



# South Coast Air Quality Management District



21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • www.aqmd.gov

## **LOCAL GOVERNMENT & SMALL BUSINESS ASSISTANCE ADVISORY GROUP MEETING**

### **Advisory Group Members**

Council Member Ben Benoit, LGSBA Chairman (Board Member)  
Supervisor V. Manuel Perez (Board Member)  
Supervisor Janice Rutherford (Board Member)  
Felipe Aguirre  
Mayor Pro Tempore Rachele Arizmendi, City of Sierra Madre  
Paul Avila, P.B.A. & Associates  
Geoffrey Blake, Metal Finishers of Southern California  
Todd Campbell, Clean Energy  
LaVaughn Daniel, DancoEN  
John DeWitt, JE DeWitt, Inc.  
Bill LaMarr, California Small Business Alliance  
Rita Loof, RadTech International  
Eddie Marquez, Roofing Contractors Association  
David Rothbart, Los Angeles County Sanitation Districts

**Friday, February 14, 2020 ♦ 11:30 a.m. ♦ Conference Room GB  
21865 Copley Drive, Diamond Bar, CA 91765**

### **TELECONFERENCE LOCATION**

Wildomar City Hall  
23873 Clinton Keith Road, Suite 201  
Wildomar, CA 92595

8575 Haven Avenue, Suite 110  
Rancho Cucamonga CA 91730

73-710 Fred Waring Drive, Suite 222  
Palm Desert, CA 92260

**(The public may attend the locations listed above.)**

*Call-in for listening purposes only is available by dialing:  
Toll Free: 888-850-4523*

*Listen Only Passcode: 2626876*

*In addition, a webcast is available for viewing and listening at:*

<http://www.aqmd.gov/home/library/webcasts>

## AGENDA

*Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't. Code Section 54854.3(a)). Please provide a Request to Address the Committee card to the Committee Secretary if you wish to address the Committee on an agenda item. If no cards are available, please notify South Coast AQMD staff or a Board Member of your desire to speak. All agendas for regular meetings are posted at South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes each.*

### CALL TO ORDER

#### **ACTION ITEMS (Items 1 through 3):**

1. Call to Order/Opening Remarks  
*(No Motion Required)*  
*Council Member Ben Benoit  
Committee Chair*
2. Approval of January 17, 2020 Meeting Minutes  
*(Motion Required)*  
*[Attachment 1]*  
*Council Member Ben Benoit  
Committee Chair*
3. Review of Follow-Up/Action Items  
*(No Motion Required)*  
*Staff will review the follow-up/action items identified in the previous meeting.*  
*Derrick J. Alatorre  
Deputy Executive Officer  
Legislative, Public Affairs &  
Media*

#### **DISCUSSION ITEMS (Items 4 through 5):**

4. Information on Available Clean Air Vehicles  
*Staff will present information on near- and zero-emission vehicles, and the infrastructure.*  
*(No Motion Required)*  
*[Attachment 2]*  
*Lisa Mirisola  
Program Supervisor  
Science & Technology  
Advancement*
5. Updates on 2016 Air Quality Management Plan (AQMP)  
*Staff will provide updates on the 2016 AQMP and the development of the 2022 AQMP, as well as information on meeting the 2023 attainment deadline and contingency plan adopted by the Governing Board.*  
*(No Motion Required)*  
*[Attachment 3]*  
*Sarah Rees, Ph.D  
Asst. Deputy Executive Officer  
Planning, Rule Development &  
Area Sources*

#### **WRITTEN REPORT:**

6. Monthly Report on Small Business Assistance Activities  
*Summary of assistance and outreach activities conducted by South Coast AQMD's Small Business Assistance Office for January 2020.*  
*(No Motion Required)*  
*All*

*[Attachment 4]*

**OTHER MATTERS:**

7. **Other Business**  
*Any member of this body, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Govt. Code Section 54954.2)*
8. **Public Comment Period**  
*At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the Local Government and Small Business Assistance Committee's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.*
9. **Next Meeting Date** - Friday, March 13, 2020 at 11:30 a.m.

**ADJOURNMENT**

**Document Availability**

*All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available prior to the meeting for public review at the South Coast Air Quality Management District, Public Information Center, 21865 Copley Drive, Diamond Bar, CA 91765.*

**Americans with Disabilities Act**

*The agenda and documents in the agenda packet will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). Disability-related accommodations will also be made available to allow participation in the Local Government & Small Business Advisory Group meeting. Any accommodations must be requested as soon as practicable. Requests will be accommodated to the extent feasible. Please contact Elaine Hills at (909) 396-2945 from 7:00 a.m. to 5:00 p.m., Tuesday through Friday, or send the request to [ehills@aqmd.gov](mailto:ehills@aqmd.gov).*



# South Coast Air Quality Management District

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# DRAFT

## LOCAL GOVERNMENT & SMALL BUSINESS ASSISTANCE ADVISORY GROUP FRIDAY, JANUARY 17, 2020 MEETING MINUTES

### MEMBERS PRESENT:

Council Member Ben Benoit, LGSBA Chairman (Board Member)  
Supervisor Janice Rutherford (Board Member)  
Mayor Pro Tempore Rachele Arizmendi, City of Sierra Madre  
Paul Avila, P.B.A. & Associates  
Geoffrey Blake, Metal Finishers of Southern California  
LaVaughn Daniel, DancoEN  
Bill LaMarr, California Small Business Alliance  
Rita Loof, RadTech International  
Eddie Marquez, Roofing Contractors Association  
David Rothbart, Los Angeles County Sanitation Districts

### MEMBERS ABSENT:

Supervisor V. Manuel Perez (Board Member)  
Felipe Aguirre  
Todd Campbell, Clean Energy  
John DeWitt, JE DeWitt, Inc.  
Council Member Carlos Rodriguez, City of Yorba Linda

### OTHERS PRESENT:

Tom Gross, Board Member Consultant (*Benoit*)  
Andy Silva, San Bernardino County

### SCAQMD STAFF:

Derrick Alatorre, Deputy Executive Officer  
Philip Fine, Deputy Executive Officer  
Fabian Wesson, Assistant Deputy Executive Officer  
Nancy Feldman, Principal Deputy District Counsel  
Alfonso Baez, Program Supervisor  
Gary Quinn, Program Supervisor  
Shawn Wang, Air Quality Specialist  
Elaine-Joy Hills, Air Quality Specialist  
Van Doan, Air Quality Specialist

### **Agenda Item #1 - Call to Order/Opening Remarks**

Chair Ben Benoit called the meeting to order at 11:41 a.m.

