technologies
- Engines and exhaust treatment technologies
- Fuels - Processing, reformulation and emission analyses
- Stationary applications - Advanced combustion and renewables
- Emissions and analyses - In-use measurements and health analyses
- Outreach - Latest technological advancements
- Financial analyst services - financial studies and cost analyses



Proposal Evaluation

- Eleven proposals received in response to RFQ# Q2021-06
- Seven proposals evaluated for Technology Demonstration
- Points awarded based on technical criteria (70 points), cost (30 points), additional points for small/local/disabled veteran/zero emission businesses (17 points)
- Areas of expertise: emission testing, alternative fuel vehicles/infrastructure, cleaner technologies, project implementation support, proposal development, outreach

Proposers by Area of Specialty

Proposer	Technology Demonstration
AEE Solutions LLC	Emissions testing, test methods
CALSTART, Inc.	Cleaner technology assessment, policy
GNA	Proposal development, outreach
GPCI	Project implementation support
Sonoma Technology, Inc	Emissions modeling, data analysis
Tetra Tech, Inc	Evaluation of alternative fuel technologies
UCR	Emission testing, test methods

Bid Evaluation Results

Proposer	Technical	Cost	Additional Points	Total
GPCI	63	30	15	108
GNA	64	25	17	106
CALSTART, Inc.	64	25	5	94
UCR	62	25	0	87
AEE Solutions LLC	56	25	0	81
Tetra Tech, Inc.	40			
Sonoma Technology, Inc.	35			

Recommended Actions

Authorize Chairman to execute the following contracts in an amount not to exceed \$775,000 from the Clean Fuels Program Fund (31):

- GPCI for technical assistance and program implementation support with alternative fuel vehicles, charging and fueling infrastructure in amount not to exceed \$200,000;
- GNA for technical assistance with alternative fuels, fueling infrastructure, proposal development and outreach in amount not to exceed \$300,000;
- CALSTART, Inc. for technical assistance with assessment of cleaner technologies and mobile source applications in amount not to exceed \$100,000;

Recommend Actions (cont.)

- UCR for technical assistance with heavy-duty vehicle emission testing, test methods, analyses and engine development and applications in amount not to exceed \$75,000; and
- AEE Solutions LLC for technical assistance with heavy-duty vehicle emission testing, test methods, and analysis of real-world activity data in amount not to exceed \$100,000.

Technology Committee Agenda #3

BOARD MEETING DATE: August 6, 2021

AGENDA NO.

PROPOSAL: Recognize Funds and Execute Memorandums of Understanding with City of Los Angeles and City of Long Beach, acting by and through Port of Los Angeles and Port of Long Beach, for New Cleanest Available Drayage Trucks Meeting the Proposition 1B Program Guidelines

SYNOPSIS: South Coast AQMD administers and implements the Proposition 1B – Goods Movement Emission Reduction Program, which is now in the final phase of funding. The Port of Los Angeles and Port of Long Beach would like to partner with the South Coast AQMD to fund drayage trucks deploying the newest, cleanest available technologies. This action is to recognize funds in an amount of up to \$1 million from each Port, totaling \$2 million, and execute MOUs with the City of Los Angeles and City of Long Beach, acting by and through their respective Board of Harbor Commissioners, POLA and POLB, to fund drayage trucks utilizing the cleanest available technologies in accordance with the criteria and funding amounts specified by the Proposition 1B Program.

COMMITTEE: Technology, June 18, 2021; Recommended for Approval

RECOMMENDED ACTIONS:

1. Recognize funds, upon receipt, up to \$1 million from each Port, totaling \$2 million, into the Proposition 1B – Goods Movement Program Fund (81), and
2. Authorize the Executive Officer to execute Memorandums of Understanding with the City of Los Angeles and the City of Long Beach, acting by and through their respective Board of Harbor Commissioners, POLA and POLB, to fund new, cleanest available drayage trucks in accordance with the criteria and funding amounts of the Proposition 1B – Goods Movement Program.

