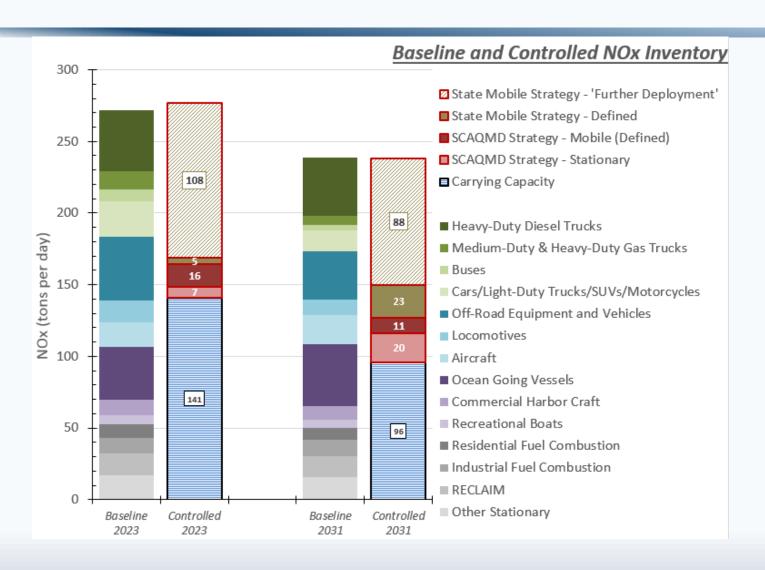
Implementation of 2016 AQMP – Stationary Source Incentive Guidelines

Working Group # 1

December 13, 2017

2016 AQMP - Overall Control Strategy (NOx)



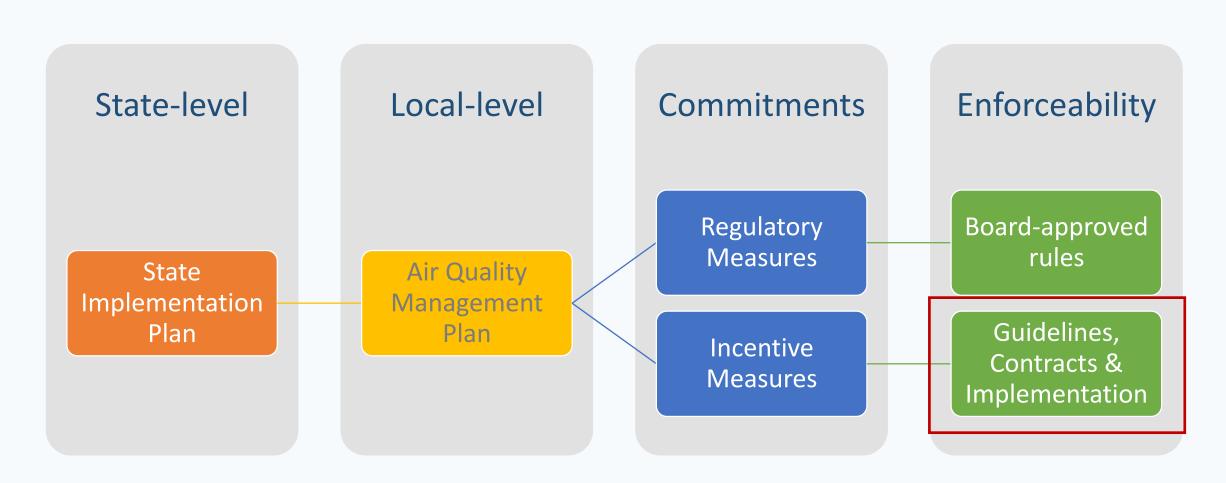
SCAQMD Mobile Source Measures with Incentives Components (Carl Moyer, Prop 1B, SOON, Extended Exchange Program, etc.)

- 15.9 tpd by 2023
- 10.8 tpd by 2031

Stationary Source Measures with Incentives Components (CMB-01, CMB-02, ECC-03, etc.)