### **Agenda Item #2 – Approval of December 13, 2019 Meeting Minutes/Review of Follow-Up/Action Items**

Chair Benoit called for approval of the December 13, 2019 meeting minutes. The minutes were approved unanimously.

### **Agenda Item #3 – Review of Follow Up/Action Items**

Mr. Derrick Alatorre provided responses to action items from the previous meeting, and indicated that Ms. Nancy Feldman will present on the revised Local Government & Small Business Assistance (LGSBA) group charter. He stated staff inquired with the Planning, Rule Development & Area Sources division regarding the measuring of real cost of rules and regulations and actual impacts through MATES program and independent survey and will provide information when it becomes available.

### **Agenda Item #4 – Approval of Revised Local Government & Small Business Assistance Advisory (LGSBA) Group Charter**

Ms. Feldman presented on the revised LGSBA group charter.

Ms. Rita Loof indicated that the revisions reflect items previously discussed by the group.

Chair Benoit called for approval of the revised LGSBA group charter and it was approved unanimously.

Mr. Bill LaMarr asked what the Administrative Committee (AC) does and if it includes approving, rejecting, and sending back the recommendations.

Chair Benoit replied that the AC's role is to receive and forward the recommendations to the Governing Board (GB); however, if needed, they could provide comments or seek clarification from the group.

### **Agenda Item #5 – Adoption of LGSBA Group 2019 Accomplishments/2020 Goals & Objectives**

Mr. Alatorre stated that several items were proposed and added to the list of the LGSBA Group 2019 Accomplishments/2020 Goals & Objectives.

Mr. David Rothbart referenced item #12 and clarified that the proposed topic should be related to the proposed list of Assembly Bill (AB) 2588 compounds that will be issued by California Air Resources Board (CARB) and Office of Environmental Health Hazard Assessment (OEHHA) and the Criteria Pollutant and Toxics Emissions Reporting (CTR) program.

Mr. Alatorre stated that staff could work with Mr. Rothbart to revise the language of the proposed item.

Chair Benoit called for adoption of the LGSBA Group 2019 Accomplishments/2020 Goals & Objectives and it was approved unanimously.

### **Agenda Item #6 – Updates on Best Available Control Technology (BACT) Guidelines**

Mr. Alfonso Baez provided an update on Best Available Control Technology (BACT) guidelines.

Mr. Paul Avila asked what happens to equipment, such as a boiler that is repairable and operable, but is in a location where it cannot be replaced with new technology. Mr. Baez replied that it doesn't need to

be replaced if it is retrofitted using technology that are in compliance with BACT and applicable rules. BACT applies when new or modified equipment has a net emission increase of criteria pollutants.

Mr. LaMarr referenced slide #5 and asked if lithographic printer referred to lithographic press. Mr. Baez replied yes.

Mr. Avila referenced slide #12 and asked what a fish reduction cooker was. Mr. Baez replied it is an equipment used to boil fish meal to make other food products and is heated with a burner, which is required to meet the 30 parts per million (ppm) nitrogen oxide (NO<sub>x</sub>) limit.

Mr. Rothbart asked if additional items will be added to the BACT guidelines to make it easier to read and follow besides those previously discussed at BACT Scientific Review Committee (SRC) meetings. Mr. Baez replied that all items previously identified by BACT SRC were addressed.

Mr. Rothbart indicated there are permitting issues and asked if the BACT determinations are complete since the committee did not have routine meetings to update them. Mr. Baez stated that there is a long list of proposed updates to BACT guidelines, which are prioritized and presented to the GB for approval. He further indicated that state law requires proposed new updates to minor sources to be approved by the GB. Mr. Rothbart commented that it “seems backwards” that technology specified as BACT by permitting haven’t been reviewed by BACT SRC. Mr. Baez stated there is a section in the guidelines providing the process for establishing BACT for equipment not identified in the guidelines. He further stated that a cost-effective analysis is required for minor sources and Lowest Achievable Emission Rate (LAER) is required for major sources. Staff is working with engineering to maintain consistency.

Ms. Loof asked if engineering could implement BACT that have not been approved by the GB. Mr. Baez replied that the processes are different for minor and major sources as previously mentioned.

Mr. LaMarr asked if there is Best Available Retrofit Control Technology (BARCT) committee. Dr. Philip Fine replied that BARCT committee is established through rule development and the rule working group is its BARCT committee.

Mr. Rothbart assumed that Dr. Fine is alluding to Assembly Bill (AB) 617 and indicated that it is a coordination relationship. Dr. Fine indicated that there is a state mandate requiring the compilation of BARCT levels and information from existing rules.

Ms. Loof stated that CARB developed a BARCT Clearinghouse and asked how South Coast Air Quality Management District (South Coast AQMD) incorporated its process. Mr. Baez replied that South Coast AQMD is working with CARB to provide updates on the BACT/BARCT determinations to be consistent with other air districts. All districts have different BACT determinations. Ms. Loof stated that the categories are defined differently.

#### **Agenda Item #7 – Overview on Outreach Efforts for Implementation of Rule 1147 – NO<sub>x</sub> Reductions from Miscellaneous Sources**

Mr. Shawn Wang provided an overview on outreach efforts for implementation of Rule 1147 – NO<sub>x</sub> Reductions from Miscellaneous Sources.

Mr. Avila asked for examples of small equipment types. Mr. Wang replied small automotive paint spray booths.

Mr. LaMarr referenced the slide on 2017 Board Resolution and indicated some items were missing, which are alternatives to source testing and addressing the automotive heater manufacturer monopoly. Dr. Fine indicated that these items are not the topic of the presentation today; however, he stated that following the GB resolution, there were efforts to make the money available for heater certification, but none were interested. Mr. LaMarr stated that there are many low NO<sub>x</sub> burners available. Dr. Fine replied that those burners are not for this application. Mr. Gary Quinn stated that the monopoly exists because Honeywell acquired other burner manufacturers. Dr. Fine stated that there isn't an interest to get into the market. Dr. Fine agreed that the source testing is an issue and stated that it will be addressed during rule development.

**Agenda Item #8 –Monthly Report on Small Business Assistance Activities**

No comments.

**Agenda Item #9 - Other Business**

Ms. Loof announced that Radtech is having a conference on March 8-11, 2020 in Orlando.

**Agenda Item #10- Public Comment**

Mr. Harvey Eder commented on solar power.

**Agenda Item #11 – Next Meeting Date**

The next regular Local Government & Small Business Assistance Advisory Group meeting is scheduled for Friday, February 14, 2020 at 11:30 a.m.

**Adjournment**

The meeting adjourned at 12:29 p.m.

