




air pollution control district
SANTA BARBARA COUNTY

Agenda Item: D-2
Agenda Date: August 20, 2020
Agenda Placement: Admin
Estimated Time: N/A
Continued Item: No

Board Agenda Item

TO: Air Pollution Control District Board

FROM: Aeron Arlin Genet, Air Pollution Control Officer 

CONTACT: Lorena Saldana, Executive Assistant/Board Clerk, (805) 961-8853

SUBJECT: District Grant Program Activity

RECOMMENDATION:

Receive and file the following:

1. An update on the Old Car Buy Back Program for vehicles retired during the period of March 1, 2020 through June 30, 2020;
2. An update on the Woodsmoke Reduction Program for fireplace and stove replacement projects during the period of December 12, 2019 through August 1, 2020;
3. An update on the Landscape Equipment Electrification Fund (LEEF) Program for zero-emission landscape equipment vouchers during the period of March 4, 2020 through August 1, 2020; and
4. Summary of the emission-reduction grant agreements approved by the Air Pollution Control Officer for the period of June 1, 2020 through July 31, 2020 in accordance with Board Resolution Number 09-14.

DISCUSSION:

Your Board expanded the authority of the Control Officer to issue grants for emission reduction projects up to \$150,000 provided your Board had authorized an overall umbrella program for each type of project. The attached summary sheets describe the grants approved since our last report. In addition, updated grant fund allocation reports by city for the District's Old Car Buy Back Program, Woodsmoke Reduction Program, and landscape Equipment Electrification Fund Program are being provided.

ATTACHMENTS:

- A. Old Car Buy Back Program Update
- B. Woodsmoke Reduction Program Update
- C. Landscape Equipment Electrification Fund Program Update
- D. Grant Agreement Approval Forms

