

Agenda Item 2

Overview of 2022 AQMP and Draft Stationary Source Control Measures

**2022 Air Quality Management Plan (AQMP)
Control Measures Workshop – Morning Session**

November 10, 2021



Background – 2015 8-hour Ozone Standard

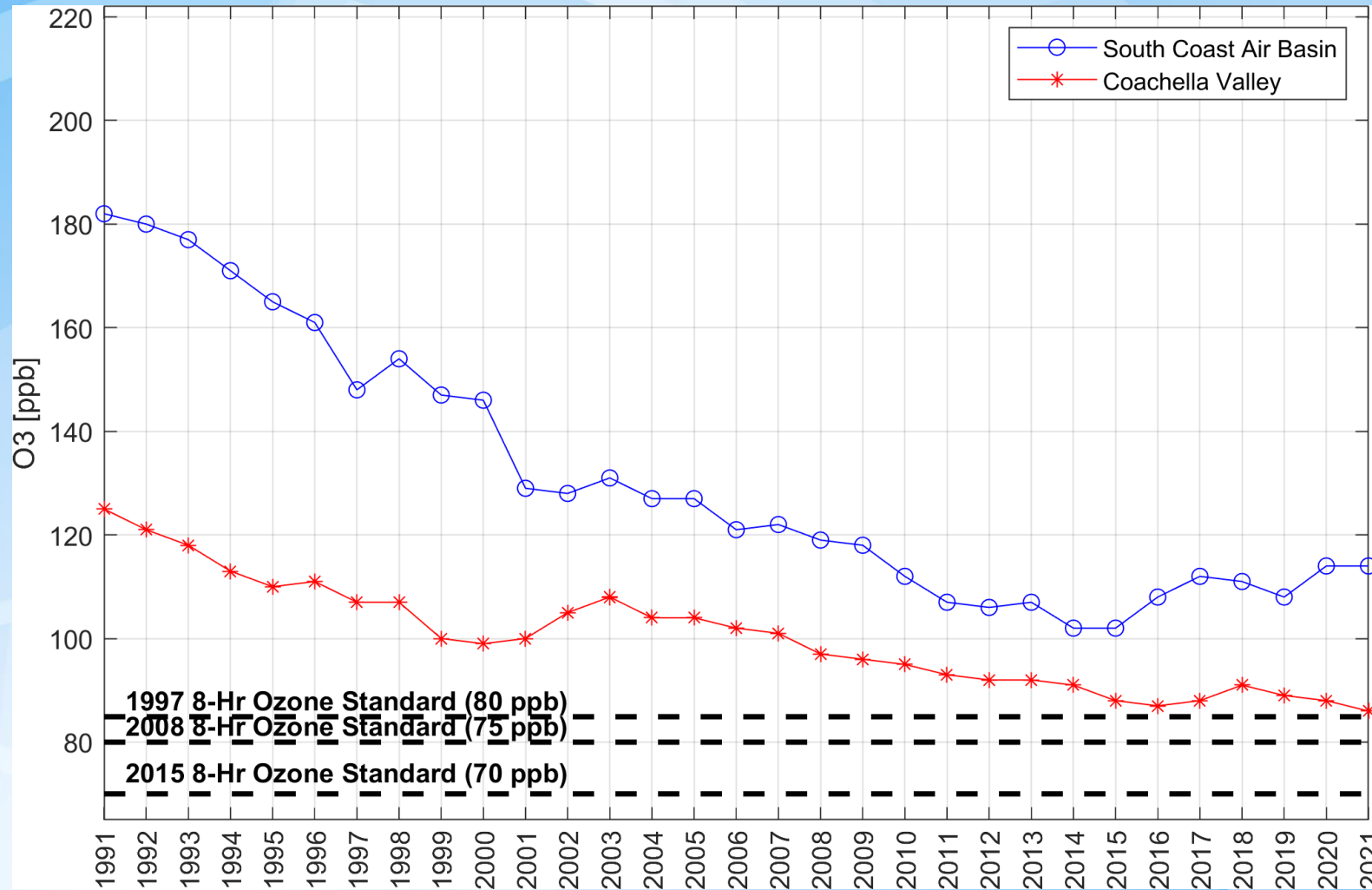
- In 2015, the U.S. EPA strengthened the National Ambient Air Quality Standards (NAAQS) for ozone to 70 parts per billion (ppb)

Nonattainment classifications for 2015 8-hour Ozone NAAQS (70 ppb)

