

BOARD MEETING DATE: March 7, 2025

AGENDA NO. 16

REPORT: Technology Committee

SYNOPSIS: The Technology Committee held a hybrid meeting on Friday, February 21, 2025. The following is a summary of the meeting.

RECOMMENDED ACTION:
Receive and file.

Carlos Rodriguez, Chair
Technology Committee

AK:kr

Committee Members

Present: Mayor Pro Tem Larry McCallon
Board Member Veronica Padilla-Campos
Mayor Pro Tem Carlos Rodriguez, Committee Chair

Absent: Supervisor Curt Hagman
Mayor Patricia Lock Dawson

Call to Order

Committee Chair Carlos Rodriguez called the meeting to order at 12:17 p.m

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

ACTION ITEMS:

1. Adopt Resolution Recognizing Funds for FY 2024-25 Carl Moyer Program, Issue Program Announcements, and Execute and Modify Agreements for Carl Moyer, and Surplus Off-Road Opt-in for NOx Programs

Krystle Martinez, Program Supervisor, Technology Advancement Office, presented this item. These actions are to: 1) adopt a Resolution recognizing up to \$47,159,728 in Carl Moyer Program grant funds from CARB into the Carl Moyer Program SB 1107 Fund (32) and authorize the Executive Officer to accept the terms and conditions for FY 2024-25 award; 2) issue two Program Announcements for “Year

27” of the Carl Moyer Program and the SOON Provision to solicit applications; 3) authorize the Executive Officer to execute or amend agreements for eligible zero and low-emitting on- and off-road vehicles and equipment, including marine vessels, locomotives, and supporting infrastructure projects; and, 4) modify three no-cost agreements to extend their milestone dates for the zero-emission infrastructure projects from a prior year Carl Moyer solicitation. For additional details, please refer to the [Webcast](#) beginning at 1:58.

Board Member Padilla-Campos inquired about the number of applications received under the Carl Moyer Program and asked if the three fast-tracked zero-emission projects are requesting a no cost extension. Ms. Martinez responded that during previous solicitations, the Carl Moyer program was oversubscribed, and the zero-emission projects are no cost extensions. For additional details, please refer to the [Webcast](#) beginning at 6:38

Harvey Eder, Public Solar Power Coalition, commented on the importance of equity on incentive programs and working with different coalitions. For additional details, please refer to the [Webcast](#) beginning at 7:55.

Moved by McCallon; seconded by Padilla-Campos; unanimously approved.

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

2. Approve and Adopt Technology Advancement Office Clean Fuels Program 2024 Annual Report and 2025 Plan Update, Resolution and Membership Changes for Clean Fuels Advisory Group

Vasileios Papapostolou, Planning and Rules Manager, Technology Advancement Office, presented on the Clean Fuels Program 2024 Annual Report and 2025 Plan Update. Each year by March 31, South Coast AQMD must submit to the California Legislative Analyst an approved Annual Report for the past year and a Plan Update for the current calendar year for the Clean Fuels Program. These actions are to: 1) approve and adopt the Technology Advancement Clean Fuels Program Annual Report for 2024 and 2025 Plan Update; 2) adopt the Resolution finding that proposed projects do not duplicate any past or present programs; 3) approve and adopt membership changes to the SB 98 Clean Fuels Advisory Group; and 4) receive and file membership changes to the Technology Advancement Advisory Group. For additional details, please refer to the [Webcast](#) beginning at 10:20.

Mayor Pro Tem McCallon requested clarification regarding 2024 Clean Fuels contracts, specifically the reasoning regarding the total Clean Fuels funding

percentage for health impact studies and how that percentage correlates to the total cost of contracts executed in 2024. Dr. Papapostolou stated most of the funding from the health impact studies category was allocated to MATES VI, an emissions study for brake and tire wear. In response to questions from Mayor Pro Tem McCallon and Board Member Padilla-Campos, Aaron Katzenstein, Deputy Executive Officer, Technology Advancement Office, stated that tire rubber encompasses all sizes of particulate matter and the tire wear will represent an aggregate of all brake and tire wear emissions, including aircraft. For additional details, please refer to the [Webcast](#) beginning at 17:15.

Ranji George, public member, requested clarification regarding types of projects that the Clean Fuels Program supports and commented that the Zero-Emission Infrastructure category should be broken down into battery infrastructure and hydrogen infrastructure. For additional details, please refer to the [Webcast](#) beginning at 29:01.

Mr. Eder commented that solar thermal projects, including thermal storage, should also be supported through this program. For additional details, please refer to the [Webcast](#) beginning at 32:20.

Committee Chair Rodriguez asked if future projects anticipated for 2025 Clean Fuels Program could include a new hydrogen fueling station or if that project could be funded through another program. Dr. Katzenstein stated that the Clean Fuels Program would focus on new types of hydrogen fueling stations, but the Carl Moyer Program is better suited to support existing hydrogen stations. For additional details, please refer to the [Webcast](#) beginning at 34:35.