Aeron Arlin Genet, Air Pollution Control Officer

ATTACHMENT A

Old Car Buy Back Program Update for the period of
March 1, 2020 – June 30, 2020

August 20, 2020

Santa Barbara County Air Pollution Control District
Board of Directors

260 San Antonio Road, Suite A
Santa Barbara, California 93110

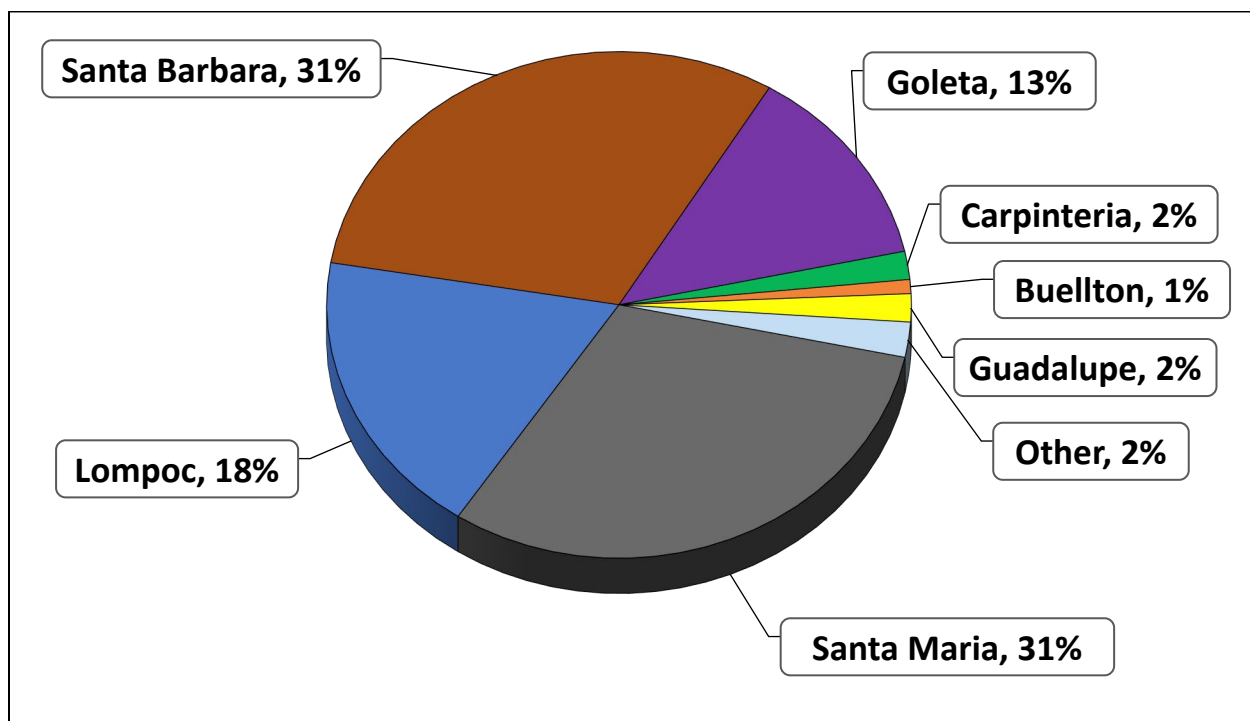
OLD CAR BUY BACK PROGRAM UPDATE

The District's Old Car Buy Back Program currently pays Santa Barbara County vehicle owners \$1,000 to voluntarily retire their fully legal and operational 1995 or older, light or medium duty car, truck, van, or SUV. The regional dismantlers earned \$250 for each vehicle that they helped retire. Currently, the total program cost is \$1,250 to retire a vehicle.

The program accelerates the improvement of air quality by removing high polluting vehicles from the road, quicker than normal vehicle attrition. Funding for the program is derived from \$2 DMV registration surcharge funds. Below is the program data for the most recent reporting period and the entire fiscal year.

DATE RANGE:	3/1/2020 THROUGH 6/30/2020	FY 2019-20 ¹
VEHICLES RETIRED:	29	223
\$ COMMITTED @ \$1,250/VEHICLE	\$36,250	\$278,750
TOTAL TONS REDUCED [NOx + ROC + PM]:	2.64	19.51
AVERAGE PROJECT COST-EFFECTIVENESS	\$13,487/ton	\$13,997/ton

VEHICLE OWNER LOCATION (FY 2019-20)



¹ Includes the entire fiscal year reporting cycle (i.e., July 1, 2019 – June 30, 2020).

ATTACHMENT B

Woodsmoke Reduction Program Update for the period of
December 12, 2019 – August 1, 2020