- 4.8 tpd by 2023
- 10.9 tpd by 2031

2016 AQMP Commitments



2016 AQMP Measures with Incentive Components

Stationary Source Control Measures

- CMB-01 (Transition to Zero and Near-Zero Emissions Technologies for Stationary Sources)
- CMB-02 (Emission Reductions from Replacement with Zero and Near-Zero NOx Appliances in Commercial and Residential Applications)
- ECC-03 (Additional Enhancements in Reducing Existing Residential Building Energy Use)

Mobile Source Control Measures

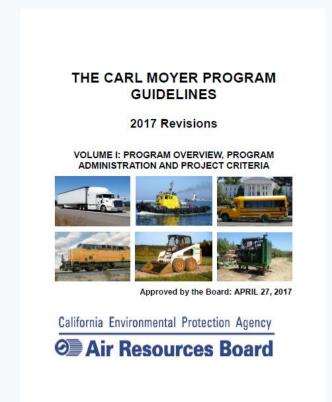
- On-road (passenger vehicles, heavy duty trucks, etc.)
- Off-road (construction, lawn and garden, locomotive, etc.)

Needs \$1 Billion per year over ~14 years



Existing Incentive Guidelines

- Mobile on-road or off-road sources
 - Carl Moyer or Prop 1B
 - CARB as the funding agency
- Stationary source
 - No existing guidelines
 - Guidelines needed to get SIP credits for incentive projects



PROPOSITION 1 B:
GOODS MOVEMENT EMISSION REDUCTION PROGRAM

FINAL 2015
GUIDELINES FOR IMPLEMENTATION

California Environmental Protection Agency

⊘ Air Resources Board

Stationary Source Incentive Guidelines Overview

Applicability: Stationary source incentive projects with emission reductions that could be counted towards the SIP

Program Guidelines

- General criteria
- Program administration

Individual Guidelines

For each project type

Project Demonstration

 Includes emission reductions & enforceable commitment

Proposed Incentive Guidelines

Purpose

- Provide general criteria & administrative procedures for SIP-creditable projects
- Approach
 - Follow Carl Moyer Guideline framework, modified as needed
- Project Types
 - A. Replacements
 - B. Retrofits
 - C. Efficiencies (e.g., energy, logistics, etc.)
 - D. Others

Proposed Incentive Program Guidelines – General Criteria

1. Contract Term / Project Life

• Project life - the period in which surplus emission reductions are delivered

	Carl Moyer	Proposed SCAQMD Stationary
Project life	 Minimum 3 years 	 Follow Carl Moyer & span project life to future attainment date (such as 2023 for 1997 8-hr ozone attainment)

2. Project Co-Funding

- Co-funding will improve cost effectiveness
- Incentives must not exceed the total project costs
- Ensure no double counting of emission reductions for SIP credit
 - Could be challenging in some cases

Proposed Incentive Program Guidelines – General Criteria (cont.)

3. Cost-effectiveness

Туре	Carl Moyer	Proposed SCAQMD Stationary	
Conventional / lower emission reduction project	\$30,000 per ton, PM weighted by a factor of 20	Cost effectiveness thresholds* TBD Could vary by project type considering co-benefits	
Zero emission technology (or cleanest certified)	\$100,000 per ton (beyond conventional reductions)		
School Bus	\$276,230 per ton	*SCAQMD to provide protocols for cost effectiveness & surplus calculations (with generic examples)	

Proposed Incentive Program Guidelines – General Criteria (cont.)

4. Emission Reductions to be Surplus, Quantifiable, Permanent and Enforceable

Surplus

- Not be required by any federal, State or local rule/regulation/legal mandates/air quality program/consent decree for the course of project life;
- Emission reductions are "surplus" only for the remaining useful life of equipment being replaced.

Quantifiable

- Reliably measured or determined, as well as replicated;
- A validated database, project life, usage, emission reduction equations, and emission factor.

Permanent

- Require the old equipment be destroyed and the destruction is verified to ensure baseline equipment is not reused;

Enforceable

- Independently verifiable and practically enforceable consistent with U.S. EPA guidance;
- Program violations are defined;
- Those liable can be identified;
- District or U.S. EPA may apply penalties and secure corrective action where applicable; and
- Citizens have access to all emissions-related information obtained from participating sources.