Wayne Natri
Executive Officer

Background

South Coast AQMD administers and implements the Proposition 1B – Goods Movement Emission Reduction Program, which is now in the final phase of funding. The Port of Los Angeles (POLA) and the Port of Long Beach (POLB) have each adopted a Clean Trucks Program to reduce air pollution from heavy-duty drayage trucks operated at the Ports. As a Kickstart Program, the POLA and the POLB would like to partner with the South Coast AQMD to fund the replacement of older heavy-duty diesel drayage trucks with the newest, cleanest available technologies. The two Ports each propose to provide \$1 million for the Kickstart Program. The South Coast AQMD will administer the Ports' funds using criteria set forth in the Proposition 1B - Goods Movement Emission Reduction Program Guidelines.

Proposal

This action is to recognize funds, upon receipt, up to \$1 million from each Port, totaling \$2 million, into the Proposition 1B – Goods Movement Program Fund (81). The action is also to authorize the Executive Officer to execute Memorandums of Understanding with the City of Los Angeles and the City of Long Beach, acting by and through their respective Board of Harbor Commissioners, POLA and POLB, to fund new, cleanest available drayage trucks in accordance with the criteria and funding amounts of the Proposition 1B Program. The Ports' funds are expected to fund between 10 and 20 new, near zero and zero emission drayage trucks. To qualify for the Ports' funds, the truck replacement project must meet the Prop. 1B Program requirements and include trucks with a Gross Vehicle Weight Rating (GVWR) of greater than 26,000 pounds that are listed in the Ports Drayage Truck Registry and considered eligible for the Kickstart Program. Priority will be given to drayage trucks with the highest numbers of visits to the Ports. The MOUs will require that the Ports' funds be awarded after the remaining Proposition 1B funds have been awarded.

Benefits to South Coast AQMD

The successful implementation of this program will provide direct emission reductions of criteria air pollutants, toxic air contaminants and greenhouse gases. The older, diesel drayage trucks will be replaced with zero emission or the cleanest available optional low NOx vehicles, which are at least 90 percent cleaner than current standards. All the vehicles will be operated at and around the POLA and POLB, which include disadvantaged and low-income communities. The replacement of the older, higher polluting drayage trucks with the cleanest available technologies will result in direct air quality benefits to these communities. This program will also accelerate the deployment of new commercially available near-zero and zero emission heavy-duty trucks, which is a key strategy in the 2016 AQMP to reduce NOx emissions.

Resource Impacts

This program will involve the receipt of revenues from the POLA and POLB totaling up to \$2 million, which will be recognized into the Proposition 1B – Goods Movement Program Fund (81).

Agenda Item #3

Fan Xu

Recognize Funds and Execute Memorandums of Understanding with City of Los Angeles and City of Long Beach, acting by and through Port of Los Angeles and Port of Long Beach, for New Cleanest Available Drayage Trucks Meeting Proposition 1B Program Guidelines

Background

- POLA and POLB each have adopted a Clean Trucks Program to reduce air pollution from drayage trucks
- South Coast AQMD will receive \$1 million from each port to replace older, heavy-duty diesel trucks operated at the Ports with the newest, cleanest technologies
- The Ports' funds will be administered by South Coast AQMD following Prop 1B Program Guidelines



Proposal

- Recognize funds up to \$1 million from each Port (totaling \$2 million) into the Proposition 1B – Goods Movement Program Fund (81)
- Execute MOUs with City of Los Angeles and City of Long Beach, acting by and through POLA and POLB, to receive and implement the Ports' funds:
 - Drayage trucks: >26,000 lbs GVWR (Class 7/8)
 - DTR and PDTR registered
 - \$200,000 for ZE; \$100,000 for NZE
 - 10-20 drayage trucks under MOUs
 - Prioritize trucks with the highest number of visits to the Ports
 - Ports' funds must be used only after Prop 1B funds are fully awarded



Recommended Actions

- Recognize funds up to \$1 million from each Port into the Proposition 1B – Goods Movement Program Fund (81)
- Authorize the EO to execute MOUs with City of Los Angeles and City of Long Beach, acting by and through POLA and POLB, to receive the funds for the replacement of older Port drayage trucks with the cleanest available technologies using the criteria set forth in Proposition 1B Program Guidelines