

BOARD MEETING DATE: August 7, 2020

AGENDA NO. 24

REPORT: Technology Committee

SYNOPSIS: The Technology Committee held a meeting remotely on Friday, June 19, 2020. The following is a summary of the meeting.

RECOMMENDED ACTION:
Receive and file.

Joe Buscaino, Chair
Technology Committee

MMM:av

Committee Members

Present: Council Member Joe Buscaino/Chair
Supervisor Lisa Bartlett
Board Member Gideon Kracov
Council Member Judith Mitchell
Council Member Carlos Rodriguez

Absent: None

Call to Order

Chair Buscaino called the meeting to order at 12:17 p.m.

ACTION ITEMS:

Chair Buscaino asked the Committee to take Items #2 and 3 on consent.

(Items were taken out of order)

- 2. Issue Program Announcement for Zero-Emission Class 8 Freight and Port Drayage Trucks Eligible Under Statewide Volkswagen Environmental Mitigation Trust Program and Execute Contracts for Selected Eligible Projects**

In November 2018 and March 2020, the Board recognized revenue up to \$165 million to administer and implement two of the five project funding categories for the Volkswagen (VW) Environmental Mitigation Trust Program. For the category of Zero-Emission Class 8 Freight and Port Drayage Trucks, the first installment of VW project funds totaling \$27 million is available for eligible vehicles selected through a first-come, first-served solicitation. This action is to issue a statewide Program Announcement for the VW Zero-Emission Class 8 Freight and Port Drayage Trucks category totaling \$27 million for eligible vehicles selected on a first-come, first-served basis. This action is to also authorize the Executive Officer to enter into contracts for eligible projects selected through this solicitation.

Ranji George, a member of the public, requested separation of funding opportunities for battery electric and hydrogen fuel cell technologies, as well as higher funding caps for hydrogen fuel cell.

Harvey Eder, a member of the public, expressed his concern for meeting climate goals.

3. Issue RFP for Qualified Installers of Global Positioning Devices for Marine Vessel Projects

South Coast AQMD requires all marine vessel engine repowering projects funded by the Carl Moyer Program to install a Global Positioning System (GPS) on the vessel in order to monitor operation within South Coast AQMD's jurisdictional waters. These marine vessel projects are required to operate at least 75 percent of the time in South Coast AQMD's jurisdictional waters throughout the contract life. However, South Coast AQMD's contract with the previous installer has expired. This action is to issue an RFP soliciting bids from qualified vendors for the purchase, installation, tracking and monitoring of GPS devices equipped with electronic monitoring units on marine vessels funded by the Carl Moyer Program.

Items #2 and 3 were moved by Mitchell, seconded by Rodriguez and unanimously approved.

1. Adopt Resolution Recognizing Funds for FY 2019-20 Carl Moyer State Reserve Program and Redistribute Funding Sources for Incentive Projects to Facilitate Timely Implementation

In April 2020, CARB approved allocations for the FY 2019-20 Carl Moyer "Year 22" State Reserve Program, including \$4,275,655 to the South Coast AQMD for heavy-duty truck projects eligible pursuant to the On-Road Heavy-Duty Vehicle Voucher Incentive Program (VIP). This action is to adopt a Resolution recognizing up to \$4.3 million in FY 2019-20 Carl Moyer State Reserve funds from CARB. The Board also periodically approves awards for incentive projects using a variety of funding sources. Some projects experience delays in contract

executions, equipment purchase and deliveries as well as cancellations due to a variety of issues. As a result of the COVID-19 pandemic and associated economic impacts, staff anticipates additional delays may forestall the liquidation of funds per mandated grant timelines. This action is to also allow the redistribution of funding sources, as needed, for incentive projects to facilitate timely liquidation.

Council Member Mitchell commented that she does not have a financial interest or conflict of interest, but is required to identify for the record that she is a Board Member of CARB which is involved in this item.

Ranji George suggested the allocation of funds amongst battery electric and fuel cell technologies, and a historical review of funding awarded. He further informed the committee that battery electric vehicles may immediately mitigate emission, but may negatively impact disadvantaged communities in the long term, and suggested greater focus on fuel cells.

Moved by Kracov; seconded by Bartlett; unanimously approved.

Ayes: Bartlett, Buscaino, Kracov, Mitchell, Rodriguez

Noes: None

Absent: None

4. Execute Contract to Investigate Effects of Ethanol-Gasoline Fuel Blend from Light-Duty Vehicles on Criteria Emissions and Secondary Organic Aerosol Formation

In May 2019, the U.S. EPA approved the use of gasoline blended with up to 15 percent ethanol by volume (E15) for year-round use to support renewable fuel standards and energy independence. Past studies have shown that light-duty gasoline vehicles are significant sources of NO_x, VOC and other precursor gas emissions, which together contribute to secondary organic aerosol (SOA) formation and higher PM_{2.5} in the South Coast Air Basin. CARB, along with the ethanol industry and the University of California, Riverside (UCR)/CE-CERT, has proposed a fuel study measuring criteria and toxic pollutant emissions from 20 gasoline vehicles using E15. This action is to execute a contract with UCR/CE-CERT to perform investigation of E15 gasoline fuel effects on criteria and toxic pollutant emissions and SOA formation from light-duty vehicles in amount not to exceed \$200,000 from the Clean Fuels Program Fund (31).

