

BOARD MEETING DATE: December 6, 2024

AGENDA NO. 22

REPORT: Technology Committee

SYNOPSIS: The Technology Committee held a hybrid meeting on Friday, November 15, 2024. The following is a summary of the meeting.

RECOMMENDED ACTION:
Receive and file.

Carlos Rodriguez, Chair
Technology Committee

AK:psc

Committee Members

Present: Supervisor Curt Hagman
Mayor Patricia Lock Dawson
Mayor Pro Tem Larry McCallon
Board Member Veronica Padilla-Campos
Supervisor Donald Wagner
Councilmember Carlos Rodriguez, Committee Chair

Call to Order

Committee Chair Carlos Rodriguez called the meeting to order at 12:00 p.m.

For additional details of the Technology Committee Meeting, please refer to the [Webcast](#).

ACTION ITEMS:

1. Execute Contracts to Develop and Demonstrate Class 2B/3 and Class 4/5 Medium-Duty Battery Electric Trucks

Sam Cao, Program Supervisor/Technology Advancement Office, presented on CARB's Advanced Clean Trucks and Advanced Clean Fleets regulations explaining the regulations require the transition of medium- and heavy-duty vehicles to zero-emission (ZE) technologies starting 2024. The development, demonstration, and deployment of faster charging and increased availability of ZE medium-duty trucks are needed. These actions are to execute contracts with: 1) Voltu Motor, Inc. to

develop, demonstrate and deploy 10 Ford F350 Class 2B and 3 battery electric trucks in an amount not to exceed \$600,000 which consists of \$300,000 from the Clean Fuels Program Fund (31) and \$300,000 from the Mobile Source Air Pollution Reduction Fund (23); 2) Enevate Corporation to develop and test a fast-charging battery pack for medium-duty Class 4 and 5 battery electric vehicles in an amount not to exceed \$500,000, which consists of \$250,000 from Fund (31) and \$250,000 from Fund (23); and 3) Evoelectric, Inc. to integrate the battery pack and demonstrate the fast-charging system developed by Enevate Corporation within a Class 4 and 5 medium-duty battery electric truck in an amount not to exceed \$500,000, which consists of \$250,000 from Fund (31) and \$250,000 from Fund (23). For additional details, please refer to the [Webcast](#) beginning at 3:20.

Mayor McCallon and Supervisor Hagman commented that they do not have a financial interest but are required to identify for the record that Mayor McCallon is the Chair and Supervisor Hagman is a member of the Mobile Source Air Pollution Reduction Committee, which is involved in this item.

Mayor McCallon thanked staff for listing MSRC as pending approval. For additional details, please refer to the [Webcast](#) beginning at 10:20.

Board Member Padilla-Campos asked about aspects of the Enevate battery. Dr. Cao responded that the current project focuses on safety and performance aspects of the fast-charging battery. For additional details, please refer to the [Webcast](#) beginning at 10:33.

Harvey Eder, Public Solar Power Coalition, expressed that there should be more focus on solar/thermal technologies. For additional details, please refer to the [Webcast](#) beginning at 11:41.

Mayor McCallon asked if these companies have a track record of projects. Aaron Katzenstein, Deputy Executive Officer/Technology Advancement Office responded that these are new local companies with whom the South Coast AQMD is working with. For additional details, please refer to the [Webcast](#) beginning at 14:53.

Committee Chair Rodriguez asked about timing for an update and costs. Dr. Cao responded that based on the deployment schedule, the report is expected to be completed by the end of fourth quarter of 2025. Dr. Katzenstein replied that it's too early to estimate the costs, but the retrofit should bring the price down. For additional details, please refer to the [Webcast](#) beginning at 15:30.

Moved by Hagman; seconded by McCallon; unanimously approved.

Ayes: Hagman, McCallon, Padilla-Campos, Rodriguez, Wagner
Noes: None
Abstain: None
Absent: Lock Dawson

2. Execute Contracts to Implement Zero-Emission Infrastructure Projects Under Carl Moyer and Community Air Protection Programs

Tom Lee, Planning & Rules Manager/Technology Advancement Office presented on the release of the Carl Moyer Program Announcement #PA2024-24 which was to solicit zero-emission infrastructure project applications. The solicitation was oversubscribed and received close to \$400 million dollars in applications. These actions are: 1) Execute contracts for zero-emission infrastructure projects under the Carl Moyer and Community Air Protection Programs for a total of \$109,125,778, and back up projects if funds become available; and 2) Authorize the Executive Officer to redistribute the source of funds for the various incentive program grants to ensure program liquidation targets are met. For additional details, please refer to the [Webcast](#) beginning at 17:49.

Supervisor Wagner commented that he does not have a financial interest but is required to identify for the record that he is the Supervisor for the County of Orange, which is involved in this item.

Supervisor Wagner requested clarification on the reason County of Orange's infrastructure projects are on the backup list. Dr. Katzenstein explained that the program focuses on supporting heavy-duty infrastructure such as Class 8 trucks and explained the difference between Class 8 and Class 7 trucks that are located in overburdened communities. The County of Orange projects are light-/medium-duty and are not within an AB 617 community, hence limiting the type of funding that can be applied. For additional details, please refer to the [Webcast](#) beginning at 23:04.

Committee Chair Rodriguez inquired about the timeline of the projects on the award list. Dr. Katzenstein responded that the projects will be commissioned in 2025 to 2028, and CARB grants now have a longer timeframe to provide more flexibility. Dr. Katzenstein also commented that projects that have utility power or a fuel supply plan were scored higher during the project evaluation, and that some shovel-ready projects were fast-tracked and have been contracted. For additional details, please refer to the [Webcast](#) beginning at 30:48.

