

BOARD MEETING DATE: June 2, 2017

AGENDA NO. 5

PROPOSAL: Approve Awards for Electric School Buses

SYNOPSIS: At its December 2, 2016 meeting, the Board issued a Program Announcement to solicit applications for electric school buses. This action is to approve awards for electric school buses and associated charging infrastructure in an amount not to exceed \$8,844,000 from the Carl Moyer Program AB 923 Fund (80).

COMMITTEE: Technology, April 21, 2017; Recommended for Approval

RECOMMENDED ACTIONS:

Authorize the Chairman to execute the following contracts in an amount not to exceed \$8,844,000 from the Carl Moyer Program AB 923 Fund (80):

1. Anaheim Elementary School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
2. Anaheim Union High School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
3. Baldwin Park Unified School District for up to 2 electric buses and associated charging infrastructure in an amount not to exceed \$536,000;
4. Bassett Unified School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
5. Bellflower Unified School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
6. Coachella Valley Unified School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
7. Covina Valley Unified School District for 1 electric school bus and associated charging infrastructure in an amount not to exceed \$268,000;
8. Fontana Unified School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
9. Jurupa Unified School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
10. Los Angeles Unified School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
11. Los Angeles Leadership Primary Academy for 1 electric school bus and associated charging infrastructure in an amount not to exceed \$268,000;

12. Lynwood Unified School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
13. Magnolia School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
14. Montebello Unified School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
15. Mountain View School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
16. Rialto Unified School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000;
17. Savanna School District for up to 2 electric school buses and associated charging infrastructure in an amount not to exceed \$536,000; and
18. Today's Fresh Start Charter School for 1 electric school bus and associated charging infrastructure in an amount not to exceed \$268,000.

Wayne Natri  
Executive Officer

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## **Background**

Since the commencement of the Lower-Emission School Bus Program in 2001, SCAQMD has provided over \$280 million in state and local funds to replace over 1,600 highly polluting school buses with alternative fuel buses and to retrofit over 3,300 school buses with particulate traps.

At its December 2, 2016 meeting, the Board approved the issuance of Program Announcement (PA) #PA2017-01 to provide funds to public school districts to purchase zero emission, battery-operated electric school buses. These buses must be either Type C or Type D, included on CARB's approved list, have a minimum battery range of 60 miles from a single charge, and have a battery warranty of at least five years. Consistent with CARB Mail-Out #MSC 15-19, eligible applicants will not be required to replace and scrap an older school bus when they purchase a new electric school bus. When the PA closed on February 10, 2017, applications were received from 51 public school districts and 2 private charter schools requesting a total of 295 electric school buses.

## **Outreach**

In accordance with SCAQMD's Procurement Policy and Procedure, a public notice advertising the PA and inviting bids was published in the Los Angeles Times, the Orange County Register, the San Bernardino Sun, and Riverside County's Press

Enterprise newspapers to leverage the most cost-effective method of outreach to the South Coast Basin.

Additionally, potential bidders may have been notified utilizing SCAQMD's own electronic listing of certified minority vendors. Notice of the PA was emailed to the Black and Latino Legislative Caucuses and various minority chambers of commerce and business associations, and placed on the Internet at SCAQMD's website (<http://www.aqmd.gov>).

**Proposal**

This action is to execute contracts with 16 public school districts and 2 charter schools, as outlined in Table 1, for the purchase of 33 electric school buses and associated charging infrastructure in an amount not to exceed \$8,844,000 from the Carl Moyer Program AB 923 Fund (80).

Given the strong response to the PA from school districts, staff proposes to award funding only to schools located in disproportionately impacted areas based on the criteria used for the Carl Moyer Program as described below:

- a. Poverty Level: An area where at least 10 percent of the population falls below the Federal poverty level based on the 2008-2012 American Community Survey (ACS) data;
- b. PM2.5 Exposure: An area with the highest 15 percent of PM2.5 concentration measured within a 2 km grid. The highest 15 percent of PM2.5 concentration is 11.1 micrograms per cubic meter and above, on an annual average;
- c. Air Toxics Exposure: An area with a cancer risk of 894 in a million and above (based on MATES IV estimates) will be eligible to be ranked in this category.

The maximum score is comprised of 40 percent for poverty level and 30 percent each for PM and toxic exposures. The specific garage location and the entire zip code where the school buses will be parked were chosen for this evaluation. Schools with a score of greater than 0.4, corresponding to approximately 68% of that entire zip code being in disproportionately impacted area, are recommended for awards.

