



MONTEREY BAY AIR RESOURCES DISTRICT ADVISORY COMMITTEE MEETING

JANET BRENNAN, CHAIR

THURSDAY, August 3, 2023 – 1:30 P.M.

24580 Silver Cloud Court, Monterey, CA – Boardroom

REMOTE MEETING OPTION FOR PUBLIC

Link to meeting: <https://us02web.zoom.us/j/87513509373>

Webinar ID: 875 1350 9373

By Phone (audio only, Webinar ID required): 1-669-900-6833

Members of the public that wish to participate in the hearing may do so by joining the Zoom Webinar ID or in-person at 24580 Silver Cloud Ct. Monterey. Should you have any questions, please contact Sirie Thongchua, Executive Assistant, at (831) 718-8028 or by email at sirie@mbard.org.

To Provide Public Comment via Zoom teleconference/video conference: During the meeting live, verbal public comments may be made by members of the public joining the meeting via Zoom. Zoom access information is provided above. Use the “raise hand” feature (for those joining by phone, press *9 to “raise hand”) during the public comment period for the agenda item you wish to address. Members of the public participating via Zoom will be muted during the proceedings and may be unmuted to speak during public comment after requesting and receiving recognition by the Chair. Please clearly state your full name for the record at the start of your public comment.

Before the Meeting: Persons who wish to address the Advisory Committee for public comment of an item not on the agenda are encouraged to submit comments in writing to Sirie Thongchua, Executive Assistant, at sirie@mbard.org by 5:00 p.m. on Tuesday, August 1, 2023. Comments received will be distributed to the Advisory Committee prior to the meeting.

SUMMARY OF ACTIONS

1. Call to Order – **The meeting was called to order by Chair Brennan at 1:38 p.m.**
2. Roll Call - **Present:** Janet Brennan, Zane Hatchett, Bob Smith, Allen Stroh, Caitlyn Turley. **Absent:** Sandy Coplin, Matthew McCluney, Scott Storm, Sandy Swint. **Allen Stroh arrived late. Roll Call was taken at 2:13 p.m.**
3. Changes to the Agenda – The presentation for Agenda Item #6 began at 1:40 p.m. before Roll Call.
4. Public Comment Period – **None.**
5. **Accepted** and **Filed** Summary of Actions for the Advisory Committee Meeting of April 6, 2023
Action: Accepted and filed by consensus.
6. **Received** Presentation on the 2023-24 Lawn and Garden Equipment Replacement Program and **Provided** Comments and Recommendations for the Board of Directors' Consideration
7. **Received** Presentation on the 2023-24 Woodstove Stove Change Out Program and **Provided** Comments and Recommendations for the Board of Directors' Consideration
8. **Received** Presentation on Modification of the Advisory Committee Meeting Schedule Revised for Calendar Year 2023 and Calendar Year 2024 per Attached Schedules
Action: Received the presentation; no action taken.
9. **Received** Monthly Oral Report from Air Pollution Control Officer **Richard Stedman, APCO, reported on the following:**
Board Meetings
April 19, 2023
Held first of two public hearings:
 - Budget
 - Fee Regulation**May 17, 2013 Board Meeting**
Held offsite board and management retreat
June 21, 2023 Board Meeting
Held second public hearings:
 - Budget
 - Fee Regulation

- The budget and fee regulations were adopted unanimously by the board.

District Business

- Replacement office roof project completed.
- Held our staff training retreat on June 9th at the Marina library. The theme was communication. The retreat was very productive and informative, a great success.
- The roof project is essentially completed. There remain a few minor items to finish up, but the contractor is waiting for better weather.
- New employee in Administration:
 - Senior Fiscal Assistant Pornmanus (PON-MA-NUSS) Saetae (Saa-Taa) or Ice!

