

Proposition 1B: Goods Movement Emission Reduction Program
December 2016 SEMI-ANNUAL STATUS REPORT

This status report provides an update on implementation of the \$1 billion Proposition 1B: Goods Movement Emission Reduction Program (Program) to reduce emissions and health risk from freight operations in California's priority trade corridors through incentives. Consistent with State law, the Program Guidelines for Implementation (Guidelines) and related documents detail the grant/contract requirements for the Air Resources Board (ARB or Board), participating local agencies, and equipment owners (see Program website at: <http://www.arb.ca.gov/gmbond>).

ARB adopts the Guidelines, then solicits, awards, funds, and oversees grants to local agencies like air districts and seaports. The local agencies offer grants or contracts, through a competitive process, to diesel equipment owners to co-fund the upgrade of diesel equipment to cleaner technologies ahead of or beyond regulatory requirements to do so.

To ensure accountability and effective use of these public funds, the local agencies: solicit for eligible projects; review applications; inspect the old equipment; provide data to rank competitively each piece of equipment based on emission reductions and cost-effectiveness; sign grants or contracts with equipment owners; inspect the upgraded equipment; make payment for the cleaner technology; and track/report on funded projects.

The information in this report is based on the local agencies' semi-annual project reports as of September 30, 2016, and supplemented with information in the Program's Goods Movement Online Database. The information is reported by year of funding, as defined below.

- Year 5: Awarded September 2015 Board Meeting.
- Year 4: Awarded July 2013 Board Meeting.
- Year 3: Awarded December 2011 Board Meeting - drayage truck projects only.
- Year 2: Awarded June 2010 and December 2011 Board Meetings.
- Year 1: Awarded May 2008 Board Meeting.

Available Funding and Expenditures

Each budget appropriation authorizes ARB to use a specific amount of funding for the Program, within statutory timeframes. However, the appropriation does not provide any cash for this purpose. Therefore, the Program depends on the receipt of proceeds from State bond sales or other mechanisms to fund new projects.

The entire \$1 billion has been appropriated in State budgets (over multiple years), with \$980 million to ARB for this Program and \$20 million set aside by the control agencies to cover bond issuance and oversight costs.

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To date, ARB has allocated approximately \$980 million including \$938 million for local agency projects and about \$42 million for ARB's administration costs over multiple years. ARB has paid about \$729 million to local agencies and for ARB's administration costs to date.

Implementation of Local Agency Funds

Year 5. In September 2015, the Board awarded approximately \$220 million for truck, locomotive, ships at berth/cargo handling equipment, transport refrigeration unit (TRU), and commercial harbor craft projects throughout the State. The award also included \$1 million for the truck filter substrate replacement program. ARB has approved the local agencies' request that funds not utilized from prior year grants due to project fallout be made available for Year 5 truck projects.

Year 4. In July 2013, the Board awarded approximately \$143 million for truck projects throughout the State, including funds for loan assistance. In addition, over \$6 million was awarded for a truck filter substrate replacement project and nearly \$1 million for harbor craft projects. Any funds not utilized for projects were reallocated to Year 5 truck projects.

Year 2 and Year 3. ARB received funds for these projects in 2010 and 2011 from multiple bond sales. In June 2010, the Board awarded \$200 million in available cash primarily for truck projects and ships at berth/cargo handling equipment projects, with smaller grants for locomotive and harbor craft projects. In December 2011, the Board awarded and allocated approximately \$122 million from bond sales and funds redirected from ARB's administration costs for truck projects. Any funds not utilized for projects were reallocated to Year 4 truck projects.

Year 1. The first year funds of approximately \$246 million were used for projects to upgrade trucks, locomotives, and ships at berth. All of these projects were suspended for 6 to 14 months due to the December 2008 "stop work" order on bond-funded programs, which resulted in an extended delay from time of application to contract. This led to some funds being unused by the local agencies; grant agreements were amended to transfer funds from undersubscribed grants to oversubscribed grants.

Project Results

The Program bond monies have leveraged substantial match funding from private, local, and federal sources – more than one match dollar for every Program dollar invested.