## Local Government & Small Business Assistance Advisory Group Meeting February 14, 2020

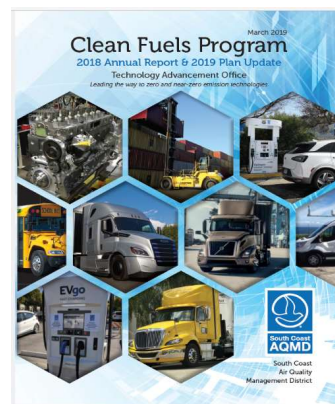
### Near- & Zero-Emission Vehicles & Infrastructure

Lisa Mirisola  
Program Supervisor  
Science and Technology Advancement  
South Coast Air Quality Management District

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## Technology Demonstration Clean Fuels Program

- Established in 1988
- \$1 fee on DMV registrations (\$~12M/yr)
- Stationary source fee (~\$400k/yr)
- Research, develop, demonstrate, and deploy (RD3) clean technologies



- [H&SC Sections 40448.5 and 40512 and Vehicle Code Section 9250.11](#)
- <http://www.aqmd.gov/home/library/technology-research/reports>

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# South Coast AQMD Demonstration Vehicles

Vehicle Type	Demonstration* Vehicles In Use
Plug-In Hybrid	
2017 Chevy Volt	1
2018 Honda Clarity Plug-In Hybrid	1
Battery Electric	
2017 Chevrolet Bolt EV	2
2019 Hyundai Kona EV	3
Fuel Cell	
2016 Toyota Mirai	1
2018 Toyota Mirai	2
2017 Honda Clarity Fuel Cell	3
2019 Hyundai Nexo Fuel Cell	1



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# South Coast AQMD Demonstration Vehicles 2020+ Potential Additions

Vehicle Type	Potential Additions
Plug-In Hybrid	
2020 Honda Clarity Plug-In Hybrid	1-2
2021 Ford Escape Plug-In Hybrid	
Battery Electric	
2021 Ford MachE	1-2
2021 VW ID Space	

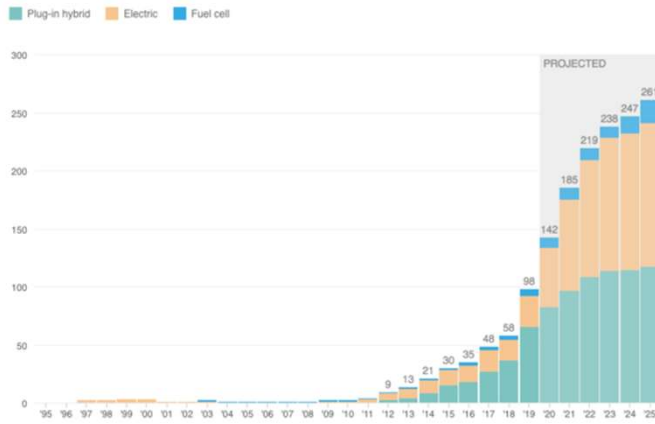


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# More Models Available

## Non-gas car models likely to nearly triple by 2025

Cars using alternative powertrains, such as electric power, fuel cells and plug-in hybrids, are expected to see substantial growth over the next decade. Only two models were available in 1997, compared with 98 in 2019. Bars in the shaded area are projected totals.



Source: Wards Intelligence and LMC Automotive  
Credit: Thomas Wilburn/NPR

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# Light-Duty Battery Electric Trucks



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## Federal & CA Current Incentives

- \$2,500 – \$7,500 PEV federal tax credit for PEVs, phasing out
- CA HOV lane access expires 1/1/2025 continues for new MY 2017+ FCV, BEV, & PHEVs (income limits), red expires 1/1/2022, purple expires 1/1/23 orange expires 1/1/24
- Up to \$9,500 South Coast AQMD Replace Your Ride <https://xappprod.aqmd.gov/RYR/>
- Up to \$7,000 CA Clean Vehicle Rebate Project <https://cleanvehiclerebate.org/eng> Qualifying vehicles with MSRP \$60,000 or less base
- CEC funding for Infrastructure; EVSE & H2
- Off-peak (TOU) electric rates



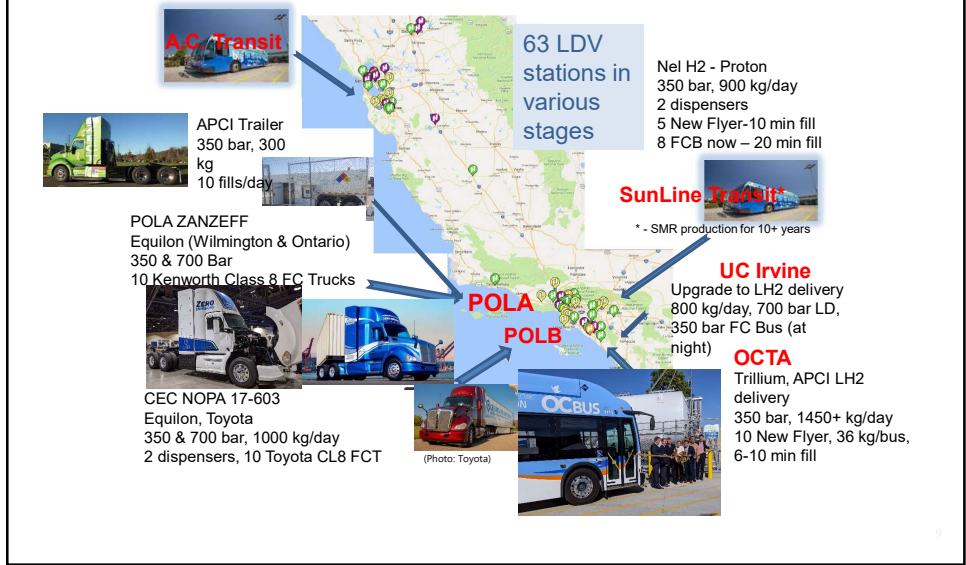
## South Coast AQMD Workplace Charging

- Networked Level 2 chargers including 6 ADA near lobby and employee entrances
- BTC chargers on Greenlots network
- EV charging for staff, public
- Cost recovery started Dec 2017
- Supports Rule 2202 for large workplaces