August 20, 2020

Santa Barbara County Air Pollution Control District
Board of Directors

260 San Antonio Road, Suite A
Santa Barbara, California 93110



Woodsmoke Reduction Program Update

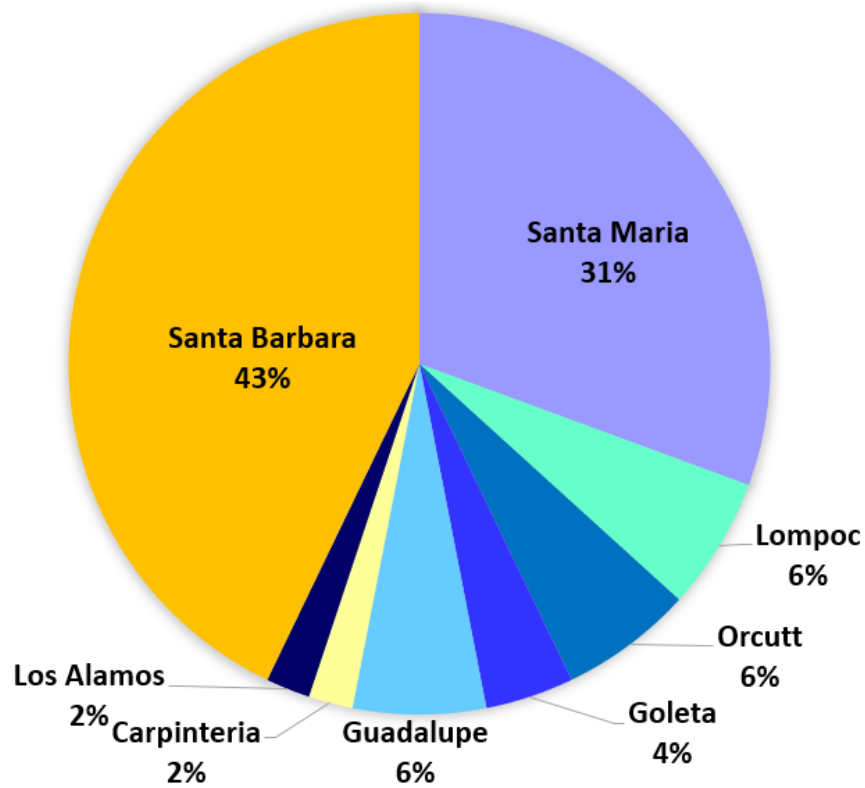
This voluntary program is designed to help households replace a wood-burning uncertified stove, fireplace insert, or fireplace used as a primary source of heat with a cleaner-burning and more efficient device. Applicants who meet low-income eligibility requirements may qualify for an Enhanced Incentive Voucher of up to \$5,000. All other Applicants may qualify for the Standard Voucher of up to \$1,000. Program funds come from California Climate Investments, a statewide initiative that puts Cap-and-Trade dollars to work.

The program improves air quality and mitigates neighborhood impacts by reducing the amount of woodsmoke emitted from fireplaces and wood stoves in the county, which accounts for about 33 percent of wintertime particulate matter (PM_{2.5} and PM₁₀) emissions. In addition to particulate matter, woodsmoke contains soot, dioxins, carbon dioxide, and volatile organic compounds. Breathing woodsmoke can reduce lung function, aggravate heart and lung diseases, and trigger asthma. The program also achieves reductions in black carbon, a short-lived climate pollutant emitted when wood burns.

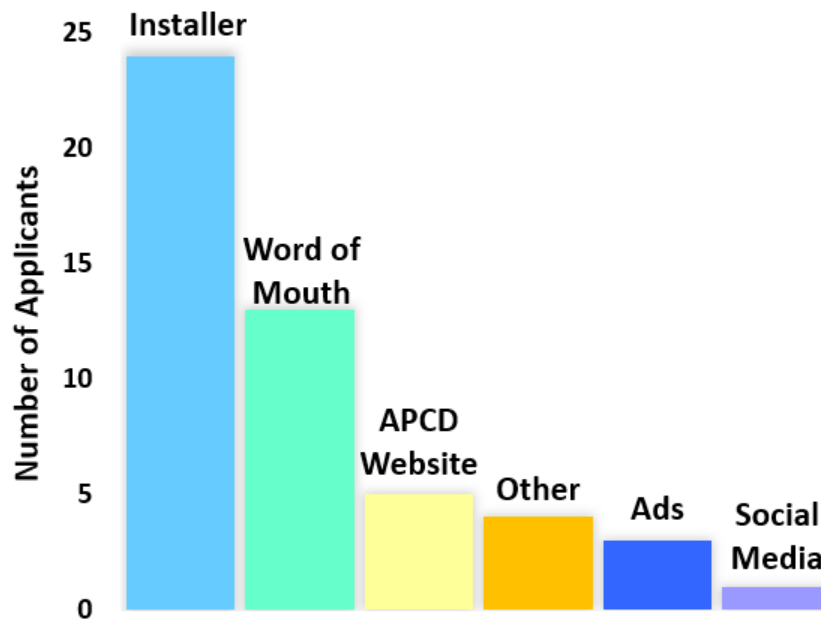
Year 2 Program Fireplace and Stove Replacements (December 12 th 2019 – August 1 st 2020)						
Household Type	Vouchers Issued	Projects Completed		\$ Expended	PM _{2.5} Reduced (lbs)	Ozone Precursors Reduced (NO _x and ROC, lbs)
		Wood-burning to Gas-burning	Wood-burning to EPA-Certified Wood-Burning			
Low Income	46	21	1	\$106,274	42,720	80,830
Other	3	1	0	\$1,000	1,981	3,717
Total	49	22	1	\$107,274	44,701	84,547
Year 2 Program Budget				\$214,652		
Year 2 Program Balance				\$107,378		
Cost Effectiveness (\$/ton PM _{2.5})				\$4,799		
Cost Effectiveness (\$/ton NO _x and ROC)				\$2,538		