Year 5. ARB executed grant agreements with local agencies in March 2016. The local agencies held multiple solicitations for all source categories beginning Fall 2015 through November 2016. They received applications for over 2,000 trucks; about two thirds of the projects are advanced technologies including low-nitrogen oxide (NOx), hybrid, and zero emission trucks, with the balance for new cleaner natural gas and diesel trucks. Local agencies also received applications for over 1,700 TRUs and electric power plugs, over 200 cargo handling equipment, 39 locomotives, 3 ships at berth, and 3 commercial harbor craft.

The local agencies are actively implementing the projects, which are in various stages depending upon when the solicitation was held and the number of applications received. They began signing contracts with truck owners in April 2016 and some projects are now operational. Local agencies are in the process of signing contracts for some locomotive projects and expect to begin signing contracts for the other source categories in early 2017. In addition, local agencies plan to hold solicitations in early 2017 for source categories that are undersubscribed.

Years 1 to 4. These projects are complete and all equipment is operational.

Trucks. More than 12,800 cleaner trucks are operating in the four priority trade corridors. The upgraded equipment includes approximately 1,600 trucks retrofitted with diesel soot filters and the replacement of over 480 trucks with new cleaner natural gas trucks. Small truck fleets (1 to 3 trucks) have received funding to upgrade about 5,400 trucks.

Ships at Berth. The Bay Area District's early grant project to install grid-based electrical power for three berths at the Port of Oakland has been operational since 2011. Under Year 2 grant projects, the installation of grid-based electrical power was completed in late 2013 for 9 berths at the Port of Oakland and 25 berths at the Ports of Long Beach, Los Angeles, and Hueneme. The funded berths were ready for ships to begin to plug into the grid in early 2014.

Locomotives and Commercial Harbor Craft. The Sacramento and South Coast Districts completed the upgrade of 25 locomotives that are operating in the Central Valley and the Los Angeles/Inland Empire trade corridors. In addition, the San Diego District has completed 3 harbor craft upgrades.

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Project Benefits – Years 1 to 5

When fully implemented, the Program expects projects included in this report will reduce approximately 5 million pounds, or 2,500 tons, of particulate matter (PM 2.5), plus approximately 170 million pounds, or 85,000 tons, of NOx. Emission reductions for projects funded with Year 1 through Year 3 grants are calculated over the life of their grant term (e.g., 2 to 5 years for trucks and 10 years for ships at berth). Emission reductions for the Year 4 and Year 5 grants take into consideration ARB's regulations and include only the portion of the emission reductions that are early or extra to these regulations. Additionally, emission reductions are based on completed projects and estimates for Year 5 projects.

Project Status

The tables on the following pages present the information by trade corridor (Table 1), source category (Table 2), and by grant agreement (Tables 3 through 8), and are based on the September 30, 2016 local agency reports. The number of equipment and emission reductions for Year 5 projects are estimates and will be updated in subsequent reports as equipment becomes operational and projects are completed.

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TABLE 1 PROJECTS BY TRADE CORRIDOR (Years 1 to 5)

Trade Corridor (Local Agency)		Award	PM 2.5 (lbs)	NOx (lbs)	Estimated Total Projects ¹
Los Angeles/Inland Empire	South Coast Air Quality Management District	\$507,298,680	2,334,000	87,663,000	5,755 other trucks 1,600 drayage trucks 25 ships at berth 125 cargo handling equipment 21 locomotives 790 TRUs
	Port of Long Beach	\$3,550,000	57,000	609,000	67 drayage trucks
Central Valley	San Joaquin Valley Air Pollution Control District	\$189,531,717	1,303,000	42,653,000	3,233 other trucks 9 locomotives 752 TRUs
	Sacramento Metropolitan Air Quality Management District	\$42,687,238	458,000	8,458,000	471 other trucks 20 locomotives 26 TRUs
Bay Area	Bay Area Air Quality Management District	\$130,067,066	566,000	22,112,000	1,133 other trucks 1,449 drayage trucks 12 ships at berth 50 cargo handling equipment 8 locomotives 70 TRUs
San Diego/Border	San Diego Air Pollution Control District	\$40,617,971	145,000	5,305,000	506 other trucks 98 drayage trucks 6 harbor craft
	Imperial County Air Pollution Control District	\$15,118,525	89,000	3,016,000	327 other trucks
Statewide - Loan Assistance		\$1,668,227			
Statewide - Truck Filter Substrate Replacement Project		\$7,300,000			
ARB Administration		\$42,160,000			
TOTAL		\$980.0 million	4,952,000 lbs or 2,476 tons	169,816,000 lbs or 84,908 tons	11,425 other trucks 3,214 drayage trucks 37 ships at berth 6 harbor craft 175 cargo handling equipment 58 locomotives 1,638 TRUs

