

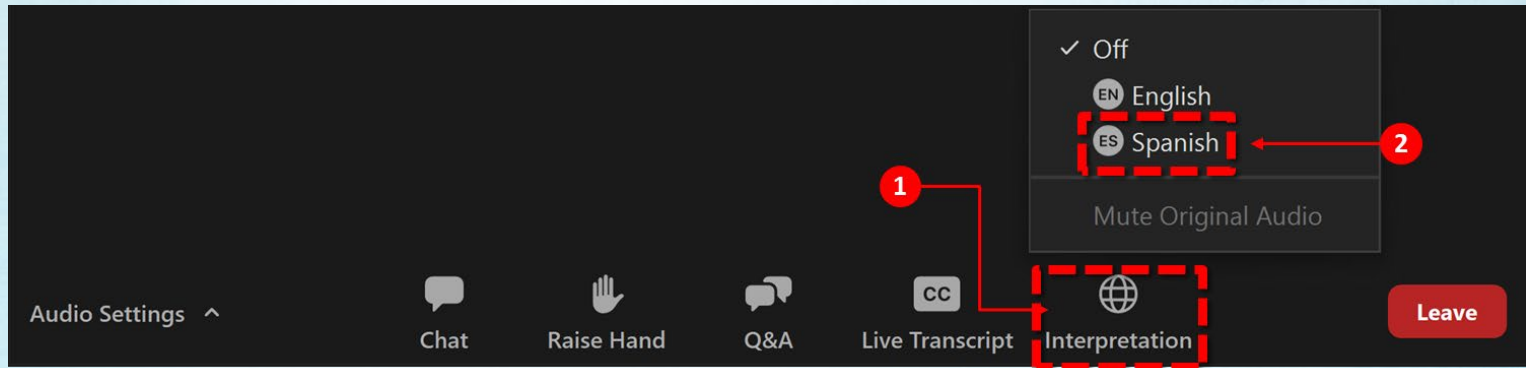


Landscaper Workgroup: Small Off-Road Engines

September 4, 2024

Language Access / Interpretación

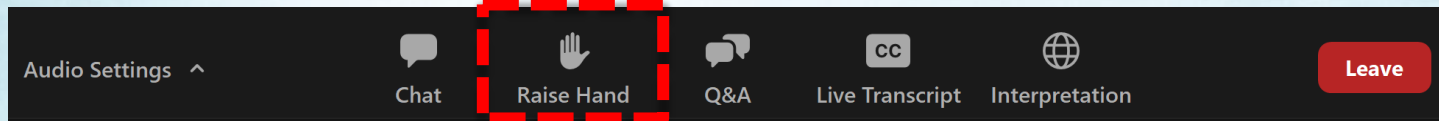
1. In your meeting/webinar controls, click **Interpretation**.
En los controles del reunión, marca **Interpretación**.
2. Click the language that you would like to hear.
Marca el idioma que le gustaría escuchar.
3. To only hear the interpreted language, click **Mute Original Audio**.
Para escuchar solo el idioma interpretado, silencia el **Audio Original**.



Zoom Orientation / *Orientación de Zoom*

Raise Hand

Levantar la Mano



Meeting Agenda

- Recap from previous meeting
- Status of the rules for landscape equipment
- Landscaper experiences with zero-emission equipment and incentives
- Power management system - TOWA
- Incentives and air district presentations
- Questions and answers

Recap from Previous Meeting

- Landscaper panel nominations
- Questions regarding further funding
- Electrical infrastructure
- Consumer use and small off-road engines or equipment (SORE)
- Request to increase meeting to 90 minutes

Small Off-Road Engines (SORE)

(Spark-ignition, ≤ 25 hp)



Rules Apply to Manufacturers

- Apply to new engines
- Certification required prior to sale
- No in-use requirements for equipment owners
- Owners may continue purchasing and using equipment



Zero-Emission Standards

Effective January 1, 2023

Equipment type	MY 2024-2027	MY 2028+
Most SORE	Zero	Zero
Pressure washers (≥ 225 cc) and portable generators	More stringent	Zero

- Manufacturers may continue producing some engines
- No restriction on sale of CARB-certified equipment