Project Location



How Applicants Learned of Program



ATTACHMENT C

Landscape Equipment Electrification Fund (LEEF) Program
Update for the period of
March 4, 2020 – August 1, 2020

August 20, 2020

Santa Barbara County Air Pollution Control District
Board of Directors

260 San Antonio Road, Suite A
Santa Barbara, California 93110



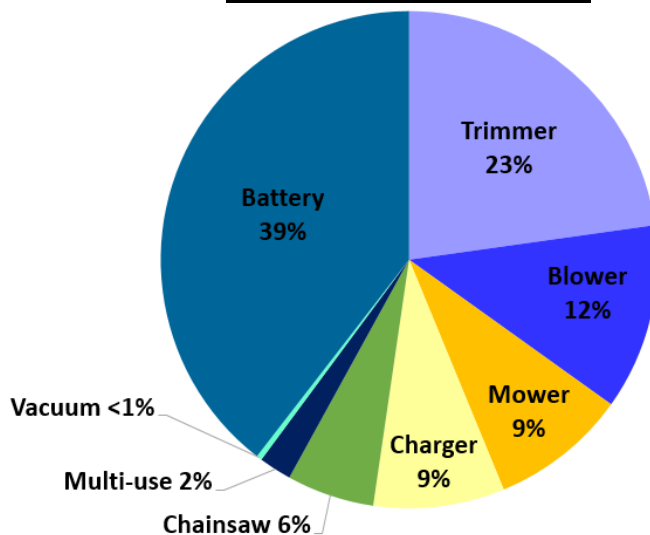
Landscape Equipment Electrification Fund (LEEF) Pilot Program Update

The LEEF pilot program offers vouchers to help landscape businesses, public agencies, and public or private schools that perform their own landscape maintenance services and are located in or do business within the County, to transition to the use of zero-emission electric landscape equipment. The pilot program is funded with \$100,000 from the District's Clean Air Fund that the District Board approved in December of 2019. Under the pilot program, eligible organizations received a voucher of up to \$10,000 for purchase of electric ride-on mowers, walk-behind mowers, leaf blowers, leaf vacuums, edgers, trimmers, chainsaws, and pole saws. The voucher covered up to 60% of the purchase price for landscape equipment and up to 100% of the purchase price for an additional battery or charger for each piece of equipment purchased. The vouchers were distributed on a first-come, first-served basis with 50% of initial funds allocated to landscape businesses. To date, all program funds have been obligated to projects. The District received requests for \$164,021 in funding, exceeding the program's budget of \$100,000.