¹Includes completed projects and estimated Year 5 projects, which are based on available funds.

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TABLE 2 PROJECTS BY SOURCE CATEGORY (Years 1 to 5)

Funding Category	Award	PM 2.5 (lbs)	NOx (lbs)	Estimated Total Projects ³
Other Trucks ¹	\$618,503,905	2,882,000	106,008,000	11,425
Drayage Trucks ²	\$114,928,891	869,000	18,699,000	3,214
Ships at Berth/ Cargo Handling Equipment	\$97,191,557	486,000	31,755,000	212
Harbor Craft	\$895,411	6,000	144,000	6
Locomotives	\$86,951,433	675,000	11,721,000	58
Transportation Refrigeration Units	\$10,400,000	34,000	1,489,000	1,638
ARB Loan Assistance	\$1,668,227			
ARB Truck Filter Substrate Replacement Project	\$7,300,000			
ARB Administration	\$42,160,000			
TOTAL	\$980.0 million	4,952,000 lbs or 2,476 tons	169,816,000 lbs or 84,908 tons	11,425 other trucks 3,214 drayage trucks 37 ships at berth 6 harbor craft 175 cargo handling equipment 58 locomotives 1,638 TRUs

¹Includes 40 natural gas replacements and 696 retrofits.

²Includes 445 natural gas replacements and 891 retrofits.

³Includes completed projects and estimated Year 5 projects, which are based on available funds.

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TABLE 3A LOS ANGELES/INLAND EMPIRE TRADE CORRIDOR – South Coast AQMD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 5					
Other Trucks	Replace old dirty trucks with newer clean models. GMB14-L1/13GML01	\$99,357,188	7,000	4,046,000	District is in the process of signing contracts for approximately 460 eligible trucks and 4 trucks have been scrapped and replaced with much cleaner trucks. District is evaluating applications for 576 trucks from the second solicitation.
Ships at Berth/ Cargo Handling Equipment	Eliminate or reduce emissions from ships at berth, and replace old dirty cargo handling equipment with newer clean models. GMB14-L1	\$14,500,000	19,000	1,774,000	District has completed evaluating applications for 2 ships at berth projects and 200 cargo handling equipment projects, and will begin signing contracts for approximately 75 eligible pieces of equipment in early 2017.
Locomotives	Replace old dirty locomotives with newer clean models. GMB14-L1	\$22,500,000	94,000	2,493,000	District has completed evaluating applications for 11 locomotives and will begin signing contracts for eligible equipment in early 2017.
Transportation Refrigeration Units	Replace old dirty TRUs with newer clean models. GMB14-L1	\$1,500,000	6,000	317,000	District is evaluating applications for 911 pieces of equipment, including 120 zero emission TRUs and 791 electric power plugs.
Year 4					
Other Trucks	Replace old dirty trucks with newer clean models. 13GML01/G11GMLT1	\$81,417,420	180,000	13,407,000	Grant complete. 1,823 old trucks have been scrapped and replaced with much cleaner trucks.
Year 3					
Priority Drayage Trucks	Replace old dirty trucks with newer clean models serving ports and railyards. G11GMLP1	\$3,302,250	1,000	973,000	Grant complete. 104 old trucks have been scrapped and replaced with much cleaner trucks.