South Coast AQMD/MSRC Residential charging incentive

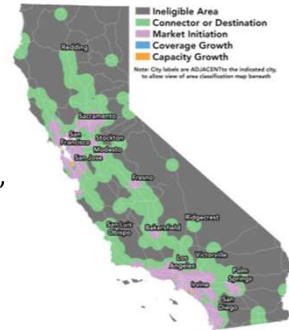
# CA Hydrogen Stations



# Co-funding for Hydrogen Infrastructure

## GFO-19-602 Hydrogen Refueling Infrastructure

- \$45.7M currently available; up to \$115.7M total
- New or upgraded retail hydrogen stations in eligible areas
- Minimum 50% match: cash or in-kind
- 40% renewable & qualifies for LCFS credit
- Encourage commercial vehicle and bus fleet usage, designed & managed to avoid conflicts with cars
- Deadline to submit applications: April 30, 2020
- Anticipated NOPA: June 2020
- Anticipated Business meeting: August 2020
- <https://www.energy.ca.gov/solicitations/2019-12/gfo-19-602-hydrogen-refueling-infrastructure>



# Daimler BETs & Infrastructure

- 15 Class 8 - eCascadia DTNA
- 5 Class 6 - eM2 Agility/DTNA
- Infrastructure
  - DC Fast Charging
  - Energy Storage Systems
- Demonstration/Outreach
  - Penske Truck Leasing and NFI
- Cost Sharing: \$31MM
  - DTNA, South Coast AQMD, POLA, POLB, EPA

DAIMLER **Agility**  
fuel solutions



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# Volvo LIGHTS



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# Near Zero Emission Trucks

## L9N - COMMERCIALLY AVAILABLE SINCE 2016



Freightliner  
Peterbilt  
Kenworth  
Volvo  
Mack  
Autocar  
Thomas  
Bluebird



0.02g-NOx/bhp-hr  
90% cleaner

L9N

8.9L inline 6  
320 HP/1000 lb.-ft

School Buses Class D  
Refuse Trucks  
Concrete Mixers  
Street Sweepers

**Class 6-8**



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# Near Zero Emission Trucks

## ISX12N - COMMERCIALLY AVAILABLE SINCE 2018



0.02g-NOx/bhp-hr  
90% cleaner

Freightliner  
Peterbilt  
Kenworth  
Volvo  
Mack  
Autocar



ISX12N

11.9L inline 6  
400 HP/1450 Lbs. Ft

Transfer Trucks  
Concrete Mixers  
Tractor Trucks

**Class 7-8**



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# Near Zero Emission Trucks

## B6.7N - COMMERCIALLY AVAILABLE SINCE 2020



Thomas  
Bluebird  
Grande West  
ARBOC  
TICO

0.02g-NOx/bhp-hr  
90% cleaner




B6.7N

6.7L inline 6  
240 HP/560 lb-ft.  
School Buses  
Buses  
Yard Hostlers  
**Class 6**



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# Updates on 2016 AQMP Implementation and 2022 AQMP Development

Local Government and Small Business Assistance Advisory Group  
February 14, 2020

*Cleaning The Air That We Breathe...*



## Agenda


1. 2016 AQMP Implementation
2. 2022 AQMP Development
3. Progress in Meeting the 2023 Attainment Deadline

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# Agenda Item #1 2016 AQMP Implementation



## 2016 Air Quality Management Plan (AQMP)

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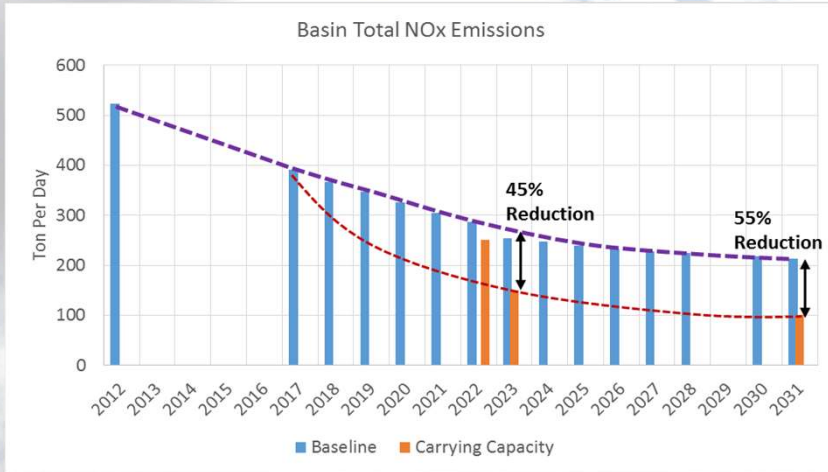
- **Blueprint for meeting and maintaining state and federal air quality standards**
- **Public Process**
  - Three-year development
    - 10 policy White Papers
    - Control Strategy Symposium
    - 15 AQMP Advisory Group meetings
    - 10 regional Public Workshops/Hearings
    - 200 stakeholder meetings
- **Approved by the South Coast AQMD Governing Board in March 2017**
- **Integrated plan addressing multiple National Ambient Air Quality Standards (NAAQS)**

Standard	Level	South Coast Classification	Coachella Valley Classification	Attainment Year
2008 8-hour Ozone	75 ppb	Extreme	Severe	2031 for South Coast 2026 for Coachella Valley
2012 Annual PM2.5	12 µg/m <sup>3</sup>	Moderate/Serious	Unclassifiable / Attainment	2021 for Moderate 2025 for Serious
2006 24-hour PM2.5	35 µg/m <sup>3</sup>	Serious	Unclassifiable / Attainment	2019 for South Coast
1997 8-hour Ozone	80 ppb	Extreme	Extreme	2023 for South Coast and Coachella Valley
1979 1-hour Ozone	120 ppb	Extreme	Attainment	2022 for South Coast

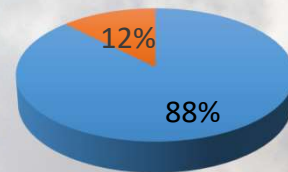
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# Challenges in Meeting Ozone Standards



Sources of NOx:  
Mobile vs. Stationary (2012)



■ Mobile Sources  
■ Stationary Sources



# 2016 AQMP - EPA Actions for South Coast Air Basin

Standards	EPA Actions	Reference
1979 1-hour Ozone (120 ppb)	<ul style="list-style-type: none"> <li>Approved most plan elements;</li> <li>Conditional approval* for the reasonable further progress contingency measure requirement for the 2008 standard</li> </ul>	Effective Oct. 31, 2019; 84 FR 52005
1997 8-hour Ozone (80 ppb)		
2008 8-hour Ozone (75 ppb)		
2006 24-hour PM2.5 (35 µg/m3)	<ul style="list-style-type: none"> <li>Approved most plan elements;</li> <li>No proposed action on the attainment contingency component</li> </ul>	Effective Mar. 14, 2019; 84 FR 3305
2012 Annual PM2.5 (12 µg/m3)	<ul style="list-style-type: none"> <li>No actions yet; deemed complete by default</li> </ul>	-