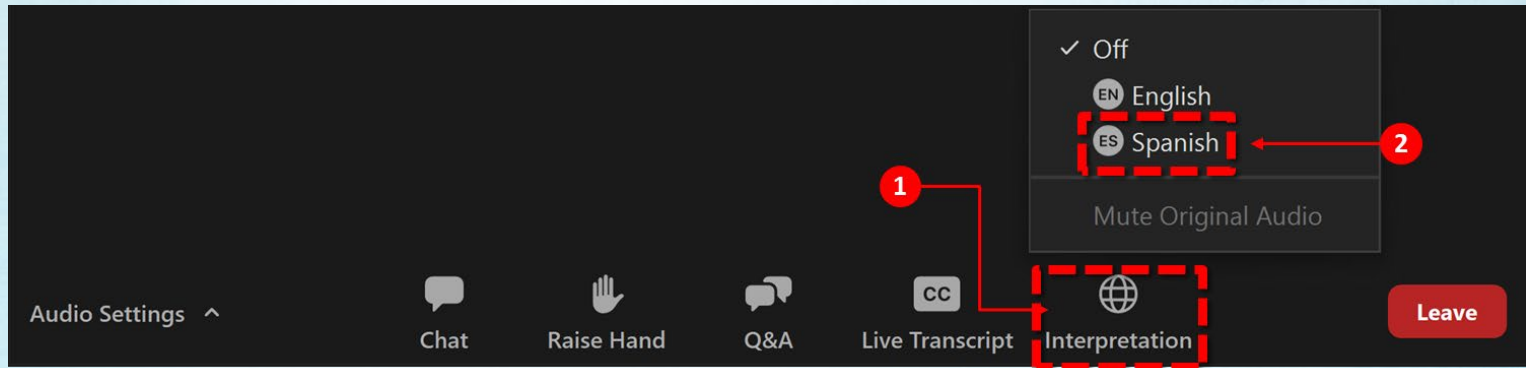
Tax Credits

- Promoting Reduction of Emissions Through Landscaping Equipment Act (HR 6013) – no change
- Commercial Clean Vehicle Credit – Lawn Mowers may qualify



Language Access / Interpretación

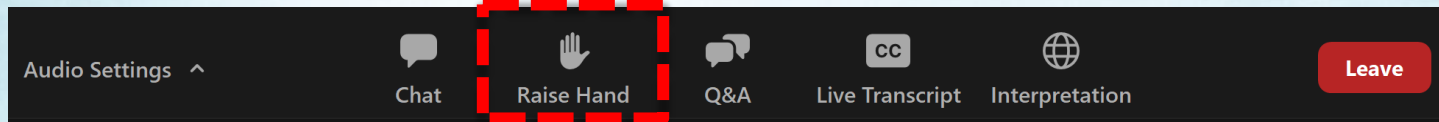
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Raise Hand

Levantar la Mano



Landscaper Experiences with ZEE

- Leslie Macias, Equipment Manager of Mission Landscape
- Erik Diaz, Owner of Alpine Landscape Maintenance
- Scott Godfrey, Executive Vice President of Operations - Stay Green

Landscaper Experiences with ZEE

- What are the benefits of using Zero-Emission Equipment (ZEE)?
- What are the challenges of using ZEE?
- What is your charging strategy for your batteries?
- What incentive program(s) have you used?

Power Management Products



TOWA Power Distribution Manager



EGO PGX Commercial Charging



Kress Commercial AC Power Management System



Greenworks ChargeLink System



Stihl CM 12 Charging Management

Power Management Products

- Future meetings may include additional presentations
- Seeking power management manufacturers to present, if interested email landscaper@arb.ca.gov

TOWA

- Richard Ogawa, CEO of Gardenland Power Equipment and Co-Founder and CEO of TOWA Industries

Zero Emission Equipment (ZEE) Landscaper Events

- The Landscape Expo – September 18 – 19, 2024, Anaheim, CA
- Norcal Landscape and Nursery Show – February 6, 2025, San Mateo, CA
- Gardenland – April 2025, Campbell, CA



Poll

How are you connected to the Landscape Industry?

