

Landscape Equipment Electrification Fund (LEEF) Pilot Program

Board of Directors

Santa Barbara County

Air Pollution Control District

Our Mission: To protect the people and the environment
of Santa Barbara County from the effects of air pollution.

Aeron Arlin Genet
Director / APCO

Emily Waddington/Air Quality Specialist

December 19, 2019

air pollution control district

SANTA BARBARA COUNTY

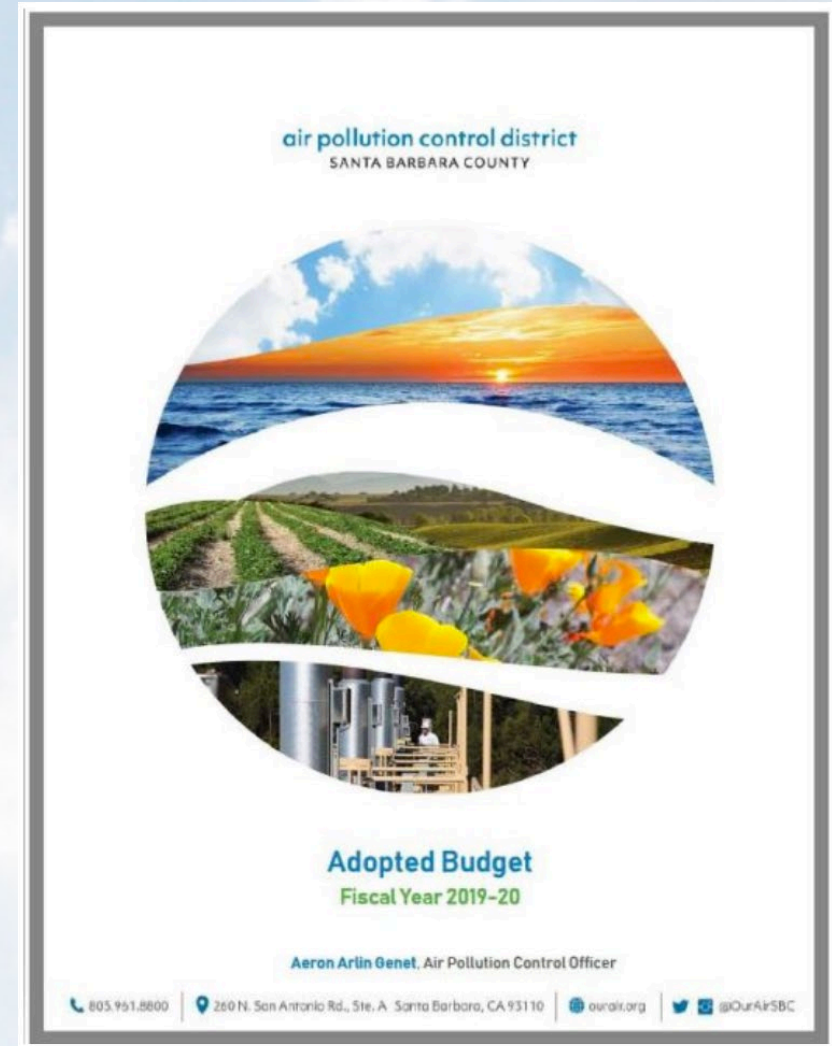


Clean Air Fund

- \$100,000 approved from Clean Air Fund
- Included in District's 2019-20 FY Budget