\*Based on South Coast AQMD's commitment to modify an existing rule or rules, or adopt a new rule(s), that would provide for additional emissions reductions



## South Coast AQMD Control Measure Adopted Since 2016 AQMP Approval

AQMP Control Measure	South Coast AQMD Rule	Adoption Date
Further Emission Reductions from Coatings, Solvents, Adhesives, and Sealants (CTS-01)	Rule 1168 – Adhesive and Sealant Applications	October 6, 2017 (1.4 tpd VOC)
	Rule 1106 – Marine Coating Operations Rule 1106.1 – Pleasure Craft Coating Operations	May 3, 2019
Control of Metal Particulate from Metal Grinding Operations (TXM-01)	Rule 1430 – Control of Emissions from Metal Grinding Operations at Metal Forging Facilities	March 3, 2017
Control of Toxic Metal Particulate Emissions from Contaminated Soil (TXM-04)	Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminants	July 7, 2017
Control of Toxic Emissions from Metal Melting Facilities (TXM-06)	Rule 1407 – Arsenic, Cadmium and Nickel from Non-Ferrous Metal Operations	October 4, 2019
Control of Lead Emissions from Stationary Sources (TXM-07)	Rule 1420 – Emissions Standard for Lead	December 1, 2017
Emission Reductions from Non-Refinery Flares (CMB-03)	Rule 1118.1 – Control of Emissions from Non-Refinery Flares	January 4, 2019 (0.2 tpd NOx)

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## South Coast AQMD Control Measure Adopted Since 2016 AQMP Approval

AQMP Control Measure	South Coast AQMD Rule	Adoption Date
Further NOx Reductions from RECLAIM Assessment (CMB-05)	Rule 1135 – Emissions of Oxides of Nitrogen from Electric Power Generating Facilities	November 2018 (1.8 tpd NOx)
	Rule 1146 – Emissions of Oxides of Nitrogen from Industrial, Institutional and Commercial Boilers, Steam Generators, and Process Heaters	December 2018 (0.27 tpd NOx)
	Rule 1146.1 – Emissions of Oxides of Nitrogen from Small Industrial, Institutional and Commercial Boilers, Steam Generators, and Process Heaters	
	Rule 1146.2 – Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers and Process Heaters	
	Rule 1134 – Emissions of Oxides of Nitrogen from Stationary Gas Turbines	April 2019 (2.8 tpd NOx)
	Rule 1110.2 – Stationary Internal Combustion Engines	November 2019 (0.29 tpd NOx)

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## South Coast AQMD Control Measure in Development

AQMP Control Measure	South Coast AQMD Rule	Amendment Schedule
Further NOx Reductions from RECLAIM Assessment (CMB-05)	<ul style="list-style-type: none"> <li>• Rule 1117 – Glass Melting Furnaces</li> <li>• Rule 1147.1 – Miscellaneous Sources</li> <li>• Rule 1147.1 – Large Miscellaneous Combustion</li> <li>• Rule 1147.2 – Metal Melting and Heat Treating Furnaces</li> <li>• Rule 1147.3 – Equipment at Aggregate Facilities</li> <li>• Rule 1150.3 – NOx Reductions from Combustion Equipment at Landfills</li> <li>• Rule 1179.1 – NOx Reductions from Combustion Equipment at Publicly Owned Treatment Work Facilities</li> <li>• Rule 1109.1 – Refinery Equipment</li> </ul>	<ul style="list-style-type: none"> <li>• June 2020</li> <li>• August 2020</li> <li>• August 2020</li> <li>• August 2020</li> <li>• December 2020</li> <li>• June 2020</li> <li>• June 2020</li> <li>• September 2020</li> </ul>
Air Toxics Rules	<ul style="list-style-type: none"> <li>• Rule 1450 – Control of Methylene Chloride Emissions</li> <li>• Rule 1469.1 – Spraying Operations Using Coatings Containing Chromium</li> <li>• Rule 1407.1 – Chromium Alloy Melting Operations</li> <li>• Rule 1435 – Metal Heat Treating Processes</li> <li>• Rule 1426 – Metal Finishing Operations</li> </ul>	<ul style="list-style-type: none"> <li>• October 2020</li> <li>• October 2020</li> <li>• November 2020</li> <li>• November 2020</li> <li>• December 2020</li> </ul>

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## Facility-Based Mobile Source Measures

Sector	May 2018 Board Direction	Status
Airports	Pursue MOUs to implement airport clean air plans	Board adopted MOUs in December 2019
Ports	Pursue MOUs to implement specific Clean Air Action Plan measures; pursue introduction of cleaner vessels	Board to consider adopting MOU following port adoption of truck rate in early 2020
New/Redevelopment	Continue to work with stakeholders to develop rule concepts and preliminary costs/benefits	Released construction equipment/technology costs study RFP October 2019
Warehouses	Develop rule concept; conduct economic impacts study to inform rule concept	Board considers adopting Indirect Source Rule (ISR) May 2020
Rail yards	Pursue rulemaking; explore potential for new agreements/MOUs beyond the 1998 and 2005 agreements	Board considers adopting ISR December 2020

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## Incentives RFP (CMB-01, CMB-02, CMB-04, ECC-03)

- **In Jan 2018, Board approved RFP to incentivize emission reduction or technology demonstration projects**
  - 58 (out of 81 submitted) technically qualified with \$211 M requested
  - 26 projects awarded totally ~\$48 M
- **Mobile Sources – emission reduction/technology demo**
  - ✓ Zero emission vans, terminal equipment, electric refrigeration transport, tugboats, harbor craft, refuse trucks
- **Stationary Sources – emission reduction/technology demo**
  - ✓ Residential energy efficiency, street sweeping, restaurants, fuel cells

**Anticipate 88 tons/year of NO<sub>x</sub> and 2 tons of PM<sub>2.5</sub>/year reductions**

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## CARB's Adopted 2016 State SIP Strategy Measures

Measure Title	Board Date Adopting the Subsequent Rule
South Coast On-Road Heavy Duty Vehicle Incentive Measure	March 22, 2018
Heavy-Duty Diesel Vehicle Emission Control System Warranty Regulation Amendments	June 2018
Zero-emission Airport Shuttle Regulation	June 1, 2019
Zero-Emission Powertrain Certification Regulation	June 1, 2019
Electric Vehicle Supply Equipment Standards	June 1, 2019
Ocean-Going Vessel At Berth And At Anchor Regulation	First Board Hearing December 2019 Second Board Hearing April 2020

