

BOARD MEETING DATE: September 6, 2024

AGENDA NO. 18

REPORT: Technology Committee

SYNOPSIS: The Technology Committee held a hybrid meeting on Friday, October 18, 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
Councilmember Carlos Rodriguez, Committee Chair

Call to Order

Committee Chair Carlos Rodriguez called the meeting to order at 12:15 p.m.

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

ACTION ITEMS:

- 1. Execute Contracts to Develop Data-Based Planning Tool for Medium- and Heavy-Duty Truck Charging Networks, Fleets, and Power Grid Systems and to Investigate Benefits of Electric Vehicle-to-Home Technology on Air Quality**
Fan Xu, Program Supervisor/Technology Advancement Office, presented on the University of California, Riverside's Energy, Economics and Environment Research Center (UCR/E3) proposal and the University of California, Irvine Advanced Power and Energy Program (UCI APEP) proposal. These actions are to: 1) execute a contract with UCR/E3 to develop a data-based planning tool for the deployment of

MD/HD trucks and charging infrastructure in Southern California in an amount not to exceed \$300,000 from the Clean Fuels Program Fund (31); and 2) execute a contract with UCI APEP to investigate the emission reduction benefits of V2H technology in an amount not to exceed \$220,548 from the Clean Fuels Program Fund (31). For additional details, please refer to the [Webcast](#) beginning at 2:33.

Supervisor Hagman commented that a conference in Dubai presented technologies that can reduce vehicle emissions through coordinating traffic signals and asked if the UCI study could be expanded to include relevant technologies. Aaron Katzenstein, Deputy Executive Officer/Technology Advancement Office, commented that staff will look into these technologies. For additional details, please refer to the [Webcast](#) beginning at 8:04.

Mayor Lock Dawson commented that staff can reach out to the Riverside County Transportation Commission in Riverside County for additional information as they are doing a pilot study there and asked for clarification about the timeline of the UCR tool and coverage area of the tool. Dr. Xu explained that the infrastructure planning module will be available next year, and other modules will be completed within two years. Dr. Xu explained that the tool will focus on Southern California first and with plans to expand nationally. Dr. Katzenstein added that the tool is anticipated to help with site selection for the Climate Pollution Reduction Grant project solicitation next year. For additional details, please refer to the [Webcast](#) beginning at 10:30.

Committee Chair Rodriguez asked for clarification on the utility of the data, coordination for the UCR project, availability of the tool, and participants for the UCI project. Dr. Xu explained that the UCR team has been working closely with the utility companies and the tool will be free online for the public during the 2-year project period and will be commercialized later. Dr. Katzenstein responded that there is a development by KB Homes in Menifee, California that has a microgrid setup developed by UCI, where most homes run off electric appliances and have battery storage with solar. For additional details, please refer to the [Webcast](#) beginning at 12:55.

Moved by Hagman; seconded by McCallon; unanimously approved.

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

2. Expand the Purpose of LADWP Settlement Projects Fund, Recognize Funds, Execute Contracts for Electrification Projects at Los Angeles Zoo, and Reimburse General Fund for Project Administrative Costs

Nicole Silva, Program Supervisor/Technology Advancement Office presented on the Settlement Agreement between the City of Los Angeles, Los Angeles Department of Water and Power (LADWP), and South Coast AQMD. As a result of the settlement, LADWP paid \$450,000 plus a 6.25 percent administrative fee of \$28,125, for a total of \$478,125, to South Coast AQMD to be used for supplemental environmental project(s) that reduce emissions. These actions are to: 1) Expand the purpose of the LADWP Settlement Projects Fund (38); 2) Recognize \$478,125 into the LADWP Settlement Projects Fund (38); 3) Execute agreements not to exceed a combined total of \$450,000 from LADWP Settlement Projects Fund (38) with SSA Group, LLC (SSA) to purchase four electric passenger trams with a five-year maintenance contract, and with American Green Zone Alliance (AGZA) to purchase electric lawn and garden equipment and two electric utility maintenance vehicles; and 4) Reimburse the General Fund up to \$28,125 for project administrative costs. For additional details, please refer to the [Webcast](#) beginning at 17:32.

Mayor Pro Tem Larry McCallon asked if South Coast AQMD’s logo could be added to the equipment. Dr. Katzenstein responded that staff will include that request in the contract. For additional details, please refer to the [Webcast](#) beginning at 19:46.

Board Member Veronica Padilla-Campos asked when the equipment would be deployed. Ms. Silva replied that the trams were expected to be delivered later this year. Chair Rodriguez echoed including South Coast AQMD logo’s and looks forward to updates to highlight this project in the future. For additional details, please refer to the [Webcast](#) beginning at 20:19.

Moved by Hagman; seconded by McCallon; unanimously approved.