Moved by; McCallon seconded by Hagman; unanimously approved.

Ayes: Hagman, McCallon, Padilla-Campos, Rodriguez, Wagner

Noes: None

Abstain: None

Absent: Lock Dawson

3. Execute Sponsorship Agreement to Support Workforce Training and Professional Development of Electric Vehicle and Battery Engineers

Vasileios Papapostolou, Planning and Rules Manager/Technology Advancement Office presented on the Sponsorship Agreement with California State University, Los Angeles to Support Workforce Training, explaining that this engineering competition will challenge universities and their partners to design, build, test and integrate advanced EV battery packs into a Stellantis vehicle and will help prepare and train the next generation of engineers and technicians to handle the increased demand for EVs. This action is to execute a sponsorship agreement with the California State University, Los Angeles, in an amount not to exceed \$150,000 from the Clean Fuels Program Fund (31). For additional details, please refer to the [Webcast](#) beginning at 37:15.

Supervisor Hagman expressed support for the proposal and expressed some concern with funding overlapping for Workforce Training and Development under State and Federal funding opportunities. Dr. Katzenstein responded with examples of previously sponsored events, such as Solar Decathlon and EcoCAR Challenge. Dr. Katzenstein also clarified that workforce development is within the Technology Advancement Office's plan, which supports the workforce that could contribute to EV vehicle development and provided an example of the Volvo LIGHTS Program which worked with Rio Hondo College and San Bernardino Valley College and mentioned the workforce training component under the Climate Pollution Reduction Grant South Coast AQMD will be implementing to support EV infrastructure. Supervisor Hagman suggested streamlining funds to provide support to existing entities that focus on supporting workforce training activities. For additional details, please refer to the [Webcast](#) beginning at 42:00.

Board Member Padilla-Campos expressed her support of the proposal and commented that there is a need for technicians for electric bikes and requested a progress report. For additional details, please refer to the [Webcast](#) beginning at 46:02.

Committee Chair Rodriguez asked about the duration of the competition and when results would be available. Dr. Papapostolou responded that the competition is over three academic years and is expected to end in the summer of 2026. He explained that the team reports quarterly. Committee Chair Rodriguez asked about project

milestones and other aspects of the program. For additional details, please refer to the [Webcast](#) beginning at 46:50.

Moved by; Hagman seconded by McCallon; unanimously approved.

Ayes: Hagman, McCallon, Padilla-Campos, Rodriguez, Wagner

Noes: None

Abstain: None

Absent: Lock Dawson

OTHER MATTERS:

4. Other Business

There was no other business to report.

5. Public Comment Period

There was no public comment to report.

6. Next Meeting Date

The next regular Technology Committee meeting is scheduled for Friday, December 20, 2024, at 9:00 a.m.

Adjournment

The meeting adjourned at 12:50 p.m.

Attachment

Attendance Record

ATTACHMENT

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
TECHNOLOGY COMMITTEE MEETING
Attendance Record – November 15, 2024**

Supervisor Curt Hagman South Coast AQMD Board Member
Mayor Pro Tem Larry McCallonSouth Coast AQMD Board Member
Board Member Veronica Padilla-CamposSouth Coast AQMD Board Member
Councilmember Carlos Rodriguez South Coast AQMD Board Member
Supervisor Donald Wagner South Coast AQMD Board Member

Fred Minassian Board Consultant (Padilla-Campos)
Michael Miller Board Consultant (Hagman)
Andy Silva Board Consultant (Lock Dawson)
Mark Taylor Board Consultant (Rodriguez)

Harvey Eder Public Solar Power Coalition
Gillian Kass Public Member
Lisa Mirisola Public Member
Matt Miyasato First Element
Ivet Taneva Penske
Todd Tatar Public Member
Paul Vu Public Member

Debra Ashby South Coast AQMD Staff
Isabel Builes South Coast AQMD Staff
Cindy Bustillos South Coast AQMD Staff
Sam Cao South Coast AQMD Staff
Matthew Ceja South Coast AQMD Staff
Penny Shaw Cedillo South Coast AQMD Staff
Berj Der Boghossian South Coast AQMD Staff
Marjorie Eaton South Coast AQMD Staff
Christian Fielding South Coast AQMD Staff
Bayron Gilchrist South Coast AQMD Staff
Scott Gallegos South Coast AQMD Staff
Sheri Hanizavareh South Coast AQMD Staff
Justin Joe South Coast AQMD Staff
Aaron Katzenstein South Coast AQMD Staff
Angela Kim South Coast AQMD Staff
Howard Lee South Coast AQMD Staff
Tom Lee South Coast AQMD Staff
Hay Lo South Coast AQMD Staff
Krystle Martinez South Coast AQMD Staff

Ron Moskowitz South Coast AQMD Staff
Ghislain Muberwa South Coast AQMD Staff
Susan Nakamura South Coast AQMD Staff
Wayne Nastri South Coast AQMD Staff
Lisa Tanaka O'Malley South Coast AQMD Staff
Vasileios Papapostolou South Coast AQMD Staff
Anish Pathak South Coast AQMD Staff
Robert Paud South Coast AQMD Staff
Kristin Remy South Coast AQMD Staff
Walter Shen South Coast AQMD Staff
Nicole Silva South Coast AQMD Staff
Mei Wang South Coast AQMD Staff
Michelle White South Coast AQMD Staff
Fan Xu South Coast AQMD Staff