Standard	Classification	Attainment Date	Attainment Year
South Coast Air Basin	Extreme	August 3, 2038	2037
Coachella Valley	Severe	August 3, 2033	2032



Ozone Trends*

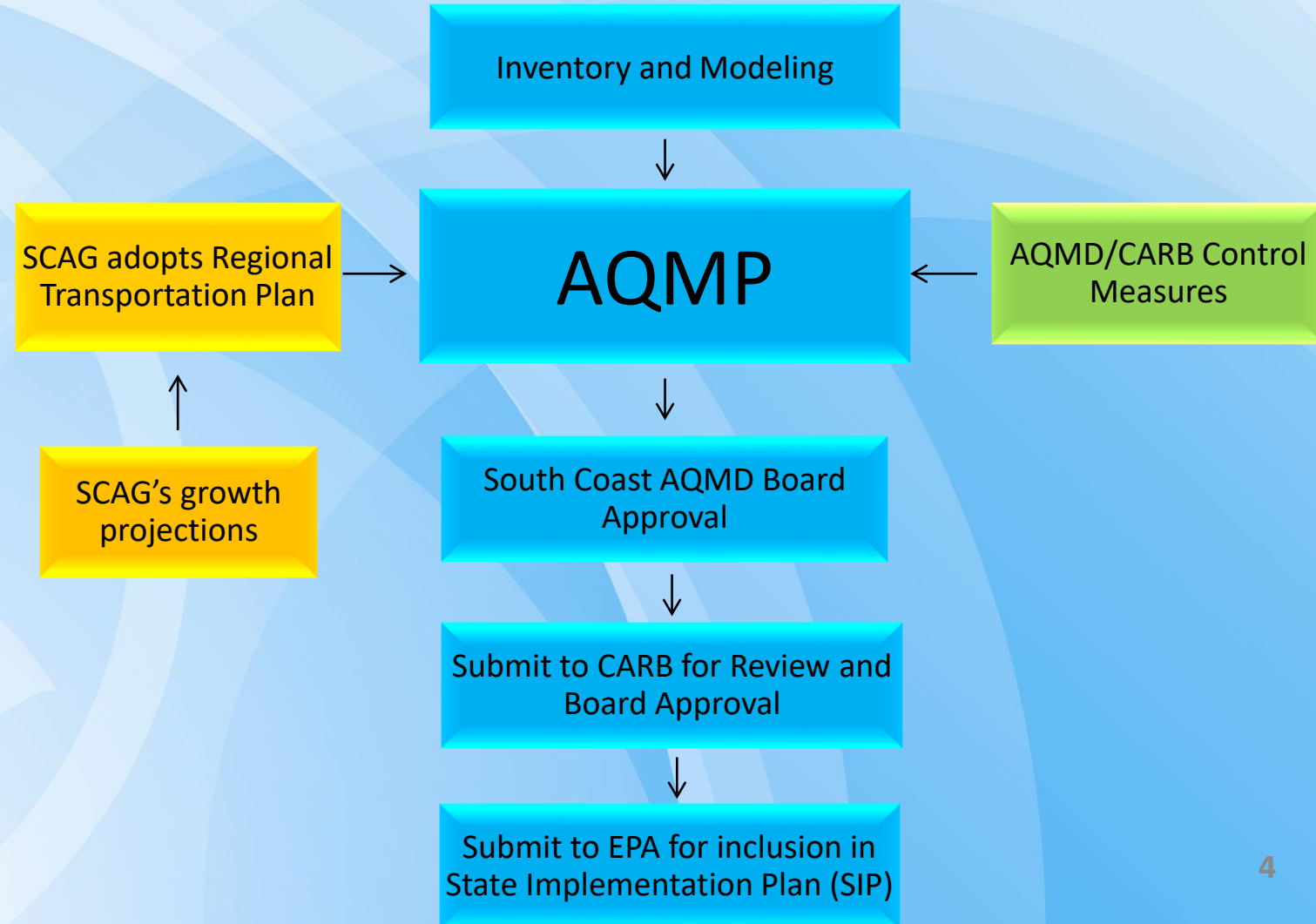


*Preliminary data for 2021



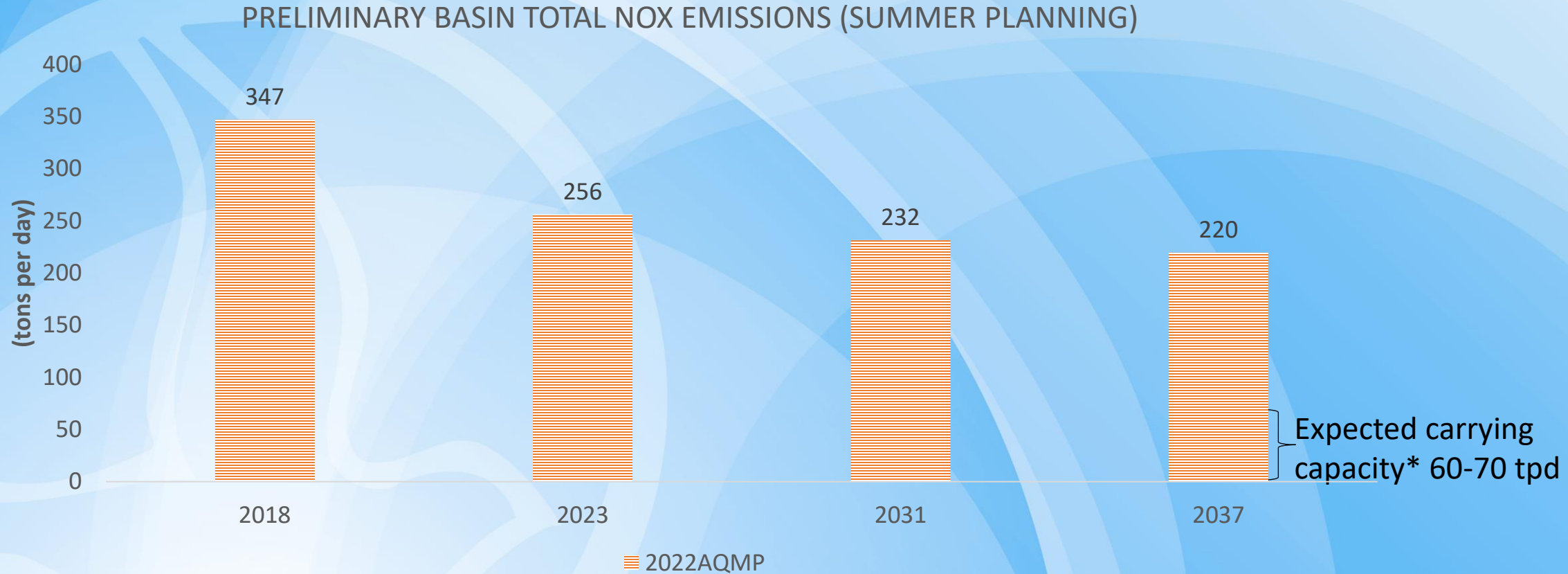
2022 Air Quality Management Plan (AQMP)

- Attainment plan for 70 ppb ozone standard for South Coast Air Basin by 2037 and Coachella Valley by 2032
- Blueprint with specific mobile and stationary control measures
- Due to U.S. EPA: August 3, 2022