- a. Professional Landscaper
- b. Manufacturer
- c. Residential User
- d. Equipment Dealer
- e. Other



Carl Moyer Lawn and Garden Incentives

Landscaper Workgroup Meeting
September 4, 2024

Carl Moyer Lawn & Garden Program

- Local air districts must have a program and may choose to have more stringent requirements
- Eligibility: Residents & Businesses
- Requirements: Scrap and replace with electric equivalent & 2 years of equipment ownership
 - Commercial – Own and operate equipment in California, and business license or employer identification number or personal or business tax identification number

Carl Moyer Lawn and Garden Program

Equipment	Max Residential Grant Amount	Max Commercial Grant Amount
Chainsaws/Trimmers/Edgers/Brushcutters	\$300	\$700
Leaf blowers/Vacuums	\$200	\$1,400
Walk Behind Mowers	\$330	\$1,500
Ride-on or Stand/Sit Mowers	\$2,000	\$15,000

Eligible purchases = Lawn and garden equipment + batteries and chargers up to max. Moyer funding cannot exceed total costs of items purchased.

Carl Moyer Resources

- Moyer Guidelines – [Chapter 9: Lawn and Garden Equipment Replacement \(ca.gov\)](#)
- Moyer Lawn and Garden Source Category Page – [Carl Moyer Program: Lawn and Garden Equipment Replacement | California Air Resources Board](#)

South Coast Air Quality Management District

Walter Shen,
Manager, Technology Advancement Office

Commercial Electric Lawn and Garden Equipment



Commercial *Electric* Lawn & Garden EQUIPMENT

Incentive & Exchange Program



Scrap/Replace Program

- Gas or diesel-powered commercial lawn and garden equipment with cordless, battery-powered equipment
- Voucher Process
(www.aqmd.gov/lawngarden)

Who is Eligible?

- Commercial Gardeners and Landscapers
- Government Agencies
- Schools, Colleges, and Universities
- Non-Profit Organization
- Private Entities with Full-Time In-House Gardening Staff

Contact: lawngarden@aqmd.gov

Equipment	Total Funding Cap* (Up to)
Chainsaws/Trimmers/ Edgers/Brush-Cutters	\$700
Leaf Blowers/Vacuums	\$1,400
Walk Behind Mowers	\$1,500
Ride-On or Stand-On Mowers	\$15,000

Sacramento Metro Air Quality Management District

Oliverio Barragan,
Air Quality Engineer, Mobile Sources Division

Charlene McGhee Memorial Lawn and Garden
Program

Charlene McGhee Memorial Lawn and Garden (L&G) Program

Landscaper Workgroup Meeting
September 4, 2024

Presented by Oliverio Barragan

SACRAMENTO METROPOLITAN



Sac Metro Air District

SACRAMENTO METROPOLITAN



Commercial Lawn and Garden Program Overview

Program Overview

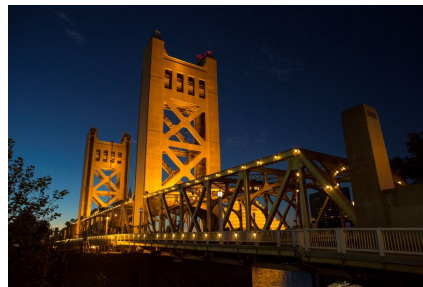
- Launched on April 15, 2024
- Funding to replace gas or diesel-powered CL&G equipment with battery-electric equipment
- \$1.6M in total funding
- Partnered with eleven (11) local merchants/dealers
- Applications approved on a first-come, first-served basis
- 15% cost share except for public entities and small businesses
- Funds can be stacked (e.g., CORE)
- We are still accepting applications!