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## Agenda Item #2

# 2022 AQMP Development



## Ozone SIP Obligations Through 2022

Standard	Level	Air Basin	Classification	Attainment Date	Major Obligation	Due to U.S. EPA
1997 Ozone	80 ppb	Coachella Valley	Extreme Nonattainment	June 15, 2024	Extreme Area SIP	Feb. 14, 2021
2015 Ozone	70 ppb	South Coast	Extreme Nonattainment	Aug. 3, 2038	Reasonably Available Control Technology; Base Year Inventory; Emission Statement; Vehicle Miles Travelled Growth Demonstration	Aug. 3, 2020
					Nonattainment New Source Review; Clean Fuel for Boilers	Aug. 3, 2021
		Coachella Valley	Severe Nonattainment	Aug. 3, 2033	Attainment Demonstration; Reasonably Available Control Measures; Control Strategy; Contingency Measures	Aug. 3, 2022



## 2022 AQMP Schedule and Purpose

- **Purpose**
  - To address 2015 8-Hour Ozone Standard for South Coast Air Basin and Coachella Valley
  - Update attainment demonstrations for other standards
- **Schedule**
  - SIP submittal due August 3, 2022
    - Emission inventory and attainment demonstration
    - Reasonably Available Control Measures and control strategy
    - Contingency measures
  - Initiated AQMP Advisory Group Meetings

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### Agenda Item #3

## Progress in Meeting the 2023 Attainment Deadline



## 1997 8-hour Ozone Standard - Background

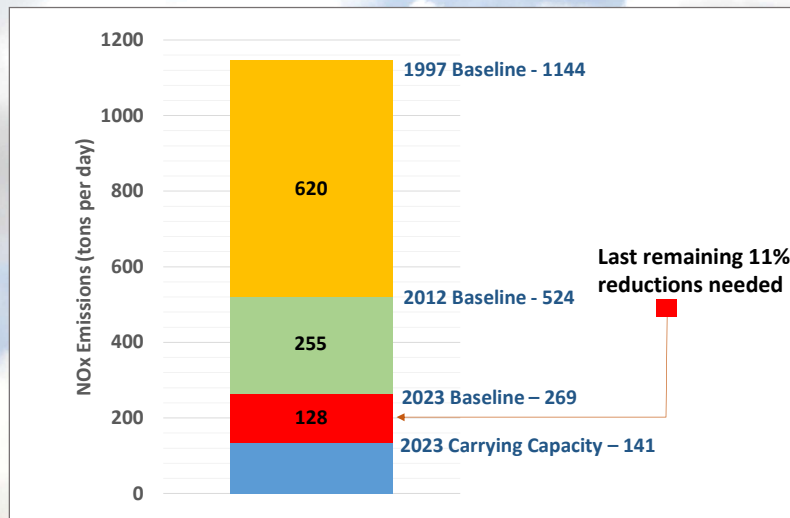
**South Coast Air Basin – Extreme nonattainment area with an attainment date of June 15, 2024**

- 2007 AQMP - Initial submission of State Implementation Plan (SIP)
- 2016 AQMP Control Strategy Update
  - Defined measures
  - Further Deployment of Cleaner Technologies measures
    - Approved by U.S. EPA under section 182(e)(5) (i.e. black box)
- Contingency measures required for section 182(e)(5) reductions three years prior to implementation of plan provisions (i.e., 2023 attainment date)
- Contingency Measure Plan prepared by South Coast AQMD and CARB

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## Progress in Overall NOx Reductions Since 1997



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## 2016 AQMP - Overall Control Strategy (NOx)

Sources	NOx (tpd)
<b>Year 2023 Baseline<sup>1</sup></b>	<b>269</b>
<b>Carrying Capacity</b>	<b>141</b>
<b>Total Emission Reductions (All Measures):</b>	<b>135</b>
Defined Measures:	27
South Coast AQMD Stationary Source Control Measures	7
South Coast AQMD Additional Mobile Source Control Measures	16
CARB Defined Measures	4
Further Deployment of Cleaner Technologies	108
Set Aside Budget <sup>2</sup>	3
<b>2023 Remaining Emissions</b>	<b>137<sup>3</sup></b>

<sup>1</sup> Reflects CARB's 2018 Updates to the California State Implementation Plan

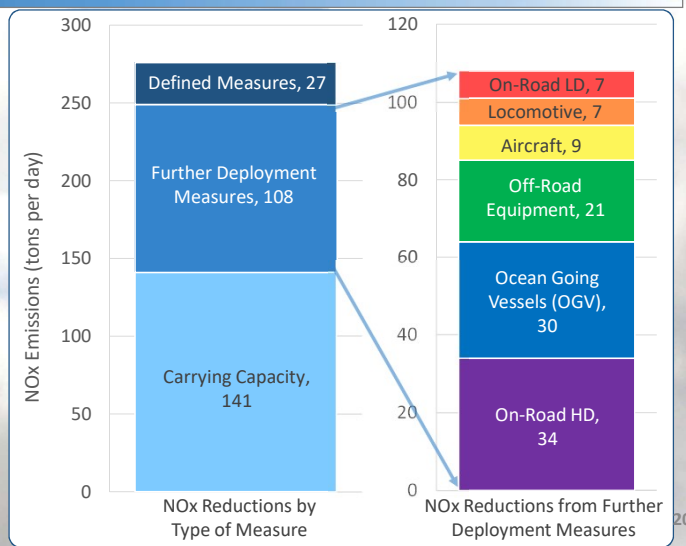
<sup>2</sup> As SIP reserve for potential technology assessment and for general conformity purposes

<sup>3</sup> Reflects an additional 4.2 tons per day of NOx emission reductions beyond the projected carrying capacity of 141 tons per day to accommodate changes in ocean-going vessel (OGV) emission inventory and CARB's SIP strategy for OGV.