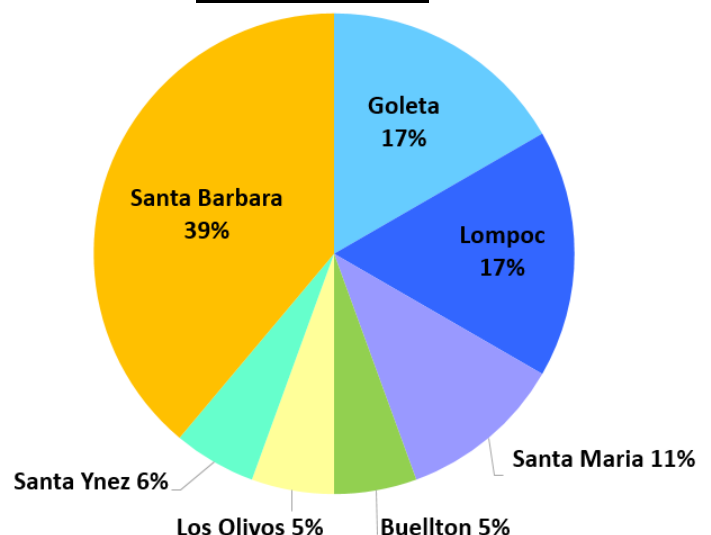
The program helps reduce gasoline- and diesel-powered landscape equipment emissions including nitrogen oxides, particulate matter, carbon dioxide, and other pollutants. The program also helps community members, businesses, and employees experience the health and environmental benefits of cleaner technology that may ultimately lead to greater use of zero emission landscape equipment throughout the county.

Pilot Program Voucher Incentives (March 4 th , 2020 – August 1 st , 2020)					
Organization Type	Applications Received		Vouchers Issued		\$ Expended to Date
	Number	Amount	Number	Amount	
Business	14	\$98,228	7	\$58,022	\$58,022
Public Agency	3	\$24,593	1	\$10,000	\$10,000
School	12	\$41,200	10	\$31,978	\$30,733
Total	29	\$164,021	18	\$100,000	\$98,755
Program Budget					\$100,000
Program Balance					\$1,245