Equipment Type	Max Voucher Amount*
Chainsaws, Trimmers, Edgers, etc.	\$700
Leaf Blowers & Vacuums	\$1,400
Walk Behind Lawn Mowers	\$1,500
Ride-on or Stand/Sit Mowers	\$15,000
*Total funding will be limited to \$50,000 per applicant	

Eligibility

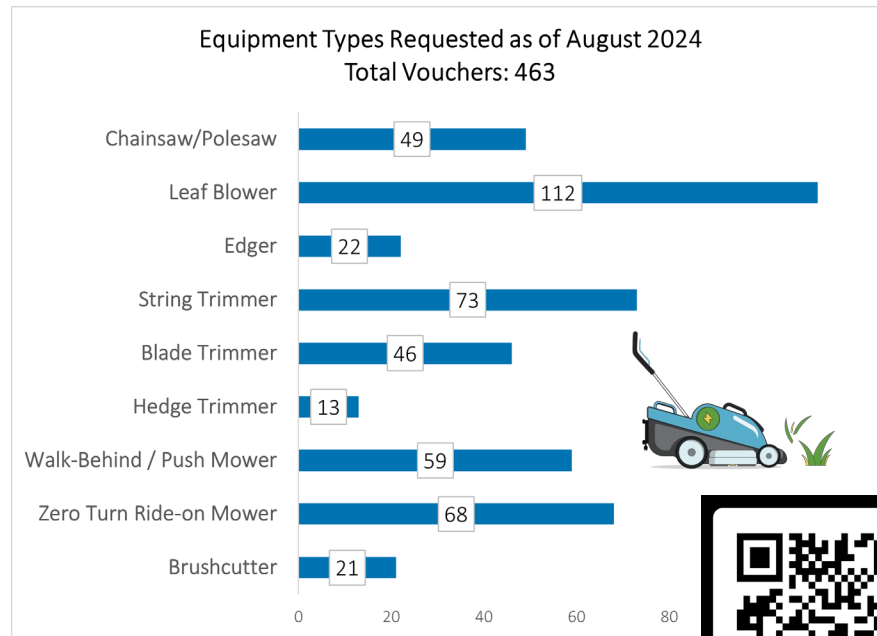
Requirements

- ☐ Businesses that provide landscape maintenance services for residential, commercial, institutional, and public properties
 - ☐ Public agencies and nonprofits that conduct commercial landscaping activities on their property
 - ☐ Entities that conduct forest management, land management, and fire hazard reduction activities
- ☐ Reside/Operate within Sac County
 - ☐ Own (min. 2 yrs.) operational gas or diesel-powered L&G equipment
 - ☐ Purchase new ZE L&G equipment
 - ☐ Own and operate new equipment in CA for a minimum of 36 months



Program Snapshot

- How to Apply:
 - Submit Online Application
 - Attach photos of existing operational equipment
 - Attach Business License or W-9
- Program Snapshot:
 - \$1.3M allocated to L&G projects
 - Word is spreading fast
 - Residential program next



Apply Now: <https://www.airquality.org/Residents/Incentive-Programs/Commercial-Lawn-and-Garden-Program>

Questions

Contact:
lawn@airquality.org

San Joaquin Valley Air Pollution Control District

Stephanie Hitchman,
Senior Air Quality Specialist, Strategies and Incentives

Zero-Emission Landscaping Equipment Voucher
Program

Zero-Emission Landscaping Equipment Voucher Program Overview

- **Eligible Entities**

- Business Entities: Landscape businesses providing services to residential neighborhoods, business locations and other communities, or businesses and non-profit organizations that provide commercial scale maintenance in-house
- Public Agencies: Cities, special districts, municipalities, school districts, etc., that provide commercial scale landscape maintenance in-house

- **Entity Requirements**

- Must be located within and conduct 100% of its landscape maintenance operations within the geographic area of the San Joaquin Valley Air Basin
- Currently use gas or diesel-powered commercial landscape equipment in daily operations
- Have owned and operated their old equipment for the past two years

Funding Levels

EQUIPMENT TYPE	MAXIMUM AMOUNT PER EQUIPMENT
<i>Edgers, String Trimmers, Hedge Trimmers, Chainsaws, Pole Saws and Brushcutters</i>	Up to \$700
<i>Leaf Blowers and Vacuums</i>	Up to \$1,400
<i>Walk-behind Mowers</i>	Up to \$1,500
<i>Ride-on/Stand-ride Mowers</i>	Up to \$15,000
<i>Additional Batteries and Chargers (for public schools in selected AB 617 Communities of Shafter, South Central Fresno, Arvin/Lamont and Stockton only)</i>	100% of purchase price for up to two (2) batteries and one (1) charger per piece of equipment purchased

