

BOARD MEETING DATE: October 6, 2017

AGENDA NO. 29

REPORT: Technology Committee

SYNOPSIS: The Technology Committee held a meeting on Friday, September 15, 2017. The following is a summary of the meeting.

RECOMMENDED ACTION:  
Receive and file.

Joe Buscaino, Chair  
Technology Committee

MMM:pmk

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**Committee Members**

Present: Council Member Joe Buscaino/Chair (videoconference),  
Supervisor Sheila Kuehl/Vice Chair, Mayor Pro Tem Larry McCallon,  
and Council Member Dwight Robinson

Absent: Council Member Judith Mitchell and Supervisor Janice Rutherford

**Call to Order**

Chair Buscaino called the meeting to order at 12:05 p.m.

**ACTION ITEMS:**

There being no objection, the Committee took Agenda Items #1, 2, 3, 5, and 7 on consent. On the motion of Kuehl, seconded by McCallon, the Committee unanimously approved Agenda Items #1, 2, 3, 5, and 7.

Ayes: Buscaino, Kuehl, McCallon, and Robinson  
Noes: None  
Absent: Mitchell and Rutherford

**1. Execute Contracts to Implement Advanced Building Energy Management Projects**

In November 2016, the CEC released two competitive solicitations to fund efficiency projects using pre-commercial technologies and advanced renewable energy coupled with battery storage. During CEC's open solicitation process, staff was approached by two firms, Willdan Energy Solutions and Advanced Microgrid Solutions, to utilize the SCAQMD building as a site for their proposed energy projects. CEC subsequently awarded Willdan Energy Solutions \$3,994,265 for pre-commercial efficiency projects; and Advanced Microgrid Solutions \$2,731,862 for advanced renewable energy with a battery storage project. This action is to execute contracts with Willdan Energy Solutions in an amount not to exceed \$2,293,645 from the Infrastructure Improvement Fund (02) and Advanced Microgrid Solutions for a 20-year power efficiency agreement.

On the motion of Robinson, seconded by McCallon, the Committee agreed to reconsider Item #1.

Ayes: Buscaino, Kuehl, McCallon, and Robinson  
Noes: None  
Absent: Mitchell and Rutherford

*Staff explained that additional language needs to be included in the recommended action for Advanced Microgrid Solutions. This action is to execute a contract with Advanced Microgrid Solutions for a 20-year power efficiency agreement at a cost not to exceed 75 per cent of the shared savings from the annual reduction in utilities expense from District General Fund (01) and up to \$600,000 from the California Public Utility Commission's Self-Generation Incentive Program, if awarded to SCAQMD.*

*Mayor Pro Tem McCallon inquired why the utility cost savings from the Advanced MicroGrid project would not all go back to the SCAQMD. Staff responded that the project costs were higher than the CEC and SGIP award.*

Moved by Kuehl; seconded by McCallon.

Ayes: Buscaino, Kuehl, McCallon, and Robinson  
Noes: None  
Absent: Mitchell and Rutherford

**2. Recognize and Transfer Funds, Execute and Amend Agreements for Installation and Maintenance of Air Filtration Systems, and Reimburse General Fund for Administrative Costs**

U.S. EPA Region 9 and Wal-Mart Transportation, LLC, as well as CARB and Murillo's Trucking are executing Supplemental Environmental Project (SEP) agreements to install and maintain air filtration systems in the South Coast region with SCAQMD to act as the SEP implementer. There are also unspent TraPac project funds that can be utilized towards replacement filters for schools. These actions are to recognize up to \$300,000 from Wal-Mart and \$27,000 from Murillo's Trucking into the Air Filtration Fund (75), transfer the same amount as a temporary loan from the Clean Fuels Fund (31) to the Air Filtration Fund (75), and execute agreements with Wal-Mart and Murillo Trucking. These actions are to also execute contracts with IQAir North America for installation of air filtration systems in amounts not to exceed \$285,000 and \$25,650 respectively, and reimburse the General Fund for administrative costs up to \$16,350 from the Air Filtration Fund (75), as well as to amend a contract with IQAir North America to add \$468,838 from the TraPac Air Filtration Fund (52).

**3. Amend Award to Develop and Demonstrate Electric School Buses with Vehicle-to-Grid Capability**

In March 2017, the Board approved an award to Blue Bird Body Company, Inc., (Blue Bird) to develop, manufacture and demonstrate electric school buses. Blue Bird had proposed to use a specific technology partner (TransPower) as their component supplier and integrator, but subsequent to Board approval, Blue Bird decided to use a different technology partner for the project. Blue Bird's component supplier and integrators will now be Efficient Drivetrain, Inc., and Adomani, Inc. DOE has approved this change. This action is to amend the award with Blue Bird noting the change in technology partners, for the development, manufacture and demonstration of electric school buses with vehicle-to-grid capability.

**4. Execute Contract to Assess Air Quality and Greenhouse Gas Impacts of Microgrid-Based Electricity System**

California has set a goal of installing 12,000 megawatts of distributed generation in the state by 2020 to reduce criteria pollutant and greenhouse gas emissions from the electricity and transportation sectors. Microgrids allow local management of energy resources and loads, which will more easily allow electrification of transportation. The University of California Irvine (UCI) through its Advanced Power and Energy Program proposes to perform three projects to evaluate air quality and greenhouse gas impacts. These projects will focus on potential fuel cell technology applications for industrial operations and petroleum refineries, assess impacts of renewable hydrogen blending in existing natural gas infrastructure and equipment, and compare economic performance of a fuel cell and battery-electric bus operating in a

microgrid. This action is to execute a contract with UCI in an amount not to exceed \$660,000 from the Clean Fuels Fund (31).

Moved by Robinson; seconded by McCallon; unanimously approved.