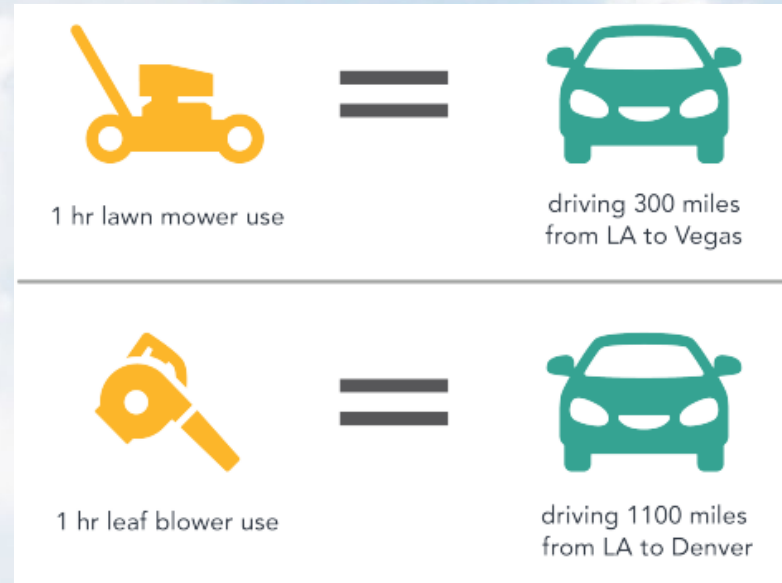
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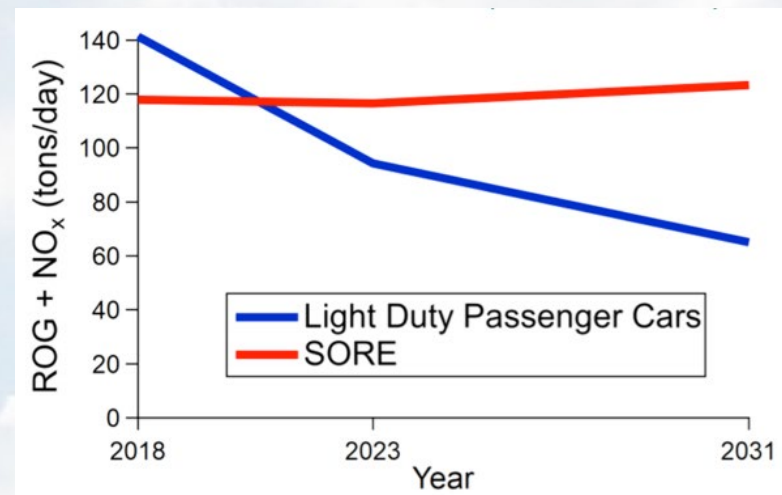
Emissions from Landscape Equipment

- Ozone precursors (VOC, NO_x), CO, PM_{2.5}, black carbon, and toxic air contaminants
- Effects:
 - Ozone/smog formation
 - Neighborhood impacts
 - Health impacts to equipment operators
- Nine air districts have programs to incentivize adoption of electric landscape equipment

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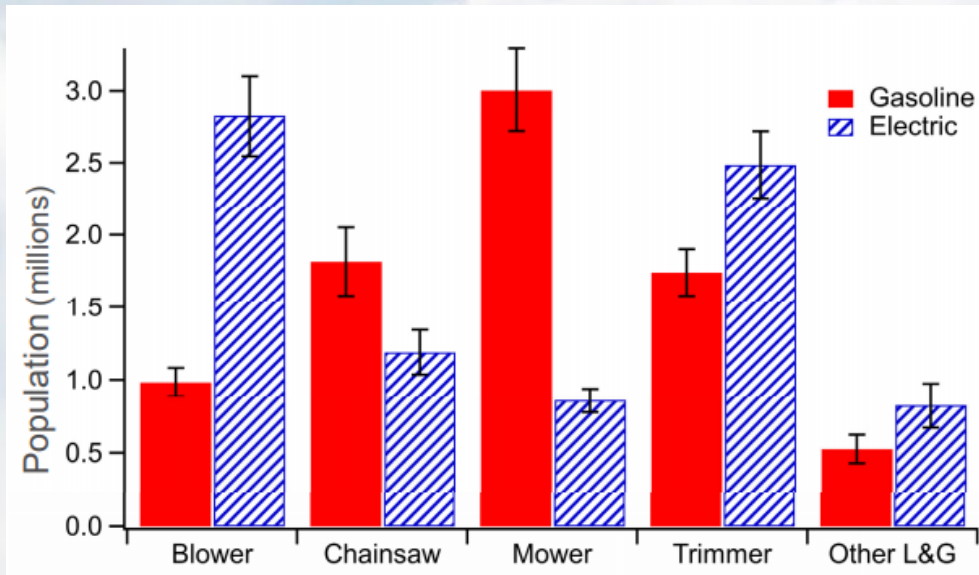
Smog-forming Emissions of Gasoline Landscape Equipment v. Passenger Car. (CARB, Small Engine Fact Sheet)