Equipment Types Funded



Project Location

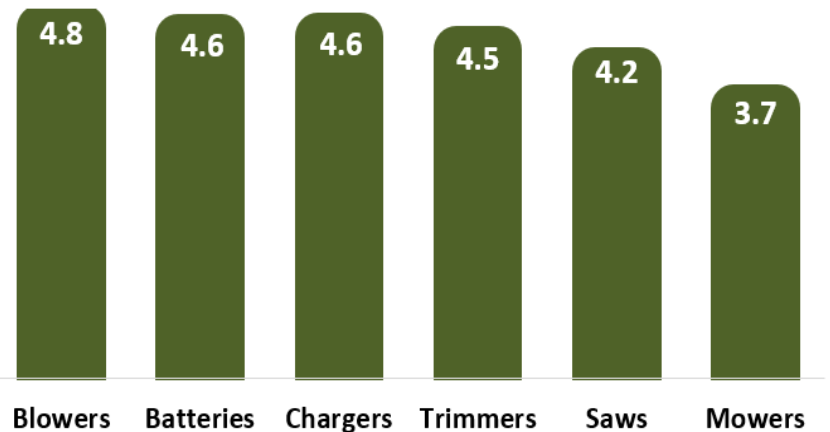




2020 LEEF Pilot Program Participant Survey Results

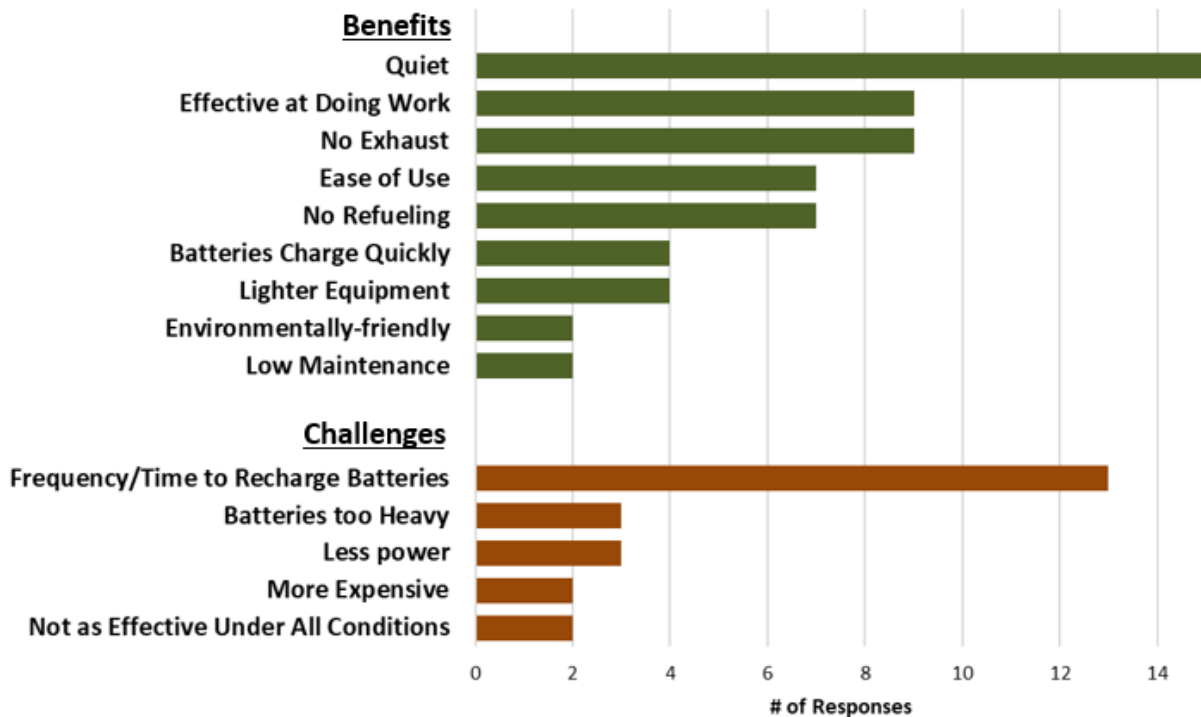
On June 30th, the District sent a survey to participants of our pilot program to receive feedback about their operation of the electric landscape equipment and how the LEEF program can be improved in the future. Thirteen out of 17 program participants responded. Overall, satisfaction with the electric equipment is rated highly on a scale of 1 to 5, with 5 being the highest. Blowers are the most highly rated equipment type at 4.8 and mowers are rated the lowest at 3.7. Some participants have trouble operating their mowers on wet or hilly turf.

Overall Rating of Equipment by Type (1 to 5)



The participants are experiencing both benefits and challenges using their new electric equipment. The most common benefits are that the electric equipment is quiet, effective, produces no exhaust, does not require refueling, and is easy to use. The largest challenge mentioned was the frequency and length of time required to recharge the equipment's batteries.

Benefits and Challenges of Electric Equipment Use





The participants provided ideas to improve the program that we are taking into consideration while we develop a proposal for Year 2 of the LEEF Program.

Participant Ideas to Improve Program:

- More advertising
- Host event for organizations to try out different electric equipment
- Include disposal of gasoline equipment as part of program
- Batteries AND chargers should be free (program funded 1 free battery OR charger per piece of equipment purchased)
- Offer higher grant amounts for larger businesses/organizations
- Streamline assessment of award amount

We received some great testimonials about participants' experiences with their new equipment. We will be reaching out to interested participants who would like to have a more in-depth discussion of program improvements and promoting the use of electric landscape equipment in our County.

"The electric landscape equipment has been a game changer for us. Our customers and employees appreciate the quiet, clean, and extremely efficient tools. The batteries are comfortable to wear, charge quickly and fully, and last through the day. No more oil mixes, spills, fumes, and trips to the gas station to fill our cans! This is the wave of the future and I highly recommend these!"

- Deborah Shaw Restoration + Landscape, INC. (Santa Barbara)

"Midland school with the help of this program is making the change to a cleaner future one piece of equipment at a time."

- Midland School (Los Olivos)

Most of the participants have removed at least some of their gasoline equipment from service and replaced it with electric equipment. Some organizations are saving gasoline equipment to use as backup, or when needed due to specific job constraints. Most participants report that they still have some gasoline equipment in service. **So far, our program has helped one organization go completely electric.** All but one participant is interested in participating in the program again in the future, to purchase more electric equipment.

