

Proposition 1B: Goods Movement Emission Reduction Program
June 2017 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 four priority trade corridors (Los Angeles/Inland Empire, Central Valley, Bay Area, and San Diego/Border). Consistent with State law, the Program Guidelines for Implementation (Guidelines) and related documents detail the grant/contract requirements for the Air Resources Board (CARB or Board), participating local agencies, and equipment owners (see Program website at: <http://www.arb.ca.gov/gmbond>).

CARB 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 March 31, 2017, 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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CARB has allocated \$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 \$780 million to local agencies and for ARB's administration costs through March 2017.

Local Agency Awarded 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.

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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. The local agencies originally held multiple solicitations for all source categories beginning fall 2015 through November 2016. Subsequently, the local agencies held additional solicitations beginning in early 2017 with some solicitations to close in June 2017. They have received applications for over 2,100 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, 200 cargo handling equipment, 39 locomotives, 3 ships at berth, and 6 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 Spring 2016 and approximately 160 new trucks are now operational. Local agencies are in the process of signing contracts for the other source categories. They will also be evaluating applications received from the Summer 2017 solicitations. CARB is considering providing additional time (to the statutory deadlines) for the local agencies to execute contracts and complete projects to ensure funds are utilized for this round of funding.

Year 4 and 5. The Sacramento District is the implementing local agency for the Filter Substrate Replacement project. The project is complete with the replacement of 505 filter substrates.

Years 1 to 4. These projects are complete and all equipment is operational. The following information is by source category.

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.

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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.

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 March 31, 2017 local agency reports and supplemented with additional information from the Districts. The number of equipment and emission reductions for Year 5 projects are estimates and will continue to be updated in subsequent reports as additional solicitations are held, equipment becomes operational, and grants 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 | 2,328,000 | 87,930,000 | 5,755 other trucks 1,600 drayage trucks 25 ships at berth 150 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 | 1,302,000 | 42,226,000 | 3,150 other trucks 15 locomotives 752 TRUs |
| | Sacramento Metropolitan Air Quality Management District | \$42,687,238 | 458,000 | 8,350,000 | 475 other trucks 20 locomotives 26 TRUs |
| Bay Area | Bay Area Air Quality Management District | \$130,067,066 | 566,000 | 21,989,000 | 1,120 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 | 120,000 | 4,498,000 | 590 other trucks 98 drayage trucks 9 harbor craft |
| | Imperial County Air Pollution Control District | \$15,118,525 | 89,000 | 3,016,000 | 327 other trucks |
| Statewide - Truck Filter Substrate Replacement Project | | \$7,300,000 | 7,000 | 0 | 505 filters |
| Statewide - Loan Assistance | | \$1,668,227 | | | |
| ARB Administration | | \$42,160,000 | | | |
| TOTAL | | \$980.0 million | 4,927,000 lbs or 2,464 tons | 168,618,000 lbs or 84,309 tons | 11,417 other trucks 3,214 drayage trucks 37 ships at berth 9 harbor craft 200 cargo handling equipment 64 locomotives 1,638 TRUs 505 filters |

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

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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 | \$621,879,880 | 2,875,000 | 105,321,000 | 11,417 |
| Drayage Trucks ² | \$114,928,891 | 869,000 | 18,699,000 | 3,214 |
| Ships at Berth/ Cargo Handling Equipment | \$96,491,557 | 485,000 | 31,669,000 | 237 |
| Harbor Craft | \$1,419,436 | 6,000 | 144,000 | 9 |
| Locomotives | \$84,351,433 | 652,000 | 11,341,000 | 64 |
| Transportation Refrigeration Units | \$9,800,000 | 33,000 | 1,444,000 | 1,638 |
| ARB Truck Filter Substrate Replacement Project ⁴ | \$7,300,000 | 7,000 | 0 | 505 |
| ARB Loan Assistance ⁵ | \$1,668,227 | | | |
| ARB Administration | \$42,160,000 | | | |
| TOTAL | \$980.0 million | 4,927,000 lbs or 2,464 tons | 168,618,000 lbs or 84,309 tons | 17,084 |

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.

⁴See Table 7 for details.

⁵See Table 8 for details.