Engineering

- MBARD filled its last open inspector position opening. Tyler Patel joined MBARD's Compliance team as an Air Quality Compliance Inspector I on May 1st. Tyler has a B.S. in Environmental Engineering from the University of California, Merced. He has over eight years of experience in academic research, remediation, and environmental consulting firms. Tyler is assigned as the primary inspector for the South Monterey County geographic area.
- The 30-day public comment period recently ended for the Calpine King City Title V Permit Renewal so we can move forward with issuing the permit. A Title V permit is a federal permit for the largest emitting sources which renews on a five-year basis. The Calpine King City facility consists of two power plants on adjacent properties, a 120 MegaWatt Cogeneration plant located at 750 Metz Road and a 50 MegaWatt Peaker plant located at 51 Don Bates Way.
- On June 13, 2023, the Hearing Board met to review a variance request from the University of California, Santa Cruz (UCSC). UCSC requested the ability to operate seven of their emergency natural gas generators for a planned power outage to repair and replace two switches. The Hearing Board approved the variance request. Don't forget, we still have two open positions on the Board, a registered engineer and a medical professional. If you have someone in mind, the application can be found on our website.
- On March 10, the MBARD Hearing Board denied a variance for Rule 426 Architectural Coatings. The petitioner requested to use more gallons per day of a photovoltaic coating than was allowed under the rule. The Hearing Board was unable to make the findings required to approve a variance.
- On March 22, we met with a company called Booster which offers mobile gasoline fuel delivery. We discussed options to permit their equipment to allow them to operate within our jurisdiction.

- MBARD issued an Authority to Construct for a pilot pyrolysis unit located at the ReGen Monterey facility. The unit will receive wood chips from Keith Day's operation and turn the wood chips into biochar which can be used in agricultural operations to enhance soil. It is anticipated this will be a one-year pilot project. We recently received a letter of thanks for our assistance in getting their permit done so expeditiously. Of course, these thanks go to Armando Jimenez for his permit work on this novel project.

Compliance

- We are happy to announce that Kara Hall, who was an Air Quality Technician, has been promoted to Air Quality Inspector I. Kara started with the Compliance Team on April 3 and hit the ground running by passing her visible emissions test that very first week.
- Recently, we have received an increase in complaints about 'chemtrails'. Callers refer to airplanes or jets spraying chemicals into the atmosphere creating adverse health impacts.
 - We refer to these white line-shaped clouds as "contrails" or "condensation trails," which are composed of ice particles and are visible behind jet aircraft engines, typically at cruise altitudes in the upper atmosphere. The combination of water vapor in aircraft engine exhaust and the low ambient temperatures that often exists at these high altitudes allows the formation of contrails. The ice particles in contrails do not reach the Earth's surface because they fall slowly and conditions in the lower atmosphere cause ice particles to evaporate. According to the US EPA's analysis of meteorological data and on assumptions about future air traffic growth and technological advances, persistent contrail cover is expected to increase between 2000 and the year 2050.
- MBARD received 2 complaints in May regarding odors from the Marina landfill and other sources. We understand that an odor study is being conducted by Marna, but we've been kept out of the loop. No odor complaints were received in the prior two months.

Planning and Air Monitoring

- The Diesel Engine and Equipment Replacement Program application period ended on March 24. The program uses State grant funds, including Moyer and FARMER programs, for replacing higher polluting diesel equipment with cleaner burning models as found in marine vessels, tractors, and other off-road equipment. Staff are now evaluating applications for potential projects. A list of all evaluated projects and their funding order (rank) will be published this summer.

- Planning Staff held two workshops in March, in Marina and Watsonville, seeking input on incentive projects for the Community Air Protection Program. The majority of CAPP funds are required to be distributed to projects in disadvantaged communities and low-income areas. Two more workshops that were originally scheduled in May were rescheduled for July, in Salinas and online.
- Camp Roberts will attempt to conduct annual burns of the interior gunnery ranges in April and May. The purpose of the series of prescribed burns is to prevent wildfires that can be ignited during live fire training. About 9,000 acres of grassland are expected to burn at the Monterey County/San Luis Obispo County border. MBARD staff has been coordinating with SLO County APCD to avoid authorizing burns that could cause smoke impacts in San Miguel and Paso Robles.
- MBARD bid farewell to our friend and colleague, Bill Chevalier, who retired in July. Bill has been at MBARD for the past 17 years and has served as the Air Monitoring Supervisor for the past 13 years. Bill will be enjoying his retirement lifestyle on the east coast. Congratulations to Bill.
- Bill will be replaced by Shawn Boyle as the newly hired Planning and Air Monitoring Supervisor. Shawn has worked for MBARD for the past 14 years as an AQ Compliance Inspector, leading the asbestos program for the past 5 years. Prior to his employment at MBARD, he worked for an environmental consulting firm conducting asbestos surveys and consulting on abatement projects. Welcome to Shawn as he begins his new journey into Planning and Air Monitoring.