Council Member Mitchell commented that she does not have a financial interest or conflict of interest, but is required to identify for the record that she is a Board Member of CARB which is involved in this item.

Harvey Eder suggested that current ethanol production uses prime farmland that would otherwise be used for food production and cautioned going forward and study how to incorporate marginal land for ethanol production

Ranji George commented that the high content of ethanol/alcohol-based fuel can be used for 95 percent of the vehicles and would like to know the actual emission reductions for different blends of alcohol-based fuels.

Moved by Mitchell; seconded by Bartlett; unanimously approved.

Ayes: Bartlett, Buscaino, Kracov, Mitchell, Rodriguez
Noes: None
Absent: None

INFORMATIONAL ITEM:

5. California Fuel Cell Partnership Executive Board Meeting Agenda and Activity Update

This report provides the California Fuel Cell Partnership Executive Board Agenda for the meeting held May 19, 2020 and provides the Activity Update for the fourth quarter of 2019 and first quarter of 2020.

Council Member Rodriguez indicated the need to closely monitor the effort to reboot the organization, continue emphasis on medium- and heavy-duty trucks in order to accelerate NOx reductions, and welcomes other thoughts during this process.

Council Member Buscaino commented that this committee has and will continue to support demonstrations of this technology.

Council Member Mitchell informed the committee of her presence at numerous local events, including 10 new fuel cell buses and the largest hydrogen station in the nation, as well as the redesigned dispenser, and indicated that fuel cells are one of the most viable pathways for long haul trucking since due to fast fueling.

Supervisor Bartlett agreed with comments of other committee members and offered a correction on Orange County Transportation Authority reference.

OTHER MATTERS:

6. Other Business

There was no other business.

7. Public Comment Period

Ranji George offered support for the California Fuel Cell Partnership, but also emphasized the need to maintain public access meetings and for South Coast AQMD staff to periodically update the committee. (Staff notes that the CaFCP has held public Executive Board meetings since April 2014, and since 2002, South Coast AQMD staff provided meeting summaries to our Governing Board).

Harvey Eder commented that there are structural staff problems with several organizations. Additionally, he expressed his support for solar renewables.

8. Next Meeting Date

The next regular Technology Committee meeting is scheduled for Friday, August 21, 2020 at noon.

Adjournment

The meeting adjourned at 12:59 p.m.

Attachment

Attendance Record

ATTACHMENT

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT TECHNOLOGY COMMITTEE MEETING

Attendance Record – June 19, 2020

Supervisor Lisa Bartlett	SCAQMD Board Member
Council Member Joe Buscaino	SCAQMD Board Member
Board Member Gideon Kracov	SCAQMD Board Member
Council Member Judith Mitchell.....	SCAQMD Board Member
Council Member Carlos Rodriguez	SCAQMD Board Member
James Dinwiddie.....	Board Consultant (Bartlett)
Jacob Haik	Board Consultant (Buscaino)
Matt Holder	Board Consultant (Rodriguez)
Fred Minassian	Board Consultant (Mitchell)
Mark Abramowitz.....	Public Member
Harvey Eder.....	Public Solar Power Coalition
Ranji George.....	Public Member
Bridget McCann	Public Member
Rick Sikes.....	Consultant
Elizabeth Tom	Public Member
Maria Vides	Public Member
Becky Warren.....	Public Member
Ross Zelen.....	Public Member
Debra Ashby.....	SCAQMD Staff
Naveen Berry.....	SCAQMD Staff
Sam Cao	SCAQMD Staff
Ping Gui	SCAQMD Staff
Sheri Hanizavareh.....	SCAQMD Staff
Mark Henninger.....	SCAQMD Staff
Ruby Laity.....	SCAQMD Staff
Lisa Mirisola.....	SCAQMD Staff
Matt Miyasato.....	SCAQMD Staff
Ron Moskowitz	SCAQMD Staff
Wayne Nastri.....	SCAQMD Staff
Ashkaan Nikravan	SCAQMD Staff
Mary Reichert.....	SCAQMD Staff
Penny Shaw Cedillo.....	SCAQMD Staff
Walter Shen	SCAQMD Staff
Anthony Tang.....	SCAQMD Staff
Alejandra Vega.....	SCAQMD Staff
Jill Whynot	SCAQMD Staff
Paul Wright	SCAQMD Staff