Committee Chair Rodriguez requested that the media be invited to attend South Coast AQMD's Technology Showcase to be held on March 7, 2025. Executive Officer Wayne Nastri confirmed the media was invited. Committee Chair Rodriguez requested that a social media video of the showcase be filmed in case someone could not attend. Mr. Nastri stated he would look into that request and will follow up. Board Member Padilla Campos agreed with the Chair's request and commented that it would be nice if staff could host a technology showcase at other locations, such as the Northeast Valley. For additional details, please refer to the [Webcast](#) beginning at 37:27.

Moved by Rodriguez; seconded by McCallon; unanimously approved.

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

INFORMATIONAL ITEM:

3. Practical Electrification of Heavy-Duty Fleets with Range Energy's eTrailer System

Jason Chua, Chief Product Officer, Range Energy, presented an overview of the development and implementation of Range Energy's electric trailer system that reduces diesel fuel consumption for a multitude of trailer operating conditions. For additional details, please refer to the [Webcast](#) beginning at 40:00.

Mayor Pro Tem McCallon asked if the Range Energy trailer is eligible for the Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program. Ian MacMillan, Assistant Deputy Executive Officer, Planning, Rule Development and Implementation, responded that staff is having discussions about alternative pathways for their technology. For additional details, please refer to the [Webcast](#) beginning at 50:01.

Committee Chair Rodriguez asked for the timing of completing such a pathway, challenges, and unit costs. Mr. Chua responded that pilot delivery will start at the end of 2025 and that Range Energy is minimizing fleet changes to address fleet challenges. Regarding costs, Mr. Chua explained that the current payback is 6-7 years, but Range is aiming at a 5-year payback. Other programs like WAIRE will further reduce the payback period.. For additional details, please refer to the [Webcast](#) beginning at 51:00.

Committee Chair Rodriguez asked how many Range Energy units have been deployed to date. Mr. Chua said there are two pilot units including the unit that is under South Coast AQMD's funded project and one will be at the March 7th Technology showcase event. The second transport refrigeration unit is currently being demonstrated with various customers. For additional details, please refer to the [Webcast](#) beginning at 55:50.

Mayor Pro Tem McCallon asked if there are other product offerings and inquired about Range Energy's Headquarters office location. Mr. Chua responded the Range trailer is their only product and that Range Energy's Headquarters is located in Mountain View, California. For additional details, please refer to the [Webcast](#) beginning at 1:00:25.

Committee Chair Rodriguez commented that the Committee would like an update of this program in the future. For additional details, please refer to the [Webcast](#) beginning at 1:01:05.

OTHER MATTERS:

4. Other Business

There was no other business to report.

5. Public Comment Period

Mr. George inquired about the \$500M CPRG award, stating that he is hopeful that 50 percent of the award goes to hydrogen projects. For additional details, please refer to the [Webcast](#) beginning at 1:02:35.

6. Next Meeting Date

The next regular Technology Committee meeting is scheduled for Friday, March 21, 2025, at noon.

Adjournment

The meeting adjourned at 1:25 p.m.

Attachment

Attendance Record

ATTACHMENT

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
TECHNOLOGY COMMITTEE MEETING
Attendance Record – February 21, 2025**

Mayor Pro Tem Larry McCallon	South Coast AQMD Board Member
Board Member Veronica Padilla-Campos	South Coast AQMD Board Member
Mayor Pro Tem Carlos Rodriguez	South Coast AQMD Board Member
Debra Mendelsohn	Board Consultant/Assistant (McCallon)
Fred Minassian	Board Consultant/Assistant (Padilla-Campos)
Andy Silva	Board Consultant/Assistant (Lock Dawson)
Naveen Berry	Public Member
Jason Chua	Public Member
Harvey Eder	Public Solar Power Coalition
Ranji George	Public Member
Alex Han	Public Member
Joonsik Maing	Public Member
Keith Ranade	Public Member
Mark Vargas	Public Member
Maria Allen	South Coast AQMD Staff
Debra Ashby	South Coast AQMD Staff
Cindy Bustillos	South Coast AQMD Staff
Sam Cao	South Coast AQMD Staff
Penny Shaw Cedillo	South Coast AQMD Staff
Berj Der Boghossian	South Coast AQMD Staff
Scott Gallegos	South Coast AQMD Staff
Britney Gallivan	South Coast AQMD Staff
Sheri Hanizavareh	South Coast AQMD Staff
Anissa Heard-Johnson	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
Ian MacMillan	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
Vasileios Papapostolou	South Coast AQMD Staff

Robert Paud South Coast AQMD Staff
Cynthia Ravenstein South Coast AQMD Staff
Sarah Rees South Coast AQMD Staff
Kristin Remy South Coast AQMD Staff
Yuh Jiun Tan South Coast AQMD Staff
Lisa Tanaka South Coast AQMD Staff
Alexis Thrower South Coast AQMD Staff
Mei Wang South Coast AQMD Staff