Survey Responders Say...

10 out of 13 have taken gasoline equipment out of service

1 out of 13 has gone completely electric

12 out of 13 would participate in the program again

ATTACHMENT D

Grant Agreement Approval Forms for the Period of
June 1, 2020 – July 31, 2020

August 20, 2020

Santa Barbara County Air Pollution Control District
Board of Directors

260 San Antonio Road, Suite A
Santa Barbara, California 93110

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer

Staff Contact: Alex Economou

Date: May 22, 2020

Grant Program: AB 923 - \$2 DMV funds

Category: School Bus

GRANT INFORMATION

Grantee: Lompoc Unified School District (AP192038)

Project Location: Lompoc

Grant Agreement Amount: \$107,441

Old Equipment: 1990 Blue Bird TC FC2701 diesel school bus

New Equipment: 2021 Blue Bird BBCV 2311 diesel school bus

Grant Cost-Effectiveness: \$164,276/ton NO_x+ROC+PM₁₀

Cost-Effectiveness Limit: \$276,230/ton NO_x+ROC+PM₁₀

Project Life: 5 Years

Project Lifetime Emission Reductions: 0.9 tons (0.18 tons/year)

FUND INFORMATION

AB 923 \$2 DMV Budget: \$700,000

Encumbered Grant Agreements: \$586,682.39 (Including current grant)

AB 923 \$2 DMV Balance: \$113,317.61

Approved:


Air Pollution Control Officer

Date:

16 June 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer
Staff Contact: Mike McKay
Date: 06/26/20
Grant Program: Co-Funded with Carl Moyer – Year 21 & AB 923 - \$2 DMV
Category: Off-Road

GRANT INFORMATION

Grantee: Fresh Venture Farms (AP192036)
Project Location: Buellton
Grant Agreement Amount: \$150,000
Old Equipment: 1979 John Deere Agricultural Tractor 275hp (Tier 0)
New Equipment: 2017 John Deere Agricultural Tractor 370hp (Tier 4F)
Grant Cost-Effectiveness: \$8,350
Cost-Effectiveness Limit: \$30,000
Project Life: 3 Years
Project Lifetime Emission Reductions: 18.309 tons (6.103 tons/yr)

FUND INFORMATION

Carl Moyer Year 21 Budget: \$563,651.00
Encumbered Grant Agreements: \$485,322.08 (Including current grant)
Carl Moyer Year 21 Balance: \$78,328.92

AB 923 \$2 DMV – Year 2 Budget: \$700,000.00
Encumbered Grant Agreements: \$700,000.00 (Including current grant)
AB 923 \$2 DMV – Year 2 Balance: \$0.00

Approved: _____

Air Pollution Control Officer

Date: _____

7 July 2020

Please contact the Board Clerk to review this grant agreement

GRANT AGREEMENT APPROVAL FORM

To: Air Pollution Control Officer

Staff Contact: Mike McKay

Date: 07/16/20

Grant Program: Carl Moyer – Year 21

Category: Off-Road

GRANT INFORMATION

Grantee: Hayward Lumber (AP192034)
Project Location: Santa Maria
Grant Agreement Amount: \$50,209
Old Equipment: 1998 Hyster Forklift – diesel fueled 42hp
New Equipment: 2020 Hyster Forklift – electric 46hp
Grant Cost-Effectiveness: \$42,126
Cost-Effectiveness Limit: \$100,000
Project Life: 10 Years
Project Lifetime Emission Reductions: 1.350 tons (0.135 tons/yr)

FUND INFORMATION

Carl Moyer Year 21 Budget: \$563,651.00
Encumbered Grant Agreements: \$563,651.00 (Including current grant)
Carl Moyer Year 21 Balance: \$0.00

Approved:


Air Pollution Control Officer

Date:

20 July 2020

Please contact the Board Clerk to review this grant agreement