NOx Baseline Emissions/Reduction Needs

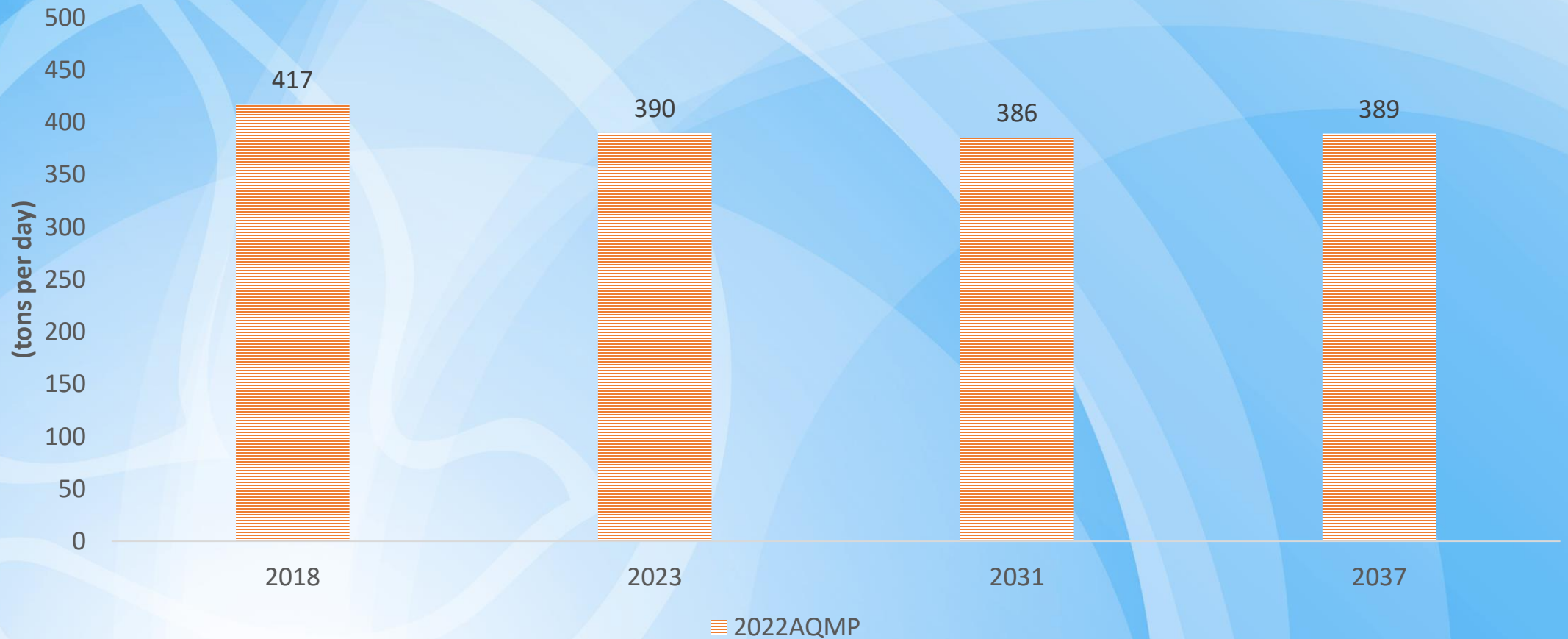


**Carrying capacity is the maximum allowable NOx emissions to meet the 2015 8-hour ozone standard (70 ppb)*



VOC Baseline Emissions

PRELIMINARY BASIN TOTAL VOC EMISSIONS (SUMMER PLANNING)

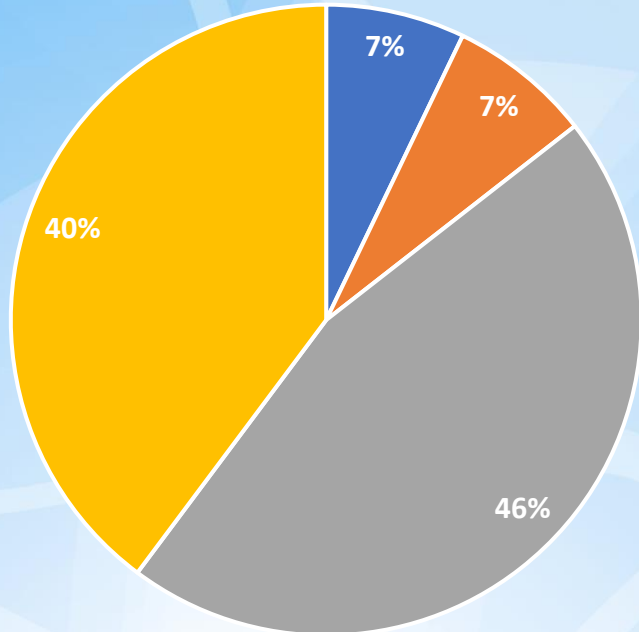




Distribution of Preliminary NOx Emissions in 2018 vs 2037

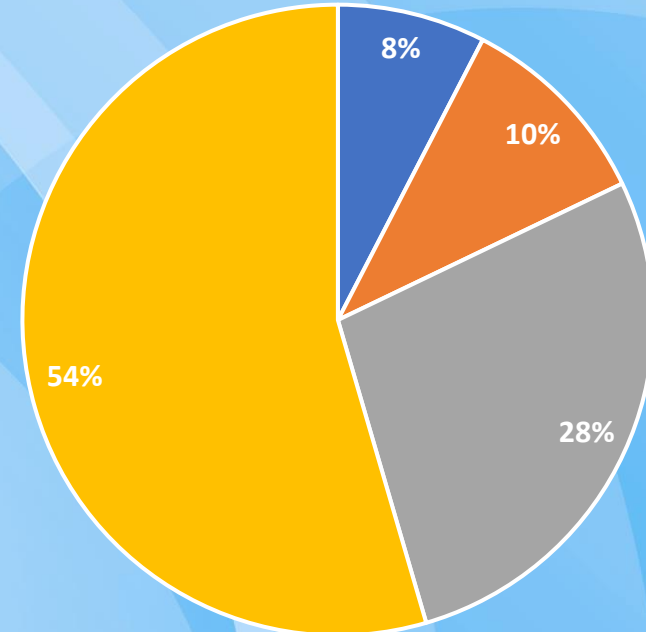
2018 NOx (Summer Planning)