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TABLE 3A (continued) LOS ANGELES/INLAND EMPIRE TRADE CORRIDOR – South Coast AQMD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 2					
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G11GMLT1/G08GMLT1	\$90,363,736	488,000	14,522,000	Grant complete. 1,522 old trucks have been scrapped and replaced with much cleaner trucks, including 2 natural gas. 386 trucks have been retrofitted with soot filters. 1 truck stop/distribution center electrification project has been completed.
Ships at Berth	Eliminate or reduce emissions from ships at berth. G08GMLS1	\$58,641,886	343,000	21,841,000	Grant complete. Installation of shore power equipment for 25 berths (12 at Port of Long Beach, 10 at Port of Los Angeles, 3 at Port of Hueneme) is complete with ships plugging into the grid starting in January 2014.
Locomotives	Replace old dirty locomotives with newer clean models. G08GMLL1	\$4,635,000	27,000	315,000	Grant complete. 6 locomotives have been repowered with much cleaner engines.
Year 1					
Drayage Trucks	Replace old dirty trucks serving the Ports of Los Angeles and Long Beach with newer clean models. G07GMLP1	\$6,930,000	66,000	1,104,000	Grant complete. 132 old trucks have been scrapped and replaced with much cleaner natural gas trucks.
	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models serving the rail yards. G07GMLP2	\$2,625,000	31,000	577,000	Grant complete. 50 old trucks have been scrapped and replaced with much cleaner trucks. 2 trucks have been retrofitted with soot filters.

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TABLE 3A (continued) LOS ANGELES/INLAND EMPIRE TRADE CORRIDOR – South Coast AQMD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 1					
Drayage Trucks	Replace old dirty trucks serving the Ports of Los Angeles and Long Beach with newer clean models. G07GMLP3-03	\$68,539,800	511,000	10,181,000	Grant complete. 1,312 old trucks have been scrapped and replaced with much cleaner trucks, including 311 natural gas.
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G07GMLT1	\$6,877,500	96,000	1,638,000	Grant complete. 131 old trucks have been scrapped and replaced with much cleaner trucks, including 2 natural gas.
	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G07GMLT2	\$43,018,900	440,000	13,295,000	Grant complete. 823 old trucks have been scrapped and replaced with much cleaner trucks, including 4 natural gas. 33 trucks have been retrofitted with soot filters.
Locomotives	Replace old dirty locomotives at rail yards with newer clean models. G07GMLL1	\$3,090,000	25,000	1,180,000	Grant complete. 4 locomotives have been repowered with much cleaner engines.

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TABLE 3B LOS ANGELES/INLAND EMPIRE TRADE CORRIDOR – Port of Long Beach

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
<i>Year 1</i>					
Drayage Trucks	Replace old dirty trucks serving the Ports of Los Angeles and Long Beach with newer clean models. G07GMLP3	\$3,550,000	57,000	609,000	Grant complete. 67 old trucks have been scrapped and replaced with much cleaner trucks, including 2 natural gas.
Corridor Total		\$510,848,680	2,391,000	88,272,000	

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TABLE 4A **CENTRAL VALLEY TRADE CORRIDOR – San Joaquín Valley APCD**

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 5					
Other Trucks	Replace old dirty trucks with newer clean models. GMB14-C1/13GMC01	\$24,420,485	4,000	2,173,000	District is in the process of signing contracts for approximately 350 eligible trucks and 10 trucks have been scrapped and replaced with much cleaner trucks.
Locomotives	Replace old dirty locomotives with newer clean models. GMB14-C1	\$19,500,000	69,000	1,549,000	District has completed evaluating applications for 15 locomotives and will begin signing contracts for eligible equipment in 2017.
Transportation Refrigeration Units	Replace old dirty TRUs with newer clean models. GMB14-C1	\$5,000,000	19,000	857,000	District is evaluating applications for 752 pieces of equipment, including 11 zero emission TRUs and 741 electric power plugs.
Year 4					
Other Trucks	Replace old dirty trucks with newer clean models. 13GMC01/G11GMCT1	\$35,261,636	52,000	8,051,000	Grant complete. 817 old trucks have been scrapped and replaced with much cleaner trucks, including 2 natural gas.
Year 2					
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G11GMCT1/G08GMCT1	\$59,642,676	495,000	14,340,000	Grant complete. 1,057 old trucks have been scrapped and replaced with much cleaner trucks. 105 trucks have been retrofitted with soot filters.