*Applicants that are not small businesses or public agencies must pay a minimum 15% cost share of eligible costs.
Maximum funding amount may be reduced to ensure 15% cost share requirement is met.*

** Additional batteries and chargers acquired as part of the new equipment purchase may be included in the total eligible costs.*

Eligible Equipment

- **Old Equipment Must Be**

- Eligible type of gas or diesel-powered landscape maintenance equipment
 - Edgers, String Trimmers, Hedge Trimmers, Chainsaws, Pole Saws, Brushcutters, Leaf Blowers and Vacuums, Walk-behind Mowers, Ride-on/Stand-ride Mowers
- Used in daily operations
- Taken to a program-participating dismantling facility for destruction

- **New Eligible Electric Equipment Must Be**

- Same type of equipment as the old
 - Replacement of old equipment is required to be like-for-like and one-for-one
- Purchased from a manufacturer-authorized retailer or dealer
- Electric, battery-powered
- New, not previously owned or used
- Purchased with a power head

Program Process

- **STEP 1**: Submit a completed application form along with required supporting documentation:
 - W-9
 - Businesses - Business license covering past 24 months
 - Public Agencies - Signing authority authorization letter
- **STEP 2**: Receive a Voucher and Claim for Payment Form from the District
 - Voucher will show equipment type, execution and expiration dates and voucher amount

Program Process

- **STEP 3**: Purchase your new electric equipment, and destroy your old equipment within 30 days of new equipment purchase
 - Purchase new equipment within voucher execution and expiration dates
 - Purchases must be from a manufacturer authorized retailer or dealership. This information can be verified on a manufacturer's website.
 - Take old equipment to a participating dismantling facility and obtain a Destruction Verification Form (DVF)

Program Process

- **STEP 4**: Submit a Claim for Payment Packet for reimbursement within 30 days from the purchase date of the new equipment, which includes:
 - Claim for Payment Form
 - Signed Voucher
 - Destruction Verification Form (DVF)
 - Copy of sales invoice or receipt for new equipment, batteries and chargers purchased
- **STEP 5**: Own and operate your new equipment for a minimum of 36 months from the date of purchase