## CAA Section 182(e)(5) for Extreme Non-Attainment Areas

- Allows for reliance on emission reductions from anticipated new technologies or improvement of existing technologies
- EPA approved Further Deployment measures in the 2016 AQMP under section 182(e)(5) - 108 tpd
- Contingency measures required 3 years prior to implementation of plan provisions (i.e., 2023 attainment date)
  - Provide full reductions assigned to 182(e)(5) measures





## Contingency Measure Plan



Identified Emission Reduction Strategies



Additional Incentive Funding



Federal Measures/Responsibilities

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## Identified Emission Reduction Strategies



Measures Description	Agency	NOx Reductions (tpd)
RECLAIM BARCT Rules	South Coast AQMD	2
Ports MOU	South Coast AQMD	3.2 – 5.2
Airports MOU	South Coast AQMD	0.5
Metrolink Locomotives	South Coast AQMD	3
Funding Incentives (Expected Future Funding)	South Coast AQMD	1.5
Low Carbon Fuel Standard and Alternative Diesel Fuels Regulation	CARB	1.7
ATCM for Portable Engines, and the Statewide Portable Equipment Registration Program Regulation	CARB	0.25
HD Inspection and Maintenance (I/M) program	CARB	4.2
Innovative New Measures	CARB	3.0
<b>Total Reductions Towards 182(e)(5) Commitment*</b>		<b>24 – 26 tpd</b>

\* Estimated reductions including 4.2 tons per day of reductions associated with updated OGV emissions inventory and CARB's SIP Strategy for OGV

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## CARB's Innovative New Measures (3 tpd)



- Tier 5 Off-Road Diesel Engine Standard
- State Green Contracting
- Reduction in Single-Occupancy Vehicle Travel Growth
- Locomotive Emission Reduction Measure
- VMT and Land Conservation
- Regional VMT Reductions
- Co-Benefits of Climate Change Scoping Plan Building Electrification

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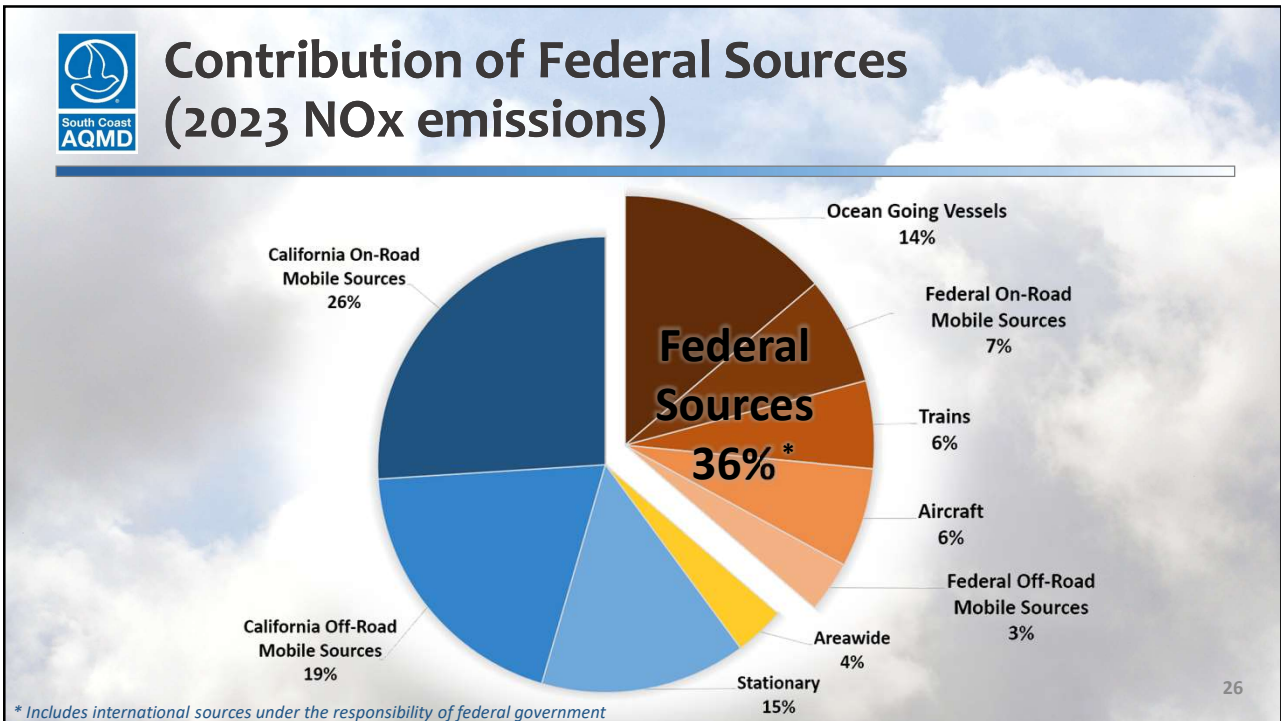
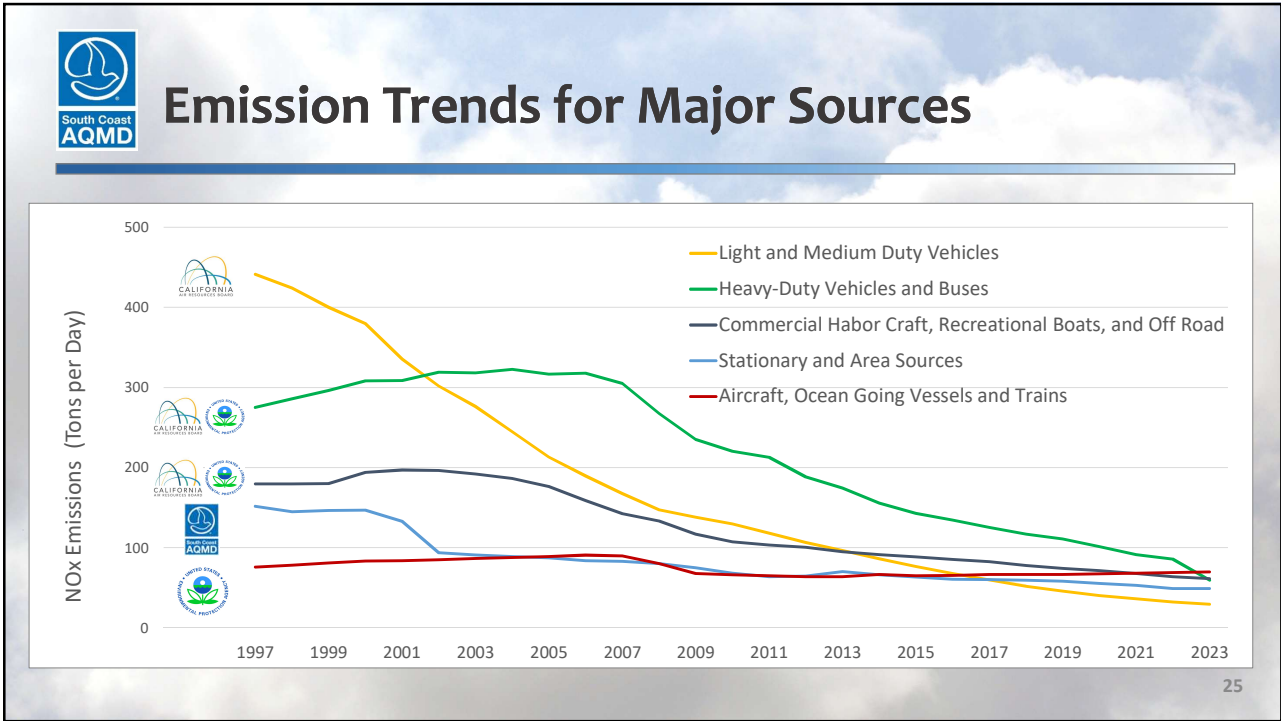