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TABLE 4A (continued) CENTRAL VALLEY TRADE CORRIDOR – San Joaquín Valley APCD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 1					
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G07GMCT1	\$4,882,500	104,000	1,364,000	Grant complete. 93 old trucks have been scrapped and replaced with much cleaner trucks. 10 trucks have been retrofitted with soot filters.
	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G07GMCT3	\$40,824,420	560,000	14,319,000	Grant complete. 789 old trucks have been scrapped and replaced with much cleaner trucks. 12 trucks have been retrofitted with soot filters.

TABLE 4B CENTRAL VALLEY TRADE CORRIDOR – Sacramento Metropolitan AQMD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 5					
Other Trucks	Replace old dirty trucks with newer clean models. GMB14-C2/13GMC02	\$3,033,075	0	383,000	District is in the process of signing contracts for approximately 30 eligible trucks and 4 trucks have been scrapped and replaced with much cleaner trucks.
Locomotives	Replace old dirty locomotives with newer clean models. GMB14-C2	\$10,000,000	88,000	1,460,000	District has completed evaluating applications for 5 locomotives and will begin signing contracts for eligible equipment in 2017.
Transportation Refrigeration Units	Replace old dirty TRUs with newer clean models. GMB14-C2	\$300,000	1,000	44,000	District has completed evaluating applications for 26 electric power plugs and is in the process of signing contracts for eligible equipment.

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TABLE 4B (continued) CENTRAL VALLEY TRADE CORRIDOR – Sacramento Metropolitan AQMD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 4					
Other Trucks	Replace old dirty trucks with newer clean models. 13GMC02/G11GMCT2	\$6,574,208	14,000	1,124,000	Grant complete. 150 old trucks have been scrapped and replaced with much cleaner trucks.
Year 2					
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G11GMCT2/G08GMCT2	\$8,409,901	43,000	1,560,000	Grant complete. 178 old trucks have been scrapped and replaced with much cleaner trucks. 15 trucks have been retrofitted with soot filters.
Year 1					
Other Trucks	Replace old dirty trucks with newer clean models. G07GMCT2	\$102,847	1,000	27,000	Grant complete. 2 old trucks have been scrapped and replaced with much cleaner trucks.
	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G07GMCT4	\$4,640,774	40,000	1,016,000	Grant complete. 96 old trucks have been scrapped and replaced with much cleaner trucks.
Locomotives	Replace old dirty long-haul locomotives with new clean models. G07GMCL1	\$9,626,433	271,000	2,844,000	Grant complete. 15 locomotives have been repowered with much cleaner engines and are expected to travel between the Central Valley and the Los Angeles/Inland Empire trade corridors.
Corridor Total		\$232,218,955	1,761,000	51,111,000	

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TABLE 5 BAY AREA CORRIDOR – Bay Area AQMD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 5					
Other Trucks	Replace old dirty trucks with newer clean models. GMB14-B1/13GMB01	\$25,672,315	1,000	1,573,000	District is in the process of signing contracts for approximately 230 eligible trucks and 4 trucks have been scrapped and replaced with much cleaner trucks. District is evaluating applications for 96 trucks from the second solicitation.
Ships at Berth/ Cargo Handling Equipment	Eliminate or reduce emissions from ships at berth, and replace old dirty cargo handling equipment with newer clean models. GMB14-B1	\$5,000,000	7,000	612,000	District has completed evaluating applications for 1 ships at berth project and 1 cargo handling equipment project and will begin signing contracts for eligible equipment in 2017.
Locomotives	Replace old dirty locomotives with newer clean models. GMB14-B1	\$15,000,000	78,000	1,500,000	District has completed evaluating applications for 8 locomotives and is in the process of signing contracts for eligible equipment.
Transportation Refrigeration Units	Replace old dirty TRUs with newer clean models. GMB14-B1	\$3,000,000	7,000	226,000	District has completed evaluating applications for 16 electric plugs and is in the process of signing contracts for eligible equipment.
Year 4					
Other Trucks	Replace old dirty trucks with newer clean models. 13GMB01/G11GMBT1	\$9,566,339	17,000	1,637,000	Grant complete. 220 old trucks have been scrapped and replaced with much cleaner trucks, including 6 natural gas.
Year 3					
Priority Drayage Trucks	Replace old dirty trucks with newer clean models serving ports and railyards. G11GMBP1	\$10,311,000	1,000	2,678,000	Grant complete. 357 old trucks have been scrapped and replaced with much cleaner trucks.