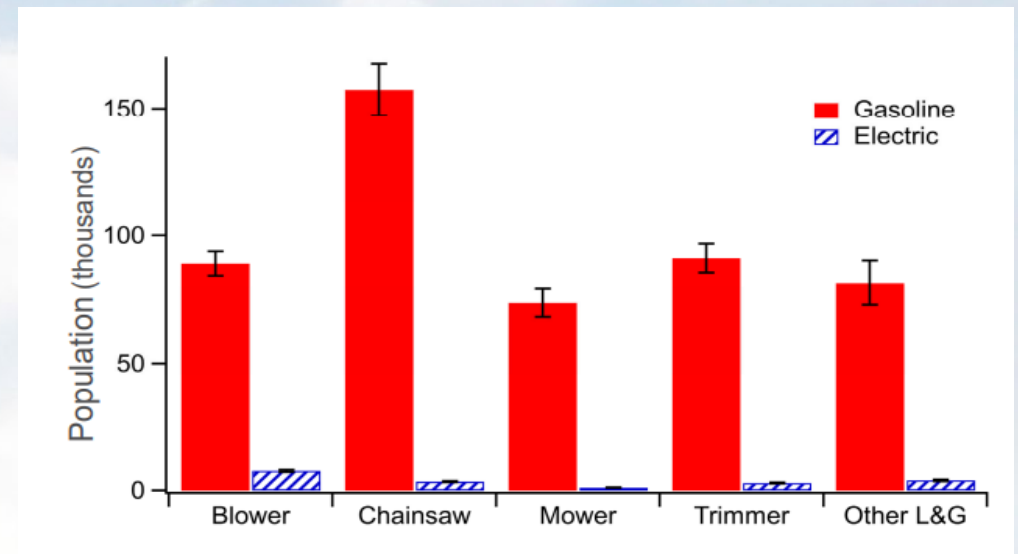
Smog-forming Emissions from SORE Expected to Surpass Passenger Cars Statewide in early 2020's. (CARB Workshop 9/26/19)

CARB Survey

- Household equipment already majority electric
- Low adoption rate of electric equipment for commercial landscape businesses



Household Use of Gasoline and Electric Landscape Equipment in California. Based on survey results conducted by CARB and the California State University Fullerton Social Science Research Center. Survey participants = 1,152.



Licensed Landscape Businesses Use of Gasoline and Electric Landscape Equipment in California. Based on survey results conducted by CARB and the California State University Fullerton Social Science Research Center. Survey participants = 1,350.

Success Story



- City of Ojai replaced entire fleet with electric equipment
- \$60,000 in funding for 25 pieces of equipment, 24 batteries, and 21 chargers
- Benefits:
 - 78 tons air pollutants per year averted
 - Less noise
 - No maintenance
 - Long-term cost savings

Pilot Program Goals



- Goals:
 - Improve public health by accelerating adoption ahead of regulatory requirements
 - Address the public's concern about emissions from gasoline- and diesel-powered landscape equipment
 - Pilot program to inform potential expanded program

Pilot Program Details

- Offer incentives via voucher
- Eligible entities:
 - commercial landscape businesses
 - public agencies with in-house landscape maintenance
 - public or private schools or school districts with in-house landscape maintenance
- Maximum voucher amount of \$10,000 per entity

Funding Amounts for Eligible Electric Equipment

		Voucher Amount
Equipment Type	Ride-on Mowers, Walk-behind Mowers, Leaf Blowers, Leaf Vacuums, Edgers, Trimmers, Chainsaws & Pole Saws	60% of purchase price
	Additional Batteries & Chargers*	100% of purchase price. Limited to one additional battery/charger per piece of equipment purchased

*Batteries and chargers must be for equipment purchased through the program

Pilot Program Details

- Process Flow for Applicant



- Education
 - Proper disposal of old equipment
 - How to operate leaf blowers to minimize air quality impacts



Recommendations

- Board Action: Adopt resolution that authorizes creation of the LEEF Pilot Program
- Upon Board action begin countywide outreach
 - Finalize application and outreach materials
 - Launch with press release and outreach to eligible entities
 - Begin accepting applications first week of March, 2020
 - Additional outreach planned as response warrants



Contact Information

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