

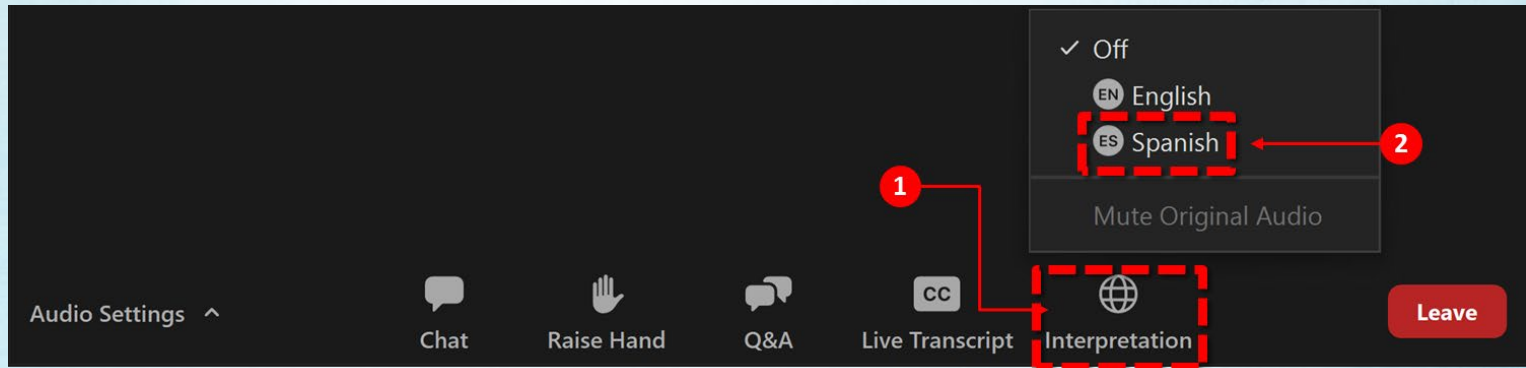


Landscaper Workgroup: Small Off-Road Engines

February 21, 2024

Language Access / Interpretación

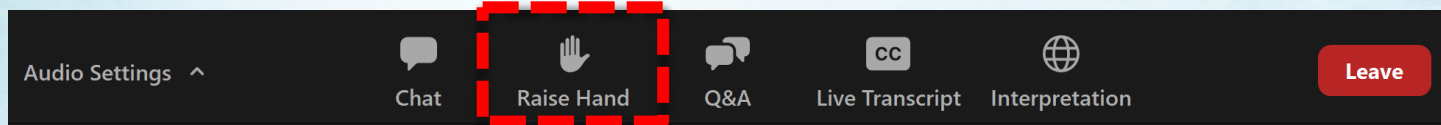
1. In your meeting/webinar controls, click **Interpretation**.
En los controles del reunión, marca **Interpretación**.
2. Click the language that you would like to hear.
Marca el idioma que le gustaría escuchar.
3. To only hear the interpreted language, click **Mute Original Audio**.
Para escuchar solo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



Zoom Orientation / *Orientación de Zoom*

Raise Hand

Levantar la Mano



Meeting Agenda

- Introduction
- Recap from previous meeting
- Status of the rules for landscape equipment
- Incentive funding for electric landscape equipment
- Forming a panel of landscapers for future workgroup meetings
- Questions

Recap from Previous Meeting

- Landscaper panel nominations
- Questions regarding further funding
- Alternatives to Gasoline-fueled Generators
- Consumer Use and small off-road engines or equipment (SORE)

Landscaper Workgroup - Introduction

- Opportunity for landscapers and California Air Resources Board (CARB) staff to discuss
 - Rules for landscape equipment
 - Incentive funding for electric landscape equipment
 - Landscapers' questions
- Ensure landscapers are informed of changes and opportunities
 - Meet four times per year

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



Updated Rules

(Effective January 1, 2023)



- Transition new production to zero emissions in two phases
- Manufacturers may continue producing some engines
- Do not prohibit sale of CARB-certified equipment

Transition to Zero Emissions: Phase 1 Model Years 2024-2027

- Emission standards of zero for most engines
- More stringent emission standards for pressure washers ≥ 225 cc and portable generators
- Products available in stores will change over time
- Certified engines may be purchased as long as they are available

Transition to Zero Emissions: Phase 2 MY 2028+

- Emission standards of zero for all engines, including pressure washers and portable generators
- Manufacturers may produce some engines through model year 2032
- Certified engines may be purchased as long as they are available

Proposed Federal Tax Credit

- *Promoting Reduction of Emissions Through Landscaping Equipment Act (HR 6013)*
 - Introduced by Rep. Correa, October 2023
 - 40% tax credit on ZEE purchases
 - All businesses eligible
 - Up to \$25,000 per year
 - Up to \$100,000 in 10 consecutive years



Commercial Clean Vehicle Credit

Inflation Reduction Act

- 30% credit per mower
- Sales made between 2023 to 2032.
- Max credit: \$7,500
- GVWR: under 14,000lbs.
- Battery capacity > 7 kilowatt hours

<https://www.irs.gov/credits-deductions/commercial-clean-vehicle-credit>



Summary

- SORE rules apply to manufacturers
- Updated rules became effective January 1, 2023
- Transition to zero emissions in two phases





Carl Moyer Lawn and Garden Incentives

Landscaper Workgroup Meeting
02/21/24

Carl Moyer Lawn & Garden Program

- Local air districts must have a program and can 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](#)

Outreach

- Email invitations through GovDelivery
 - CARB mailing lists
 - Environmental Justice blog
 - Trade associations
- Postcard invitations
 - Employment Development Department database
 - Contractors State License Board C-27 landscape contractors
 - Landscaping businesses licensed in cities and counties
- Flyers
 - Landscape expos
 - Business associations and events
 - Landscape equipment dealers
- Ideas and suggestions?

Forming a Panel of Landscapers: Proposal

- Panel discussion in each landscaper workgroup meeting
 - Panelists' experiences with electric landscape equipment
 - Panelists' experiences with incentives
 - Questions from landscapers
- Representation of small, medium and large landscaping businesses

Landscaper Panel: Panelists

6 Sole
proprietors



3 from
businesses
with 1
crew



3 from
businesses
with 2 or
more
crews



12
Panelists

- Nominate potential panelists
 - Include business size
 - Describe experience with electric landscape equipment, incentives
 - Send to landscaper@arb.ca.gov

Landscaper Panel Update

- 4 Panelist nominations received to date
- Nominations include
 - Sole proprietor
 - Businesses with 1 crew
 - Businesses with 2 or more crews

Sharing by Inclusive Action for the City

- Chih-Wei Hsu

Questions

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

May 22, 2024