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TABLE 5 (continued) BAY AREA CORRIDOR – Bay Area AQMD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 2					
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G11GMBT1/G08GMBT1	\$18,178,650	84,000	2,574,000	Grant complete. 348 old trucks have been scrapped and replaced with much cleaner trucks, including 4 natural gas. 28 trucks have been retrofitted with soot filters.
Ships at Berth	Eliminate or reduce emissions from ships at berth and/or cargo equipment at ports and intermodal railyards. G08GMBS1	\$15,927,381	98,000	6,278,000	Grant complete. Installation of shore power equipment for 9 berths at the Port of Oakland is complete with ships plugging into the grid starting in January 2014.
Year 1					
Drayage Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G07GMBP1	\$14,526,891	174,000	1,892,000	Grant complete. 203 old trucks have been scrapped and replaced with much cleaner trucks. 889 trucks have been retrofitted with soot filters.
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G07GMBT1	\$10,462,200	81,000	1,978,000	Grant complete. 198 old trucks have been scrapped and replaced with much cleaner trucks. 13 trucks have been retrofitted with soot filters.
Ships at Berth	Install grid-based shoreside electrical power at 3 berths at the Port of Oakland so ships can plug in and turn off their engines while docked. G07GMBS1	\$2,422,290	18,000	1,164,000	Grant complete. Installation of shore power equipment for 3 berths at the Port of Oakland with ships plugging into the grid starting in 2011.

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TABLE 5 (continued) BAY AREA CORRIDOR – Bay Area AQMD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
<i>Year 1</i>					
Locomotives	Replace old dirty locomotives at rail yards with newer clean models. G07GMBL1	\$0	0	0	Grant terminated and funds transferred to the existing drayage truck grant G07GMBP1, at the District's request.
Corridor Total		\$130,067,066	566,000	22,112,000	

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TABLE 6A SAN DIEGO/BORDER TRADE CORRIDOR – San Diego APCD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 5					
Other Trucks	Replace old dirty trucks with newer clean models. GMB14-S1/13GMS01	\$12,968,366	0	1,296,000	District is in the process of signing contracts for approximately 80 eligible trucks and 2 trucks have been scrapped and replaced with much cleaner trucks. District is evaluating applications for 25 trucks from the second solicitation.
Ships at Berth/ Cargo Handling Equipment	Eliminate or reduce emissions from ships at berth and replace old dirty cargo handling equipment with newer clean models. GMB14-S1	\$700,000	1,000	86,000	District opened a second solicitation in September 2016 with applications due by October 31, 2016.
Locomotives	Replace old dirty locomotives with newer clean models. GMB14-S1	\$2,600,000	23,000	380,000	District opened a second solicitation in September 2016 with applications due by October 31, 2016.
Commercial Harbor Craft	Replace old dirty engines in harbor craft with newer clean engines. GMB14-S1	\$600,000	3,000	101,000	District received and is evaluating applications to upgrade 3 commercial harbor craft projects and will be signing contracts in early 2017.
Transportation Refrigeration Units	Replace old dirty TRUs with newer clean models. GMB14-S1	\$600,000	1,000	45,000	District did not receive any applications from two solicitations and plans to request the funds be made available for truck projects. Emission reductions are estimated based on grant amount and will be updated when funds are transferred.

