

Public process to develop Ports MOU

- Ports MOU Working Group meetings to date
 - Meeting #1 March 6, 2019
 - Meeting #2 July 24, 2019
 - Meeting #3 December 19, 2019
- Ports MOU Technical Working Group meetings
 - South Coast AQMD, Ports of LA & LB, U.S. EPA, CARB, Coalition for Clean Air, Sierra Club, Pacific Merchant Shipping Association, California Trucking Association
 - Twenty (20) bi-weekly meetings since February 2019
- Several updates to South Coast AQMD Mobile Source Committee & Governing Board in 2019
- Ports MOU subject to approval by Both Ports Harbor Commissioners and South Coast AQMD Board





SIP credit based on MOU measures

- 2017 Clean Air Action Plan (CAAP) Update
- New strategies and goals to reduce emissions from port-related sources

CAAP

MOU

- South Coast AQMD has developed a draft MOU with the Ports to reduce emissions
- Draft MOU is based on specific CAAP measures

- South Coast AQMD to work with EPA to get SIP credits for MOU measures
- If emission reductions not fully achieved, South Coast AQMD will provide substitute measures through public process

SIP credit



Draft MOU

Purpose

 Quantify SIP creditable emission reduction benefits based on implementation of specific 2017 CAAP Update measures in the MOU

Term

• In effect until December 31, 2035; MOU Interim Assessment in 2023

Structure

- General commitments by the Ports and South Coast AQMD
- Attached schedules with commitments on specific CAAP measures (e.g., milestones, performance targets, plans, reporting requirements)



Draft MOU Schedules

Schedule 1 - Drayage Trucks

Implement Clean Trucks Program

Schedule 2 - Cargo Handling Equipment (CHE)

 Accelerate ZE and NZE CHE deployment working with terminal operators with a 100% ZE CHE goal by 2030

Schedule 3 - Ocean-Going Vessels (OGV)

• Reduce OGV emissions through new and enhanced incentive programs: Vessel Speed Reduction, Green Ship Incentives and Clean Ship Program

Schedule 4 - Harbor Crafts

Develop incentive program to upgrade harbor crafts with cleanest engines

Schedule 5 - Locomotives

 Increase on-dock rail cargo moves to 35% and seek to utilize cleanest locomotives









Draft MOU commitments

Ports



- Implement and track CAAP measures specified in the MOU
- Submit annual reports to South Coast AQMD on implementation of CAAP measures in the MOU
 - Vehicle activity data
 - Data on truck replacements
- Seek grant funding and implement incentive programs

South Coast AQMD



- Quantify SIP creditable emission reductions for CAAP measures in the MOU
- Provide federally enforceable commitments and report emission reduction benefits to U.S. EPA
- Establish metrics/milestones to track implementation progress
- Process to cover potential shortfall
- Provide public access and disclosure



EPA's requirements for eligibility of emission reductions for SIP credit

Integrity Elements

Federal Enforceability

Technical Support

Funding

Legal Authority

Public Disclosure and Tracking



Clean Trucks Program (CTP)

- Only CAAP measure in the MOU with specific performance target (i.e., \$/TEU)
- SIP creditable reductions in 2023 meeting EPA's integrity elements
 - Contracts for new trucks with enforceable requirements
 - Surplus reductions based on near-zero or zero-emission trucks
 - Quantifiable reductions based on established methodology
 - Scrappage or relocation out of CA for replacement trucks
- Revenues collected from the truck rate will be used to fund truck replacements
- SIP creditable emission reductions for 2031 for CTP (and other CAAP measures) to be calculated based on the proposed interim assessment in 2023

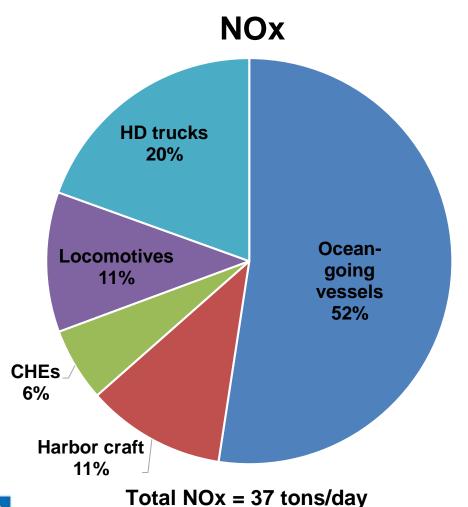








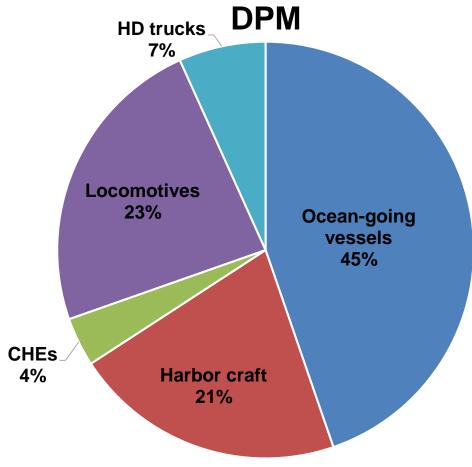
2018 Ports Emissions Inventory



South Coast

Air Quality Management District





CTP emission reduction methodology

Containers

 Forecast loaded container TEUs based on 2018 statistics and projected container growth rate

Revenue

 Estimate annual revenues from the rate collected from trucks with loaded containers (per TEU basis)

Trucks

 Calculate number of clean trucks that can be funded based on projected annual revenues

Emissions

Calculate emission reductions based on 2010 MY as baseline



Preliminary CTP emissions reduction estimates

Container Growth Rate ¹	Incentive for NZE Trucks ² (\$/truck)	Incentive for ZE Trucks ² (\$/truck)	# of NZE Trucks Funded	# of ZE Trucks Funded	2023 NOx Reductions ³ (tpd)
Expected	50,000	100,000	3,546	41	3.94
	100,000	200,000	1,886	23	2.10
Low Growth	50,000	100,000	3,511	40	3.90
	100,000	200,000	1,868	23	2.08

- 1. Based on 2016 Mercator Report's growth rates Expected Base and Low Growth Base scenarios
- 2. Assuming \$10 per TEU; 95% of annual revenues to be used to fund NZE and 5% for ZE trucks, in 2021-2022
- 3. 2010 MY used as baseline model year to calculate emission reductions



South Coast AQMD's Enforceable Commitment

- Commit to achieve projected NOx reductions in 2023
- Monitor implementation of the CAAP measures in the MOU based on annual reports submitted by the Ports
- Report to EPA on implementation of SIP creditable CAAP measures and actual emission reductions achieved
- Make annual reports and relevant data publicly available
- Adopt and submit substitute measures to EPA in the event of any shortfall through public process



Next steps

Milestone	Date
Preliminary Draft Staff Report and Notice of Public Consultation Meeting	12/20/2019
Public Consultation Meeting	1/14/2020
Public Comments Due Date	1/23/2020
Mobile Source Committee Meeting	1/24/2019
Ports MOU Working Group Meeting #4	2/12/2020
Mobile Source Committee Meeting	2/21/2020
POLA Board MOU Adoption	February 2020
POLB Board MOU Adoption	February 2020
AQMD Board Hearing for Adoption of MOU and Enforceable Commitment	3/6/2020