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

INFORMATIONAL ITEM:

3. Clean Fuels Program Draft 2025 Plan Update

Vasileios Papapostolou, Planning and Rules Manager/Technology Advancement Office presented on the Clean Fuels Program Draft Plan Update, explaining that staff proposes continued support for a wide portfolio of technologies emphasizing zero-emission technologies for vehicles, off-road equipment, and supporting infrastructure. For additional details, please refer to the [Webcast](#) beginning at 21:51.

Supervisor Hagman asked whether there are any quantitative analysis work conducted around future needs in energy/electricity and hydrogen production at the state level. Executive Officer Wayne Nastri responded that CEC is working on a quantitative analysis on the electrical grid demand while on the hydrogen side, the Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES) is working on a similar type of analysis and projections. Supervisor Hagman commented on workforce training and development efforts and cautioned about possible duplication of efforts. For additional details, please refer to the [Webcast](#) beginning at 31:18.

Mayor Pro Tem McCallon expressed that he and other Board Members would like to be involved and learn more about what ARCHES will be presenting to staff with their future plans under the California H2 Hub initiative. For additional details, please refer to the [Webcast](#) beginning at 33:09.

Committee Chair Rodriguez asked about adjustments made for “Zero Emission Infrastructure” and the “Health Impacts Studies” between the proposed 2024 and draft 2025 Plan Updates. Dr. Papapostolou responded that the decrease in the Zero Emission Infrastructure was attributed to a couple of grant applications that were not awarded during 2024 and the Health Impacts Studies increase is due to an allocation of \$5 million to the MATES VI program implementation. Committee Chair Rodriguez asked about the reduction in the “Hydrogen/Fuel Cell Technologies” funding support by Clean Fuels between 2024 and 2025 and whether relative to ARCHES, the draft proposed funding for that category would increase. Dr. Katzenstein responded that the proposed Clean Fuels funding for this category is based on projects that staff is aware of and if more CEC grants are awarded, that percentage is expected to increase. Committee Chair Rodriguez expressed that the linear generator technology should be supported. Dr. Katzenstein responded that staff is looking further into that technology and may be presenting a project with UCR to investigate emissions from that technology. For additional details, please refer to the [Webcast](#) beginning at 33:51.

Ranji George, public member, expressed that more funding should be allocated to the “Hydrogen/Fuel Cell Technologies” category, extended downtime for hydrogen refueling stations, and concern about not seeing a “Battery recycling” item/category as part of the draft 2025 Plan Update. For additional details, please refer to the [Webcast](#) beginning at 38:21.

Harvey Eder, Public Solar Power Coalition, expressed that there should be more focus on solar/thermal technologies. For additional details, please refer to the

OTHER MATTERS:

4. Other Business

Supervise Hagman commented that he had a meeting with Southern California Leadership Council which included Governors Pete Wilson, Arnold Schwarzenegger and Gray Davis, where they discussed the effects on the economy with Chevron relocating to Texas and that Chevron contributed \$7B to the state. Committee Chair Rodriguez expressed concerns regarding Chevron's relocation and how it will affect South Coast AQMD efforts moving forward. For additional details, please refer to the [Webcast](#) beginning at 44:57.

5. Public Comment Period

Mr. George made a comparison of battery technology to hydrogen, explaining the benefits of hydrogen over the cost of battery technology. For additional details, please refer to the [Webcast](#) beginning at 46:45.

Mr. Eder expressed concerns regarding the effects of PM2.5. For additional details, please refer to the [Webcast](#) beginning at 49:55.

6. Next Meeting Date

The next regular Technology Committee meeting is scheduled for Friday, November 15, 2024, at noon.

Adjournment

The meeting adjourned at 1:10 p.m.

Attachment

Attendance Record

ATTACHMENT

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
TECHNOLOGY COMMITTEE MEETING
Attendance Record – October 18, 2024**

Supervisor Curt Hagman South Coast AQMD Board Member
Mayor Patricia Lock Dawson South Coast AQMD Board Member
Mayor Pro Tem Larry McCallon South Coast AQMD Board Member
Board Member Veronica Padilla-Campos South Coast AQMD Board Member
Councilmember Carlos Rodriguez 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 Member
Ranji George Public Member
Moses Huerta Public Member
Gillian Kass Public Member

Cindy Bustillos South Coast AQMD Staff
Penny Shaw Cedillo South Coast AQMD Staff
Berj Der Boghossian South Coast AQMD Staff
Scott Gallegos South Coast AQMD Staff
Daphne Hsu South Coast AQMD Staff
Aaron Katzenstein South Coast AQMD Staff
Angela Kim South Coast AQMD Staff
Ruby Laity South Coast AQMD Staff
Howard Lee South Coast AQMD Staff
Hay Lo South Coast AQMD Staff
Ian MacMillian 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
Robert Paud South Coast AQMD Staff
Kristin Remy South Coast AQMD Staff
Nicole Silva South Coast AQMD Staff
Edwin Talledo South Coast AQMD Staff
Mei Wang South Coast AQMD Staff
Michelle White South Coast AQMD Staff
Fan Xu South Coast AQMD Staff