■ Points ■ Area ■ On-Road ■ Off-Road



2037 NOx (Summer Planning)

■ Points ■ Area ■ On-Road ■ Off-Road



Control Measures Development

- **2022 AQMP control measures**
 - 2016 AQMP control measures to be updated where applicable; new measures
- **Five working groups (Dec 2020 – present)**
 -  **Residential and Commercial Buildings**
 -  **Ocean-Going Vessels**
 -  **Aircraft**
 -  **Heavy-Duty Trucks**
 -  **Construction and Industrial Equipment**
- **A new working group for ZE Infrastructure (Sep 2021 – present)**



2022 AQMP Control Measures Workshop Overview

- **South Coast AQMD Proposed Control Measures**

- **Stationary Sources**

Morning Session

- **Mobile Sources**

Afternoon Session

- **CARB's Draft 2022 SIP State Strategy**

- **Mobile Sources**

Afternoon Session

- **Area Sources**

Afternoon Session



South Coast AQMD Proposed Draft Stationary Source Measures At A Glance



Combustion-Related Measures



Energy Efficiency and Climate Change Related Measures



VOC Measures



Other Measures



Public Comments / Contact Information

During the Workshop

- Q&A and discussion after each agenda item

AQMP Advisory Groups

- Next meeting to be held January/February 2022

Individual Meetings

- Send requests to AQMPTeam@aqmd.gov

Comment Letters

- Send letters to: AQMPTeam@aqmd.gov by 11/30/2021

Idea Submission Form

- Available at the link below and at www.aqmd.gov/2022AQMP; Submit your ideas by 11/30/2021

<https://forms.office.com/g/ut13CPSvzN>



Extra Slides



South Coast AQMD's Proposed Draft Stationary Sources NOx Control Measures

2016 AQMP	2022 AQMP
Regulatory Measures:	
• CMB-01 Transition to Zero and Near-Zero Emission Technologies for Stationary Sources	Updated Measure; New numbering
• CMB-02 Emission Reductions from Replacement with Zero or Near-Zero NOx Appliances in Commercial and Residential Applications	Updated Measure; New numbering
• CMB-03 Emission Reductions from Non-Refinery Flares	<i>Adopted as Rule 1118.1</i>
• CMB-04 Emission Reductions from Restaurant Burners and Residential Cooking	Updated Measure; New numbering
• CMB-05 Further NOx Reductions from RECLAIM Assessment	<i>Various landing rules adopted/underway;</i> New numbering
Recognition of Co-Benefits:	
• ECC-01 Co-Benefits Emission Reductions from GHG Programs, Policies, and Incentives	Updated Measure; Same numbering
• ECC-02 Co-Benefits from Existing Residential and Commercial Building Energy Efficiency Measures	Updated Measure; Same numbering
Incentive-Based Measure:	
• ECC-03 Additional Enhancements in Reducing Existing Residential Building Energy Use	Updated Measure; Same numbering
• ECC-04 Reduced Ozone Formation and Emission Reductions from Cool Roof Technology	Implemented; Technical Analysis Completed



South Coast AQMD's Proposed Draft Stationary Sources VOC/Other Control Measures

2016 AQMP	2022 AQMP
Limited, Strategic VOC Control:	
<ul style="list-style-type: none"> FUG-01 Improved Leak Detection and Repair 	Updated Measure; Same numbering
<ul style="list-style-type: none"> NEW-Emission Reductions from Cooling Towers 	New Measure as FUG-02
<ul style="list-style-type: none"> CTS-01 Further Emission Reductions from Coatings, Solvents, Adhesives, and Sealants 	Updated Measure; Same numbering
<ul style="list-style-type: none"> FLX-02 Stationary Source VOC Incentives 	Updated Measure; Same numbering
<ul style="list-style-type: none"> NEW-Assessing Emissions from Urban Vegetation 	New Measure as BIO-01
Other Measures:	
<ul style="list-style-type: none"> MCS-01 Improved Breakdown Procedures and Process Re-Design 	No update to 2016 AQMP measure, will be incorporated into individual rule developments
<ul style="list-style-type: none"> MCS-02 Application of All Feasible Measures 	Updated Measure; Renumbered to MCS-01
<ul style="list-style-type: none"> NEW-Wildfire Prevention 	New Measure as MCS-02
<ul style="list-style-type: none"> FLX-01 Improved Education and Public Outreach 	Updated Measure; Same numbering