Contact Information

San Joaquin Valley Air District Grants & Incentives Department

Phone Number: 559-230-5800

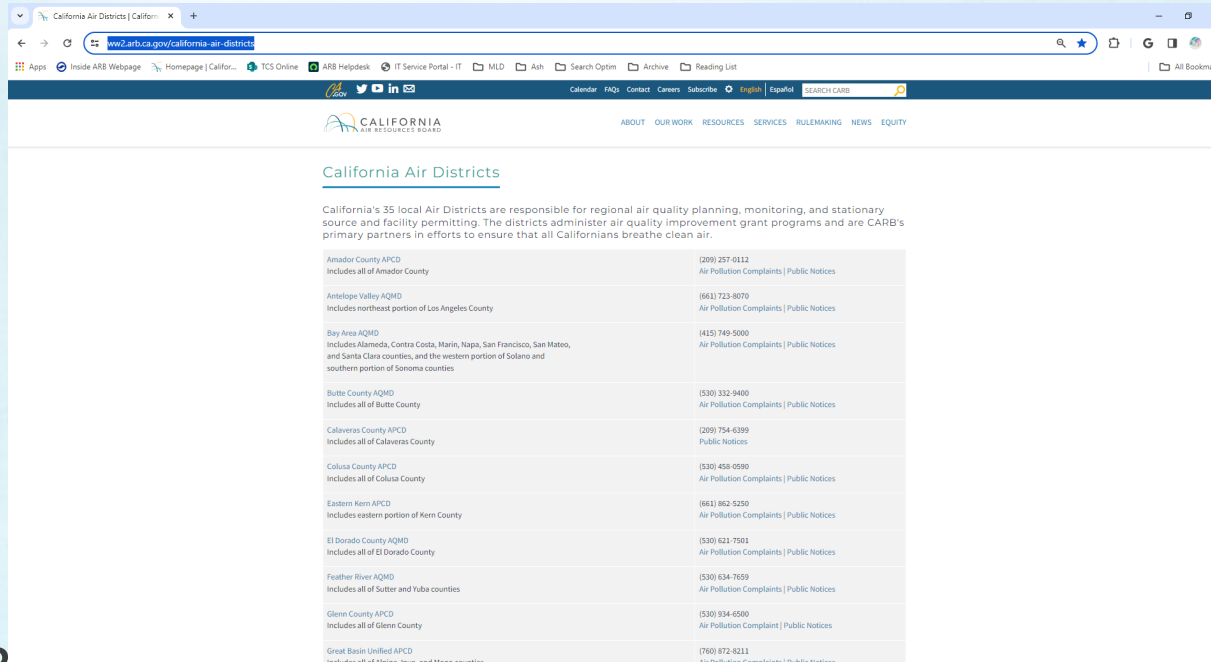
Fax: 559-230-6112

Email: grants@valleyair.org

ZELE Program Website: www.grants@valleyair.org/ZELE

How to find your Air District

- <https://ww2.arb.ca.gov/california-air-districts>

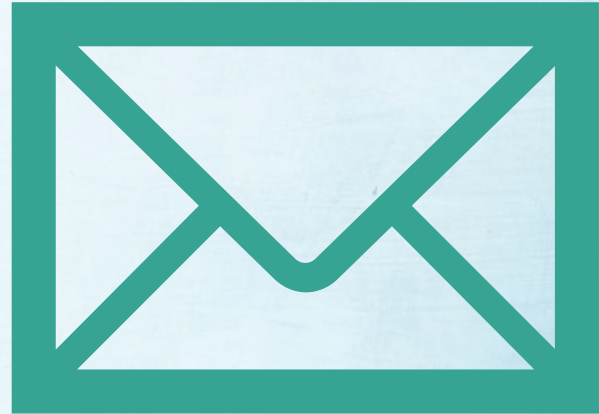


The screenshot shows the CARB website's 'California Air Districts' page. It features a navigation bar with links like 'Calendar', 'FAQs', 'Contact', 'Careers', 'Subscribe', 'English', and 'Español'. Below the header, the page title 'California Air Districts' is followed by a paragraph explaining that California's 35 local Air Districts are responsible for regional air quality planning, monitoring, and stationary source and facility permitting. The main content is a table listing the districts.

Air District	Phone Number	Public Notices
Amador County APCD Includes all of Amador County	(209) 257-0112	Air Pollution Complaints Public Notices
Antelope Valley AQMD Includes northeast portion of Los Angeles County	(661) 723-8070	Air Pollution Complaints Public Notices
Bay Area AQMD Includes Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara counties, and the western portion of Solano and southern portion of Sonoma counties	(415) 749-5000	Air Pollution Complaints Public Notices
Butte County AQMD Includes all of Butte County	(530) 332-9400	Air Pollution Complaints Public Notices
Calaveras County APCD Includes all of Calaveras County	(209) 754-6399	Public Notices
Colusa County APCD Includes all of Colusa County	(530) 458-0590	Air Pollution Complaints Public Notices
Eastern Kern APCD Includes eastern portion of Kern County	(661) 862-5250	Air Pollution Complaints Public Notices
El Dorado County AQMD Includes all of El Dorado County	(530) 623-7501	Air Pollution Complaints Public Notices
Feather River AQMD Includes all of Sutter and Yuba counties	(530) 634-7659	Air Pollution Complaints Public Notices
Glen County APCD Includes all of Glenn County	(530) 934-6500	Air Pollution Complaints Public Notices
Great Basin Unified APCD Includes all of Alpine, Inyo, and Mono counties	(760) 872-8211	Air Pollution Complaints Public Notices

Outreach

- Email invitations through GovDelivery
- Postcard invitations
- Flyers
- Ideas and suggestions?



Request for Meeting Topics

- Please share topics you would like in future workgroups
- Seeking power management manufacturers to present

landscaper@arb.ca.gov

Contacts

- Landscaper workgroup – landscaper@arb.ca.gov
- Small off-road engine rules – sore@arb.ca.gov
- Carl Moyer – Joshua Simmons
Joshua.Simmons@arb.ca.gov

Next Workgroup Meeting

The Next Workgroup Meeting will be held

October 23, 2024