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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 | 1,000 | 4,313,000 | District held two solicitations and received applications for almost 1,100 trucks. They began signing contract in 2016 with small fleets and 48 trucks have been scrapped and replaced with much cleaner trucks. District is in the process of signing contracts for over 900 trucks. |
| 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 completed evaluating applications from the first solicitation with approximately 75 eligible pieces of equipment and will begin signing contracts in early summer 2017. District is evaluating applications from the second solicitation, which recently closed. |
| Locomotives | Replace old dirty locomotives with newer clean models. GMB14-L1 | \$22,500,000 | 94,000 | 2,493,000 | District received applications for 11 locomotives and began signing contracts in late spring 2017. |
| Transportation Refrigeration Units | Replace old dirty TRUs with newer clean models. GMB14-L1 | \$1,500,000 | 6,000 | 317,000 | District completed evaluating applications for 911 pieces of equipment, including 120 zero emission TRUs and 791 electric power plugs; category is oversubscribed. District will begin signing contracts in late spring 2017. |
| 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 | 2,385,000 | 88,539,000 | |

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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 | 3,000 | 1,746,000 | District received applications for over 550 trucks. They began signing contracts in 2016 with small fleets and 69 trucks have been scrapped and replaced with much cleaner trucks. District will be opening a second solicitation in late spring 2017, and will begin signing contracts in mid to late summer 2017. |
| Locomotives | Replace old dirty locomotives with newer clean models. GMB14-C1 | \$19,500,000 | 69,000 | 1,549,000 | District received applications for 15 locomotives and began signing contracts in late spring 2017. |
| Transportation Refrigeration Units | Replace old dirty TRUs with newer clean models. GMB14-C1 | \$5,000,000 | 19,000 | 857,000 | District completed evaluating applications for 752 pieces of equipment, including 11 zero emission TRUs and 741 electric power plugs, and will begin signing contracts in late spring/early summer 2017. |
| 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 | 275,000 | District executed contracts for 26 trucks and 9 have been scrapped and replaced with much cleaner trucks. District has a solicitation open through June 30, 2017. |
| Locomotives | Replace old dirty locomotives with newer clean models. GMB14-C2 | \$10,000,000 | 88,000 | 1,460,000 | District 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 from the first solicitation and has a second solicitation open through June 30, 2017. |

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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 | 1,760,000 | 50,576,000 | |

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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 | 1,450,000 | District held two solicitations and received applications for over 300 trucks. They began signing contracts in 2016 with small fleets and 20 trucks have been scrapped and replaced with much cleaner trucks. District has a solicitation open through May 31, 2017. |
| 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 completed evaluating applications from the first solicitation and has a solicitation open through June 30, 2017. |
| Locomotives | Replace old dirty locomotives with newer clean models. GMB14-B1 | \$15,000,000 | 78,000 | 1,500,000 | District completed evaluating applications for 8 locomotives and signed contracts for 2 projects from the first solicitation. District has a solicitation open through June 30, 2017. |
| Transportation Refrigeration Units | Replace old dirty TRUs with newer clean models. GMB14-B1 | \$3,000,000 | 7,000 | 226,000 | District completed evaluating applications for 19 electric plugs from the first solicitation and has a solicitation open through June 30, 2017. |
| 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 | 21,989,000 | |

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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 | \$16,344,341 | 0 | 1,000,000 | District received applications for over 160 trucks. They began signing contracts in 2016 with small fleets and 14 trucks have been scrapped and replaced with much cleaner trucks. District has a solicitation open through May 31, 2017. |
| 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 | \$0 | 0 | 0 | District held two solicitations and did not receive any applications. District requested and ARB approved the transfer of funds to truck and harbor craft projects as these are oversubscribed. |
| Locomotives | Replace old dirty locomotives with newer clean models. GMB14-S1 | \$0 | 0 | 0 | District held two solicitations and did not receive any applications. District requested and ARB approved the transfer of funds to truck and harbor craft projects as these are oversubscribed. |
| Commercial Harbor Craft | Replace old dirty engines in harbor craft with newer clean engines. GMB14-S1 | \$1,124,025 | 3,000 | 101,000 | District received applications for 6 projects from two solicitations and expects to begin signing contracts in late spring/early summer 2017. |
| Transportation Refrigeration Units | Replace old dirty TRUs with newer clean models. GMB14-S1 | \$0 | 0 | 0 | District held two solicitations and did not receive any applications. District requested and ARB approved the transfer of funds to truck and harbor craft projects as these are oversubscribed. |

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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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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 | |
| <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 | 209,000 | 7,514,000 | |

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TABLE 7 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 | N/A | N/A | 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 were not needed and may be made available to the local agencies for Year 5 projects. |
| Year 4 | | | | | |
| ARB | Truck filter substrate replacement | \$6,300,000 | 7,000 | 0 | Sacramento Air District is the implementing agency. The project was completed with 505 filter substrates replaced at a total cost of \$3.1 million. Funds not needed may be made available to the local agencies for Year 5 projects. |

TABLE 8 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. |