Community Outreach Highlights

- Community Air Protection Program Community Workshops – July 18 Salinas, July 19 Online: print ads, Monterey County Weekly digital ads, Facebook, Twitter, Instagram, YouTube, website, press releases in English and Spanish, and iHeart Media’s Spanish radio and digital ads.
- Electric Vehicle Incentive Program and Electric Bicycle Incentive Program FY 2023-24 ongoing publicity until funds run out: print ads, Facebook, Twitter, Instagram, KPIG radio, KAZU radio, website.
- Updates to MBARD Social Media Accounts:
 - Added a new member to MBARD’s social media team - Matt Bard, IT Help Desk, email mbard@mbard.org, to link to all MBARD social media accounts.
 - MBARD Facebook Account: Matt Bard is the new primary Administrator.
 - MBARD Threads Account: launched Threads account. “Threads” is a new affiliate of Facebook and Instagram. “Threads” is competing with “X” (formerly Twitter).

- MBARD LinkedIn Company Page: Matt Bard is in the process of claiming MBARD's Company LinkedIn page with his new LinkedIn profile.
- Begin research on MBARD 50th Anniversary logo design ideas.
- July 1 E-Newsletter delayed: The e-newsletter is currently in production and will be published in English and Spanish in mid-August.
- The [MBARD Budget Fiscal Year 2023-2024](#) is posted on the website. Printed budget booklets are available upon request.

10. Future Agenda Items – **None.**

11. Chairman's Comments – **None.**

12. Comments from Committee Members – **None.**

13. Order for Adjournment – **The meeting adjourned at 2:59 p.m.**

Sirie Thongchua
Executive Assistant

Lawn & Garden Equipment Replacement Program





Advisory Committee Presentation
August 3rd, 2023
Eli Lessman, Air Quality Planner I

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Background

- > 1990's, 1st regulations for small off-road engines (SORE)
- > Executive Order N-79-20
 - 100% zero emissions from off-road equipment in CA by 2035
- > Assembly Bill 1346 regulates SORE in CA.
 - Phase I – SORE produced on and after January 1, 2024, to be ZE
 - Phase II – generators and large pressure washers

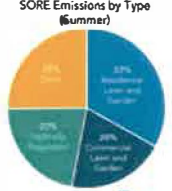



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Small Off-Road Engines


engines rated at or below 19 kilowatts (25 hp)

SORE Emissions by Type (Summer)




- > 15.4 million SORE in California
 - 61% – Residential L&GE
 - 8% – Commercial L&GE
 - 31% – Other equipment types

Commercial L&GE accounts for 20% of smog-forming emissions from SORE during the Summer.




3

Sources of Emissions





During operation:
Exhaust and evaporative



During storage:
Evaporative

Spilling during refueling:
Water and Evaporative

4

SORE vs. Light-Duty Passenger Cars



1 hour lawn mower use

=



driving 300 miles from LA to Vegas



1 hour leaf blower use

=

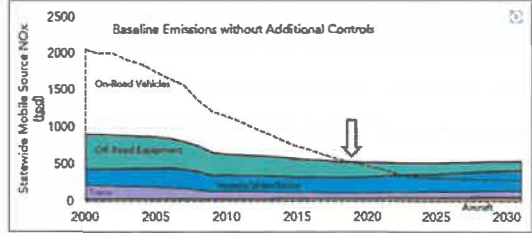


driving 1100 miles from LA to Denver



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SORE vs. Light-Duty Passenger Cars



Baseline Emissions without Additional Controls


On-Road Vehicles

Oil Field Equipment

Statewide Mobile Source NOx (tgd)

2000 2005 2010 2015 2020 2025 2030

> Emissions projected to be nearly twice those from passenger cars.



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Lawn & Garden Funding: Moyer Year 24

- **Statewide: \$24.7 million**
- **MBARD: \$360,000**
 - \$315,000 in Project Funds
 - \$45,000 for Implementation



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MBARD Program Options

- Residential Program
- Drop-off event
 - Participant leaves old equipment and gets new, zero-emission equipment
- Establish Voucher Program with Retailers/Manufacturers
 - Professional Services Agreement with MBARD
 - Retailer recycles old equipment and provides new, zero-emission equipment
- Rebate program
 - Drop off equipment for scrapping – receive authorization to purchase equipment
 - Submit purchase records
- Grant amounts:
 - Percentage of purchase price
 - Suggest 80%
 - But no more than the Moyer Program funding limits




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Eligibility & Funding

- Carl Moyer Guidelines:
Chapter 9 Funding Amounts

Table 9-1
Maximum Eligible Funding Amounts
(Dollars)

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



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Program Considerations/Options


- Commercial Program
- Retailer/Manufacturer - Professional Services Agreement with MBARD
 - Scrapping the old equipment
 - Delivers new, zero-emission equipment
- Funding focus on schools and public agencies



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Allocate Funding

- Total Project funds = \$315,000
 - Residential Allocation - \$100,000
 - Commercial Allocation - \$215,000
 - ~2:1 or different ratio?