**5. Issue Program Announcement for School Bus Replacements**

Since 2001, the SCAQMD has replaced over 1,600 pre-1994 publicly owned school buses and retrofitted nearly 3,400 school buses. The Carl Moyer AB 923 funds can be utilized for replacement and retrofit of school buses. This action is to issue a Program Announcement to replace pre-1994 school buses owned by public school districts with new alternative fuel buses.

**6. Recognize Revenue, Execute Contracts for Electric Yard Tractor Replacements, Transfer Funds, Reimburse General Fund for Administrative Costs, and Issue Program Announcement for Commercial Lawn and Garden Equipment Exchange Program**

In March 2017, SCAQMD was awarded \$4,954,500 from U.S. EPA's 2016 Targeted Air Shed Program for electric yard tractor replacements and a Commercial Electric Lawn and Garden Equipment Exchange Program. This action is to recognize revenue up to \$4,954,500 from U.S. EPA for these two projects and issue a Program Announcement to solicit proposals from manufacturers or suppliers for replacement of older commercial lawn and garden equipment with zero emission, battery-electric commercial grade equipment. This action is also to recognize up to \$312,500 and \$187,500 from the Port of Los Angeles and Port of Long Beach, respectively, into the Advanced Technology, Outreach and Education Fund (17), transfer \$500,000 as a temporary loan and \$442,750 for SCAQMD's cost share from the Clean Fuels Program Fund (31) into the Advanced Technology, Outreach and Education Fund (17), and execute contracts for electric yard tractor replacements in an amount not to exceed \$3,360,000 from the Advanced Technology, Outreach and Education Fund (17). Finally, this action will also reimburse the General Fund for administrative costs up to \$60,000 for the electric yard tractor replacements project.

*Council Member Buscaino asked how the SCAQMD will conduct outreach in Environmental Justice (EJ) areas. Staff responded that the outreach plan has not yet been developed, but at this time we require each award recipient to have at least one distribution center in each of the four counties within the SCAQMD jurisdiction and preferably in an EJ area. Staff will report back to the Committee as plans to promote these programs become more final.*

Moved by McCallon; seconded by Robinson; unanimously approved.

**7. Issue, and If Necessary Re-Issue, Program Announcement for the Replacement of Heavy-Duty Diesel Trucks and Authorize Execution of Contracts Under Proposition 1B-Goods Movement**

Under the fifth year and final funding cycle of the Proposition 1B-Goods Movement Program, the SCAQMD has twice issued program announcements for the replacement of heavy-duty diesel trucks and transport refrigeration units with zero and near-zero emission technologies. Although the Program was initially oversubscribed, due to the commercial unavailability of some technologies, various award recipients have decided or may decide not to move forward with their project based on their evolving business needs. As a result, there are available funds that need to be committed. CARB has agreed that air districts solicit projects for heavy-duty trucks for the undersubscribed amount and execute contracts until funds are exhausted. This action is to issue, and if necessary re-issue, a Program Announcement for the replacement of heavy-duty diesel trucks and authorize the Executive Officer to execute contracts for eligible projects approved by CARB, until any returned and remaining funds under the “Year 5” grant of the Proposition 1B-Goods Movement Program Fund (81) are exhausted.

**OTHER MATTERS:**

**8. Other Business**

There was no other business.

**9. Public Comments**

There were no public comments.

**10. Next Meeting Date**

The next regular Technology Committee meeting is scheduled for Friday, October 20, 2017 at noon.

**11. Adjournment**

The meeting adjourned at 12:29 p.m.

**Attachment**

Attendance Record

## **ATTACHMENT**

### **SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT TECHNOLOGY COMMITTEE MEETING**

**Attendance – September 15, 2017**

Council Member Joe Buscaino (via videoconference) .....	SCAQMD Board Member
Supervisor Sheila Kuehl .....	SCAQMD Board Member
Mayor ProTem Larry McCallon .....	SCAQMD Board Member
Council Member Dwight Robinson .....	SCAQMD Board Member
Mark Abramowitz .....	Board Consultant (Lyou)
David Czamanske .....	Board Consultant (Cacciotti)
Jacob Haik .....	Board Consultant (Buscaino)
Ron Ketcham .....	Board Consultant (McCallon)
Diane Moss .....	Board Consultant (Kuehl)
Andrew Silva .....	Board Consultant (Rutherford)
Susan Stark .....	Andeavor
Al Baez .....	SCAQMD Staff
Naveen Berry .....	SCAQMD Staff
Tribrina Brown .....	SCQAMD Staff
Brian Choe .....	SCAQMD Staff
Nancy Cole .....	SCAQMD Staff
Jennifer De La Loza .....	SCAQMD Staff
Kelly Trainor Gamino .....	SCAQMD Staff
Seungbum Ha .....	SCAQMD Staff
Joseph Impullitti .....	SCAQMD Staff
Aaron Katzenstein .....	SCAQMD Staff
Pat Krayser .....	SCAQMD Staff
Patricia Kwon .....	SCAQMD Staff
Joseph Lopat .....	SCAQMD Staff
Jason Low .....	SCAQMD Staff
Fred Minassian .....	SCAQMD Staff
Matt Miyasato .....	SCAQMD Staff
Mike O'Kelly .....	SCAQMD Staff
John Olvera .....	SCAQMD Staff
Robert Paud .....	SCAQMD Staff
Laki Tisopulos .....	SCAQMD Staff
Veera Tyagi .....	SCAQMD Staff
Donna Vernon .....	SCAQMD Staff
Mei Wang .....	SCAQMD Staff
Kim White .....	SCAQMD Staff
Vicki White .....	SCAQMD Staff
Jill Whynot .....	SCAQMD Staff
Vasken Yardemian .....	SCAQMD Staff