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TABLE 6A (continued) SAN DIEGO/BORDER TRADE CORRIDOR – San Diego APCD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 4					
Other Trucks	Replace old dirty trucks with newer clean models. 13GMS01	\$4,653,480	5,000	507,000	Grant complete. 102 old trucks have been scrapped and replaced with much cleaner trucks, including 18 natural gas.
Commercial Harbor Craft	Replace old dirty engines in harbor craft with newer clean engines. 13GMS01	\$180,125	2,000	32,000	Grant complete. 2 harbor craft vessels have been repowered with much cleaner engines.
Year 2					
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G11GMST1/G08GMST2	\$11,376,764	69,000	1,830,000	Grant complete. 222 old trucks have been scrapped and replaced with much cleaner trucks, including 2 natural gas. 70 trucks have been retrofitted with soot filters.
Commercial Harbor Craft	Replace old dirty engines in harbor craft with newer clean engines. G08GMSH1	\$115,286	1,000	11,000	Grant complete. 1 harbor craft vessel has been upgraded.

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Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
<i>Year 1</i>					
Drayage Trucks	Retrofit or replace trucks serving the Port of San Diego. G07GMSP1	\$0	0	0	Grant terminated and funds transferred to the drayage truck grant G07GMSP2, at the District's request.
	Replace old dirty trucks serving the Port of San Diego with newer clean models. G07GMSP2	\$5,143,950	28,000	685,000	Grant complete. 98 old trucks have been scrapped and replaced with much cleaner trucks.
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G07GMST2	\$1,680,000	12,000	332,000	Grant complete. 32 old trucks have been scrapped and replaced with much cleaner trucks.

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TABLE 6B SAN DIEGO/BORDER TRADE CORRIDOR – Imperial County APCD

Funding Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 4					
Other Trucks	Replace old dirty trucks with newer clean models. 13GMS02/G11GMST2	\$4,660,287	8,000	1,026,000	Grant complete. 105 trucks have been scrapped and replaced with much cleaner trucks.
Year 2					
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G11GMST2/G08GMST1	\$7,884,439	60,000	1,561,000	Grant complete. 147 old trucks have been scrapped and replaced with much cleaner trucks. 24 trucks have been retrofitted with soot filters.
Year 1					
Other Trucks	Retrofit trucks with soot filters and replace old dirty trucks with newer clean models. G07GMST3	\$2,573,799	21,000	429,000	Grant complete. 51 old trucks have been scrapped and replaced with much cleaner trucks.

TABLE 6C SAN DIEGO/BORDER TRADE CORRIDOR – Port of San Diego

Fiscal Year/ Category	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 1					
Ships at Berth	Install grid-based shore power at the Port of San Diego. G07GMSS1	\$0	0	0	Grant terminated and funds transferred to the San Diego District's drayage truck grant G07GMSP2, at the Port's request.
Corridor Total		\$55,736,496	234,000	8,321,000	

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TABLE 7 STATE AGENCY – LOAN ASSISTANCE – Trucks Only

State Agency	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 4					
ARB	Loan assistance to replace old dirty trucks with newer clean models.	\$0	N/A	N/A	The \$5.3 million was not needed for loan assistance and was reallocated to the local agencies for Year 5 truck projects.
Year 3					
ARB	Loan assistance to replace old dirty trucks with newer clean models serving ports and railyards.	\$1,668,227	Included in the Bay Area and South Coast Districts' FY2011-12 Priority Drayage Reserve Grants.		Loan assistance to help replace drayage trucks funded under the priority drayage reserve through the South Coast and Bay Area Air Districts. Loan assistance is improved access to financing through the California Capital Access Program with funds used for a loan loss reserve account if a truck owner defaults on their loan. 136 trucks projects have utilized the loan assistance program. \$3.3 million not needed for this project was reallocated to the local agencies for Year 5 truck projects.

TABLE 8 MULTI-CORRIDOR TRUCK PROGRAMS

State Agency	Project Description	Grant Amount	Emission Reductions (pounds)		Current Project Status
			PM 2.5	NOx	
Year 5					
ARB	Truck filter substrate replacement	\$1,000,000	TBD	TBD	These funds were awarded at the September 2015 Board Meeting to augment the Year 4 award due to higher than anticipated initial demand for the project. Funds not needed may be made available to the local agencies for Year 5 projects.
Year 4					
ARB	Truck filter substrate replacement	\$6,300,000	TBD	TBD	Sacramento Air District was selected to implement this project. 349 filter substrates have been replaced; the remaining projects must be completed by January 31, 2017. Funds not needed may be made available to the local agencies for Year 5 projects.