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Commercial L&GE



















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Questions & Discussion



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WOOD STOVE CHANGE-OUT PROGRAM 2023-2024



Sponsored by:






Edward Ballarón, Air Quality Planner • Advisory Committee

1

PURPOSE: GHG Reduction (Co-benefit – Wood Smoke Reduction)

Wood Smoke Contains:

- Carbon Monoxide
- Nitrogen Oxides
- Volatile Organic Compounds
- Particulate Matter (PM2.5 & PM10)
 - PM2.5 – wood smoke

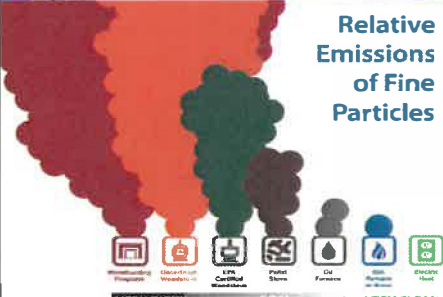



From Air Resources Board's Wood Burning Handbook

2023-2024 Wood Stove Change-Out Program

2

Relative Emissions of Fine Particles



HEATING EFFICIENCY	
Masonry Fireplace	~10% to 10%
Manufactured Fireplace	~10% to 10%
Free-standing Fireplace	~10% to 30%
Antique Stove	20% to 40%
Fireplace Insert	30% to 50%
Airtight Stove	40% to 80%
Certified Stoves, Inserts, Fireplaces	60% to 80%
Gas Heater	80% to 90%
Pellet Stove	70% to 90%
Electric Fireplace	100%

VERY DIRTY

100 lbs. of annual particulate

100 lbs. of annual particulate

100 lbs. of annual particulate

GOAL

VERY CLEAN

10 lbs. of annual particulate

10 lbs. of annual particulate

10 lbs. of annual particulate

2023-2024 Wood Stove Change-Out Program

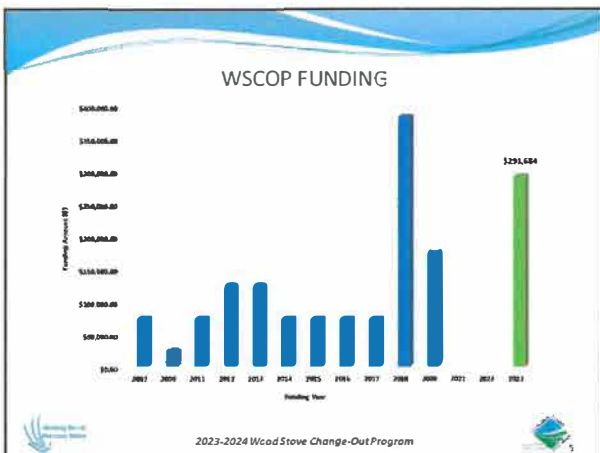
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2023-2024 WOODSTOVE CHANGE OUT PROGRAM (WSCOP)

- **Assembly Bill 1613**
 - Waste Heat and Carbon Reduction Act
- **Senate Bill 563**
 - Established the Woodsmoke Reduction Program
 - California Air Resources Board
- **\$5M Cap-and-Trade dollars**
 - GHG emission reduction
 - Reduce smoke
 - Improve public health
 - Investments in Disadvantaged Communities (DAC)
 - Strengthening of local economy

2023-2024 Wood Stove Change-Out Program


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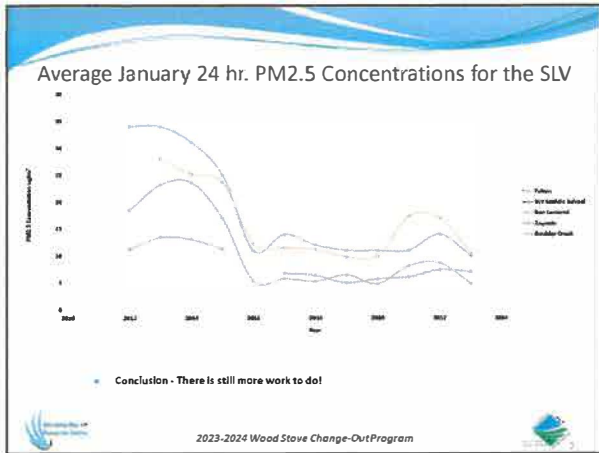
Targeted Approach