Staff proposes to award two electric school buses to all the schools in disproportionately impacted areas with the exception of three schools who requested funding for only one electric school bus. The proposed funding distribution per county is listed below, which is also roughly proportional to the 2010 census for county population distribution.

- Los Angeles County: 52%
- Orange County: 24%
- Riverside County: 12%
- San Bernardino County: 12%

There are currently two Type C electric school buses that are approved by CARB. Any of these buses and any other electric school bus to be approved by CARB before the placement of the purchase orders will be eligible for funding.

This will also be the first time that, in close cooperation, the SCAQMD and CARB will be jointly funding such an incentive program. As agreed with CARB, up to \$368,000, including sales tax, would be allowed as the full price of an electric school bus from CARB's approved list. Through the Hybrid and Zero Emission Truck and Bus Voucher Incentive Project (HVIP), CARB is providing up to \$120,000 per electric school bus that operates in disadvantaged communities. To be eligible for funding, subsequent to the SCAQMD Board approval and prior to contract execution, the applicant must apply, and get approval, for HVIP funds from CARB. The SCAQMD funds will then be used to pay for the balance of the electric school bus not exceeding \$248,000, after subtracting the HVIP voucher amount. In addition, the SCAQMD will provide up to \$20,000 per bus for charging infrastructure. In case schools are not successful in receiving HVIP funds but are still interested in purchasing the buses solely with the SCAQMD funding award, contracts will be executed up to the approved amounts.

### **Benefits to SCAQMD**

The successful implementation of this program will provide less-polluting and safer school transportation for school children and will reduce public exposure to toxic diesel particulate matter emissions. In addition, these awards comply with AB 1390 requirements, such that it would reduce air pollution in low-income, high-diesel and high-PM10 exposure areas as well as enhance the objectives of the Environmental Justice and Children's Health Initiatives adopted by the SCAQMD Board.

### **Resource Impacts**

Total funding for the recommended awards shall not exceed \$8,844,000 from the Carl Moyer Program AB 923 Fund (80).

### **Attachment**

Table 1: Recommended Awards for Electric School Buses and Charging Infrastructure

**Table 1: Recommended Awards for Electric School Buses  
and Charging Infrastructure**

<b>Applicant</b>	<b>County</b>	<b>No. of Buses</b>	<b>Bus Award</b>	<b>Infrastructure</b>	<b>Total Award</b>
Baldwin Park	LA	2	\$496,000	\$40,000	\$536,000
Bassett	LA	2	\$496,000	\$40,000	\$536,000
Bellflower	LA	2	\$496,000	\$40,000	\$536,000
Covina Valley	LA	1	\$248,000	\$20,000	\$268,000
Los Angeles	LA	2	\$496,000	\$40,000	\$536,000
Los Angeles Leadership Primary Academy	LA	1	\$248,000	\$20,000	\$268,000
Lynwood	LA	2	\$496,000	\$40,000	\$536,000
Mountain View	LA	2	\$496,000	\$40,000	\$536,000
Montebello	LA	2	\$496,000	\$40,000	\$536,000
Today's Fresh Start	LA	1	\$248,000	\$20,000	\$268,000
<b>Total Los Angeles Co.</b>		<b>17</b>	<b>\$4,216,000</b>	<b>\$340,000</b>	<b>\$4,556,000</b>
Anaheim Elementary	OR	2	\$496,000	\$40,000	\$536,000
Anaheim Union High	OR	2	\$496,000	\$40,000	\$536,000
Magnolia	OR	2	\$496,000	\$40,000	\$536,000
Savanna	OR	2	\$496,000	\$40,000	\$536,000
<b>Total Orange Co.</b>		<b>8</b>	<b>\$1,984,000</b>	<b>\$160,000</b>	<b>\$2,144,000</b>
Coachella Valley	RV	2	\$496,000	\$40,000	\$536,000
Jurupa	RV	2	\$496,000	\$40,000	\$536,000
<b>Total Riverside Co.</b>		<b>4</b>	<b>\$992,000</b>	<b>\$80,000</b>	<b>\$1,072,000</b>
Fontana	SB	2	\$496,000	\$40,000	\$536,000
Rialto	SB	2	\$496,000	\$40,000	\$536,000
<b>Total San Bernardino Co.</b>		<b>4</b>	<b>\$992,000</b>	<b>\$80,000</b>	<b>\$1,072,000</b>
<b>Total, All Applicants</b>		<b>33</b>	<b>\$8,184,000</b>	<b>\$660,000</b>	<b>\$8,844,000</b>