## Additional Incentive Funding



- **2016 AQMP**
  - Estimated need over \$1 billion per year over 14 years
  - Current effort will update this estimate based on latest information
- **Expected Future Funding (approximately \$800 M over 4 years)**
  - AB 617-Related Incentives - \$80-90 M/yr.
  - Carl Moyer - \$40-50 M/yr.
  - Prop 1B - \$30 M
  - VW Settlement - \$67 M
  - AB2766 Subvention Fund - \$22 M/yr.
  - Mobile Source Air Pollution Reduction Review Committee - \$17 M/yr.
- **Additional Funding Needed**
  - Voting District Authorization Legislation - \$1.4 B/yr.
  - Other Mechanisms - TBD
  - Expected 2023 NOx Reductions: 15 tons per day

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## Potential Federal Measures



Measures	Measure Description	2023 NO <sub>x</sub> Reductions (tpd)
<b>Low-NO<sub>x</sub> Heavy-Duty Vehicles</b>	Heavy-duty vehicles (above 14,000 lbs. GVWR) powered by low-NO <sub>x</sub> engines in 2023	Up to 35
<b>Low-NO<sub>x</sub> Ocean-Going Vessels</b>	Ocean-going vessels coming to California powered by Tier 3 engines in 2023	Up to 28
<b>Low-NO<sub>x</sub> Locomotives</b>	Locomotives coming to California powered by Tier 4 engines in 2023	Up to 11
<b>Low-NO<sub>x</sub> Aircraft</b>	Aircraft NO <sub>x</sub> reductions assumption of 20% if emissions are held at 2012 levels	Up to 4
<b>Total Possible Reductions Towards Further Deployment Commitment</b>		<b>Up to 78</b>

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## Contingency Measure Plan for Further Deployment Reductions

Strategy	2023 Reductions (tpd)
Identified Emissions Reduction Strategies	24 – 26
Additional Incentive Funding	15
Federal Measures and / or Funding	67 – 69
<b>All Strategies</b>	<b>108</b>

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## A Call to Action

- California is doing all we can to reduce emissions with current funding and authority
- All levels of government need to take action to reduce emissions
- More incentive funding is needed to accelerate turn over of existing fleet to cleaner technologies to meet air quality standards
- Federal action is absolutely needed on sources California cannot address

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SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

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Questions and Answers

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# Small Business Assistance Report on January 2020 Activities for LG&SBA Advisory Group Meeting of 2/14/2020

## Services Offered – January

■ Permit Application Assistance	216
■ On-site Consultations	3
■ Fee Review Committee Request	2
■ 1 Granted (Correct Equipment Description)	
■ 1 Denied (Reinstate Permit)	
■ Air Quality Permit Checklist Processed	68

## Permit Assistance – January

- 216 Activities Providing Help with Permit Applications. Examples include:
  - 32 *General Contractors/Consultants/Architects*
  - 29 *Manufacturing Facilities*
  - 27 *Restaurants*
  - 23 *Auto Body and Repair Shops*
  - 15 *Warehouses (Storage/Distribution)*
  - 12 *Retail Stores*
  - 6 *Dry Cleaners/Garment Cleaners*

2/14/2020

January 2020 Report

## Activities – January

- Conducted 3 free on-site consultations
  - Warehouses
  - Powder Coating Facility

2/14/2020

January 2020 Report



## Dry Cleaner Grants Issued (as of 1/2020)

■	Professional Wet Cleaning	153
■	CO <sub>2</sub> Machines	4
■	Hydrocarbon (funds expended)	488

2/14/2020

January 2020 Report

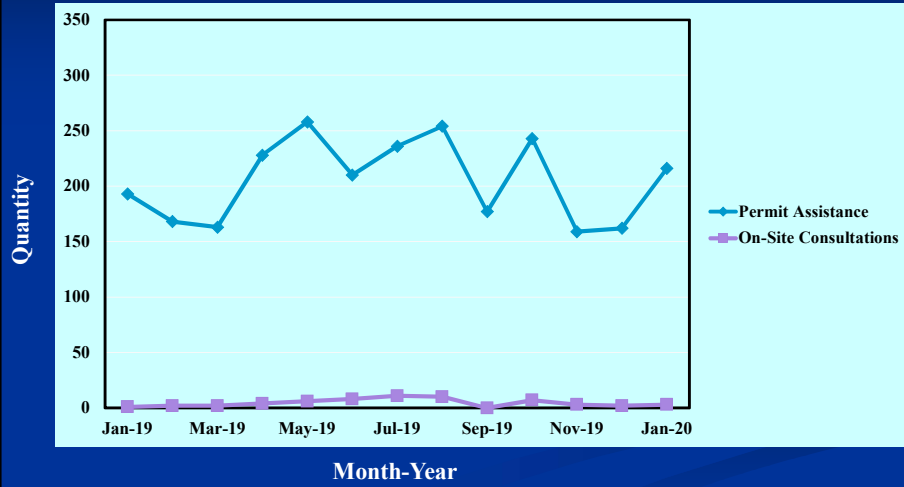
## Small Business Activity January 2019 – January 2020

ACTIVITY	Permit Assistance	On-Site Consultations	Variance Assistance	Fee Review Requests	Air Quality Permit Checklists
Jan-2019	193	1	0	2	63
Feb-2019	168	2	2	3	72
Mar-2019	163	2	0	5	53
Apr-2019	228	4	1	6	77
May-2019	258	6	1	3	80
Jun-2019	210	8	0	2	60
Jul-2019	236	11	0	2	57
Aug-2019	254	10	0	6	55
Sep-2019	177	0	1	2	49
Oct-2019	243	7	0	4	72
Nov-2019	159	3	0	3	61
Dec-2019	162	2	0	2	81
Jan-2020	216	3	0	2	68
<b>TOTAL</b>	<b>2667</b>	<b>69</b>	<b>5</b>	<b>42</b>	<b>848</b>

2/14/2020

January 2020 Report

# Small Business Activity January 2019 – January 2020



2/14/2020

January 2020 Report