- WSCOP funds available district wide
- Recent years → Targeted approach
 - Recognition SLV has a woodsmoke issue
 - Focus by MBARD Planning staff to facilitate change outs in our SSAs
 - Disadvantaged Communities



2023-2024 Wood Stove Change-Out Program

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2023-2024 Program

- \$291K in Funding - \$263K for Change Outs & 27K for Implementation
- Goal of directing 75% of funds to DACs
- Incentive Program = Rebates → Projects Reimbursed after completion
 - Homeowner incurs cost of change out
 - Eliminates immediate financial responsibility for MBARD
- Streamlined Administration using On-Line Document Management System
 - Woodstove Change Out Program Webpage- Access to LASERFICHE form
 - Applicant can upload documents
 - Receive notifications and project updates

Less Admin Work


2023-2024 Wood Stove Change-Out Program

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QUALIFICATIONS

Applicant must be:

- The **Homeowner** with:
 - an Open-Hearth Fireplace or
 - Uncertified Woodstove or Wood Insert
 - Device manufactured prior to July 1, 1988
 - Device is not listed on U.S. EPA list of Certified Wood Heaters
 - Device which does not have any label describing particulate emission standards
 - Device must be operational
 - Used as a Primary Source of Heat



2023-2024 Wood Stove Change-Out Program

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QUALIFYING REPLACEMENT DEVICES

- Electric stove heaters
- Electric heat pumps
- Wood pellet stoves
- Hybrid wood stoves
- Catalytic/Non-Catalytic wood stoves

State of Alaska's qualified list

> NATURAL GAS AND PROPANE NO LONGER ALLOWED <



2023-2024 Wood Stove Change-Out Program

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2023-2024 INCENTIVES

- Incentives:
 - \$1,000 – Wood to cleaner wood or pellet
 - \$2,000 – Wood to electric device
- Goal: 75% of project funds for DACs
 - \$500 – Additional incentives for projects in DACs

WE ARE OPEN TO ADJUSTING THESE INCENTIVE AMOUNTS WITH YOUR GUIDANCE

2023-2024 Wood Stove Change-Out Program

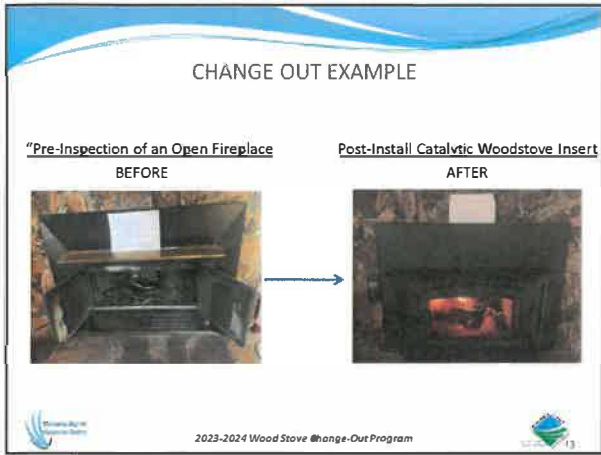
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PROGRAM LIMITATIONS

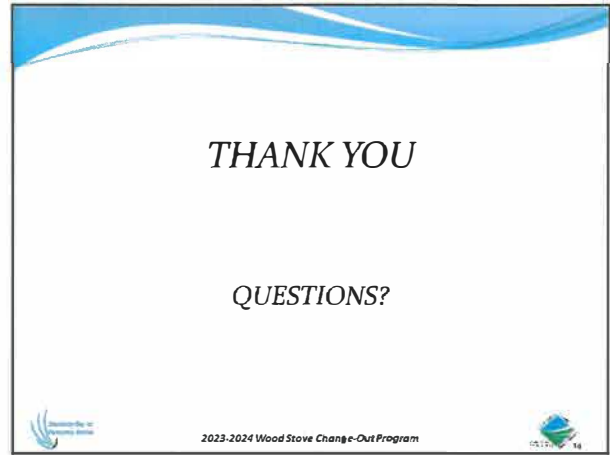
- One Incentive per Household
- Previous Grant Recipients are **NOT ELIGIBLE**
- If replacement is ductless mini split heat pump:
 - may retain the old wood burning device for power outages.
 - Approval on case-by-case basis
 - Sign an agreement to use their old device only in case of a power outage.

2023-2024 Wood Stove Change-Out Program

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