Proposed Incentive Program Guidelines – General Criteria (cont.)

5. Emission Reduction Technologies Certification

	Carl Moyer	Proposed SCAQMD Stationary
Technology Verification	 Certified or verified by ARB Certified or verified to Federal Standards as applicable 	 Certified or verified by SCAQMD or State Agency Certified or verified to Federal Standards as applicable Case-by-case analysis approval

Proposed Incentive Program Guidelines – Administration

- 1. Procedures for Solicitation of Projects and Applications
- 2. Application Review (Criteria: TBD)
- Administrative Cost Recovery
- 4. Annual Reporting
 Similar to Carl Moyer with potential modifications
- 5. Audit of Projects
 Similar to Carl Moyer
 - 5% of active projects or 20 active projects (whichever is less)
- 6. Nonperforming Projects
 - Similar to Carl Moyer
 - Monitor nonperformance
 - Nonperformance procedures
 - Withholding of Funds

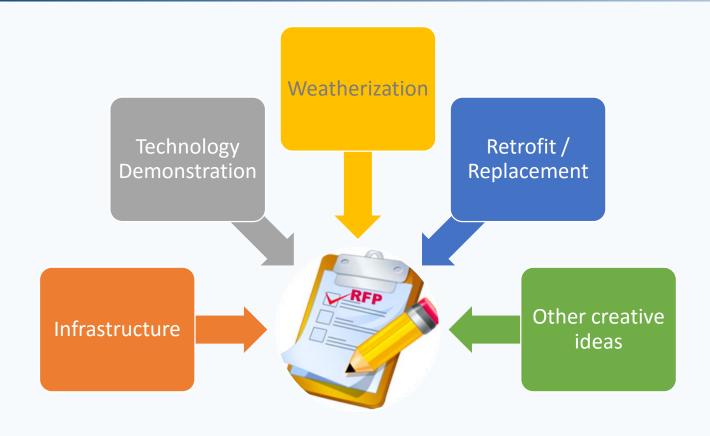
Next Step

- Working Group to submit comments by January 12, 2018
- Next Working Group scheduled in late January (tentative)
- Develop draft incentive program guidelines
 - Provide cost effectiveness calculation protocols

Parallel Effort: Request for Proposal

- Pilot program for emission reduction projects that include stationary sources
- Existing Special Revenue Funds
 - 11 Mitigation Project Funds
 - 3 Settlement Project Funds
 - 1 Incentive Program Fund
- Proposing broad-based RFP for incentive projects that provide NOx, PM, and VOC emission reductions
- To be considered by the Governing Board on Jan 5, 2018

RFP Potential Projects



Emission reductions generated through incentive projects may be credited towards SIP (AQMP) commitments.

Potential Incentive Projects for Stationary Sources



CMB-01

Replace older equipment with zero and near-zero emission technologies



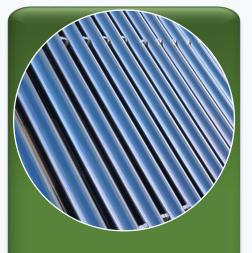
CMB-02

Replace older commercial and residential appliances with zero and near-zero emission appliances



CMB-04

Replace older restaurant burners and residential cooking appliances with zero and near-zero emission technologies



ECC-03

Improve residential and commercial building energy efficiency



BCM-01

Replace older commercial under-fired char broilers with add-on control equipment

Potential Incentive Projects for Mobile Sources



School Bus



Lawn & Garden Equipment



Locomotive



Heavy-duty Truck

Award Evaluation Criteria

Project Evaluation Criteria				
✓	Aids in achievement of SCAQMD's regional air quality goals (e.g., emission reduction, new technology, and infrastructure projects)	35		
✓	Experience and expertise to complete the project	20		
✓	Effective use of funds (e.g., cost effectiveness and/ or funding partnerships)	15		
✓	Co-benefits (e.g., control/mitigation of toxics or GHGs)	10		
✓	EJ Area benefits	10		
✓	Job creation within the jurisdiction of the SCAQMD	5		
✓	Community/government support	5		
Total		100		

Tentative Schedule for the RFP

